



IMPORTANT

Carefully read and understand this instruction manual before using the lift truck.

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

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

WHENEVER YOU SEE THIS SYMBOL IT MEANS:

🛦 IMPORTANT 🛕

WARNING ! BE CAREFUL ! YOUR SAFETY OR THE SAFETY OF THE LIFT TRUCK IS AT RISK.

- This manual has been produced on the basis of the equipment list and the technical characteristics given at the time of its design.
- The level of equipment of the lift truck depends on the options chosen and the country of sale.
- According to the lift truck options and the date of sale, certain items of equipment/functions described herein may not be available.
- Descriptions and figures are non binding.
- 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 at your disposal to answer all your questions.
- This manual is an integral part of the lift truck.
- It is to be kept in its storage space at all times for ease of reference.
- Hand this manual to the new owner if the lift truck is resold.



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Manitou BF S.A Limited liability company with a Board of Directors. Head office: 430, Rue de l'Aubinière - 44150 Ancenis - FRANCE Share capital: 39,548,949 euros 857 802 508 RCS Nantes. Tel: +33 (0)2 40 09 10 11 www.manitou.com

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2 - DESCRIPTION

3 - MAINTENANCE

4 - OPTIONAL ATTACHMENTS FOR USE WITH THE RANGE





1 - OPERATING AND SAFETY INSTRUCTIONS

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STANCE I 23 SIMPLE TIPS

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



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



Use the air-conditioning with windows and doors closed.



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



Preferably use LED headlights.



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



Adapt the type of tire to your environment.



Preferably use a fan control and reversal system.



Ensure that your tires are inflated to the correct pressure.



Favor "smart" electronically-managed transmissions.



Check the parking brake adjustment.

Preferably use manufacturer-recommended attachments



Check the general condition of your trailer.



Adapt your maximum towable load.



Use the attachments that are suitable for your machine.



Check the hydraulic adjustment of your attachments.



Observe the maintenance periods.



Study the manufacturers' maintenance contracts.



the air filter, etc.



You can follow eco-driving courses.



Lubricate regularly.



Demand to know the consumption and emissions of the machines.



Preferably buy through a manufacturer-approved dealer.



Calculate your consumption and emissions at reduce.manitou.com



Favor OEM parts







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INSTRUCTIONS TO THE COMPANY MANAGER

THE SITE

Proper management of lift truck's area of travel will reduce the risk of accidents:

- ground not unnecessarily uneven or obstructed,
 - no excessive slopes,
- pedestrian traffic controlled, etc.

THE OPERATOR

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

A IMPORTANT A

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

- The foreseeable abnormal behaviour resulting from ordinary negligence, but which does not result from any wish to put the machinery to any improper use. - The reflex reactions of a person in the event of a malfunction, incident, fault, etc. during operation of the lift truck.

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

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

The person in charge of the equipment must take these criteria into account when assessing the suitability of a person to drive.

THE LIFT TRUCK

A - THE TRUCK'S SUITABILITY FOR THE JOB

- MANITOU has ensured that this lift truck is suitable for use under the standard operating conditions defined in this operator's manual, with a **STATIC** test coefficient **OF 1,33** and a **DYNAMIC** test coefficient **OF 1**, as specified in harmonised standard **EN 1459** for variable range trucks.
- Before commissioning, the company manager must make sure that the lift truck is appropriate for the work to be done, and perform certain tests (in accordance with current legislation).

B - ADAPTATION OF THE LIFT TRUCK TO STANDARD ENVIRONMENTAL CONDITIONS

- In addition to series equipment mounted on your lift truck, many options are available, such as: road lighting, stop lights, revolving light, reverse lights, reverse buzzer alarm, front light, rear light, light at the jib head, etc. (according to the lift truck model).
- The operator must take into account the operating conditions to define the lift truck's signalling and lighting equipment. Contact your dealer.
- Take into account climatic and atmospheric conditions of the site of utilisation.
 - Protection against frost (see: 3 MAINTENANCE: LUBRICANTS AND FUEL).
 - Adaptation of lubricants (ask your dealer for information).
 - Engine filtration (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).

🛦 IMPORTANT 🛦

For operation under average climatic conditions, i.e.: between -15 °C and +35 °C, correct levels of lubricants in all the circuits are checked in production. For operation under more severe climatic conditions, before starting up, it is necessary to drain all the circuits, then ensure correct levels of lubricants using lubricants properly suited to the relevant ambient temperatures.

The same applies to the cooling liquid.

- A lift truck operating in an area without fire extinguishing equipment must be equipped with an individual extinguisher. There are solutions, consult your dealer.

A IMPORTANT A

Your lift truck is designed for outdoor use under normal atmospheric conditions and indoor use in suitably aerated and ventilated premises. It is prohibited to use the lift truck in areas where there is a risk of fire or which are potentially explosive

(e.g. Refineries, fuel or gas depots, stores of flammable products, etc.).

For use in these areas, specific equipment is available (ask your dealer for information).

- Our trucks comply with Directive 2004/108/EC concerning electromagnetic compatibility (EMC), and with the corresponding harmonized standard EN 12895. Their proper operation is no longer guaranteed if they are used within areas in which the electromagnetic fields exceed the limit specified by that standard (10 V/m).
- Directive 2002/44/EC requires company managers to not expose their employees to excessive vibration doses. There is no 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 lift truck and attachment for the intended use.

- Adapt the seat adjustment to the operator's weight (according to lift truck model) and maintain it in good condition, as well as the cab suspension. Inflate the tires in accordance with recommendations.
- Ensure that the operators adapt their operating speed to suit the conditions on site.
- As far as possible, arrange the site in such a way as to provide a flat running surface and remove obstacles and harmful potholes.

C - MODIFICATION OF THE LIFT TRUCK

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

D - FRENCH ROAD TRAFFIC RULES

- (or see current legislation in other countries)
- Only one certificate of conformity is issued. It must be kept in a safe place.
- The driving of non EC type-approved tractors on the public highway is subject to the provisions of the highway code relating to special machines, defined in article R311-1 of the highway code, in category B of the Equipment Order of 20 November 1969 that determines the procedures applicable to special machines. The lift truck must be fitted with a licence plate.
- The driving of EC type-approved tractors on the public highway is subject to the provisions of the highway code regarding agricultural tractors, defined in article R311-1 of the highway code. The lift truck must be registered.

SPECIAL INSTRUCTION APPLYING TO "EC TRACTOR" TYPE-APPROVED LIFT TRUCKS

- All EC tractor type-approved lift trucks are supplied with an "EC tractor" certificate complying with directive 2003/37/EC, 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 lift truck owner 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 an HGV licence, unless granted an exemption.
- The lift truck must be driven on the public highway in accordance with the instructions given in the manual supplied with the lift truck (Gross weight, Gross combination weight, towing load, axle loads, maximum speeds, etc. according to type/version). The operator must be in possession of the lift truck's registration document.

A IMPORTANT A

When towing a trailer or agricultural equipment, the travelling speed of the lift truck is limited to 25 km/h.

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

E - LIFT TRUCK CAB PROTECTION

- All lift trucks comply with the requirements of ISO 3471 (wheel loader code) regarding cab rollover protection (ROPS) and ISO 3449 (Level II) regarding the protection of the cab against falling objects (FOPS).
- "EC TRACTOR" type-approved lift trucks comply, in addition, with Directive 79/622/EC (OECD Code 4) regarding cab rollover protection (ROPS).

A IMPORTANT A

Structural damage or overturning, a modification, changes or a poorly executed repair can reduce the protective efficiency of the cab, cancelling its compliance. Do not perform welding or drilling on the cab structure.

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

THE INSTRUCTIONS

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

THE MAINTENANCE

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

A IMPORTANT A

Your lift truck must be inspected periodically to ensure that it remains in compliance.

The frequency of this inspection is defined by current legislation in the country in which the lift truck is used.

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

INSTRUCTIONS FOR THE OPERATOR

PREAMBLE

A IMPORTANT **A**

- The risk of accident while using, servicing or repairing your lift truck can be restricted if you follow the safety instructions and safety measures detailed in these instruction. Failure to respect the safety and operating instructions, or the instructions for repairing or servicing your lift truck may lead to serious, even fatal accident.
 - Only the operations and manoeuvres 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 lift truck itself are not exhaustive.
 - At any time, as an operator, you must envisage, within reason, the possible risk to yourself, to others or to the lift truck itself when you use it.

A IMPORTANT A

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

GENERAL INSTRUCTIONS

A - OPERATOR'S MANUAL

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

B - AUTHORISATION FOR USE IN FRANCE

- (or see current legislation in other countries).
- Only qualified, authorized personnel can use the lift truck. This authorization is given in writing by the appropriate person in the establishment with respect to the use of lift trucks and must be carried permanently by the operator.
- The operator is not competent to authorise the driving of the lift truck by another person.

C - MAINTENANCE

- The operator must immediately advise his superior if his lift truck is not in good working order or does not comply with the safety notice.
- The operator is prohibited from carrying out any repairs or adjustments himself, unless he has been trained for this purpose. He must keep the lift truck properly cleaned if this is among his responsibilities.
- The operator must carry out daily maintenance (see: 3 MAINTENANCE: A DAILY OR EVERY 10 HOURS SERVICE).
- The operator must ensure tyres are adapted to the nature of the ground (see area of the contact surface of the tyres in the chapter: 2 DESCRIPTION: TYRES). There are optional solutions, consult your dealer.
 - SAND tyres.
 - LAND tyres.
 - Snow chains.

A IMPORTANT A

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

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

D - MODIFICATION OF THE LIFT TRUCK

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

E - LIFTING PEOPLE

- The use of working equipment and load lifting attachments to lift people is:
 either forbidden
 - or authorized exceptionally and under certain conditions (see current regulations in the country in which the lift truck 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 lift truck.
 - Right-hand column
 - With a PLATFORM-fitted lift truck, people can only be lifted using platforms designed by MANITOU for the purpose.
- MANITOU sells equipment specifically designed for lifting people (OPTION PLATFORM lift truck, contact your dealer).

OPERATING INSTRUCTIONS UNLADEN AND LADEN

A - BEFORE STARTING THE LIFT TRUCK

- Perform the daily service (see: 3 MAINTENANCE: A DAILY OR EVERY 10 HOURS SERVICE).
- Make sure that the driver's cab is clean, particularly the floor and floor mat. Check that no movable object may hinder the operation of the lift truck.
- Make sure the lights, indicators and windscreen wipers are working properly.
- Make sure the rear view mirrors are in good condition, clean and properly adjusted.
- Make sure the horn works.

B - DRIVER'S OPERATING INSTRUCTIONS

- Whatever his experience, the operator is advised to familiarize himself with the position and operation of all the controls and instruments before operating the lift truck.
- Wear clothes suited for driving the lift truck, avoid loose clothes.
- Make sure you have the appropriate protective equipment for the job to be done.
- Prolonged exposure to high noise levels may cause hearing problems. It is recommended to wear ear muffs to protect against excessive noise.
- Always face the lift truck when getting into and leaving the driving seat and use the handle(s) provided for this purpose. Do not jump out of the seat to get down.
- Always pay attention when using the lift truck. Do not listen to the radio or music using headphones or earphones.
- Never operate the lift truck when hands or feet are wet or soiled with greasy substances.
- For increased comfort, adjust the seat to your requirements and adopt the correct position in the driver's cab.

A IMPORTANT A

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

- The operator must always be in his normal position in the driver's cab. It is prohibited to have arms or legs, or generally any part of the body, protruding from the driver's cab of the lift truck.
- The safety belt must be worn and adjusted to the operator's size.
- The control units must never in any event be used for any other than their intended purposes (e.g. climbing onto or down from the lift truck, portmanteau, etc.).
- If the control components are fitted with a forced operation (lever lock) device, it is forbidden to leave the cab without first putting these controls in neutral.
- It is prohibited to carry passengers either on the lift truck or in the cab.

C - ENVIRONMENT

- Comply with site safety regulations.
- If you have to use the lift truck in a dark area or at night, make sure it is equipped with working lights.
- During handling operations, make sure that no one is in the way of the lift truck and its load.
- Do not allow anybody to come near the working area of the lift truck or pass beneath an elevated load.
- When using the lift truck on a transverse slope, before lifting the boom, follow the instructions given in the paragraph: INSTRUCTIONS FOR HANDLING A LOAD: D TRANSVERSE ATTITUDE OF THE LIFT TRUCK.





- Travelling on a longitudinal slope:
 - Drive and brake gently.



Moving without load: Forks or attachment facing downhill.

- Moving with load: Forks or attachment facing uphill.
- Take into account the lift truck's dimensions and its load before trying to negotiate a narrow or low passageway.
- Never move onto a loading platform without having first checked:
 - That it is suitably positioned and made fast.
 - That the unit to which it is connected (wagon, lorry, etc.) will not shift.
 - That this platform is prescribed for the total weight of the lift truck to be loaded.
 - That this platform is prescribed for the size of the lift truck.
- Never move onto a foot bridge, floor or freight lift, without being certain that they are prescribed for the weight and size of the lift truck to be loaded and without having checked that they are in sound working order.
- Be careful in the area of loading bays, trenches, scaffolding, soft ground and manholes.
- Make sure the ground is stable and firm under the wheels and/or stabilizers before lifting or removing the load. If necessary, add sufficient 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.

A IMPORTANT A

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 boom 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 lift truck at an oil temperature as close as possible to ambient temperature.

- When working near aerial lines, ensure that the safety distance is sufficient between the working area of the lift truck and the aerial line.

A IMPORTANT A

You must consult your local electrical agency.

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

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

D - VISIBILITY

- The safety of people within the lift truck's working area, as well as that of the lift truck itself and the operator are depend on good operator visibility of the lift truck's immediate vicinity in all situations and at all times.
- This lift truck has been designed to allow good operator visibility (direct or indirect by means of rear-view mirrors) of the immediate vicinity of the lift truck while travelling with no load and with the 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 manoeuvre (while standing outside the truck'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 truck 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 manoeuvre (while standing outside the truck'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 manoeuvre (while standing outside the truck's area of travel), making sure to keep this person clearly in view at all times.
- Keep all components affecting visibility in a clean, properly adjusted state and in good working order (e.g. windscreens, windows, windscreen wipers, windscreen washers, driving and work lights, rear-view mirrors).

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E - STARTING THE LIFT TRUCK

SAFETY INSTRUCTIONS

A IMPORTANT A

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

- Never try to start the lift truck by pushing or towing it. Such operation may cause severe damage to the transmission. If necessary, to tow the lift truck in an emergency, the transmission must be placed in the neutral position (see: 3 MAINTENANCE: G OCCASIONAL 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.

A IMPORTANT A

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

INSTRUCTIONS

- Check the closing and locking of the hood(s).
- Check that the cab door is closed.
- Check that the forward/reverse selector is in neutral, and that the parking brake is applied.
- Press on the service brake pedal and maintain it down.
- Turn the ignition key to the position I to activate the electrical and pre-heating system.
- Whenever you switch on the lift truck, perform the automatic check on the longitudinal stability limiter and warning device (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS). Do not use the lift truck if it does not conform to the regulations.
- Check the fuel level on the indicator.
- Turn the ignition key fully, the engine should then start. Release the ignition key and let the engine run at idle.
- Do not engage the starter motor for more than 15 seconds and carry out the preheating between unsuccessful attempts.
 Make sure all the signal lights on the control instrument panel are off.
- Check all control instruments when the engine is warm and at regular intervals during use, so as to quickly detect any faults and to be able to correct them without any delay.
- If an instrument does not show the correct display, stop the engine and immediately carry out the necessary operations.

F - DRIVING THE LIFT TRUCK

SAFETY INSTRUCTIONS

A IMPORTANT A

The operators' attention is drawn to the risks involved in using the lift truck, in particular:

- Risk of loosing control.

- Risk of loosing lateral and frontal stability of the lift truck.

The operator must remain in control of the lift truck.

In the event of the lift truck overturning, do not try to leave the cabin during the incident.

YOUR BEST PROTECTION IS TO STAY FASTENED IN THE CABIN.

- Observe the company's traffic regulations or, by default, the public highway code.
- Do not carry out operations which exceed the capacities of your lift truck or attachments.
- Always drive the lift truck with the forks or attachment to the transport position, i.e. at 300 mm from the ground, the boom retracted and the carriage sloping backwards.
- Only carry loads which are balanced and properly anchored to avoid any risk of a load falling off.
- Ensure that palettes, cases, etc, are in good order and suitable for the load to be lifted.
- Familiarise yourself with the lift truck on the terrain where it will be used.
- Ensure that the service brakes are working properly.
- The loaded lift truck must not travel at speeds in excess of 12 km/h.
- Drive smoothly at an appropriate speed for the operating conditions (land configuration, load on the lift truck).
- Do not use the hydraulic boom controls when the lift truck is moving.
- Never change the steering mode whilst driving.
- Do not manoeuvre the lift truck with the boom in the raised position unless under exceptional circumstances and then with extreme caution, at very low speed and using gentle braking. Ensure that visibility is adequate.
- Take bends slowly.
- In all circumstances make sure you are in control of your speed.
- On damp, slippery or uneven terrain, drive slowly.
- Brake gently, never abruptly.
- Only use the lift truck's forward/reverse selector from a stationary position and never do so abruptly.
- Do not drive with your foot on the brake pedal.
- Always remember that hydrostatic type steering is extremely sensitive to movement of the steering wheel, so turn it gently and not jerkily.
- Never leave the engine on when the lift truck is unattended.

- Do not leave the cab when the lift truck has a raised load.
- Look where you are going and always make sure you have good visibility along the route.
- Use the rear-view mirrors frequently.
- Drive round obstacles.
- Never drive on the edge of a ditch or steep slope.
- It is dangerous to use two lift trucks simultaneously to handle heavy or 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 lift trucks not fitted with a punch-operated cut-out.

INSTRUCTIONS

- Always drive the lift truck with the forks or attachment to the transport position, i.e. at 300 mm from the ground, the boom retracted and the carriage sloping backwards.
- For lift trucks with gearboxes, use the recommended gear (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).
- Select the steering mode appropriate for its use and/or working conditions (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS) (as model of lift truck).
- Release the hand brake.
- Shift the forward/reverse selector to the selected direction of travel and accelerate gradually until the lift truck moves off.

A IMPORTANT A

Starting and driving a lift truck on a slope can present a very real danger. The lift truck being parked or stopped, scrupulously follow the following instructions for moving off: - Press the service brake pedal. - Engage 1st or 2nd gear and select forward or reverse. - Check that there is nothing and no-one obstructing the lift truck's path. - Release the service brake pedal and increase the engine revs. The risk is increased if the lift truck is laden or towing a trailer, requiring extreme vigilance.

G - STOPPING THE LIFT TRUCK

SAFETY INSTRUCTIONS

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

INSTRUCTIONS

- Park the lift truck on flat ground or on an incline lower than 15 %.
- Set the forward/reverse selector to neutral.
- Engage the parking brake.
- For lift trucks with gearboxes, place the gear lever in neutral.
- Fully retract the boom.
- Lower the forks or attachment to rest on the ground.
- When using an attachment with a grab or jaws, or a bucket with hydraulic opening, close the attachment fully.
- Before stopping the lift truck after a long working period, leave the engine idling for a few moments, to allow the coolant liquid and oil to lower the temperature of the engine and transmission. Do not forget this precaution, in the event of frequent stops or warm stalling of the engine, or else the temperature of certain parts will rise significantly due to the stopping of the cooling system, with the risk of badly damaging such parts.
- Stop the engine with the ignition switch.
- Remove the ignition key.
- Lock all the accesses to the lift truck (doors, windows, cowls...).

