

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:

A IMPORTANT A

CAUTION! BE CAREFUL! YOUR SAFETY OR THE SAFETY OF OTHER PEOPLE OR 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 available 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.

INITIAL VERSION		29/05/2019
UPDATED	28/07/2020 03/06/2021	2-6; 2-19; 2-20 1-6; 1-10; 1-15; 1-25; 1-26 2-13; 2-15; 2-40; 2-50; 2-57; 2-58 3-8; 3-43
	31/01/2022	2-39

Manitou BF S.A Limited liability company with a Board of Directors. Head Office: 430 rue de l'Aubinière - 44150 Ancenis - France Share capital: \in 39,548,949 Entered in the Nantes Trade and Companies Register under No. 857 802 508. Tel.: +33 (0)2 40 09 10 11 www.manitou.com

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1 - OPERATING AND SAFETY INSTRUCTIONS

2 - DESCRIPTION

3 - MAINTENANCE

4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE



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1 - OPERATING AND SAFETY INSTRUCTIONS

1-2

RED •

SSISTANCE 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.



Regularly clean the radiator, 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 competent manager in the establishment for 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, is strictly forbidden.

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

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

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

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

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

THE LIFT TRUCK

A - SUITABILITY OF THE LIFT TRUCK 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 1.25** and a **DYNAMIC TEST COEFFICIENT OF 1**, as specified in harmonized standard **EN 1459** for mast trucks.
- Before commissioning, the company manager must make sure that the lift truck is appropriate for the work to be done, and perform certain tests (in accordance with current legislation).

B - ADAPTATION OF THE LIFT TRUCK TO STANDARD ENVIRONMENTAL CONDITIONS

- Our lift trucks are designed to be used within a temperature range of -18 °C to +43 °C.
- In addition to standard equipment mounted on your lift truck, many options are available, such as: road lighting, brake lights, rotating beacon light, reversing lights, reversing sound alarm, front working light, rear working light, boom head working light, etc. (according to the lift truck model).
- The operator must take into account the operating conditions to specify the lift truck's signaling and lighting equipment. Consult your dealer.
- Take into account the weather and atmospheric conditions of the site in use.
 - Protection against frost (</ 3 MAINTENANCE: LUBRICANTS AND FUEL).
 - Adaptation of lubricants (ask your dealer for information).
 - Engine filtration (◄ 3 MAINTENANCE: FILTER CARTRIDGES AND BELTS).

A IMPORTANT A

For operation under average climatic conditions, i.e. between -15 °C and +35 °C, the lubricants are filled in the factory.

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 coolant.

- Take into account the fire risk associated with use in dusty and flammable conditions (e.g. straw, flour, sawdust, organic waste, etc.).
- MANITOU recommends fitting your lift truck with an individual fire extinguisher to neutralize any fire as soon as it starts. Solutions exist, 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. For use in very dusty atmospheres (flour, sawdust), solutions are available. Consult your dealer.

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

- 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 suspensions. Inflate the tires in accordance with recommendations.
 - The seat is an essential way of reducing the vibrations transmitted to the operator. In the event of seat replacement, please contact MANITOU.
 - Ensure that the operators adapt their operating speed to suit the conditions on site.
 - As far as possible, arrange the site in such a way as to provide a flat running surface and remove obstacles and harmful potholes.

C - 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 EC declaration of conformity is issued. It must be kept in a safe place.
- The road traffic rules of lift trucks are subject to the provisions of the highway code, according to the following categories:
 - Construction-type trucks (MT range): public works vehicle not predominantly for use on roads (point 6.9 of Article R311-1 of the French Highway Code). The truck must have a 25 disc displayed on the rear of the vehicle and an operating license plate.
 - Agricultural-type trucks (MLT range) that are non-EC type approved tractors: (point 6.2 of Article R311/1 of the French Highway Code). The truck must be fitted with an operating license plate.
 - Agricultural-type trucks (MLT range) that are EC type approved tractors: agricultural tractor type T1a (point 5.1.1 of Article R311/1 of the French Highway Code). The 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 a category B driver's license, 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 traveling 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).

🛦 IMPORTANT 🛕

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

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

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.

MAINTENANCE

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

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)".

1-9

INSTRUCTIONS FOR THE OPERATOR

INTRODUCTION

A IMPORTANT A

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

Failure to comply with the safety instructions and instructions for the use, repair or servicing of your lift truck may result in serious or even fatal accidents.