H - DRIVING THE LIFT TRUCK ON THE PUBLIC HIGHWAY

(or see current legislation in other countries)

FRENCH ROAD TRAFFIC RULES

- The driving of non EC type-approved tractors on the public highway is subject to the provisions of the highway code relating to special machines, defined in article R311-1 of the highway code, in category B of the Equipment Order of 20 November 1969 that determines the procedures applicable to special machines. The lift truck must be fitted with a licence plate.
- The driving of EC type-approved tractors on the public highway is subject to the provisions of the highway code regarding agricultural tractors, defined in article R311-1 of the highway code. The lift truck must be registered.
- The lift truck must be driven on the public highway in accordance with the instructions given in the manual supplied with the lift truck (Gross weight, Gross combination weight, towing load, axle loads, maximum speeds, etc. according to type/version). The operator must be in possession of the lift truck's registration document.
- The operator must hold an HGV licence, unless granted an exemption.
- When towing a trailer or agricultural equipment, the travelling speed of the lift truck is limited to 25 km/h. In this case, a "25" disc must be affixed to the rear of the convoy. When driving with a trailer, the fact of not engaging 4th gear will ensure compliance with the towing speed limit (max. 25 km/h). On "POWERSHIFT" models, as 3rd gear is slower than on other models, it is preferable to use 5th gear and disable automatic upshifting to 6th gear (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).

SAFETY INSTRUCTIONS

- Operators driving on the public highway must comply with current highway code legislation.
- The lift truck must comply with current road legislation. If necessary, there are optional solutions. Contact your dealer. INSTRUCTIONS
 - Make sure the revolving light is in place, switch it on and verify its operation.
 - Make sure the lights, indicators and windscreen wipers are working properly.
 - Switch off the working headlights if the lift truck is fitted with them.
 - Select the steering mode "HIGHWAY TRAFFIC" (as model of lift truck) (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).
 - Fully retract the boom and set the attachment approximately 300 mm off the ground.
 - Place the roll corrector in the central position, i.e. the transverse axis of the axles parallel to the chassis (as model of lift truck).
 - Fully raise the stabilizers and turn the blocks inwards (according to model of lift truck).

A IMPORTANT A

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

DRIVING THE LIFT TRUCK WITH A FRONT-MOUNTED ATTACHMENT

- You must comply with current regulations in your country, covering the possibility of driving on the public highway with a front-mounted attachment on your lift truck.
- If road legislation in your country authorizes circulation with a front-mounted attachment, you must at least:
 - Protect and report any sharp and/or dangerous edges on the attachment (see: 4 ADAPTABLE ATTACHMENTS IN OPTION ON THE RANGE: ATTACHMENT SHIELDS).
 - 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 LIFT TRUCK WITH A TRAILER

- For using a trailer, observe the regulations in force in your country (maximum travel speed, braking, maximum weight of trailer, etc.).
- Do not forget to connect the trailer's electrical equipment to that of the lift truck.
- The trailer's braking system must comply with current legislation.
- If pulling a trailer with assisted braking, the tractor lift truck must be equipped with a trailer braking mechanism. In this case, do not forget to connect the trailer braking equipment to the lift truck.
- The vertical force on the towing hook must not exceed the maximum authorised by the manufacturer (consult the manufacturer's plate on your lift truck).
- The authorised gross vehicle weight must not exceed the maximum weight authorised by the manufacturer (see: 2 DESCRIPTION: CHARACTERISTICS).

IF NECESSARY, CONSULT YOUR DEALER.

INSTRUCTIONS FOR HANDLING A LOAD

A - CHOICE OF ATTACHMENTS

- Only attachments approved by MANITOU can be used on its lift trucks.
- Make sure the attachment is appropriate for the work to be done (see: 4 ADAPTABLE ATTACHMENTS IN OPTION ON THE RANGE).
- If the lift truck is equipped with the Single side-shift carriage OPTION (TSDL), use only the authorised attachments (see: 4 ADAPTABLE ATTACHMENTS IN OPTION ON THE RANGE).
- Make sure the attachment is correctly installed and locked onto the lift truck carriage.
- Make sure that your lift truck attachments work properly.
- Comply with the load chart limits for the lift truck for the attachment used.
- Do not exceed the rated capacity of the attachment.
- Never lift a load in a sling without the attachment provided for the purpose, as the sling risks to slip (see: INSTRUCTIONS FOR HANDLING A LOAD: H TAKING UP AND LAYING DOWN A SUSPENDED LOAD).
- Do not handle loads that are hung directly from the forks with straps (e.g.: big-bag), as there is a risk that the straps will shear against the sharp edges. Use an attachment designed for this purpose.

B - MASS OF LOAD AND CENTRE OF GRAVITY

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

A IMPORTANT A

It is forbidden to move a load heavier than the effective capacity defined on the lift truck load chart. For loads with a moving centre of gravity (e.g. liquids), take account of the variations in the centre of gravity in order to determine the load to be handled and be vigilant and take extra care to limit these variations as far as possible.



This device gives an indication of the longitudinal stability of the lift truck, and limits hydraulic movements in order to ensure this stability, at least under the following operating conditions:

- when the lift truck is at a standstill,
- when the lift truck is on firm, stable and consolidated ground,
- when the lift truck is performing handling and placing operations.
- Move the jib very carefully when approaching the authorized load limit (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).
- Always watch this device during handling operations.
- In the event that "AGGRAVATING" hydraulic movements are cut-off, only perform de-aggravating hydraulic movements in the following order (fig. C): if necessary, raise the jib (1), retract the jib as far as possible (2) and lower the jib (3) to set down the load.

A IMPORTANT A

The instrument reading may be erroneous when the steering is at full lock or the rear axle is oscillated to its maximum extent. Before lifting a load, make sure that the lift truck is not in either of these situations.







D - TRANSVERSE ATTITUDE OF THE LIFT TRUCK

Depending on the model of lift truck

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

Raising the jib reduces the lift truck's lateral stability. The transverse attitude must be set with the jib in down position as follows: 1 - LIFT TRUCK WITHOUT ROLL CORRECTOR USED ON TYRES

- Position the lift truck so that the bubble in the level is between the two lines (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).
- 2 LIFT TRUCK WITH ROLL CORRECTOR USED ON TYRES

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

- 3 LIFT TRUCK USED ON STABILIZERS
 - Set the two stabilizers on the ground and raise the two front wheels of the lift truck (fig. D1).
 - Correct the roll using the stabilizers (fig. D2) and check horizontality with the spirit level. The bubble of the level must be between the two lines (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS). In this position, the two front wheels must be off the ground.





E - TAKING UP A LOAD ON THE GROUND

- Approach the lift truck perpendicular to the load, with the jib retracted and the forks in a horizontal position (fig. E1).
- Adjust the fork spread and centring relative to the load to ensure stability (fig. E2) (optional solutions exist, consult your dealer).
- Never lift a load with a single fork.

A IMPORTANT A

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

- Move the lift truck forward slowly (1) and insert the forks under the load as far as they will go (fig. E3). If necessary, slightly lift the jib (2) while taking up the load.
- Bring the load into the transport position.
- Tilt the load far enough backwards to ensure stability (loss of load on braking or going downhill).

FOR A NON-PALLETISED LOAD

- Tilt the carriage (1) forwards and move the lift truck slowly forwards (2), to insert the fork under the load (fig. E4) (block the load if necessary).
- Continue to move the lift truck forwards (2) tilting the carriage (3) (fig. E4) backwards to position the load on the forks and check the load's longitudinal and lateral stability.









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F - TAKING UP AND LAYING A HIGH LOAD ON TYRES

🛕 IMPORTANT 🛕

You must not raise the jib if you have not checked the transverse attitude of the lift truck (see: INSTRUCTIONS FOR HANDLING A LOAD: D - TRANSVERSE ATTITUDE OF THE LIFT TRUCK).

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

TAKING UP A HIGH LOAD ON TYRES

- Ensure that the forks will easily pass under the load.
- Lift and extend the jib (1) (2) until the forks are level with the load, moving the lift truck (3) forward if necessary (fig. F1), moving very slowly and carefully.
- Always remember to keep the distance necessary for inserting the forks under the load, between the stack and the lift truck (fig. F1) and use the shortest possible length of jib.
- Insert the forks under the load as far as they will go by alternately extending and lowering the jib (1) or, if necessary, moving the lift truck forward (2) (fig. F2). Apply the handbrake and place the forward/reverse selector in neutral.
- Slightly raise the load (1) and tilt the carriage (2) backwards to stabilize the load (fig. F3).
- Tilt the load sufficiently backwards to ensure its stability.
- Monitor the longitudinal stability limiter and warning device (see: INSTRUCTIONS FOR HANDLING A LOAD: C LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE). If it is overloaded, set the load back down in the place from which it was taken.
- If possible lower the load without shifting the lift truck. Lift the jib (1) to release the load, retract (2) and lower the jib (3) to bring the load into the transport position (fig. F4).
- If this is not possible, back up the lift truck (1), manoeuvring very gently and carefully to release the load. Retract (2) and lower the jib (3) to bring the load into the transport position (fig. F5).











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LAYING A HIGH LOAD ON TYRES

- Approach the load in the transport position in front of the stack (fig. F6).
- Apply the parking brake and place the forward/reverse selector in neutral.
- Raise and extend the jib (1) (2) until the load is above the stack, while monitoring the longitudinal stability limiter and warning device (see: INSTRUCTIONS FOR HANDLING A LOAD: C LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE). If necessary, move the lift truck (3) forward (fig. F7), driving very slowly and carefully.
- Place the load in a horizontal position and lay it down on the pile by lowering and retracting the jib (1) (2) in order to position the load correctly (fig. F8).
- If possible, release the fork by alternately retracting and raising the jib (1) (fig. F9). Then set the forks into transport position.
- If this is not possible, reverse the lift truck (1) very slowly and carefully to release the forks (fig. F10). Then set them into transport position.











G - TAKING UP AND LAYING A HIGH LOAD ON STABILIZERS

Depending on the model of lift truck

A IMPORTANT A

You must not raise the jib if you have not checked the transverse attitude of the lift truck (see: INSTRUCTIONS FOR HANDLING A LOAD: D - TRANSVERSE ATTITUDE OF THE LIFT TRUCK).

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

The stabilizers are used to optimise the lift truck's lifting performances (see: 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS). POSITION 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 have room for the jib to be raised.
- Apply 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 lift truck (fig. G1), while maintaining its transverse stability.

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

- Raise both stabilizers fully and at the same time.

LOWERING OF STABILISERS WITH JIB UP (UNLADEN AND LADEN).

A IMPORTANT A

This operation must be exceptional and performed with great care.

- Raise the jib and retract the telescopes completely.
- Set the lift truck in position in front of the elevation (fig. G2) moving very slowly and carefully.
- Apply 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 lift truck (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 JIB UP (UNLADEN AND LADEN)

A IMPORTANT A

This operation must be exceptional and performed with great care.

- Keep the jib up 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, the transverse attitude must be permanently maintained: the bubble in the level must be kept between the two lines.
- Raise both stabilizers completely.
- Release the parking brake and reverse the lift truck (1) very slowly and carefully, to release it and lower the forks (2) into transport position (fig. G4).









TAKING UP A HIGH LOAD ON STABILISERS

- Ensure that the forks will easily pass under the load.
- Check the position of the lift truck with respect to the load and make a test run, if necessary, without taking the load.

3° (1) 🛢 🔊 💰 🐎 🍕 🔁 🗳 🖉 🖚

- Raise and extend the jib (1) (2) until the forks are at the level of the load (fig. G5).
- Insert the forks under the load as far as they will go by alternately extending and lowering the jib (1) (fig. G6).
- Lift the load slightly (1) and tilt the carriage (2) backwards to stabilise the load (fig. G7).
- Monitor the longitudinal stability limiter and warning device (see: INSTRUCTIONS FOR HANDLING A LOAD: C LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE).
- If it is overloaded, set the load back down in the place from which it was taken. - If possible lower the load without moving the lift truck. Raise the jib (1) to release the
- load, retract (2) and lower the jib (3) to set the load into transport position (fig. G8).











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LAYING A HIGH LOAD ON STABILISERS

- Raise and extend the jib (1) (2) until the load is above the elevation (fig. G9), while monitoring the longitudinal stability limiter and warning device (see: INSTRUCTIONS FOR HANDLING A LOAD: C - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE).
- Position the load horizontally and release it by lowering and retracting the jib (1) (2) to position the load correctly (fig. G10).
- Free the forks by alternating retracting and raising the jib (3) (fig. G11).
- If possible, set the jib in transport position without moving the lift truck.



H - TAKING UP AND LAYING DOWN A SUSPENDED LOAD

A IMPORTANT A

Failure to follow the above instructions may lead the lift truck to loose stability and overturn. MUST be used with a lift truck equipped with an operational hydraulic movement cut-out 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 LIFT TRUCK

- Whether on stabilisers or on tyres, 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.
- Ensure that there is no one between the load and the lift truck.

I - TRAVELLING 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.
- The lift truck must not travel at more than 0,4 m/s (1,5 km/h, i.e., one quarter walking speed).
- Drive and stop the lift truck gently and smoothly to minimise swinging of the load.
- Carry the load a few centimetres above the ground (max. 30 cm) 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.
- Before moving the lift truck, check the longitudinal stability limiter and warning device (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS), only the green LEDs and possible the yellow LEDs should be lit.
- During transport, the lift truck operator must be assisted by a person on the ground (standing a minimum of 3 m 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 jib angle must not exceed 45°.
- If the first red LED of longitudinal stability limiter and warning device (see: 2 DESCRIPTION: INSTRUMENTS AND CONTROLS) comes on while travelling, gently bring the lift truck to a halt and stabilise the load. Retract the telescope to reduce the offset of the load.

PLATFORM OPERATING INSTRUCTIONS

For lift trucks fitted with a PLATFORM

A - AUTHORISATION FOR USE

- Operation of the platform requires further authorisation in addition to that of the lift truck.

B - LIFT TRUCK SUITABILITY FOR USE

- MANITOU has ensured that this platform is suitable for use under the normal operating conditions defined in this operator's manual, with a **STATIC** test coefficient **OF 1,25** and a **DYNAMIC** test coefficient **OF 1,1**, as specified in harmonised standard **EN 280** for "mobile elevating work platforms".
- Before commissioning, the company manager must make sure that platform is appropriate for the work to be done, and perform certain tests (in accordance with current legislation).

C - PRECAUTIONS WHEN USING THE PLATFORM

- Wear suitable clothing when using the platform, avoid loosely-fitting garments.
- Never operate the platform when hands or feet 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.
- For increased comfort, adopt the correct position at the platform's operator station.
- The platform's guard rail exempts the operator from wearing a safety harness under normal operating conditions. As a result, you are responsible for deciding whether to wear a safety harness.
- The control units must never in any event be used for any other than their intended purposes (e.g. climbing onto or down from the lift truck, portmanteau, etc.).
- Safety helmets must be worn.
- The operator must always be in the normal operator's position. It is prohibited to have arms or legs, or generally any part of the body, protruding from the basket.
- Ensure that any 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.

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 lift truck.
- Check before operating the platform that the access gate has been properly locked.
- 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 on the ground by a person with adequate training.
- You should stay within the limits set out in the platform load chart.
- The lateral stresses are limited pressure (see: 2 DESCRIPTION: CHARACTERISTICS).
- It is strictly forbidden to hang a load from the platform or the lift truck jib without a specially designed attachment (see: INSTRUCTIONS FOR HANDLING A LOAD: H TAKING UP AND LAYING 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 lift truck must not be moved with one (or more) person(s) in the platform.
- It is forbidden to transport people on the platform using the hydraulic controls in the lift truck's driver'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 platform must not be fitted with attachments that increase the unit's wind load.
- Do not use ladders or improvised structures in the platform to gain extra height.
- Do not climb onto the sides 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

A IMPORTANT A

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

| RATED VOLTAGE | DISTANCE ABOVE GROUND OR FLOOR IN METRES |
|---------------------|------------------------------------------|
| 50 < U < 1000 | 2,30 M |
| 1000 < U < 30000 | 2,50 M |
| 30000 < U < 45000 | 2,60 M |
| 45000 < U < 63000 | 2,80 M |
| 63000 < U < 90000 | 3,00 M |
| 90000 < U < 150000 | 3,40 M |
| 150000 < U < 225000 | 4,00 M |
| 225000 < U < 400000 | 5,30 M |
| 400000 < U < 750000 | 7,90 M |



A IMPORTANT A

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

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

| BEAUFORT scale (wind speed at a height of 10 m on a flat site) | | | | | | |
|----------------------------------------------------------------|-----------------|------------------|-----------------|----------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Force | Type of wind | Speed (knots) | Speed (km/h) | Speed (m/s) | Effects on Land | Sea conditions |
| 0 | Calm | 0-1 | 0-1 | < 0,3 | - Smoke rises vertically. | - Sea is like a mirror. |
| 1 | Light air | 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 | 6 - 11 | 1,6 - 3,3 | Wind felt on face, leaves rustle. | Short wavelets, but pronounced. |
| 3 | Gentle breeze | 7 - 10 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 + | 118+ | 32,7 + | - Devastating damage. | Sea completely white; air filled with foam and spray very reduced visibility |

F - MAINTENANCE



Your platform must be periodically inspected to ensure its continued compliance. The inspection frequency is defined by the legislation applying in the country in which the platform is used. In France, a general periodic inspection every 6 months (order of 1 March 2004).

INSTRUCTIONS FOR USING THE RADIO-CONTROL

For lift trucks with RC radio control

HOW TO USE THE RADIO-CONTROL

SAFETY INSTRUCTIONS

- 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.

A IMPORTANT A

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 lift truck and other neighbouring items.

All those 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 lift truck remotely via radio waves. Commands are also transmitted if the lift truck 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.).

A IMPORTANT A

Never drive the lift truck 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.

A IMPORTANT A

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 lift truck will be immobilised 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 lift truck.
- 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 altered, removed or bypassed in any way whatsoever!
- The hand-guard frame prevents external action on a manipulator (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 manipulators are not mechanically and electrically at rest and if the internal combustion engine speed selector is not set to idle.

A IMPORTANT A

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

LIFT TRUCK MAINTENANCE INSTRUCTIONS

GENERAL INSTRUCTIONS

- Ensure the area is sufficiently ventilated before starting the lift truck.
- Wear clothes suitable for the maintenance of the lift truck, avoid wearing jewellery and loose clothes. Tie and protect your hair, if necessary.
- Stop the engine and remove the ignition key, when an intervention is necessary.
- Read the operator's manual carefully.
- Carry out all repairs immediately, even if the repairs concerned are minor.
- Repair all leaks immediately, even if the leak concerned is minor.
- Make sure that the disposal of process materials and of spare parts is carried out in total safety and in a ecological way.
- Be careful of the risk of burning and splashing (exhaust, radiator, engine, etc.).

PLACING THE JIB SAFETY WEDGE

- The lift truck is equipped with a jib safety wedge (see: 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS) that must be installed on the rod of the lifting cylinder when working beneath the jib.

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 lift truck.

A IMPORTANT A Only use the wedge supplied with the lift truck.



MAINTENANCE

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

MAINTENANCE LOGBOOK

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

LUBRICANT AND FUEL LEVELS

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

HYDRAULIC

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

A IMPORTANT A

BALANCING VALVE: It is dangerous to change the setting and remove the balancing valves or safety valves which may be fitted to your lift truck cylinders. The HYDRAULIC ACCUMULATORS that may be fitted on your lift truck are pressurised units. Removing these accumulators and their pipework is a dangerous operation and must only be performed by approved personnel (consult your dealer).

ELECTRICITY

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

WELDING

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

WASHING THE LIFT TRUCK

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

TRANSPORTING THE LIFT TRUCK

A IMPORTANT A

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

- Towing, slinging or transporting the lift truck (see: 3 - MAINTENANCE: G - OCCASIONAL MAINTENANCE).

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

INTRODUCTION

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

A IMPORTANT A

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

PREPARING THE LIFT TRUCK

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

PROTECTING THE ENGINE

- Fill the tank with fuel (see: 3 MAINTENANCE: A DAILY OR EVERY 10 HOURS SERVICE).
- Empty and replace the cooling liquid (see: 3 MAINTENANCE: F EVERY 2000 HOURS SERVICE).
- Leave the engine running at idling speed for a few minutes, then switch off.
- Replace the engine oil and oil filter (see: 3 MAINTENANCE: D EVERY 500 HOURS SERVICE).
- 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 a maximum.
- Block the outlet with waterproof adhesive tape.
- Remove the drive belts and store them in a safe place.
- Disconnect the engine cut-off solenoid on the injection pump and carefully insulate the connection.