- Only the operations and maneuvers described in these operator's manual must be performed. The manufacturer cannot predict all possible risky situations. Consequently, the safety instructions given in the operator's manual and on the 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 prevent any danger with a MANITOU-approved attachment, follow the instructions in paragraph: 4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR 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 - AUTHORIZATION 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 where the lift truck is to be used and must be carried permanently by the operator.
- The operator is not competent to authorize the driving of the lift truck by another person.

C - MAINTENANCE

- The operator must immediately advise his superior if his lift truck is not in good working order or does not comply with the safety notice.
- The operator is prohibited from carrying out any repairs or adjustments himself, unless he has been trained for this purpose. He must keep the lift truck properly cleaned if this is among his responsibilities.
- The operator is responsible for carrying out daily maintenance (</ 3 MAINTENANCE).
- The operator is responsible for deciding and adjusting the frequency of cleaning needed to prevent the risk of fire ensuing from the build-up of flammable material(s). The operator should pay special attention to all the areas of the lift truck where these high-risk materials are likely to accumulate (e.g. engine compartment, under the boom, above the axles, etc.).

D - TIRES

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

A IMPORTANT A

Do not use the lift truck if the tires 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 tires is prohibited and is not guaranteed by the manufacturer unless with prior authorization.

E - 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.

F - LIFTING PEOPLE

- The use of working equipment and load lifting attachments to lift people is:

- either forbidden
- or authorized exceptionally and under certain conditions (</ regulations in force in the country in which the 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).



A - BEFORE STARTING THE LIFT TRUCK

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

B - AVAILABLE IN THE DRIVER'S CAB

- Whatever his experience, the operator is advised to familiarize himself with the position and operation of all the controls and instruments before operating the lift truck.
- Wear clothes suited for driving the lift truck, avoid loose clothes.
- Make sure you have the appropriate protective equipment for the task to be performed.
- Prolonged exposure to high noise levels may cause hearing problems. It is recommended to wear ear muffs to protect against excessive noise.
- Always face the driver's cab access when getting in and out of the lift truck and use the handle(s) provided for this purpose. Do not jump out of the lift truck 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 be used for any other than their intended purposes (e.g. climbing onto or down from the lift truck, coat hanger, etc.).
- If the control components are fitted with a forced operation (lever lock) device, it is forbidden to leave the cab without first putting these controls in neutral.
- It is prohibited to carry passengers either on the lift truck or in the driver's 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 observe the instructions given in the paragraph: INSTRUCTIONS FOR HANDLING A LOAD: D TRANSVERSE ATTITUDE OF THE LIFT TRUCK.
- Traveling on a longitudinal slope:
 - Drive and brake gently.

Moving without load: Forks or attachment facing downhill.



Moving with load: Forks or attachment facing uphill.

- Take into account the lift truck's dimensions and its load before trying to negotiate a narrow or low passageway.
- Never move onto a load bridge without having first checked:
 - That it is suitably positioned and made fast.
 - That the unit to which it is connected (wagon, truck, etc.) will not shift.
 - That this 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 with the 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 jeopardizes the stability of the lift truck and its load, particularly if the load catches the wind badly.

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

D - VISIBILITY

- The safety of people within the 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 during running operations, unladen and 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 maneuver (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 attachments 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 maneuver (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 maneuver (while standing outside the truck's area of travel), making sure to keep this person clearly in view at all times.
- Keep all components affecting visibility in a clean, properly adjusted state and in good working order (e.g. windscreens, windows, windscreen wipers, windscreen washers, driving and work lights, rear-view mirrors).

E - STARTING THE LIFT TRUCK

SAFETY INSTRUCTIONS

A IMPORTANT A

The lift truck must only be started up or maneuvered 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 pulling it. Such an operation may cause severe damage to the transmission. If necessary, towing requires the transmission to be put in neutral (
- 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 engaged.
- Firmly press the brake pedal and hold in position and hold it down.
- Turn the ignition key to the position I to activate the electrical and preheat system.
- Whenever you switch on the lift truck, perform the automatic check on the longitudinal stability limiter and warning device (
 2 DESCRIPTION: INSTRUMENTS AND CONTROLS). Do not use a lift truck that is non-compliant.
- 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

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

- Risk of losing control.

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

The operator must remain in control of the lift truck. In the event of the lift truck overturning, do not try to leave the cabin during the incident.

YOUR BEST PROTECTION IS TO STAY FASTENED IN THE CABIN.