PROTECTING THE LIFT TRUCK

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

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

BRINGING THE LIFT TRUCK BACK INTO SERVICE

- Remove the waterproof adhesive tape from all the holes.
- Refit and reconnect the battery.
- Remove the protection from the cylinder rods.
- Perform the daily service (see: 3 MAINTENANCE: A DAILY OR EVERY 10 HOURS SERVICE).
- Put the handbrake on and remove the axle stands.
- Empty and replace the fuel and replace the fuel filter (see: 3 MAINTENANCE: D EVERY 500 HOURS SERVICE).
- Refit and set the tension in the drive belts (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Turn the engine over with the starter, to allow the oil pressure to rise.
- Reconnect the engine cut-off solenoid.
- Lubricate the lift truck completely (see: 3 MAINTENANCE: SERVICING SCHEDULE).

A IMPORTANT A

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

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

LIFT TRUCK DISPOSAL

MANITOU complies with the regulations deriving from Directive 2000/53/EC relating to lift truck end-of-life. This lift truck contains no substances or materials forbidden by Directive 2000/53/EC.

NOTE: Consult your dealer before disposing of your lift truck.

RECYCLING OF MATERIALS

METALS

• Metals are 100 % recoverable and recyclable.

PLASTICS

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

RUBBER

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

GLASS

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

ENVIRONMENTAL PROTECTION

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

WORN OR DAMAGED PARTS

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

USED OIL

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

USED BATTERIES

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

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



2 - DESCRIPTION

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«EC» DECLARATION OF CONFORMITY

DÉCLARATION «CE» DE CONFORMITÉ (originale) «EC» DECLARATION OF CONFORMITY (original) 2) La société, The company : MANITOU BF 3) Adresse, Address : 430, rue de l'Aubinière - BP 10249 - 44158 - ANCENIS CEDEX - FRANCE 4) Dossier technique, Technical file : MANITOU BF - 430, rue de l'Aubinière **BP 10249 - 44158 - ANCENIS CEDEX - FRANCE** 5) Constructeur de la machine décrite ci-après, Manufacturer of the machine described below : MLT 625-75 H ST3B 6) Déclare que cette machine, Declares that this machine : 7) Est conforme aux directives suivantes et à leurs transpositions en droit national, Complies with the following directives and their transpositions into national law: 2006/42/CE 8) Pour les machines annexe IV, For annex IV machines : 9) Numéro d'attestation, Certificate number: 10) Organisme notifié, Notified body: 15) Normes harmonisées utilisées, Harmonised standards used : 16) Normes ou dispositions techniques utilisées, Standards or technical provisions used : 17) Fait à, Done at : 18) Date, Date: 19) Nom du signataire, Name of signatory : 20) Fonction, Function:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SAFETY PLATES AND STICKERS

A IMPORTANT A

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

EXTERNAL PLATES AND STICKERS

| | 1 | | | | | |
|-----|----------|---------------------------------------------|--|--|--|--|
| REF | PART No. | DESCRIPTION | | | | |
| 1 | 234805 | - Hydraulic coupling instruction | | | | |
| 2 | 296998 | - Maniscopic safety instruction | | | | |
| 3 | 24653 | - Slinging point | | | | |
| 4 | 289101 | - Tie-down point | | | | |
| 5 | 234798 | - Hydraulic oil | | | | |
| 6 | 288430 | - Repairing instructions (on lift cylinder) | | | | |
| 7 | 268491 | - Brake fluid instruction | | | | |
| 8 | 305405 | - Diesel fuel | | | | |
| 9 | 289013 | - Towing instruction (option) | | | | |
| 10 | 289625 | - Easy attachment connection (option) | | | | |
| 11 | 290065 | - Brake fluid | | | | |
| 12 | 250707 | - Fan reversal | | | | |
| 13 | 307508 | - Battery cut-off instruction | | | | |



STICKERS AND PLATES UNDER THE ENGINE HOOD

| REF | PART No. | DESCRIPTION |
|-----|----------|-----------------------------|
| 1 | 233088 | - Preheat rod (option) |
| 2 | 52506370 | - Fuses |
| 3 | 259398 | - Water/diesel separator |
| 4 | 52515083 | - Anti-freeze |
| 5 | 234797 | - Air conditioning (option) |



PLATES AND STICKERS IN THE CAB

| REF | PART No. | DESCRIPTION | | | | |
|-----|---------------------|------------------------------------------------------------------------------------|--|--|--|--|
| 1 | 240805 | - Reach chart sheet | | | | |
| 2 | 52509000 | - Manipulator function sheet | | | | |
| 3 | 241621 | - Safety instruction sheet | | | | |
| 4 | Consult your dealer | - Load chart | | | | |
| 5 | 52504056 | - Fuse sheet | | | | |
| 6 | 52533603 | - Fuse sheet | | | | |
| 7 | 292165 | - Screen display function sheet | | | | |
| 8 | 293114 | Attachment hydraulic flow rate adjustment function sheet | | | | |
| 9 | 294831 | - Reset procedure sheet | | | | |
| 10 | 290439 | - Telescope head electrovalve function sheet (option) | | | | |
| 11 | 292128 | Attachment hydraulic flow rate selector function sheet(option) | | | | |
| 12 | 290183 | - Bucket instruction on telescope | | | | |
| 13 | 297733 | - Operating mode management instruction | | | | |
| 14 | 52515374 | - Main functions | | | | |
| 15 | 184276 | - Steering selection | | | | |
| 16 | 297874 | - Cab homologation | | | | |
| 17 | Consult your dealer | - Manufacturer's plate | | | | |
| 18 | 193032 | - Cab compliance | | | | |
| 19 | 239594 | - Sound power level | | | | |
| 20 | 172385 | - Towing forbidden | | | | |
| 21 | 52521685 | - Diesel exhaust particle filter regeneration function sheet | | | | |
| 22 | 52527278 | - Consumption sheet | | | | |

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Cab Approval

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IDENTIFICATION OF THE LIFT TRUCK

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

When you order parts, or when you require any technical information, always specify:

NOTE: For the owner's convenience, it is recommended that a note of these numbers is made in the spaces provided, at the time of the delivery of the lift truck.

LIFT TRUCK MANUFACTURER'S PLATE

- 1 MODEL
- 2 SERIES
- 3 Year of manufacture
- 4 Model year
- 5 Serial No.
- 6 Power ISO 3046
- 7 Empty ground
- 8 Authorized gross vehicle weight
- 9 Rated capacity
- 10 Pulling force
- 11 Maximum vertical force (on trailer hook)
- 12 Tire pressure (bar)
- 13 Homologation No.

For any further technical information regarding your lift truck refer to chapter: 2 - DESCRIPTION: CHARACTERISTICS.

ENGINE

- Model
- Serial No.
- Engine No.

HYDROSTATIC PUMP

- MANITOU reference
- Type of codification
- Serial No.
- Manufacturer's No.
- Year of manufacture

HYDROSTATIC MOTOR

- MANITOU reference
- Type of codification
- Serial No.
- Manufacturer's No.
- Year of manufacture









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FRONT AXLE

REAR AXLE

TypeSerial No.

- Type
- Serial No.
- MANITOU reference

MANITOU reference











- CAB
- Type
- Serial No.

JIB

- MANITOU reference
- Date of manufacture

CHASSIS

• Lift truck serial No.

CONNECTION MANFACTURER'S PLATE

- Model
- Serial No.
- Year of manufacture



CHARACTERISTICS

| ENGINE | | |
|---------------------------|---------|-----------------|
| Туре | | KUBOTA V3307 |
| Fuel | | Diesel |
| Number of cylinders | | 4 in line |
| Suction | | Supercharged |
| Injection system | | Direct |
| Ignition sequence | | 1.3.4.2 |
| Capacity | cm3 | 3331 |
| Bore and stroke | mm | 94 x 120 |
| Compression ratio | | 17.5 |
| Nominal speed laden | rpm | 2600 |
| Min. rpm unladen | rpm | 895 |
| Max. rpm unladen | rpm | 2800 |
| Power ISO 3046-1 | hp - kW | 75 - 55,4 |
| Power SAE J 1995 | hp - kW | 75 - 55,4 |
| Maximum torque ISO 3046-1 | Nm | 265 at 1400 rpm |
| Air cleaner | μm | 3 |
| Type of cooling | | By water |
| Fan | | Puller |
| | | |

| IRANSMISSION | | |
|----------------------------|---------|------------------------------------|
| Hydrostatic pump | | DANFOSS |
| - Type | | Variable displacement piston motor |
| - Forward/reverse selector | | Electro-hydraulic |
| - Number of forward gears | | 2 (1 slow and 1 fast) |
| - Number of reverse gears | | 2 (1 slow and 1 fast) |
| Main pump | | |
| - MAX./MIN. displacement | cm3/rev | 0 - 69 |
| - MAX. flow rate | l/mn | 243 |
| - Working pressure | bar | 420 |
| Booster pump | | |
| - Capacity | cm3/rev | 17 |
| - MAX. flow rate | l/mn | 40 |
| - Boost pressure MAX. rpm | bar | 30 (transmission in neutral) |
| Hydrostatic motor | | DANFOSS |
| - Type | | variable bi-directional |
| - MAX./MIN. displacement | cm3/rev | 29 - 110 |
| Transfer gear box | | DANA |
| Front axle | | DANA |
| - Differential | | 45 % limited slip differential |
| Rear axle | | DANA |
| - Differential | | Without locking |
| Drive wheels | | Permanent 4 WD |
| - 2/4 wheel drive control | | No |
| Front tires | | DUNLOP |
| - Size | | 12-18 12PR T86 TUBELESS |
| - Pressure | bar | 4.2 |
| Rear tires | | DUNLOP |
| - Size | | 12-18 12PR T86 TUBELESS |
| - Pressure | bar | 4.2 |
| | | |

| ELECTRIC CIRCUIT | | |
|------------------|----------|--------------------------|
| Pattan | Standard | 12 V - 110 Ah - 750 A EN |
| Dattery | Option | 12 V - 110 Ah - 900 A EN |
| Alternator | | 12 V – 80 A |
| - Type | | A5TA59 77C |
| Starter | | 12 V – 3 kW |
| - Type | | M008T50672 |

| SOUND AND VIBRATION | | | |
|----------------------------------------------------------------------|--------|------------------------------------------------|--|
| Sound pressure level in the driver's cab LpA | | 76 (cab closed) | |
| (according to standard NF EN 12053) | UD(A) | | |
| Sound pressure (according to directive 2009/76) | dB(A) | (cab closed); (cab open) | |
| Sound pressure level ensured in the LwA environment | | 104 (measured); 104 (guaranteed) | |
| (according to directive 2000/14/EC modified by directive 2005/88/EC) | UD(A) | | |
| Sound level in motion (according to directive 2009/63) | dB(A) | | |
| Average weighted acceleration on driver's body | m/c) | | |
| (according to standard NF EN 13059) | 111/52 | | |
| The average weighted acceleration transmitted to the driver's hand/ | 2 | < 2.5 | |
| arm system (according to ISO 5349-2) | 111/52 | < 2,5 | |
| Standard seat vibration | m/s2 | (lightweight operator); (heavyweight operator) | |

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| BRAKE CIRCUIT | | | |
|--------------------------------------------------------------------------|-----------------------------|-------------------|------------------|
| Service brake | | Non-servo hy | draulic brake |
| - Type of brake | | Oil-immersed m | nulti-disc brake |
| - Type of control | | By foot on | front axle |
| Parking brake | | Low pressure h | ydraulic brake |
| - Type of brake | Oil-immersed m | nulti-disc brake | |
| - Type of control | Switch-operated e | electro-nydraulic | |
| HYDRAULIC CIRCUIT | | | |
| Hydraulic pump | | | |
| - Type | | Double ge | ear pump |
| | | 1st casing | 2nd casing |
| - Capacity | cm3 | 31 | 11 |
| - Max. rating capacity unladen | <u>l/mn</u> | 86 | 31 |
| Flow rate at 1000 rpm | 1/mn | 49 | ١٥ |
| - Return | um | 10 | 10 |
| - Suction | um | 125 | 125 |
| Maximum service pressure | bar | 23 | 5 |
| - Telescoping circuit | bar | 235 / | 235 |
| - Lifting circuit | bar | 235 / | 235 |
| - Tilting circuit | bar | 245 / | 245 |
| - Attachment circuit | bar | 23 | 5 |
| - Steering circuit | bar | 14 | .0 |
| | | | |
| Longitudinal stability limiter and warning device | | Flectr | ronic |
| Lifting motions (boom retracted) | | | |
| - Unladen lifting | s - m/mn | 7.3 - | 32,1 |
| - Laden lifting | s - m/mn | 7.45 - | 31,4 |
| - Unladen lowering | s - m/mn | 4.95 - | 47,3 |
| - Laden lowering | s - m/mn | 5 - 4 | 6,8 |
| lelescoping motions (boom raised) | | F0 | 24.0 |
| - Unladen extending | <u>s - m/mn</u> | 5.2 | 24,8 |
| - Laden extending | $\frac{s - m/mn}{s - m/mn}$ | 5.5 - | 20,3 |
| - Under retracting | $\frac{s - m/mn}{s - m/mn}$ | 3.7 - | - 35 |
| Tilting movements | 3 - 111/1111 | 5.75 | |
| - Unladen digging | s - °/s | 3.2 - | 40.1 |
| - Forward tilting unladen | s - °/s | 3.2 - | 40,1 |
| | | · | |
| SPECIFICATIONS AND WEIGHTS | | | |
| Speed of movement for lift truck in standard configuration on flat | | | |
| ground | 1 4 | | • |
| Front unladen 1 slow | km/h | /. | 0 |
| Poar unladon 1 clow | <u>km/n</u> | 24 | .8 0 |
| • hear uniladem i slow | $\frac{km/h}{km}$ | 7. | 8 8 |
| Standard attachment | KIII/II | PFB 25 N | .0 MT 1020 |
| - Weight of attachment (without forks) | ka | 80 |) |
| - Weight of forks (each) | kg | 76 | 6 |
| Rated capacity with standard attachment | kg | 250 | 00 |
| Tipping load at maximum reach on tires | kg | - | |
| Distance from the center of gravity of the load to the heel of the forks | mm | 50 | 0 |
| Standard lifting height | mm | 590 | 00 |
| Weight of lift truck with standard attachment | кд | 4/0 | JU |
| | ka | 403 | 22 |
| - At rated load | ka | 74 | 32 |
| Weight per axle with standard attachment (transport position) | | | - |
| - Front unladen | kg | 229 | 95 |
| - Rear unladen | kg | 263 | 30 |
| - Front rated load | kg | 657 | 72 |
| - Rear rated load | kg | 86 | 0 |
| Weight per axle with standard attachment (boom extended) | 1 | | 50 |
| - Front rated load | Kg | 515 | 02 |
| - nedi idleu iodu Drag strain on the coupling book | ку | 58 | U |
| - Unladen (sliding) | daN | 27/ | 40 |
| - At rated load (transmission setting) | daN | 32- | 40 |
| Breakout force with bucket (according to ISO 8313) | daN | 420 | 05 |

TIRES

| | | PRESSURE | TYRE LOAD (kg) | | | |
|----------|--------------------------------------|----------|----------------------------------------------------------------|------|------|--------------------|
| | | (bar) | FRONT UNLADEN FRONT LADEN REAR UNLADEN REAR LADEN | | | |
| DUNLOP | 12.0-18 12PR T86 Stabilarge TUBELESS | 4,2 | | | | |
| GOODYEAR | 12.5/80-18 SGI 14PR 134A6 TUBELESS | 4,9 | | | 1200 | 400 |
| MICHELIN | 280/80R20 133A8 133B XMCL | | 1200 | 3300 | 1300 | 400 |
| MICHELIN | TUBELESS | 4,4 | | | | |
| | | | | | | |
| | | PRESSURE | RE LOAD PRESSURE ON THE CONTACT SURFACE AREA OF THE CONTACT SU | | | HE CONTACT SURFACE |

| | | (bar) | (ka) | (kg/cm2) | | (cm2) | |
|----------|---------------------------------------|-------|------|-----------|------------|-----------|------------|
| | | (Ddr) | (Kg) | HARD SOIL | LOOSE SOIL | HARD SOIL | LOOSE SOIL |
| | | 4,2 | 400 | 5,79 | 1,88 | 69 | 214 |
| | 12.0-18 12PR T86 Stabilarge TUBELESS | | 1200 | 7,79 | 2,50 | 154 | 480 |
| DUNLOP | | | 1300 | 8,13 | 2,60 | 160 | 500 |
| | | | 3300 | 11,05 | 3,80 | 299 | 869 |
| GOODYEAR | 12.5/80-18 SGI 14PR 134A6 TUBELESS | 4,9 | 400 | 11,76 | 3,17 | 34 | 126 |
| | | | 1200 | 11,76 | 3,18 | 102 | 377 |
| | | | 1300 | 11,82 | 3,19 | 110 | 408 |
| | | | 3300 | 11,79 | 3,19 | 280 | 1036 |
| | 280/80R20 133A8 133B XMCL TUBELESS | 4,4 | 400 | 4,35 | 0,45 | 92 | 882 |
| MICHELIN | | | 1200 | 7,02 | 1,04 | 171 | 1157 |
| | | | 1300 | 7,30 | 1,09 | 178 | 1191 |
| | | | 3300 | 10.96 | 1 76 | 301 | 1877 |

DIMENSIONS AND LOAD CHART

| Α | mm | 1200 | | | | |
|----|----|--------|--|--|--|--|
| В | mm | 2300 | | | | |
| С | mm | 991 | | | | |
| C1 | mm | 928 | | | | |
| D | mm | 3894 | | | | |
| D1 | mm | 3831 | | | | |
| D2 | mm | 3275 | | | | |
| E | mm | 5094 | | | | |
| F | mm | 1492 | | | | |
| F1 | mm | 1492 | | | | |
| G | mm | 240 | | | | |
| G1 | mm | 330 | | | | |
| G2 | mm | 253 | | | | |
| G3 | mm | - | | | | |
| Н | 0 | - | | | | |
| H1 | 0 | - | | | | |
| I | mm | 603 | | | | |
| J | mm | 797 | | | | |
| Κ | mm | 1015 | | | | |
| L | mm | 45 | | | | |
| Ν | mm | 1314 | | | | |
| 0 | mm | 125 | | | | |
| P2 | 0 | 37 | | | | |
| P3 | 0 | 52 | | | | |
| R | mm | 3150 | | | | |
| S | mm | 6651,5 | | | | |
| Т | mm | 3935 | | | | |
| U1 | mm | 1920 | | | | |
| U2 | mm | 2054 | | | | |
| V | mm | 4700 | | | | |
| V1 | mm | 765 | | | | |
| V2 | mm | 3310,5 | | | | |
| W | mm | 1813 | | | | |
| W1 | mm | - | | | | |
| W2 | mm | - | | | | |
| W3 | mm | - | | | | |
| Υ | 0 | 12 | | | | |
| Ζ | 0 | 117 | | | | |









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VISIBILITY

Our lift trucks conform to European standard EN15830 with regard to operator visibility.

- Follow the instructions for optimizing operator visibility of the immediate vicinity (see: 1 - OPERATING AND SAFETY INSTRUCTIONS: INSTRUCTIONS TO THE OPERATOR: DRIVING INSTRUCTIONS UNLADEN AND LADEN: D - VISIBILITY).

DESCRIPTION AND ADJUSTMENT OF REAR-VIEW MIRRORS

- 1 LEFT REAR-VIEW MIRROR
- 2 MAIN RIGHT REAR-VIEW MIRROR
- 3 CENTRAL RIGHT REAR-VIEW MIRROR
- 4 UPPER RIGHT REAR-VIEW MIRROR
- 5 REAR REAR-VIEW MIRROR
- Place the lift truck on level ground with the engine stopped, and the boom retracted and lowered as far as possible.
- Note the position of the reference points •••• in the illustrations, to see and correctly adjust the rear-view mirrors.





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DIRECT AND/OR INDIRECT VISIBILITY BLIND SPOT ZONES

In accordance with EN15830, the two diagrams indicate blind spot zones on the visibility test circle (r 12m) and the 1 m rectangular zone around the lift truck.



LOADING THE TRAILER



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INSTRUMENTS AND CONTROLS





















DESCRIPTION

| 1 - DRIVER'S SEAT |
|-------------------------------------------------------|
| 2 - SEAT BELT |
| 3 - IGNITION SWITCH |
| 4 - EMERGENCY STOP BUTTON |
| 5 - BATTERY CUT-OFF |
| 6 - MAN-MACHINE INTERFACE (MMI) |
| 7 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE |
| 8 - SWITCHES |
| |

- 9 ARMREST AND STORAGE
- 10 FUSES AND RELAYS IN THE CAB
- 11 FUSES AND RELAYS UNDER THE ENGINE BONNET

- **12 CIGARETTE LIGHTER**
- 13 LIGHTING, HORN AND INDICATOR LIGHT SWITCH
- 14 FRONT AND REAR WINDSCREEN WIPER SWITCH
- **15 FUNCTION FILES**
- **16 HYDRAULIC CONTROLS**
- **17 ACCELERATOR PEDAL**
- 18 SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF
- **19 FORWARD/NEUTRAL/REVERSE GEAR SELECTION**
- 20 STEERING SELECTION
- 21 HEATER CONTROL
- 22 AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION)
- 23 HEATING VENTS
- 24 WINDSCREEN DEMISTER VENTS
- 25 LEVEL INDICATOR
- 26 DOOR LOCK
- 27 DOOR WINDOW OPENING HANDLE
- 28 DOOR WINDOW RELEASE BUTTON
- 29 HANDLE FOR REAR WINDOW OPENING
- **30 DOCUMENT HOLDER NET**
- 31 REAR STORAGE SPACE
- 32 STEERING WHEEL ADJUSTMENT LEVER
- 33 FRONT HEADLIGHTS (NOT ILLUSTRATED)
- 34 REAR LIGHTS (NOT ILLUSTRATED)
- 35 ROTATING BEACON LIGHT (OPTION)
- 36 CEILING LIGHT
- 37 ROOF WINDSCREEN WIPER SWITCH
- 38 SUN VISOR
- **39 DIAGNOSTIC PLUG**
- 40 BOOM SAFETY WEDGE
- NOTE: All the terms such as: RIGHT, LEFT, FRONT, REAR are as seen by an observer seated on driver's seat and looking straight ahead.

1 - DRIVER'S SEAT

DRIVER'S SEAT (STANDARD)

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

WEIGHT ADJUSTMENT

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

- Pull the weight adjustment lever 1 fully out.
- Move the weight adjustment lever 1 up to increase the weight or down to reduce it.
- There are ten possible positions between the min and max weights. Before each run, return the lever to the central position. The max. or min. position is indicated by a freely traveling lever.
- The driver's weight is correctly adjusted when the arrow is in the center of indicator 2.
- After completing weight adjustment, fully lower the lever 1.
- NOTE: To avoid any health problems, it is recommended that the weight should be checked and adjusted before starting up the lift truck.

LONGITUDINAL ADJUSTMENT

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

🛦 IMPORTANT 🛦

Only operate the lever by its recessed section and do not grasp from below, at the risk of crushing the hand.

LUMBAR ADJUSTMENT

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

- Turn knob to 1 to adjust the height and depth of the lumbar support of the upper part of the back-rest.
- Turn knob to 2 to adjust the height and depth of the lumbar support of the lower part of the back-rest.

BACK-REST ANGLE ADJUSTMENT

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

A IMPORTANT A

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

MAINTENANCE

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

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

A IMPORTANT A

A rocking back-rest increases the risk of an accident!

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









OPTIONAL DRIVER'S SEAT

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

WEIGHT AND SEAT HEIGHT ADJUSTMENT (FIG. A)

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

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

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

A IMPORTANT A

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

LONGITUDINAL ADJUSTMENT

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

A IMPORTANT A

Only operate the lever by its recessed section and do not grasp from below, at the risk of crushing the hand.

LUMBAR ADJUSTMENT

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

- Turn knob to 1 to adjust the height and depth of the lumbar support of the upper part of the back-rest.
- Turn knob to 2 to adjust the height and depth of the lumbar support of the lower part of the back-rest.

BACK-REST ANGLE ADJUSTMENT

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



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

MAINTENANCE

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

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

A IMPORTANT **A**

A rocking back-rest increases the risk of an accident!

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









2 - SEAT BELT

A IMPORTANT A

2 4

*** 2** (

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

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

3 - IGNITION SWITCH

The ignition switch has five positions:

- P Not used.
- O Ignition switched off and engine stopped.

A BL 🚆 🔊 🐝 🚧

- I Ignition + preheat.
- II Not used.
- III The engine starts and returns to position I as soon as the key is released.

4 - EMERGENCY STOP BUTTON

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

A IMPORTANT A

Warning, hydraulic movements suddenly stop when using this button. If possible, stop the lift truck before using the emergency stop button.

- Turn the knob to deactivate it before restarting the lift truck.



5 - BATTERY CUT-OFF

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



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



6 - MAN-MACHINE INTERFACE (MMI)

• 6A - CONTROL PANEL • 6B - SCREEN DISPLAY

6A - CONTROL PANEL

A IMPORTANT A

A permanently lit or flashing warning lamp, with the engine running, is the sign of an operating fault. The lighting of some lamps may be accompanied by an audible signal. Do not ignore this warning, consult your dealer without delay. If one of the warning lamps comes on while the lift truck is in motion, stop the lift truck under the safest possible conditions.

RPM x1000 REV COUNTER

10 level LED display from 0 to 3000 rpm.



ENGINE WATER TEMPERATURE

Temperature zones:

- 1 LED (< 40 °C) zone. Use the lift truck with moderation, wait for temperature to increase before normal operation.
- 2 LEDs (40 °C 60 °C) zone.
- 3 LEDs (60 °C 80 °C) zone.
- 4 LEDs (80 °C 85 °C) zone.
- 5 LEDs (85 °C 90 °C) zone.
- 6 LEDs (90 °C 95 °C) zone from 40 °C to 95 °C use the lift truck normally.
- 7 LEDs (95 °C 105 °C) zone. Use the lift truck with moderation.
- 8 LEDs (105 °C 110 °C) zone. Use the lift truck with moderation, ventilation control operating at full speed.
- 9 LEDs Red zone (110 °C 115 °C).
- 10 LEDs Red zone (> 115 °C) Stop the lift truck, seek the cause of overheating.
- NOTE: If the red indicator lamp and the buzzer come on (> 110 °C) when the lift truck is running, stop the engine immediately and seek the cause of the failure in the cooling system.

FUEL LEVEL

When only one LED remains displayed, the orange indicator lamp comes on, indicating that you using the reserve fuel supply and that your operating time is limited.



FORWARD/NEUTRAL/REVERSE INDICATOR

See: 2 - DESCRIPTION: 19 - FORWARD/NEUTRAL/REVERSE GEAR SELECTION.

The lamp and buzzer come on when the air filter cartridge is clogged up. When this lamp comes on, the cartridge needs changing. Stop the lift truck and carry out the necessary repairs (see cleaning and replacement intervals in chapter: 3 - MAINTENANCE: SERVICING SCHEDULE).

ORANGE HYDRAULIC OIL FILTER CLOGGING WARNING INDICATOR LAMP

The lamp and buzzer come on when the air filter cartridge or the hydraulic return oil filter cartridge is clogged up. Stop the lift truck and carry out the necessary repairs (see cleaning and replacement requirements in chapter: 3 - MAINTENANCE: FILTERS CARTRIDGES AND BELTS).

RED GENERAL FAULT WARNING INDICATOR LAMP

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



ORANGE TRANSMISSION OIL TEMPERATURE WARNING INDICATOR LAMP

The lamp and the buzzer come on when the transmission oil temperature is abnormally high. Stop the lift truck and seek the cause of this overheating.

ORANGE ENGINE WARNING INDICATOR LAMP

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 without delay.

📄 ORANGE FUEL LEVEL INDICATOR LAMP (see: 🗖 FUEL LEVEL)

E RED BATTERY CHARGE INDICATOR LAMP

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

AUTOMATIC EXHAUST PARTICLE FILTER REGENERATION DISABLED INDICATOR LAMP

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

HIGH EXHAUST GAS TEMPERATURE INDICATOR LAMP

If the indicator lamp comes on while the lift truck is running, it indicates high exhaust gas temperature.

SOOT LEVEL INDICATOR LAMP

The indicator lamp comes on while the lift truck is running to indicate the soot level.

STATIONARY LIFT TRUCK EXHAUST PARTICLE FILTER REGENERATION INDICATOR LAMP

The indicator lamp comes on while the lift truck is running to indicate that "stationary lift truck" exhaust particle filter regeneration is in progress.

RED ENGINE OIL PRESSURE WARNING INDICATOR LAMP

If the lamp and the buzzer come on when the lift truck is running, stop the engine immediately and seek the cause (see oil level in engine crankcase).



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(P) RED PARKING BRAKE INDICATOR LAMP

This lamp comes on when the parking brake is applied (see: 2 - DESCRIPTION: 8 - SWITCHES).

(RED BRAKE FLUID LEVEL INDICATOR LAMP

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

ORANGE ENGINE PREHEATING INDICATOR LAMP

If preheating is required, the lamp comes on when the lift truck's ignition is switched on and should go out as soon as preheating is ended. If this lamp comes on while the lift truck is in operation, immediately stop the engine and seek the cause.

WATER IN FUEL INDICATOR LAMP

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

When the green indicator lamp is lit, the platform is ready for use (see: 2 - DESCRIPTION: DESCRIPTION AND OPERATION OF THE PLATFORM).

$\overleftarrow{\Box}$ $\overrightarrow{\Box}$ indicator lights indicator lamp

FRONT WHEEL ALIGNMENT INDICATOR LAMP

REAR WHEEL ALIGNMENT LAMP

FAST GEAR INDICATOR LAMP

- SLOW GEAR INDICATOR LAMP
- **BLUE MAIN BEAM INDICATOR LAMP**

6B - SCREEN DISPLAY



✓ ▲ ^{miles mph} rpm km/h LOWER SCREEN DISPLAY



SCROLL BUTTON



VALIDATION, RESET AND ERROR CODE BUTTON

UPPER SCREEN DISPLAY

Switch on the lift truck ignition, by default, the screen will show the time. Press the scroll button to switch from one screen to the other in turn.

| | | ► -888 | mph | | - 8888 ⁱⁿ - | |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------|--------------------------------------|------------------|
| Clock (see adjustment). | Rev counter. | Attachment circuit hydraulic flow rate (see: 16 - HYDRAULIC FLOW RATE). | Lift truck speed (see your dealer for adjustment). | Partial hour meter (see resetting). | Instantaneous consumption. | |
| SETTING THE TIME | | | | | | |
| - Display clock scree | n. | | | | - | |
| - Press the button 🏴 | for 2 seconds, ch | oose the "24 hour" o | r "12 hour am/pm" | clock with the button | and confirm | ו 🚩. |
| - Set the hours with | the button 📥 an | d confirm 🚩. | | | | |
| - Set the minutes wi | th the button 📥 | and confirm 🚩. | | | | |
| RESETTING THE PARTI - Display the partial | AL HOUR METER hour meter screen. | | | | | |
| - Press the button | for two seconds | s, resetting is confirm | ned by a beep. | | | |
| LOWER SCREEN DISPL Switch on the lift truck i the lift truck has been records the hours of op | AY gnition, by default, used. As soon as th eration. | , the screen will sho ne engine is running | w the hour meter g, the flashing pict | , i.e. the cogram A is displayed | total number of d and the hour | hours meter |
| MAINTENANCE INTERV | AL | | | | | |
| NOTE: When the nev the engine oi | v lift truck is started, I and the oil filter af | , the maintenance ke ter the first 50 hours | ey \checkmark will logically b s of operation (see: | e displayed to provide 3 - MAINTENANCE: S | e a reminder to re ERVICING SCHEI | eplace OULE). |
| The maintenance key 🖊 generates an audible be | c appears on the h eep. | nour meter screen | 50 hc | ours before the main | enance deadlin | e and |
| - Press the button exceeded, the hou | to display the tin | me remaining befor a plus sign. | e maintenance | - 5 0 h. In the eve | nt that the dead | lline is |
| - }Press once more on - Contact your deale | the button 🚩 to re er to carry out the n | eturn to the hour met ecessary maintenar | er screen. The mainten ce operations and | enance key 🗡 will be di reset the maintenan | splayed for inforn ce interval. | nation. |
| NOTE: The frequency interval displayed by default is 500 hours, this interval can be modified. Please contract your dealer. | | | | | lealer. | |

ERROR CODES



The appearance of the pictogram (on the hour meter screen to be been been been and the sounding of an audible been, indicate that an fault has been detected by one of the lift truck's Electronic Control Units (ECU).

- Press the button V to display the information on the upper screen, as well as the error code
- If there are several error codes, press the button 🔺 to scroll through all the error codes.
- Press the button 🕅 again to return to the hour meter screen, the pictogram 🛆 will remain displayed as long the as the required repairs have not been carried out.
- Contact your dealer, stating the error code or codes.
- NOTE: A faulty fuse can generate several error codes. When "error codes" and "maintenance interval" are displayed together, the maintenance reminder time will appear at the end of the list.

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7 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE

A IMPORTANT A

The operator must respect the lift truck's load chart, and the operating mode according to the attachment.

This device warns the operator of the lift truck's longitudinal stability limits. However, lateral stability can reduce the load chart in the upper part, and this reduction is not detected by the device.

Depending on the type of work required, the longitudinal stability limiter and warning device allows the operator to operate the lift truck in complete safety.

UPDATED: In order to gain maximum advantage from the longitudinal stability limiter and warning device of your lift truck, contact your dealer to receive the most recent available version of the software.



HANDLING" MODE (use with forks)

- By default, the device is in "HANDLING" MODE when the lift truck is started-up, except if "BUCKET" MODE has been selected before switching off the ignition.



"BUCKET" MODE (use with bucket)

"SUSPENDED LOAD" MODE (use with hoist) (offering a higher

- Place the lift truck in the transport position.
- Hold down the button, "BUCKET" MODE is confirmed by an audible beep and the lighting of the indicator lamp.
 Press this button again to return to "HANDLING" MODE.
- NOTE: "BUCKET" MODE remains enabled as long as the mode is not changed by the operator, even after switching off the ignition.



- Place the lift truck in the transport position.
- Hold down the button, the "SUSPENDED LOAD" MODE is confirmed by a beep and the lighting of the indicator lamp. Hydraulic inclination movements are neutralised, as well as the lifting movement when the longitudinal limit is reached (indicator lamp A8 lit).

margin of error)

- Press this button again or switch off the ignition with the ignition key to return to "HANDLING" MODE.

A - VISUAL ALARMS

- A1 A2 A3: There is a significant reserve of longitudinal stability.
- A4 A5: The lift truck is approaching the limit of longitudinal stability, move with care.
- A6: The lift truck is close to the limit for longitudinal stability. Drive carefully.
- A7: The lift truck is very close to the limit of longitudinal stability. Maneuver with extreme caution.
- A8: The lift truck is at the authorised limit of longitudinal stability.

The warning indicator lamp \clubsuit and a beep indicate a fault.

- To view this error code (see: 2 - DESCRIPTION: 3B - SCREEN DISPLAY).



B - HYDRAULIC MOVEMENT CUT-OFF

NOTE: Cut-off may be preceded by an automatic slowing of hydraulic movement.

"HANDLING" MODE

• A8: All "AGGRAVATING" hydraulic movements are cut-off. Only perform de-aggravating hydraulic movements in the following order: retract and raise the boom.

"BUCKET" MODE

A8: The boom lowering and extension movements are cut-off, the other movements remain available.

"SUSPENDED LOAD" MODE

• A8: All "AGGRAVATING" and boom raising hydraulic movements are cut-off. Only the boom retraction hydraulic movement is available.

C - HYDRAULIC MOVEMENT CUT-OFF CONFIGURATION

A IMPORTANT A

The cut-off of "AGGRAVATING" hydraulic movements has two possible configurations. Consult your dealer to change this configuration.

Your configuration can be identified simply by driving. If indicator lamp C1 is off, configuration 1 is enabled, indicator lamp C1 is lit, configuration 2 is enabled.

| CONFIGURATION 1 | HALTED | SLOW SPEED | SPEED | TELESCOPE(S) IN | |
|------------------|--------------------------------------------|--------------------------|-----------------|--------------------------------------|--|
| | | 1 to 3 km/h | > 3 km/h | RETRACTED POSITION | |
| | A4-A5: Very slow intermittent sound alarm. | | | | |
| "HANDLING" MODE | A6: Slow intermittent sound alarm. | | No sound alarm. | No sound alarm. | |
| | A7: Fast intermittent sound alarm. | | | | |
| | A8: Very fast intermittent sound alarm. | | | | |
| "BUCKET" MODE | A6: A beep upon passing into the red zone. | | ne. | hydraulic movement | |
| | A4-A5: Very slow inter | itermittent sound alarm. | | cut-off function is disconnected. | |
| "SUSPENDED LOAD" | A6: Slow intermittent sound alarm. | | No sound alarm. | | |
| MODE | A7: Fast intermittent sound alarm. | | | | |
| | A8: Very fast intermittent sound alarm. | | | | |

| CONFIGURATION 2 | HALTED | SLOW SPEED 1 to 5 km/h | SPEED > 5 km/h | TELESCOPE(S) RETRACTED | |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|
| "HANDLING" MODE | A4-A5: Very slow intermittent sound alarm. A6: Slow intermittent sound alarm. A7: Fast intermittent sound alarm. A8: Very fast intermittent sound alarm. | A7: Fast intermittent sound alarm. A8: Very fast intermittent sound alarm. When indicator lamp C1 is lit, the "AGGRAVATING" hydraulic movement cut-off function is disconnected. | No sound alarm. When indicator lamp C1 is lit, the "AGGRAVATING" hydraulic movement cut-off function is disconnected. | No sound alarm. When indicator lamp C1 is lit, the "AGGRAVATING" hydraulic movement cut-off function is disconnected. | |
| "BUCKET" MODE | A6: A beep upon passing into the red zone. | A6: A beep upon passing into the red zone. When indicator lamp C1 is lit, the "AGGRAVATING" hydraulic movement cut-off function is disconnected. | No sound alarm. When indicator lamp C1 is lit, the "AGGRAVATING" hydraulic movement cut-off function is disconnected. | | |
| "SUSPENDED LOAD" MODE | A4-A5: Very slow intermittent sound alarm. A6: Slow intermittent sound alarm. A7: Fast intermittent sound alarm. A8: Very fast intermittent sound alarm. | | | | |

D - DISABLING "AGGRAVATING" HYDRAULIC MOVEMENT CUT-OFF

A IMPORTANT A

Remain very vigilant during this operation. The only information available to the operator is the lift truck's dynamic stability.



In certain cases, in order to get out of a difficult situation, the operator can bypass this safety system. Button D temporarily disables the cutting-off of "AGGRAVATING" hydraulic movements.

- Hold down button D (indicator lamps C1 and D1 lamp will light (60 second time delay)), and at the same time perform the necessary "AGGRAVATING" hydraulic movement with extreme care.

E - TESTING OF THE LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE

Short press the button to verify at any time that the longitudinal stability alarm is working.
Correct operation: All the LEDs A1 to A8 light for two seconds and an audible beep is sounded.

NOTE: This test does not check the proper adjustment of the longitudinal stability limiter that must be inspected daily or after every 10 hours of service (see: 3 - MAINTENANCE: A - DAILY OR EVERY 10 HOURS SERVICE).

F - STRAIN GAUGE

A IMPORTANT A

Disassembly or calibration of the strain gage is prohibited, this must only be done by specially trained personnel, consult your dealer.



8 - SWITCHES

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

A - WARNING LIGHTS

- **B REAR FOG LIGHTS**
- **C REVOLVING LIGHT**
- D FRONT AND REAR WORKING LIGHTS TELESCOPE HEAD WORKING LIGHT OPTION
- **E BLUE HEADLIGHTS OPTION**
- **F REAR WINDOW DEFROSTER OPTION**

G - NEUTRALIZATION OF HYDRAULIC MOVEMENTS

When driving on the road, it is strongly recommended (mandatory in Germany) that you cut-off all the hydraulic movements. The indicator lamp shows when it is in use.

H - EXHAUST PARTICLE FILTER REGENERATION

- H1: DISABLE AUTOMATIC REGENERATION
- H2: "STATIONARY LIFT TRUCK" REGENERATION (see: 3 MAINTENANCE: H1 "STATIONARY LIFT TRUCK" EXHAUST
 PARTICLE FILTER)

H1: DISABLE AUTOMATIC REGENERATION

A IMPORTANT A

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

By default, exhaust particle filter automatic regeneration is enabled each time the lift truck is started.

- To disable automatic regeneration of the exhaust particle filter, hold down the bottom of the switch. The indicator lamp comes on and an audible beep confirms that it has been disabled.
- To re-enable automatic regeneration of the exhaust particle filter, hold down the bottom of the switch again. The indicator lamp goes out to confirm that it has been re-enabled.

| MANAGEMENT OF EXHAUST PARTICLE FILTER REGENERATION | | | |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--|--|
| INSTRUCTIONS | ACTIONS | | |
| < 1 short beep. Moderate soot level. | Indicator lamp =====3; comes on. NOTE: Preferably wait until automatic regeneration is completed before switching off the ignition. | | |
| $\overline{3} + \overline{3} + 1$ short beep. Moderate soot level, automatic regeneration disabled. | Enable automatic regeneration at the earliest possible time. | | |
| <13 + 16 + continuous beep. High soot level. | Engine speed limited to 1200 rpm, only "stationary lift truck" regeneration must be performed | | |
| $=$ 3^{+} + 3^{+} + 1^{+} + continuous beep. High soot level, automatic regeneration disabled. | (see: 3 - MAINTENANCE: OCCASIONAL MAINTENANCE). | | |
| $\overline{3} + 1$ short beep. Very high soot level, particle filter clogged. | Reduced lift truck efficiency, shut down the lift truck and contact your dealer. | | |

I - PARKING BRAKE

To connect the parking brake, press the bottom of the switch. The indicator lamp shows when it is in use. To disconnect the parking brake, press the top of the switch.



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J - DISABLING THE "AGGRAVATING" HYDRAULIC MOVEMENT CUT-OFF

See: 2 - DESCRIPTION: 7 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE.

K - OPTION ELECTRICAL JIB PROVISION

See: 2 - DESCRIPTION: DESCRIPTION AND USE OF THE OPTIONS.

L - TELESCOPE SUSPENSION OPTION

See: 2 - DESCRIPTION: DESCRIPTION AND USE OF THE OPTIONS.

M - ATTACHMENT HYDRAULIC CONTROL FORCED OPERATION OPTION See: 2 - DESCRIPTION: DESCRIPTION AND USE OF THE OPTIONS.

See. 2 Deschir Hold, Deschir Hold And Ose of The of the

N - ATTACHMENT HYDRAULIC LOCKING OPTION

OR

TELESCOPE HEAD ELECTROVALVE OPTION

OR

TELESCOPE HEAD ELECTROVALVE + ATTACHMENT HYDRAULIC LOCKING OPTION

See: 2 - DESCRIPTION: DESCRIPTION AND USE OF THE OPTIONS.

O - REVERSIBLE VENTILATION CONTROL OPTION

The system cleans the radiator core and the grille of the engine cover by reversing the air flow.

- Position A: The indicator lamp is on, the fan's rotation is reversed for a few seconds every 3 minutes.
- Position B: The indicator light is off, the fan is in normal operating mode.

A IMPORTANT A

When in use, beware of the risk of projection into the eyes.

9 - ARMREST AND STORAGE

- Lift the armrest 1 to access the storage.





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10 - FUSES AND RELAYS IN THE CAB

A fuse function file and a relay function file give a quick indication of the use of the panel's components described below.

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

MINIFUSE

- F1 Control instrument module (5A).
- F2 Water in fuel sensor (5A). Alternator excitation (5A). Longitudinal stability limiter and warning device (5A). ECM wake-up (5A).
- F3 Diagnostic socket (5A).
- Anti-theft predisposition(5A).
 F4 Transmission electronic control unit (10A). Seat switch (10A). Telescoping movements and attachment control (10A). Particle filter regeneration switch (10A). Negative parking brake electrovalve (10A). Hydraulic movement cut-off (10A).
- F5 12V connector (15A). OPTION Car radio (15A).
- F6 Driver presence on seat (10A).
- Boom retraction and angle sensors (10A).
- F7 Hydraulic electronic control unit power supply (10A).
- F8 Disable aggravating hydraulic movement cut-off (5A). OPTION Telescope head electrovalve (7,5A).
 OPTION Telescope head electrovalve + attachment hydraulic locking (7,5A).
- F9 Stoplight relay power supply (10A). Reversing light relay power supply (10A). OPTION Reverse buzzer alarm relay supply (10A).
- F10 Wheel alignment (2A).
- F11 Flashing unit (15A).
- F12 Rear fog lights (5A).
- F13 OPTION Telescope working lights (15A).
- F14 Rotating beacon light (7,5A).
- F15 OPTION Rear window defrosting (10A).
- F16 OPTION Boom suspension (7,5A).
- F17 Rear windscreen wiper and washer + Roof windscreen wiper (15A).
- F18 Front windscreen wiper and windscreen washer (15A).
- F19 Power supply F27-F28-F29-F30 (30A).
- F20 Heating (20A).
- F21 Left sidelights (3A).
- F22 Right sidelight (3A).
- F23 Low beam (15A).
- F24 Main beam (15A).
- F25 Right indicator lights (7,5A).
- F26 Left indicator lights (7,5A).
- F27 OPTION Boom foot electrical predisposition (10A).
- F28 OPTION Fan control (10A).
- F29 OPTION Pneumatic seat (10A).
- F30 Front and rear working lights (20A).
- OPTION Blue lights (25A).
- F31 Lighting, horn and indicator switch (20A).
- F32 Hazard warning lights (15A).
- F33 Diagnostic socket (+) permanent (5A).
- Anti-theft pre-disposition (+) permanent (5A). • F34 - Horn (7,5A).
 - Ceiling light (7,5A).
- F35 OPTION Car radio (+) permanent (10A).
- F36 Hydraulic electronic control unit power supply (3A).
- F37 Rear windscreen wiper (+) permanent (10A).
- F38 Front windscreen wiper (+) permanent (15A).
- F39 OPTION Air conditioning compressor relay power supply (7,5A).
- F40 OPTION Air conditioning fan motor relay power supply (20A).





- F61 Not used.
- F62 Not used.
- F63 Not used.
- F64 Not used.
- F71 Control instrument module battery (+) power supply (2A).
- F72 Battery (+) power supply (2A).
- F73 OPTION.
- F74 OPTION.

RELAYS

- K1 OPTION Telescope suspension cut-off relay.
- K2 Reversing light relay.
 - OPTION Reversing sound alarm relay.
- K3 Stoplight relay.
- K4 OPTION Telescope working light relay.
- K5 OPTION Air conditioning fan motor relay.
- K6 OPTION Air conditioning compressor relay.
- K7 OPTION.
- K8 Flashing unit.
- K9 OPTION.
- K10 OPTION Air conditioning relay.

11 - FUSES AND RELAYS UNDER THE ENGINE BONNET

- Open engine bonnet 1 in order to gain access to the fuses and relays. Replace a used fuse with a new fuse of the same quality and capacity. Never reuse a repaired fuse.

RELAYS

- K20 Engine preheating relay.
- K21 Engine computer power relay.
- K22 Starter control relay.

MAXIFUSE

- F41 Engine computer power supply relay (20A).
- F42 Ignition switch (60A).
- F43 Alternator (80A).
- F44 Power supply for fuses in the cab (50A).
- F45 Starting relay power supply (30A).
- F46 Engine pre-heating (40A).
 - OPTION fuel decongealant (40A).

MINIFUSE

- F51 Air flow sensor + engine EGR valve power supply (5A).
- F52 Dashboard power supply (3A).
- F53 Starter relay K22 control + engine computer data (5A).
- F54 Water in fuel sensor power supply (5A).
- F55 Engine computer control power supply (5A).







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12 - CIGARETTE LIGHTER

For 12V appliance and max. amperage 15A.

13 - LIGHTING, HORN AND INDICATOR LIGHT SWITCH

The switch controls the visual and sound alarms.

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

Pressing the end of the switch sounds the horn.

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

14 - FRONT AND REAR WINDSCREEN WIPER SWITCH

FRONT WINDSCREEN WIPER

- A Front windscreen wiper stop.
- B Front windscreen wiper low speed.
- C Front windscreen wiper high speed.
- D Front windscreen wiper intermittent control.
- E Front windscreen washer, pulse-driven.

REAR WINDSCREEN WIPER

- F Rear windscreen wiper stop.
- G Rear windscreen wiper.
- H Rear windscreen washer, pulse-driven.

15 - FUNCTION FILES

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





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16 - HYDRAULIC CONTROLS

A IMPORTANT A

Do not attempt to alter the hydraulic system pressure. In the event of malfunction, contact your dealer. ANY ALTERATION MAY RENDER THE WARRANTY NULL AND VOID.

Operate the hydraulic controls gently and smoothly to avoid accidents caused by jerking of the lift truck.

- NOTE: When driving on the road, it is highly recommended (mandatory in Germany) that you cut-off all the hydraulic movements (see: 2 DESCRIPTION: 8 SWITCHES).
 - A Lifting and tilting control lever.
 - B Telescoping control button.
 - C Attachment control button.

LIFTING THE LOAD

- The lever A backwards when lifting.
- The lever A forwards when lowering.

TILT OF CARRIAGE

- The lever A to the left for reverse tilt.
- The lever A to the right for forward tilt.

TELESCOPING

- Button B forwards for extending.
- Button B backwards for retracting.

ATTACHMENT

- Button C forwards or backwards.

ADJUSTMENT OF ATTACHMENT HYDRAULIC FLOW RATE

- Switch on lift truck ignition.
- Select the attachment circuit hydraulic flow rate screen **–** 888

scroll button A. The screen displays, in turn, the hydraulic flow rate stored in the memory of circuit B (without "-" sign) and of circuit A (with "-" sign).

ruP888

with the

- Press the button 💟 for two seconds, the screen 🔹 will appear on the lower screen display.
- Turn button C towards the front to select a hydraulic flow rate for circuit B of between 10 % and 100 %.
- Hold button C at the desired flow rate and confirm with the button 🚩.

r dn:888

- The screen appears on the lower screen display.
- Turn button C towards the back to select a hydraulic flow rate for circuit A between -10 % and -100 %.
- Hold button C at the desired flow rate and confirm with the Mutton.

88888.8h

- The hour meter screen appears on the lower display screen, confirming that adjustment is completed.

GEAR SELECTION

Gears can be selected while driving.

Buttons 1 and 2 are used to select a gear.

- FAST GEAR: For driving on the road. Press button 1, the fast gear indicator lamp
- SLOW GEAR: For handling operations. Press button 2, the slow gear indicator lamp for comes on.









17 - ACCELERATOR PEDAL

18 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF

The pedal acts on the front wheels by means of a hydraulic brake system to slow down and stop the lift truck. During clearance travel it enables the transmission to be cut off progressively thus allowing a gradual approach (delicate handling) with all the engine power.

19 - FORWARD/NEUTRAL/REVERSE GEAR SELECTION

When operating this control, the lift truck should be traveling at slow speed and not accelerating.

FORWARD: Flip the switch forward (position A).

- REVERSE: Flip the switch backward (position B). An OPTIONAL reversing light and audible reversing alarm indicate that the lift truck is traveling in reverse.
- NEUTRAL: If indicators 🔎 💟 or 💟 🗟 are flashing, pass the forward/reverse selector back through neutral (position C).

SAFETY FOR MOVING THE LIFT TRUCK

Authorization to move the lift truck is controlled by an electronic unit. The operator must observe the following sequence to move the truck forwards or backwards:

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

To stop the lift truck, he must observe the following sequence:

- 1 set the forward/reverse selector to neutral,
- 2 engage the parking brake,
- 3 get out of the lift truck.
- If the operator leaves the driving cab with forward or reverse engaged, the screen **56**Rt **will appear and beeps will sound for two seconds.** During this time, the operator can sit back down in the seat and continue advancing or reversing. When this time is exceeded, the forward/reverse selector will switch to neutral and the indicators **1** or **1 will flash.** The operator must sit back down and pass the forward/reverse selector back through neutral.



20 - STEERING SELECTION

A - GREEN WHEEL ALIGNMENT INDICATOR LAMPS

A IMPORTANT A

Before selecting one of the three possible steering positions, bring all 4 wheels into alignment with the lift truck axis. Never change the steering mode whilst driving.

These green lamps come on to indicate the alignment of the wheels in relation to the lift truck. The A1 indicator lamp for the front wheels and the A2 indicator lamp for the rear wheels.

B - STEERING SELECTION LEVER

- B1 Front drive wheels (highway traffic).
- B2 Front and rear drive wheels in opposite direction (short steering lock).
- B3 Front and rear drive wheels in the same direction (crab steering).

CHECKING WHEEL ALIGNMENT

A IMPORTANT A

Before driving on roads, it is necessary to check the alignment of the rear wheels and to drive in front wheel steering mode.

The alignment of the rear wheels must be regularly checked done using the green indicator lamps, while driving the lift truck.

In case of anomalies, consult your dealer.

- Shift the steering selection lever B into position B2 (short steering lock).
- Turn the steering wheel and bring the rear wheels into alignment until the A2 indicator lamp comes on.
- Shift the steering selection lever B into position B1 (highway traffic).
- Turn the steering wheel and bring the front wheels into alignment until the A1 indicator lamp comes on.





21 - HEATER CONTROL

A - FAN CONTROL

This 3-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.

22 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION)

A IMPORTANT A

The air conditioning only works if the lift truck has been started up. When using your air conditioning unit you must work with the cab closed. In winter: So as to ensure correct operation and complete efficiency of the air conditioning unit, start up the compressor once a week, if only for a short spell, so as to lubricate the internal seals. In cold weather: Warm the engine before switching on the compressor, so as to allow the coolant that has collected in a liquid state at the lowest point of the compressor 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 a liquid state.

If your air conditioning does not seem to be working correctly, have it examined by your dealer (see: 3 - MAINTENANCE: F - EVERY 2000 HOURS OF SERVICE). Never attempt to repair any faults yourself.

A - FAN CONTROL

This 3-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 required 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 pilot light on.
- B At the required temperature.
- A At the desired speed: 1, 2 or 3.

DEMISTING MODE

The controls must be adjusted in the following way:

- C Control with pilot light on.
- B At the required temperature.
- A At speed 3.

For optimum effectiveness, close the heating ventilators.




23 - HEATING VENTS

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

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24 - DEMIST VENTS

These vents allow the front windscreen and side windows to be demisted. For optimum efficiency, shut off the heating vents.

25 - LEVEL INDICATOR

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



26 - DOOR LOCK

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

27 - DOOR WINDOW OPENING HANDLE

28 - DOOR WINDOW RELEASE BUTTON

29 - HANDLE FOR REAR WINDOW OPENING

EMERGENCY EXIT

Use the rear window as an emergency exit, if it is impossible to leave the cab by the door.

30 - DOCUMENT HOLDER NET

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

NOTE: An OPTIONAL waterproof document-holder exists.

<u>31 - REAR STORAGE SPACE</u>

32 - STEERING WHEEL ADJUSTMENT LEVER

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

- Pull the knob 1 backwards.
- Adjust the steering wheel to the desired position.
- Push the knob back to lock the steering wheel in position.







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www.duma-rent.com

33 - FRONT HEADLIGHTS

34 - REAR LIGHTS

- A Left front indicator.
- B Left front dipped beam headlight.
- C Left front main beam headlight.
- D Left front sidelight.
- E Right front indicator.
- F Right front dipped beam headlight.
- G Right front main beam headlight.
- H Right front sidelight.

A - Left rear indicator.
B - Left rear stoplight.
C - Left rear headlight.
D - Rear fog light.
E - Reversing light.
F - Rear right headlight.
G - Right rear stoplight.
H - Right rear indicator light.







35 - ROTATING BEACON LIGHT

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



36 - CEILING LIGHT

38 - SUN VISOR

37 - ROOF WINDSCREEN WIPER SWITCH





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39 - DIAGNOSTIC PLUG

40 - BOOM SAFETY WEDGE





TOWING PIN AND HOOK

A IMPORTANT A

Do not tow a trailer or an attachment that is not in perfect working order.

Using a trailer that is not in good condition may affect the steering and braking of the lift truck and therefore the safety of the whole unit. If a third party helps in coupling or uncoupling the trailer, this person must remain visible to the driver at all times and must wait until the lift truck has stopped, the handbrake is on and the 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 effort and maximum vertical force on the coupling point. This information is indicated on the manufacturer's plate affixed to each lift truck (see: 2 - DESCRIPTION: 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...).

1 - TOWING PIN

A IMPORTANT A

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 handbrake on and switch off the engine.
- Remove the clip 1, lift the trailer pin 2 and place or remove the trailer ring.







2 - 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.

- A Left rear indicator.
- B OPTION Rear fog lights.
- C Ground.
- D Right rear indicator.
- E Right rear headlight.
- F Rear stoplight.
- G Rear left headlight + number plate.

3 - COUPLING FITTING (OPTION)

A IMPORTANT A

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.
- Switch off the engine.
- Remove the clip 1, lift the trailer pin 2 and place or remove the trailer ring.



DESCRIPTION AND USE OF THE OPTIONS

- 1 PREHEAT ROD
- 2 REVERSING ALARM
- 3 NUMBER PLATE LIGHTING
- 4 ANGULAR SECTOR ON BOOM
- 5 BOOM ELECTRICAL PREDISPOSITION
- 6 ATTACHMENT EASY HYDRAULIC CONNECTION
- 7 EXTERIOR DRAIN-BACK
- 8 ATTACHMENT HYDRAULIC LOCKING
- 9 TELESCOPE SUSPENSION
- **10 TELESCOPE HEAD ELECTROVALVE**
- 11 TELESCOPE HEAD ELECTROVALVE + HYDRAULIC ATTACHMENT LOCKING
- 12 ATTACHMENT HYDRAULIC CONTROL FORCED OPERATION
- 13 ATTACHMENT HYDRAULIC FLOW RATE SELECTOR
- 14 ENGINE SPEED REGULATOR
- 15 SPEED LIMITER
- **16 COMBINED HYDRAULIC MOVEMENTS**

1 - PREHEAT ROD

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

SUPPLY CHARACTERISTICS OF PREHEATING SYSTEM:

- Rated power supply voltage range: 220-240V; 50-60Hz
- Current consumed: 4,5A
- Class 1 equipment
- Equipment connectable only to TT or TN supply systems
- Installation category 2

ENVIRONMENTAL CONDITIONS FOR USE:

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

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.
 - Incorporates an appropriate safety system against short circuits (fuses or circuit breaker) and a differential circuit breaker with 30 mA sensitivity.
- Only connect to and disconnect from the power supply while the unit is switched off and the engine is stopped.

2 - REVERSING ALARM





3 - NUMBER PLATE LIGHTING

4 - ANGULAR SECTOR ON BOOM



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OPERATION

charts.

- Set switch 1 to position A to enable the predisposition. The indicator lamp comes on to show that it is enabled.

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

6 - ATTACHMENT EASY HYDRAULIC CONNECTION

For easy attachment hydraulic connection and disconnection.

OPERATION

- Switch on lift truck ignition.
- Press for two seconds on push-button 1 to release the attachment circuit hydraulic pressure.
- Connect or disconnect the rapid connectors of the hydraulic attachment (see: 4 - OPTIONAL ATTACHMENTS FOR USE WITH THE RANGE: PICKING UP THE ATTACHMENTS).

7 - EXTERIOR DRAIN-BACK

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







8 - ATTACHMENT HYDRAULIC LOCKING

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

ATTACHMENT LOCKING CONTROL

- Set valve 1 to position A and press switch 2 at position B (indicator lamp on).
- Push switch 3 forward to lock the attachment and backward to release it.

A IMPORTANT A

After locking the attachment, return switch 2 to position A (indicator lamp off) to prevent accidental release of the attachment.

HYDRAULIC ATTACHMENT CONTROL

- Set the valve to position B and press switch 2 at position B (indicator lamp on).
- Push switch 3 forward or backward.











9 - TELESCOPE SUSPENSION

The telescope is suspended to dampen jerking of the lift truck on rough ground (e.g. handling straw in a field).

OPERATION

- Press switch 1 at position A, the indicator lamp comes on indicating that telescope suspension is activated.
- Press switch 1 at position B, the indicator lamp goes out indicating that telescope suspension is deactivated.

10 - TELESCOPE HEAD ELECTROVALVE

Enables use of two hydraulic functions on the attachment circuit.

A IMPORTANT A

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

ATTACHMENT LINE A1/B1 CONTROL

- Set switch 1 to position A (indicator lamp off).
- Push switch 2 forward or backward.

ATTACHMENT LINE A2/B2 CONTROL

- Set switch 1 to position B (indicator light on) and hold down button 3.
- Push switch 2 forward or backward.





11 - TELESCOPE HEAD ELECTROVALVE + HYDRAULIC ATTACHMENT LOCKING

Enables the use of a hydraulic function and hydraulic locking of the attachment on the attachment circuit.

A IMPORTANT A

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

ATTACHMENT LINE A1/B1 CONTROL

- Set switch 1 to position A (indicator lamp off).
- Push switch 2 forward or backward.

ATTACHMENT A2/B2 LOCKING CONTROL

- Set switch 1 to position B (indicator light on) and hold down button 3.
- Push switch 2 forward to lock the attachment and backward to release it.













12 - ATTACHMENT HYDRAULIC CONTROL FORCED OPERATION

A IMPORTANT A

This OPTION must only be used with an attachment requiring continuous hydraulic movement, such as a brush, feeder bucket, mixer, spray etc. It is strictly forbidden for use in handling operations and all other applications (winch, crane jib, crane jib with winch, hook, etc.).

CONTINUOUS HYDRAULIC MOVEMENT OF THE ATTACHMENT

- Simultaneously hold button 1 in the forward or backward position (according to the type of attachment) and switch 2 in position B (indicator light on). An audible beep will sound when activated. Release button 1 and switch 2.
- To stop the movement, push again on the bottom of switch 2, or operate button 1.
- NOTE: If the operator leaves the driver's cab, the continuous hydraulic movement will automatically stop and must be restarted.







<u>13 - ATTACHMENT HYDRAULIC FLOW RATE SELECTOR</u>

The selector has 4 positions, of which 3 can be configured according to the type of attachment, the 4th position being fixed at 100 %.

ADJUSTING HYDRAULIC FLOW RATES

- Place the selector to position 1 and adjust the attachment flow rate (see: 2 DESCRIPTION: 16 HYDRAULIC CONTROLS).
- Repeat the procedure for positions 2 and 3.

READING HYDRAULIC FLOW RATES



- Scroll the upper display screen - Scroll the attachment hydraulic flow

rate display screen **••• ••• •••** is displayed and set the flow rate selector to positions 1, 2 or 3 to read the recorded flow rate.



14 - ENGINE SPEED REGULATOR

A IMPORTANT A

The option cannot under any circumstances be used while driving on the road. Beware when driving, sudden acceleration or braking when you use button 2.

The regulator controls the engine speed, increases the hydraulic flow and therefore increases the speed of all the movements.

- Control the engine speed with button 1.
- Press button 2 to deactivate this option.
- Move the lift truck to the desired location.
- Press button 2 again to reactivate this option.

Used for an attachment requiring continuous hydraulic movement (brush, feeder bucket, mixer, spray).

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After having switched off the ignition with the ignition key turn button 1 to zero to reinitialize this option then reset to the desired value.





15 - SPEED LIMITER

A IMPORTANT A This option cannot under any circumstances be used while driving on the road.

Only accessible in SLOW (TORTOISE) MODE, the speed limiter limits the speed from 0,4 km/h to 12 km/h by turning the knob 1.

Used for an attachment requiring a constant speed of travel (brush, feeder bucket, spray).

After having switched off the ignition with the ignition key turn button 1 to zero to reinitialize this option then reset to the desired value.

16 - COMBINED HYDRAULIC MOVEMENTS

Moving the hydraulic control lever in the diagonal directions enables you to combine several hydraulic movements in addition to telescoping and/or the attachment.





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3 - MAINTENANCE

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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:

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

A IMPORTANT **A**

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

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.

A IMPORTANT A

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

FILTERS CARTRIDGES AND BELTS

ENGINE

ENGINE OIL FILTER Part number: 279809 Change: 500 H

Part number: 563415

Part number: 940729

Change: 2000 H

FUEL PRE-FILTER

Change: 500 H

DRY AIR FILTER CARTRIDGE Part number: 563416 Clean: 50 H Change: 1000 H

SAFETY DRY AIR FILTER CARTRIDGE



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ALTERNATOR BELT Part number: 292198

VENTILATION ADJUSTMENT BELT Part number: 289330

WATER PUMP + ALTERNATOR BELT + FAN CONTROL BELT KIT Part number: 894164 Change: 3000 H

CYCLONIC PRE-FILTER Part number: 224713 Clean: 10 H

COMPRESSOR BELT (AIR CONDITIONING OPTION) Part number: 281458











FUEL FILTER Part number: 940724 Change: 500 H

ENGINE CRANKCASE VENTILATION FILTER Part number: 940867 Change: 1500 H

REVERSIBLE FAN CONTROL FILTER CONNECTOR Part number: 305753 Change: 500 H

HYDRAULIC SYSTEM

HYDRAULIC RETURN OIL FILTER CARTRIDGE Part number: 686236 Change: 500 H



BRAKE ACCUMULATOR UNIT FILTER Part number: 746308 Change: 2000 H

BRAKE ACCUMULATOR UNIT FILTER COMBINED HYDRAULIC MOVEMENTS OPTION MLT625-75 H ST3B Version "ELITE" Part number: 942465 Change: 2000 H





CAB

CAB FAN FILTER Part number: 750306 Clean: 50 H Change: 250 H





LUBRICANTS AND FUEL

A IMPORTANT A

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 organized 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 (sulfur content < 10 ppm)
- ASTM D975 diesel fuel (sulfur content < 15 ppm)

RECOMMENDED LUBRICANT

| ENGINE | | | | | | | | | | | | | | |
|------------------------|-------------|-------|------|-----|------|----------|-----------|----------|---------|------|-------|--|--|--|
| PARTS TO BE LUBRICATED | CAPACITY | | | | RECC | OMMEND | ED LUBRIO | CANT | | | | | | |
| | | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C | | | |
| | | | OW30 | | | | | | | | | | | |
| | | | 0W40 | | | | | | | | | | | |
| | | | | | | 5W30 | | | | | | | | |
| | | | | | | 5V | /40 | | | | | | | |
| | | | | | | 1 | 0W30 | | | | | | | |
| ENGINE | 11,2 Liters | | | | MA | NITOU EV | OLOGY O | IL 10W40 | API CJ4 | | | | | |
| | | | | | | | 15W4 | 0 | | | | | | |
| | | | | | | | 2 | 0W50 | | | | | | |
| | | 40% | 20 | 20 | 10 | - | . 10 | . 20 | . 20 | . 40 | . 50% | | | |
| [| | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C | | | |
| COOLING CIRCUIT | 12 Liters | | | · | | COOLI | NG LIQUI |)-35℃ | | ' | | | | |
| | | | 1 | 1 | 1 | | | 1 | 1 | 1 | | | | |
| | | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C | | | |
| FUELTANK | 63 Liters | | 1 | | | I | DIES | FL OIL * | ļ | I | | | | |
| | 05 EICH5 | | | | | | | | i | | | | | |

| BOOM | | | | | | | | | | | | |
|------------------------|---------------------------------------|-----|-----|-----|----------|----------|---------|-----------|-----|-------|--|--|
| PARTS TO BE LUBRICATED | RECOMMENDED LUBRICANT | | | | | | | | | | | |
| | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C | | |
| | | 1 | | | 1 | | 1 | 1 | | 1 | | |
| BOOM PADS | MANITOU BLACK MULTI-PURPOSE LUBRICANT | | | | | | | | | | | |
| | | | | | | | | | | 1 | | |
| | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C | | |
| | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| GREASING OF THE BOOM | | | | MAN | IITOU BL | UE MULTI | -PURPOS | E LUBRIC. | ANT | | | |
| | | | | | | | | | | 1 | | |

| HYDRAULIC SYSTEM | | | | | | | | | | | | |
|------------------------|-----------|-----------------------|-----|-----|-----|----------|-----------|---------|-------|-----|-------|--|
| PARTS TO BE LUBRICATED | CAPACITY | RECOMMENDED LUBRICANT | | | | | | | | | | |
| | | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C | |
| | | | | | I | | | ICOV | C 100 | 1 | | |
| | | | | | | | | 120 A | G 100 | | | |
| | | | | | | | ISC | D VG 68 | | | | |
| HYDRAULIC OIL TANK | 85 Liters | | | | MAN | ITOU ISO |) VG 46 H | YDRAULI | COIL | | | |
| | | | | | | ISO VG | i 37 | | | | | |
| | | | | | ISC |) VG 32 | | | | | | |
| | | | | 1 | | 1 | 1 | | 1 | 1 | | |

| BRAKE | | |
|------------------------|----------|-----------------------------|
| PARTS TO BE LUBRICATED | CAPACITY | RECOMMENDED LUBRICANT |
| BRAKE CIRCUIT | 1 Liter | MANITOU MINERAL BRAKE FLUID |

| CAB | | |
|------------------------|----------|--------------------------|
| PARTS TO BE LUBRICATED | CAPACITY | RECOMMENDED LUBRICANT |
| WINDSCREEN WASHER TANK | 2 Liters | WINDSCREEN WASHER LIQUID |

| FRONT AXLE | | | | | | | | | | | |
|------------------------------------------------|-----------------------------|-------|-----|-----|-----------|-----------------|-----------|---------|-----------------|-----------|-------|
| PARTS TO BE LUBRICATED | CAPACITY | | | | RECO | MMEND | ED LUBRIC | CANT | | | |
| FRONT AXLE DIFFERENTIAL | 4 Liters | | | SPE | CIAL MANI | TOU OIL I | FOR IMME | RSED BR | AKES | | |
| | | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C |
| TRANSFER GEAR BOX FRONT WHEEL REDUCING GEAR | 0,75 Liter 2 x 0,8 Liter | | I | | MANITOU | SAE80W | /90 MECH | ANICALT | RANSMIS | SSION OII | - |
| | | | | | | | | | | | |
| | | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C |
| | | | T | | 1 | | | | | | |
| FRONT WHEEL REDUCING GEAR PIVOTS | | | | | MAN | <u>IITOU BL</u> | UE MULTI | -PURPOS | <u>e lubric</u> | ANT | |

| REAR AXLE | | | | | | | | | | | |
|----------------------------------------------------------|---------------|-----------------------|-----|------|----------|----------|----------|----------|----------|----------|-------|
| PARTS TO BE LUBRICATED | CAPACITY | RECOMMENDED LUBRICANT | | | | | | | | | |
| REAR AXLE DIFFERENTIAL | 3,8 Liters | | | SPEC | IAL MANI | TOU OIL | FOR IMM | ERSED BR | AKES | | |
| | | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C |
| REAR WHEEL REDUCING GEAR | 2 x 0,9 Liter | | | | MANITOU | SAE80V | V90 MECH | ANICALT | RANSMI | SSION OI | |
| | 1 | -40°C | -30 | -20 | -10 | 0 | +10 | +20 | +30 | +40 | +50°C |
| REAR WHEEL REDUCING GEAR PIVOTS REAR AXLE OSCILLATION | | | 1 | | MAN | IITOU BL | UE MULTI | -PURPOS | E LUBRIC | ANT | |

PACKAGING

| OIL | | | | | | | | | | | |
|------------------------------------------------|-----------------------|----------|-----------|-------------|-----------|------------|--|--|--|--|--|
| PRODUCT | PACKAGING / REFERENCE | | | | | | | | | | |
| PRODUCI | 1 LITER | 2 LITERS | 5 LITERS | 20 LITERS | 55 LITERS | 209 LITERS | | | | | |
| - MANITOU EVOLOGY OIL 10W40 API CJ4 | | | 895837 | 895838 | 895839 | 895840 | | | | | |
| - MANITOU ISO VG 46 HYDRAULIC OIL | | | 545500 | 582297 | 546108 | 546109 | | | | | |
| - MANITOU MINERAL BRAKE FLUID | 490408 | | | | | 4500078 | | | | | |
| - SPECIAL MANITOU OIL FOR IMMERSED BRAKES | | | 545976 | 582391 | 947918 | 894257 | | | | | |
| - MANITOU SAE80W90 MECHANICAL TRANSMISSION OIL | | 499237 | 720184 | 546330 | 546221 | 546220 | | | | | |
| | | | | | | | | | | | |
| GREASE | | | | | | | | | | | |
| PPODUCT | | | PACKAGING | / REFERENCE | | | | | | | |
| roud 0.0 1 | | | | | | | | | | | |

| PPODICT | PACKAGING / REFERENCE | | | | | | | | | | | |
|-----------------------------------------|-----------------------|--------|--------|--------|--------|--------|--|--|--|--|--|--|
| PRODUCT | 400 ML | 400 GR | 1 KG | 5 KG | 20 KG | 50 KG | | | | | | |
| - MANITOU BLACK MULTI-PURPOSE LUBRICANT | | 947766 | 161590 | | | 499235 | | | | | | |
| - MANITOU BLUE MULTI-PURPOSE LUBRICANT | | 161589 | 720683 | 554974 | 499233 | 489670 | | | | | | |

| LIQUID | | | | | | | | |
|----------------------------|---------|----------|---------------------------------------|-------------|--|--------|--|--|
| DRODUCT | | | PACKAGING | / REFERENCE | | | | |
| PRODUCT | 1 LITER | 2 LITERS | 2 LITERS 5 LITERS 20 LITERS 55 LITERS | | | | | |
| - COOLING LIQUID -35°C | | | 894967 | 894968 | | 894969 | | |
| - WINDSCREEN WASHER LIQUID | 490402 | | 486424 | | | | | |

SERVICING SCHEDULE

A IMPORTANT A

(1): MANDATORY 500 HOUR OR 6 MONTH SERVICE. This service must be carried out after approximately the first 500 hours of operation or within the 6 months following the start-up of the machine (whichever occurs first).

(2): The engine oil and engine oil filter must be replaced after the first 50 hours of operation and every 500 hours of operation thereafter.

(4): Contact your dealer.

| A = ADJUST, C = CHECK, G = GREASE, N = CLEAN, P = BLEED, R = REPLACE, V = DRAIN | PAGE | (1) | DAILY OR EVERY 10 HOURS OF SERVICE | EVERY 50 HOURS OF SERVICE | EVERY 250 HOURS OF SERVICE | EVERY 500 HOURS OF SERVICE OR EVERY YEAR | EVERY 1000 HOURS OF SERVICE OR EVERY TWO YEARS | EVERY 1500 HOURS OF SERVICE OR EVERY TWO YEARS | EVERY 2000 HOURS OF SERVICE OR EVERY TWO YEARS | EVERY 3000 HOURS OF SERVICE | EVERY 4000 HOURS OF SERVICE | OCCASIONAL |
|------------------------------------------------------------------------------------|----------|-----|---------------------------------------|------------------------------|-------------------------------|------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------|--------------------------------|------------|
| ENGINE | | | | | | | | | | | | |
| - Engine oil level | 3-10 | | C | | | | | | | | | |
| - Cooling liquid level | 3-10 | С | C | | | | | | | | | |
| - Fuel level | 3-10 | С | C | | | | | | | | | |
| - Alternator/fan/crankshaft belt | 3-10 | | C | | | | | | | | | |
| - Cyclonic pre-filter | 3-11 | N | N | | | | | | | | | |
| - Dry air filter cartridge | 3-14/24 | R | | C/N | | | R | | | | | |
| - Radiator cores | 3-14 | Ν | | Ν | | | | | | | | |
| - Fuel pre-filter | 3/-14/20 | R | | V | | R | | | | | | |
| Alternator/fan/crankshaft belt tension | 3-18 | C/A | | | C/A | | | | | | | |
| Compressor belt tension (Air-conditioning OPTION) | 3-18 | C/A | | | C/A | | | | | | | |
| - Engine oil (2) | 3-20 | V | | | | V | | | | | | |
| - Engine oil filter <mark>(2)</mark> | 3-20 | R | | | | R | | | | | | |
| - Fuel filter | 3-21 | R | | | | R | | | | | | |
| Reversible fan control filter connector | 3-21 | R | | | | R | | | | | | |
| Exhaust gas recirculation piping | | | | | | C (4) | | | | | | |
| - Exhaust particle filter piping | | | | | | C (4) | | | | | | |
| - Fuel tank | 3-24 | | | | | | N | | | | | |
| - Engine silent blocks | | | | | | | C (4) | | | | | |
| - Engine speeds | | | | | | | C (4) | | | | | |
| - Valve clearances | | С | | | | | C (4) | | | | | |
| - Engine crankcase ventilation filter | 3-26 | | | | | | | R | | | | |
| - Injectors | | | | | | | | C (4) | | | | |
| - Exhaust gas recirculation cooler | | | | | | | | C (4) | | | | |
| - Cooling liquid | 3-28 | | | | | | | | <u>v</u> | | | |
| - Safety dry air filter cartridge | 3-28 | | | | | | | | K (A) | | | |
| - Kadlator | | | | | | | | | C (4) | | | |
| - water pump and the thermostat | | | | | | | | | C (4) | | | |
| - Alternator and the starter motor | | | | | | | | | C (4) | C (A) | | |
| - Turbo compressor Water numn + alternator halt + fan central halt kit | | | | | | | | | | C (4) | | |
| - Water pump + alternator beit + fan control beit kit | | | | | | | | | | N (4) | | |
| - Diesei particie inter | | | | | | | | | | C (4) | | |
| - "Stationary lift truck" exhaust particle filter | 3-32 | | | | | | | | | C (7) | | C |
| TRANSMISSION | J-J2 | | | | | | | | | | | |
| - Hydrostatic transmission circuit pressures | | | | | | | | | C (4) | | | |
| - Governing start of the hydrostatic transmission | | | | | | | | | C (4) | | | |
| - Hydrostatic transmission cut-off | | | | | | | | | C (4) | | | |
| TIRES | | | | | | 1 | | | - () | | | |
| - Tire pressures | 3-14 | С | | С | | | | | | | | |
| - Wheel nut tightening | 3-14 | С | | С | | | | | | | | |
| - Wheel nut tightening torques | 3-29 | С | | | | | | | C | | | |
| - Wheel | 3-33 | | | | | | | | | | | R |
| BOOM | | | | | | | | | | | | |
| - Boom pads | 3-11 | | N/G (3) | | | | | | | | | |
| - Boom | 3-15 | G | | G | | | | | | | | |
| - Boom pad wear | | | | | | | C (4) | | | | | |
| - Condition of boom assembly | | C | | | | | | | C (4) | | | |
| - Bearings and articulation rings | | | | | | | | | C (4) | | | |
| HYDRAULIC SYSTEM | | | | | | 1 | | | | | | |
| - Hydraulic oil level | 3-16 | С | | С | | | | | | | | |
| - Hydraulic oil | 3-21/29 | | | | | C | | | V | | | |
| - Hydraulic return oil filter cartridge | 3-22 | R | | | | R | | | | | | |
| - Brake accumulator unit filter | 3-29 | | | | | | | | R | | | |
| - Hydraulic pump tubular filter | | | | | | | | | N (4) | | | |
| - Condition of noses and flexible pipes | | | | | | | | | C (4) | | | |

^{(3):} Every 10 hours during the first 50 hours then a final time at 250 hours.

| A = ADJUST, C = CHECK, G = GREASE, N = CLEAN, P = BLEED, R = REPLACE, V = DRAIN | PAGE | (1) | DAILY OR EVERY 10 HOURS OF SERVICE | EVERY 50 HOURS OF SERVICE | EVERY 250 HOURS OF SERVICE | EVERY 500 HOURS OF SERVICE OR EVERY YEAR | EVERY 1000 HOURS OF SERVICE OR EVERY TWO YEARS | EVERY 1500 HOURS OF SERVICE OR EVERY TWO YEARS | EVERY 2000 HOURS OF SERVICE OR EVERY TWO YEARS | EVERY 3000 HOURS OF SERVICE | EVERY 4000 HOURS OF SERVICE | OCCASIONAL |
|------------------------------------------------------------------------------------|----------|------|---------------------------------------|------------------------------|-------------------------------|------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------|--------------------------------|------------|
| - Condition of cylinders (leakage, shafts) | | | | | | | | | C (4) | | | |
| - Hydraulic circuit pressures | | | | | | | | | C (4) | | | |
| BRAKE | | - | 1 | | 1 | 1 | 1 | | | | 1 | |
| - Brake oil level | 3-16 | C | | C | | | | | | | | |
| - Brake oil | | | | | | | V (4) | | | | | |
| - Brake system | | | | | | | P (4) | | | | | |
| - Brake system pressure | | | | | | | C (4) | | | | | |
| | | | | | | | A (4) | | | | | |
| STEERING Steering | | | | | | 1 | 1 | | C (A) | | | |
| - Steering | | | | | | | | | C (4) | | C (A) | |
| | | | | | | 1 | | | | | C (4) | |
| - Windscreen washer liquid level | 3-16 | C | | C | | | | | | | | |
| - Cab fan filter | 3/-17/18 | R | | N | R | | | | | | | |
| - Condenser core (Air-conditioning OPTION) | 3-17 | C/N | | C/N | n. | | | | | | | |
| - Seat belt | 3-25 | 4,11 | | G /10 | | | C | | | | | |
| - Condition of the rear view mirrors | 0 10 | | | | | | C (4) | | | | | |
| - Structure | | | | | | | C (4) | | | | | |
| - Air conditioning (OPTION) | 3-30 | | | | | 1 | - (- / | | N/C | | | |
| ELECTRICITY | | | | | | | 1 | | | | | |
| - Longitudinal stability limiter and warning device | 3/-12/34 | C | C | | | | | | | | | Х |
| - Condition of wiring harness and cables | | | | | | | C (4) | | | | | |
| - Lights and signals | | | | | | | C (4) | | | | | |
| - Warning indicators | | | | | | | C (4) | | | | | |
| - Front headlights | 3-35 | | | | | | | | | | | Α |
| - Battery failure | 3-35 | | | | | | | | | | | R |
| FRONT AXLE | | | | | | | | | | | | |
| - Front wheel reducing gear pivots | 3-15 | G | | G | | | | | | | G/C (4) | |
| - Transfer box oil level | 3-19 | | | | C | | | | | | | |
| - Front axle differential oil level | 3-19 | | | | C | | | | | | | |
| - Front wheel reduction gear oil level | 3-19 | | | | C | | | | | | | |
| - Iransfer box oil | 3-22 | V | | | | V | | | | | | |
| - Front axie differential oli | 3-23 | V | | | | V | V | | | | | |
| - Front wheel reduction gear oil | 3-26 | V | | | | | V | | | | C (A) | |
| - Wedi of ffolia dxie blake discs | | | | | | | | | | | C(4) | |
| Front wheel reduction gear clearance | | | | | | | | | | | C(4) | |
| - From wheel reduction gear creatance | | | | | | | | | | | C(4) | |
| REAR AXI E | | | I | | <u> </u> | I | I | | l | | C (7) | |
| - Bear wheel reducing gear pivots | 3-15 | G | | G | | | | | | | G/C (4) | |
| - Rear axle oscillation | 3-15 | G | | G | | | | | G/C (4) | | c /c(1) | |
| - Rear axle differential oil level | 3-19 | | | | С | | | | | | | |
| - Rear wheel reduction gear oil level | 3-19 | | | | C | | | | | | | |
| - Rear axle differential oil | 3-26 | V | | | | | V | | | | | |
| - Rear wheel reduction gear oil | 3-26 | V | | | | | V | | | | | |
| - Wearing of rear axle brake discs | | | | | | | | | | | C (4) | |
| - Rear wheel reduction gear universal joint | | | | | | | | | | | C (4) | |
| - Rear wheel reduction gear clearance | | | | | | | | | | | C (4) | |
| CHASSIS | | | | | | | | | | | | |
| - Structure | | | | | | | C (4) | | | | | |
| - Bearings and articulation rings | | | | | | | | | C (4) | | | |
| ATTACHMENTS | 1 | | | | | | | | | | , | |
| - Fork wear | | C | | | | C (4) | e 100 | | | | | |
| - Attachment carriage | | | | | | | C(4) | | | | | |
| | | | | | | | L (4) | | | | | |
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| - Towing the lift truck | 3-30 | | | | | | | | | | | A Y |
| - Transporting the lift truck on a platform | 3-30 | | | | | | | | | | | X |
| | 5 51 | | L | | | 1 | | | | | | |

A - DAILY OR EVERY 10 HOURS OF SERVICE

<u>A1 – ENGINE OIL LEVEL</u>

CHECK

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

- Open the engine bonnet.
- Pull out dipstick 1.
- Clean the dipstick and check the correct level between the two notches.
- If necessary, add oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through the filler port 2.
- Visually check that there is no leakage or seepage of oil in the engine.

<u>A2 – COOLING LIQUID LEVEL</u>

CHECK

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

A IMPORTANT A

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

If the cooling liquid is very hot, add only hot cooling liquid (80 °C).

In an emergency, you can use water as a cooling liquid, then change the cooling circuit liquid as soon as possible (see: 3 - MAINTENANCE: F1 - COOLING LIQUID).

- Open the engine bonnet.
- The liquid must be at mid-height of the expansion tank 1.
- If necessary, add cooling liquid (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through the filler port 2.
- Visually check that there is no leakage in the radiator and pipes.

<u>A3 – FUEL LEVEL</u>

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

A IMPORTANT A

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

- Check the fuel gage on the instrument panel.
- If necessary, add diesel (see: 3 MAINTENANCE: LUBRICANTS AND FUEL).
- Open the fuel filler access panel with the ignition key.
- Remove cap 1.
- Fill the fuel tank with clean diesel filtered through the filler port 2.
- Refit the cap.
- Visually check that there is no leakage in the tank and pipes.

A4 – ALTERNATOR/FAN/CRANKSHAFT BELT

- Open the engine bonnet.
- Check the belt for signs of wear and cracks and change if necessary (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).







CHECK

CHECK



<u>A5 – CYCLONIC PRE-FILTER (OPTION)</u>

The cleaning interval is given as a guide, however the pre-filter must be emptied and cleaned as soon as impurities reach the MAX level on the tank.

A IMPORTANT A

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

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

A6 – BOOM PADS

To be carried out every 10 hours during the first 50 hours service, then once at 250 hours.

A IMPORTANT A

If the lift truck is used in an abrasive environment (dust, sand, and coal.), use lubricating varnish (MANITOU reference: 483536). In this respect, consult your dealer.

- Fully extend the boom.
- Apply the grease with a brush (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) to the 4 sides of the telescope(s).
- Telescope the boom several times in order to spread the coat of grease evenly.
- Remove the surplus of grease.



CLEAN

CLEAN - GREASE









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B - EVERY 50 HOURS OF SERVICE

Carry out the operations described previously as well as the following operations.

B1 – DRY AIR FILTER CARTRIDGE

CHECK - CLEAN

In case of use in a heavily dust laden atmosphere, there are pre-filtration cartridges (see: 3 - MAINTENANCE: FILTERS CARTRIDGES AND BELTS). Also, the checking and cleaning periodicity of the cartridge must be reduced.

A IMPORTANT A

If the clogging indicator light comes on, this operation must be carried out as quickly as possible (1 hour maximum). The cartridge must not be cleaned more than seven times, after which it must be changed. Never use the lift truck without an air filter or with a damaged air filter.

Respect the safety distance of 30 mm between the air jet and the cartridge to avoid tearing or making a hole in the cartridge. The cartridge must not be blown anywhere near the air filter box. Never clean the cartridge by tapping it against a hard surface. Your eyes must be protected during this intervention.

Never clean the dry air filter cartridge by washing it in liquid. Do not clean by any means the safety cartridge located inside the filter cartridge, change it for a new one if it is clogged or damaged

- For the disassembly and reassembly of the cartridge, see: 3 MAINTENANCE: D3 DRY AIR FILTER CARTRIDGE.
- Clean the filter cartridge using a compressed air jet (max. pressure 3 bar) directed from the top to the bottom and from the inside towards the outside at a minimum distance of 30 mm from the cartridge wall.
- Cleaning is completed when there is no more dust on the cartridge.
- Clean the cartridge seal surfaces with a damp, clean lint-free cloth and grease with a silicone lubricant (MANITOU reference: 479292).
- Check visually the outer condition of the air filter and its mounts. Verify the condition of the hoses and their mounts also.

CLEAN

CHECK

B2 – RADIATOR CORES

A IMPORTANT A

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 radiator fins.

- Open the engine bonnet.
- If necessary, clean the intake grille on the engine hood.
- 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 towards the radiator, in the opposite direction to the cooling air flow.

<u> B3 – FUEL PRE-FILTER</u>

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

- Open the engine bonnet.
- Disconnect electrical wiring harness 1 from the fuel pre-filter.
- Place a receptacle under the drain plug 2 and unscrew by two to three turns.
- Allow the diesel fuel to flow out until it is free from impurities and water.
- Re-tighten drain plug 2 and reconnect the wiring harness 1.

B4 – TIRE PRESSURES AND WHEEL NUT TORQUES

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

- Check the condition of the tires, to detect cuts, blisters, wear, etc.
- Check the torque load of the wheel nuts. Non-compliance with this instruction can cause damage and rupture to the wheel bolts and distortion to the wheels.
- Check and restore tire pressures if necessary (see: 2 DESCRIPTION: TIRES).

NOTE: There is an OPTIONAL wheel toolkit and anti-puncture kit.





CHECK

B5 – GENERAL GREASING

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

GREASE

A IMPORTANT A

In the event of prolonged use in an extremely dusty or oxidizing atmosphere, reduce this interval to every 10 hours of service or every day.

Clean and lubricate the following points with grease (see: 3 - MAINTENANCE: LUBRICANTS AND FUEL) and remove the surplus of grease.

BOOM

- 1 Lubricators of the boom axle (2 lubricators).
- 2 Lubricator of the carriage axle (1 lubricator).
- 3 Lubricator of the tilt cylinder foot axle (1 lubricator).
- 4 Lubricator of the tilt cylinder head axle (1 lubricator).
- 5 Lubricator of the lifting cylinder foot axle (1 lubricator).
- 6 Lubricator of the lifting cylinder head axle (1 lubricator).
- 7 Lubricator of the compensation cylinder foot axle (1 lubricator).
- 8 Lubricator of the compensation cylinder head axle (1 lubricator).

FRONT AND REAR WHEEL REDUCTION GEAR PIVOTS

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

REAR AXLE OSCILLATION

10 - Rear axle oscillation lubricators (2 lubricators).

B6 – HYDRAULIC OIL LEVEL

If necessary, remove and reconnect the hydraulic attachment (see: 4 - OPTIONAL ATTACHMENTS FOR USE WITH THE RANGE: PICKING UP THE ATTACHMENTS). Place the lift truck on level ground with the engine stopped and the boom retracted and lowered to its maximum extent.

A IMPORTANT A

- Use a clean funnel and clean the underside of the oil drum before filling.
- Check dipstick 1, the correct level must stand at the level of the red point.
- If necessary, add oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL).
- Remove cap 2.
- Add oil through filler port 3.
- Refit the cap.
- Visually check that there is no leakage in the tank and pipes.







Place the lift truck on level ground.

If the oil level is abnormally low, consult your dealer.

- Remove protective casing 1 using key 2.
- Check tank 3. The correct level must stand at the MAX level in the tank.
- If necessary, add oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL).
- Remove cap 4.
- Add oil through filler port 5.
- Put the cap back 4.
- Check visually that there is no leakage in the tank and pipes.

CHECK

СНЕСК

CHECK





B8 – WINDSCREEN WASHER LIQUID LEVEL

- Remove cap 1.
- Visually check the level in tank 2.
- If necessary add windscreen washer liquid (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through filler port 3.
- Put the cap back.



CLEAN

B9 – CAB VENTILATION FILTER

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- Remove the protective grid 1.
- Lift out cab ventilation filter 2.
- Clean the filter with a compressed air jet.
- Check its condition and change if necessary (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Reinstall the filter.
- Refit the protective grid 1.





B10 – CONDENSER CORE (AIR-CONDITIONING OPTION)

CHECK - CLEAN

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

- 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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C - EVERY 250 HOURS OF SERVICE

Carry out the operations described previously as well as the following operations.

<u>C1 – ALTERNATOR/FAN/CRANKSHAFT BELT TENSION</u>

CHECK - ADJUST

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

- Open the engine bonnet.
- Check the belt for signs of wear and cracks and change if necessary (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Check the belt tension between the pulleys of the crankshaft and of the alternator.
- Under a normal pressure exerted with the thumb (45 N), the belt should move approximately 10 mm.
- Adjust if necessary.
- Loosen screws 1 by two to three turns.
- Swivel the alternator assembly so as to obtain the required belt tension.
- Re-tighten screws 1 (tightening torque 22 N.m).

<u>C2 – COMPRESSOR BELT TENSION (AIR CONDITIONING OPTION)</u>

CHECK - ADJUST

REPLACE

A IMPORTANT A

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

- Open the engine bonnet.
- Check the belt for signs of wear and cracks and change if necessary (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Check the belt tension between the pulleys of the crankshaft and of the compressor
- Under a normal pressure exerted with the thumb (45 N), the belt should move approximately 10 mm.
- Adjust if necessary.
- Loosen the screws 1 and nuts 2 by two to three thread turns.
- Swivel the compressor assembly so as to obtain the belt tension required.
- Re-tighten screws 1 and nuts 2 (tightening torque 22 N.m).

C3 – CAB VENTILATION FILTER

- Remove the protective grid 1.
- Lift out cab ventilation filter 1 and replace it with a new one (see: 3 MAINTENANCE: FILTERS, CARTRIDGES AND BELTS).
- Refit the protective grid 1.









C4 – TRANSFER BOX OIL LEVEL

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

- Remove access panel 1.
- Remove the level plug 2, the oil should be flush with the edge of the hole.
- If necessary, add oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) by the same hole.
- Refit and tighten the level plug 2 (tightening torque 34 to 49 N.m).
- Refit access panel 1.



CHECK



C5 – FRONT AXLE DIFFERENTIAL OIL LEVEL

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

- Remove the level plug 1, the oil should be flush with the edge of the hole.
- If necessary, add oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) via the same hole.
- Refit and tighten the level plug 1 (tightening torque 34 to 49 N.m).

C6 – REAR AXLE DIFFERENTIAL OIL LEVEL

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

- Remove the level plug 1, the oil should be flush with the edge of the hole.
- If necessary, add oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) via the same hole.
- Refit and tighten the level plug 1 (tightening torque 34 to 49 N.m).

C7 – FRONT AND REAR WHEEL REDUCTION GEAR OIL LEVEL

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

- Check the level on each wheel reduction gear.
- 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 (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) via the same
- hole. - Refit and tighten the level plug (tightening torque 34 to 49 N.m).

CHECK

CHECK

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D - EVERY 500 HOURS OF SERVICE OR EVERY YEAR

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Carry out the operations described previously as well as the following operations.

DRAIN

REPLACE

REPLACE

D1 – ENGINE OIL

D2 – ENGINE OIL FILTER

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

A IMPORTANT A

Dispose of the waste oil in an ecological manner. Hand-tighten the oil filter and lock in place with a quarter turn.

DRAINING THE OIL

- Open the engine bonnet.
- Remove access panel 1.
- Place a container under the drain port and unscrew the drain plug 2.
- Remove the filling plug 3 to ensure that the oil is drained properly.

REPLACEMENT OF THE FILTER

- Unscrew and discard the engine oil filter 4, together with its seal.
- Clean the filter bracket with a clean, lint-free cloth.
- Lightly grease the new seal before refitting the new oil filter (see: 3 MAINTENANCE: FILTERS, CARTRIDGES AND BELTS) on its bracket.

FILLING UP THE OIL

- Refit and tighten the drain plug 1.
- Fill up with oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through filler port 5.
- 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 level marks on the dipstick 6.
- Top up the level if necessary.
- Refit access panel 1.

D3 – FUEL PRE-FILTER

A IMPORTANT A

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 bonnet.
- Disconnect electrical wiring harness 1 from the fuel pre-filter.
- Place a receptacle under the drain plug 2 and unscrew by two to three turns.
- Open bleed screw 3 to ensure proper emptying.
- Re-tighten bleed screw 3 once the pre-filter is emptied.
- Loosen pre-filter 4 and discard it, together with its seal.
- Clean the inside of the pre-filter head using a brush immersed in clean diesel oil.
- Refit a pre-filter and a new seal lubricated with clean diesel beforehand (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Reconnect the fuel pre-filter wiring harness 1.
- Replace the fuel filter.









D4 – FUEL FILTER

A IMPORTANT **A**

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

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

- 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 (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Open the bleed screw 3 of the fuel pre-filter and the bleed screw 2 of the fuel filter.
- Switch on the lift truck's ignition, and close the bleed screw as soon as the diesel flows with no air.
- **D5 REVERSIBLE FAN CONTROL FILTER CONNECTOR**

REPLACE

REPLACE

A IMPORTANT A

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

- Remove access panel 1.
- Replace the filter connector 2 with a new one (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).





D6 – HYDRAULIC OIL

MANITOU recommends analyzing the hydraulic oil after the first 500 hours of lift truck operation. Following that, MANITOU requires the oil to be analyzed every 500 hours of operation. The results will dictate whether or not the hydraulic oil is changed (contact your dealer).

MANITOU oil analysis kit Part No. 958162.





D7 – HYDRAULIC RETURN OIL FILTER CARTRIDGE

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

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🛕 IMPORTANT 🛕

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

A IMPORTANT A

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

- Remove cap 1.
- Place a container under hydraulic return oil filter.
- Unscrew the cover 2.
- Wait a few seconds for the oil to flow into the container.
- Slowly take out filter cartridge assembly 3 and 4.
- Separate the head 3 from the filter cartridge 4 with a twisting motion.
- Refit the head onto a new cartridge (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Fit the assembly in place and re-tighten cover 2.
- Put the cap 1 back.



REPLACE







DRAIN

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

A IMPORTANT A

Dispose of the drain oil in an ecological manner.

- Remove access panel 1.
- Place a container under drain plug 2 and unscrew the plug.
- Remove level and filling plug 3 to ensure proper emptying.
- Refit and tighten the drain plug 2 (tightening torque 34 to 49 N.m).
- Fill up with oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through filler port 3.
- 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 filler port plug 3 (tightening torque 34 to 49 N.m).
- Refit access panel 1.







D9 – FRONT AXLE DIFFERENTIAL OIL

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

A IMPORTANT A

Dispose of the drain oil in an ecological manner.

- Place a container under drain plug 1 and unscrew the plug.
- Remove level and filling plug 2 to ensure proper emptying.
- Refit and tighten the drain plug 1 (tightening torque 34 to 49 N.m).
- Fill up with oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through filler port 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 filler port plug 3 (tightening torque 34 to 49 N.m).



DRAIN

E - EVERY 1000 HOURS OF SERVICE OR TWO YEARS

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Carry out the operations described previously as well as the following operations.

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

A IMPORTANT A

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

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

- Inspect the parts of the fuel circuit and the tank liable to leak, both visually and by touch.
- In the event of a leak, contact your dealer.
- Place a container under drain plug 1 and unscrew the plug.
- Open the fuel filler access panel 2 with the ignition key.
- Remove the filling plug 3 to ensure that the oil is drained properly.
- Rinse out with ten liters of clean diesel through filler port 4.
- Refit and tighten the drain plug 1 (tightening torque 29 to 39 N.m).
- Fill the fuel tank with clean diesel filtered through the filler port.
- Refit the filler plug.
- Close access panel 2.





E2 – DRY AIR FILTER CARTRIDGE

REPLACE

In case of use in a heavily dust laden atmosphere, there are pre-filtration cartridges, see: 3 - MAINTENANCE: FILTERS CARTRIDGES AND BELTS. Also, the checking and cleaning periodicity of the cartridge must be reduced (up to 250 hours in a heavily laden dust atmosphere and with pre-filtration).

A IMPORTANT A

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

- Loosen the bolts and remove cover 1.
- Gently remove the cartridge 2 taking care to avoid spilling the dust.
- Leave the safety cartridge in place.
- The following parts must be cleaned 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 mounting check the condition of the new cartridge (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Insert the cartridge within the axis of the filter and push it home, pressing against the outer edge and not the center.
- Reassemble the cover, guiding the valve downwards.


E3 – SEAT BELT

A IMPORTANT A

CHECK

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

SEAT BELT WITH TWO ANCHORING POINTS

- Check the following points:

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

REELED SEAT BELT WITH TWO ANCHORING POINTS

- Check the points listed above together with the following points:

- The correct winding of the belt.
- Condition of the reel guards.
- Roller locking mechanism when the strap is given a sharp tug.

NOTE: After an accident, replace the seat belt.

E4 – REAR AXLE DIFFERENTIAL OIL

DRAIN

DRAIN

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

A IMPORTANT A

Dispose of the drain oil in an ecological manner.

- Place a container under drain plug 1 and unscrew the plug.
- Remove level and filling plug 2 to ensure proper emptying.
- Refit and tighten the drain plug 1 (tightening torque 34 to 49 N.m).
- Fill up with oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through filler port 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 filler port plug 2 (tightening torque 34 to 49 N.m).

E5 – FRONT AND REAR WHEEL REDUCTION GEAR OIL

A IMPORTANT A

Place the lift truck on level ground with the engine stopped and the reducing gear oil

Dispose of the drain 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.

still hot.

- Place the drain port in position B, i.e. in a level port.
- Fill up with oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through level port 1.
- The level is correct when the oil level is flush with the edge of the hole.
- Refit and tighten the drain plug (tightening torque 34 to 49 N.m).





F - EVERY 1500 HOURS OF SERVICE OR EVERY TWO YEARS

Carry out the operations described previously as well as the following operations.

REPLACE

<u>F1 – ENGINE CRANKCASE VENTILATION FILTER</u>

- Open the engine bonnet.
- Carefully clean the outside of the filter and its holder, to prevent dust from getting into the system.
- Disconnect the hose 1 at the filter.
- Unscrew the cover 2.
- Take out the filter 3 and discard it together with the seal of the cover 2.
- Refit a new seal on the cover and insert a new filter (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Tighten the cover 2 by hand only and lock in place by a quarter turn.
- Reconnect hose 1.





G - EVERY 2000 HOURS OF SERVICE OR EVERY TWO YEARS

Carry out the operations described previously as well as the following operations.

<u>G1 – COOLING LIQUID</u>

DRAIN

These operations are to be carried out when needed or once every two years at the beginning of winter. Place the lift truck on level ground with the engine stopped and cold.

A IMPORTANT A

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

DRAINING THE LIQUID

- Open the engine bonnet.
- Remove access panel 5.
- Place a container under the radiator drain plug 1 and unscrew the plug.
- Remove filler plug 2 from the expansion tank and fully open the heating control to ensure proper emptying.
- 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 THE LIQUID

- Refit and tighten the radiator drain plug 1 (tightening torque 20 N.m).
- Slowly fill the circuit with cooling liquid (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) up to the middle of the expansion tank 3, via filler port 4.
- Refit filler plug 2.
- Run the engine at idle for a few minutes.
- Check for any possible leaks.
- Check the level and refill if necessary.



REPLACE

- For the disassembly and reassembly of the dry air filter cartridge, see: 3 MAINTENANCE: D3 AIR FILTER CARTRIDGE.
- Gently remove the dry air filter safety cartridge 1, taking care to avoid spilling the dust.
- Clean the gasket surface on the filter with a damp, clean lint-free cloth.
- Check the condition of the new safety cartridge before fitting (see: 3 MAINTENANCE: FILTERS AND BELTS).
- Insert the cartridge in the filter axis and push it home, pressing against the outer edge and not the center.

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









G3 – WHEEL NUT TIGHTENING TORQUES

- Check the condition of the tires, to detect cuts, blisters, wear, etc.

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- Check the wheel nut tightening torques with a torque wrench.
 - Front tires: 630 N.m \pm 15 %
 - \bullet Rear wheels: 630 N.m \pm 15%

G4 – HYDRAULIC OIL

|--|

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

A IMPORTANT A

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

A IMPORTANT A

Before carrying out any work, thoroughly clean the area around the filter, the drain and filling plugs. Dispose of the drain oil in an ecological manner.

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

DRAINING THE OIL

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

REPLACING THE BRAKE ACCUMULATOR UNIT FILTER

- Remove the cover plate 3.
- Unscrew plug 4, lift out the filter and fit a new one (see: 3 MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Refit and tighten plug 4 (tightening torque 70 to 80 N.m).
- Refit cover plate 3.

FILLING UP THE OIL

- Clean and refit the drain plugs 1 (tightening torque 29 to 39 N.m).
- Fill up with oil (see: 3 MAINTENANCE: LUBRICANTS AND FUEL) through filler port 5.
- Observe the oil level on dipstick 6, the oil level should be at the level of the red point.
- Check for any possible leaks at the drain plugs.
- Refit filler plug 2.

HYDRAULIC CIRCUIT DECONTAMINATION

- This should be carried out by your dealer after each oil change.
- The hydraulic oil used in the circuit must be at least equal in quality to class 8 (according to NAS 1638). Your dealer will be able to clean the hydraulic circuit using an external unit and check the quality of the oil in order to ensure the long life of hydraulic components and particularly of the main pump.





DRAIN

REPLACE







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CHECK

G6 – AIR CONDITIONING (OPTION)

CLEAN- CHECK

CLEANING CONDENSER AND EVAPORATOR COILS (*)

CLEANING CONDENSATE TRAY AND RELIEF VALVE (*)

COLLECTING COOLANT TO REPLACE FILTER-DRIER (*)

REFILLING WITH COOLANT AND CHECKING THE THERMOSTATIC CONTROL AND PRESSURE SWITCHES (*)

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

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(*): (CONSULT YOUR DEALER).

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

> In the event of inhalation, take the victim into fresh air, give oxygen or artificial respiration if necessary and call a doctor. In the event of contact with the skin, wash immediately with copious amounts of water and remove any contaminated garments. In the event of contact with the eyes, rinse with clear water for 15 minutes and call a doctor.

- Do not open the circuit under any circumstances as this would loss of coolant.
- The cooling circuit contains a gas which can be dangerous under certain conditions. This gas, coolant R-134a, is colorless, odorless and heavier than air.
- 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.



H - OCCASIONAL MAINTENANCE

H1 – "STATIONARY LIFT TRUCK" EXHAUST PARTICLE FILTER

A IMPORTANT A

Exhaust particle filter cleaning is an automated procedure activated by the operator when the following indicator

lamps are displayed:

- Park the lift truck in a safe and adequately ventilated place.
- Check the following points:
 - forward/reverse selector in neutral,
 - parking brake applied,
 - boom angle less than 5°,
 - accelerator pedal released,
 - hand throttle not used (option),
- Check that there is sufficient fuel.
- Start the lift truck and run the engine for a few minutes to bring it up to its operating temperature.
- Press down on the top of switch 1 for more than two seconds to begin the regeneration procedure.
- The indicator lamps (333) + (53) come on, accompanied by an audible beep, confirming that 'stationary lift truck' particle filter regeneration is in progress.

REGENERATE

- The "wait" display will flash throughout the "stationary lift truck" particle filter regeneration process.
- Otherwise, "notice" will be displayed for 3 seconds indicating a fault in the procedure. In this event check the positioning of the lift truck and contact your manufacturer if necessary.
- At the end of the procedure, indicator lamps $\overline{45} + \overline{5}$ go out.
- During the procedure the engine speed increases to approx. 1800 rpm, and the indicator lamp comes on when the exhaust particle filter gases reach a high temperature.

A IMPORTANT A

The particle filter regeneration procedure must not be stopped unless absolutely necessary. The procedure stops automatically if the operator: - presses the accelerator pedal, - releases the parking brake, - or presses the top of switch 1.

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

A IMPORTANT A

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



H2 - WHEEL

REPLACE

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

A IMPORTANT A

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.
- Shut-down the lift truck (see: 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.
- Loosen 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 wheel nuts with a torque wrench (see: 3 MAINTENANCE: A DAILY OR EVERY 10 HOURS OF SERVICE for tightening torque).









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<u> H4 – FRONT HEADLIGHTS</u>

ADJUST

h2 = h1 - (I x 2 / 100)

h2

REPLACE

+%

-%

RECOMMENDED SETTING

(as per standard ECE-76/756 76/761 ECE20)

Set to -2% of the dipped beam in relation to the horizontal line of the headlamp.

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 (see: 2 DESCRIPTION: FRONT AND REAR TYRES).
- Place the forward/reverse selector in neutral.

CALCULATING THE HEIGHT OF THE DIPPED BEAM (H2)

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

H5 – BATTERY FAILURE

A IMPORTANT A

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

Handling and servicing a battery can be dangerous, take the following precautions:

- Wear protective goggles.
- Keep the battery horizontal.
- Never smoke or work near a naked flame.

- Work in a well-ventilated area.

- In the event of electrolyte being spilled onto the skin or splashed in the eyes, rinse thoroughly with cold water for 15 minutes and call a doctor.

- Open the engine bonnet.
- Bring a backup battery of the same type as that of the lift truck, together with battery cables.
- Connect the backup battery according to the correct polarity with the (-) on the engine ground 1 and the (+) on the (+) of starter 2.
- Start the lift truck and remove the cables as soon as the engine is running.

A IMPORTANT A

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

- Remove the protective casing 3.
- Change the battery 4.









<u>H6 – LIFT TRUCK</u>

A IMPORTANT A

If the lift truck is not on level ground, chock it so that it does not descend the slope.

The lift truck must be towed very slowly (less than 5 km/h) and for as short a distance as possible (less than 100 m).

For towing a lift truck, the high pressure limiters must be unlocked to avoid damaging the hydrostatic transmission, and the parking brake on the front axle must be released.

- Switch on lift truck ignition.
- Set the forward/reverse selector to neutral.
- Release the hand brake.

UNLOCKING THE HIGH PRESSURE LIMITERS

- Open the engine bonnet.
- Loosen nuts 1 on the hydrostatic pump by no more than three turns.

RELEASING THE PARKING BRAKE ON THE FRONT AXLE

- Unscrew the screws 2 on the front axle, remove the shims 3 and fully re-tighten the screws 2.

TOWING

- Switch on the hazard warning lights.
- Since there will be no steering or braking hydraulic assistance, operate the steering and pedal slowly avoiding sudden or jerky movements.
- After towing, re-tighten nuts 1 (tightening torque 70 N.m).
- Unscrew the screws 2, refit the shims 3 and re-tighten the screws 2 (tightening torque 95 115 N.m).



TOWING





H7 – LIFT TRUCK

- Take into account the position of the lift truck center of gravity for lifting.
 - A = 1200 mm B = 1100 mm
- Place the hooks in the fastening points 1 provided.







H8 – LIFT TRUCK ON A PLATFORM

A IMPORTANT A

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Ensure that the safety instructions associated with the platform are complied with before loading the lift truck and that the driver of the carrier vehicle is informed of the dimensions and the ground of the lift truck (see: 2 -DESCRIPTION: CHARACTERISTICS).

Ensure that the platform is of sufficient size and load capacity for transporting the lift truck. Check also the allowable ground contact pressure of the platform relative to the lift truck.

A IMPORTANT A

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

LOADING THE LIFT TRUCK

- Block the wheels of the platform.
- Attach the loading ramps to the platform in such a way as to give the shallowest possible ramp angle for the lift truck.
- Load the lift truck parallel to the platform.
- Shut down the lift truck (see: 1 OPERATING AND SAFETY INSTRUCTIONS: DRIVING INSTRUCTIONS UNLADEN AND LADEN).

STOWING THE LIFT TRUCK

- Fix the chocks to the platform at the front and the rear of each tire.
- Also fix the chocks to the platform on the inside of each tire.
- Secure the lift truck to the platform with sufficiently strong ropes to the anchoring points 1 provided.
- Tighten the ropes.



TRANSPORTING











4 - O P T I O N A L A D A P T A B L E ATTACHMENTS FOR THE RANGE

TABLE OF CONTENTS

4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE

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INTRODUCTION

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

A IMPORTANT A

Only attachments approved by MANITOU are to be used on our lift trucks (see: 4 - ADAPTABLE ATTACHMENTS IN OPTION ON THE RANGE: TECHNICAL SPECIFICATIONS OF ATTACHMENTS). The manufacturer's liability will be denied in case of modification or of attachment adaptation carried out without his knowing it.

- 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.

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

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

A IMPORTANT A

Depending on their size, certain attachments may, when the boom is lowered and retracted, come into contact with the front tyres and cause damage to them, if reverse tilt is activated in the forward tilt direction.

TO REMOVE 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

A IMPORTANT A

Suspended load MUST be handled with a lift truck designed for that purpose (see: 1 - OPERATING AND SAFETY INSTRUCTIONS: LOAD HANDLING INSTRUCTIONS: H - TAKING-UP AND SETTING-DOWN A SUSPENDED LOAD).

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 fully lowered in front of and parallel to the attachment, tilt the carriage forwards (fig. B).
- Bring the carriage under the locking tube of the attachment, slightly raise the boom, tilt the carriage backwards in order to position the attachment (fig. C).
- Lift the attachment off the ground to facilitate locking.

HAND LOCKING

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

HAND RELEASING

- Proceed in the reverse order to MANUAL LOCKING, making sure 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 fully lowered in front of and parallel to the attachment, tilt the carriage forwards (fig. B).
- Bring the carriage under the locking tube of the attachment, slightly raise the boom, tilt the carriage backwards in order to position the attachment (fig. C).
- Lift the attachment off the ground to facilitate locking.

MANUAL LOCKING AND CONNECTION OF THE ATTACHMENT

A IMPORTANT A

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 (fig. A) and lock the attachment (fig. D). Do not forget to fit the cotter pin.
- Stop the I.C. 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

STANDARDISED TILTING FORK CARRIAGE

PART NUMBER Rated capacity Width Weight

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» rent

PFB 25 N MT-1020 S2 571958 2300 kg 1020 mm 71 kg **PFB 25 N MT-1260 S2 571959** 2300 kg 1260 mm 80 kg



STANDARDISED SIDE-SHIFT CARRIAGE

PART NUMBER Rated capacity Side-shift Width Weight **TDL 2T5 L1020 FEM2 751370** 2300 kg 2x100 mm 1020 mm 54 kg **TDL 2T5 L1260 FEM2 751371** 2300 kg 2x100 mm 1260 mm 67 kg



STANDARDISED FORK

PART NUMBER Section Weight **415835** 125x40x1200 mm 76 kg



LOAD BACK REST

PART NUMBER Width Weight **555320** 1020 mm 31 kg **570518** 1260 mm 35 kg



FLOATING FORK CARRIAGE

| I | PART NUMBER |
|---------|-------------|
| Rated c | apacity |
| Width | |
| Weight | |

TFF 29 MT-1040 653340 2900 kg 1040 mm 285 kg



FLOATING FORK

PART NUMBER Section Weight **211919** 125x40x1200 mm 62 kg



BUCKET WITH GRAB

| PART NUMBER |
|----------------|
| Rated capacity |
| Width |
| Grab |
| Weight |

CBG 1850 DA MS 790302 850 l 1850 mm 6 630 kg



BUCKET WITH GRAB

PART NUMBER Rated capacity Width Grab Weight **CBG 1850 DA FO 790303** 850 l 1850 mm 7 636 kg



SPREADER GRAB SHELL

PART NUMBER Rated capacity Width Grab Weight CGD 2200/1700 FO 790310 1700 l 2205 mm 9 1025 kg

SINGLE ROTOR SHELL

PART NUMBER Rated capacity Width Weight

CRS 1700/1500 DA 790331 1500 l 2030 mm 820 kg





MANURE FORK WITH GRAB

| PART NUMBER Rated capacity Width Finger Grab | FFGR 1700 751429 2,5 m3 1700 mm 8 7 | FFGR 1900 DA 751428 2,9 m3 1950 mm 9 7 | |
|-----------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight | 505 kg | 530 kg | Contraction of the second seco |

AGRICULTURAL BUCKET (CHICKEN MANURE)

| PART NUMBER |
|----------------|
| Rated capacity |
| Width |
| Weight |

CBA 1500 L2050 FP S3 653035 1507 l 2050 mm 492 kg



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BALE CLAMP

| PART NUMBER |
|----------------|
| Rated capacity |
| Width |
| Grab |
| Weight |

PBG 2X2 757639 800 kg 1090 mm 2x2 158 kg

PBE

757613 1000 kg 1600 mm 242 kg



BALE CLAMP

| PART NUMBER | PBG 2X4 757612 |
|----------------|-------------------|
| Rated capacity | 1000 kg |
| Width | 1300 mm |
| Grab | 2x4 |
| Weight | 262 kg |



| PART NUMBER | MBC 2X3 790506 |
|----------------|-------------------|
| Rated capacity | 800 kg |
| Width | 1196 mm |
| Weight | 290 kg |

BALE CLAMP

| PART NUMBER | |
|----------------|--|
| Rated capacity | |
| Width | |
| Weight | |





BALE FORK

| PART NUMBER | |
|----------------|--|
| Rated capacity | |
| Width | |
| Grab | |
| Weight | |

FB 1900/1700 790699 1700 kg 1878 mm 4 215 kg



SWEEPER COLLECTOR WITH BRUSH

| PART NUMBER |
|----------------|
| Rated capacity |
| Width |
| Weight |

BRB 1600 790313 380 l 2000 mm 775 kg



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ATTACHMENT SHIELDS FORK PROTECTOR PART NUMBER 227801 FORK BLOCK FOR FLOATING FORK CARRIAGE PART NUMBER 261210 **BUCKET PROTECTOR** Always ensure that the width of the protector you choose is less than or equal to the width of the bucket.PART NUMBER206734206732206730 Width 1375 mm 1500 mm 1650 mm PART NUMBER 235854 206728 206726 Width 1850 mm 1950 mm 2000 mm PART NUMBER 223771 223773 206724 Width 2050 mm 2100 mm 2150 mm PART NUMBER 206099 206722 223775 Width 2250 mm 2500 mm 2450 mm **MANURE FORK PROTECTOR** PART NUMBER 230689



647459 (09/09/2016) MLT 625-75 H ST3B