- Observe the company's traffic regulations or, by default, the public highway code.
- Do not carry out operations which exceed the capacities of your lift truck or attachments.
- Always drive the lift truck with the forks or attachment to the transport position, i.e. at 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 pallets, cases, etc. are in good order and suitable for the load to be lifted.
- Familiarize 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 maneuver 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 (< 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).
- Select the steering mode appropriate for the use and/or working conditions (< 2 DESCRIPTION: INSTRUMENTS AND CONTROLS) (depending on lift truck model).
- Release the parking 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 moving the lift truck on a slope may be a real hazard. If the lift truck is parked or stopped, adhere scrupulously to the following instructions for moving it: - Press the service brake pedal. - Release the parking brake.

- Select the appropriate gear. (depending on lift truck model)

- Select forward or reverse direction.

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

- Release the service brake pedal and accelerate the engine.

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

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.
- Apply the parking brake.
- 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...).
- Activate the battery cut-off in accordance with the recommendations (<2 DESCRIPTION: INSTRUMENTS AND CONTROLS).

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 license 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 license, unless granted an exemption.
- When towing a trailer or agricultural equipment, the travel 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.

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" (< 2 DESCRIPTION: INSTRUMENTS AND CONTROLS) (depending on lift truck model).
- Fully retract the boom and set the attachment approximately 300 mm off the ground.
- Place the slope compensation in the central position, i.e. the transverse axis of the axles parallel to the frame (depending on the lift truck model).
- Fully raise the stabilizers and turn the shoes inwards (depending on the 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 (< 4 OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE).
 - The attachment must not be loaded.
 - Make sure that the attachment does not mask the lighting range of the forward lights.
 - Make sure that current legislation in your country does not require other obligations.

OPERATING THE 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 authorized by the manufacturer (consult the manufacturer's plate on your lift truck).
- The authorized gross vehicle weight must not exceed the maximum weight authorized by the manufacturer (< 2 DESCRIPTION: SPECIFICATIONS).

IF NECESSARY, CONSULT YOUR DEALER.

1 - 17

A - CHOICE OF ATTACHMENTS

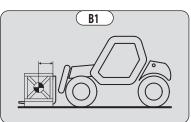
- Only attachments approved by MANITOU can be used on its lift trucks.
- Make sure the attachment is suitable for the work to be done (4 OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE).
- If the lift truck is equipped with the single side-shift carriage OPTION (TSDL), use only the authorized attachments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

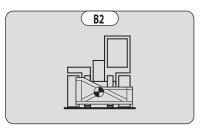
B - WEIGHT OF LOAD AND CENTER OF GRAVITY

- Before picking up a load, you must know its weight and its center of gravity.
- The longitudinal position of the center of gravity in relation to the heel of the forks (fig. B1) is defined on the load chart concerning your lift truck (< 2 DESCRIPTION: LOAD CHARTS). For loads with center of gravity exceeding this distance, contact your dealer.
- For irregular loads, determine the transverse center of gravity before any handling (fig. B2) and place it in the longitudinal axis of the lift truck.

A IMPORTANT A

It is forbidden to handle a load heavier than the effective capacity specified on the truck's load chart. For loads with a moving center of gravity (e.g. liquids), take account of the variations in the center of gravity in order to determine the load to be handled and be extra vigilant and careful to limit these variations as far as possible.



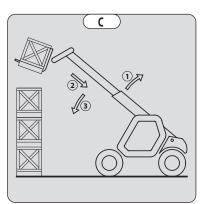


C - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE

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,
- $\boldsymbol{\cdot}$ when the lift truck is on firm, stable and consolidated ground,
- when the lift truck is performing handling and placing operations.
- Move the boom very carefully when approaching the authorized load limit (</ 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).
- Always watch this device during handling operations.
- If the "AGGRAVATING" hydraulic movements are cut off, perform only de-aggravating hydraulic movements in the following order (fig. C): if necessary, raise the boom (1), retract the boom as far as possible (2) and lower the boom (3) to put down the load.

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

1 - LIFT TRUCK WITHOUT LEVELING USED ON TIRES

- Position the lift truck so that the spirit level bubble is between the two lines (< 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).
- 2 LIFT TRUCK WITH LEVELING USED ON TIRES
 - Correct the tilt using the hydraulic control and check the horizontality with the spirit level. The bubble of the level must be between the two lines (< 2 DESCRIPTION: INSTRUMENTS AND CONTROLS).
- 3 LIFT TRUCK USED ON STABILIZERS
 - Put the two stabilizers on the ground and raise the two front wheels of the lift truck (fig. D1).
 - Correct the tilt using the stabilizers (fig. D2) and check the horizontality with the
 - spirit level. The bubble of the level must be between the two lines (≪ 2 DESCRIPTION: INSTRUMENTS AND CONTROLS). In this position, the two front wheels must be off the ground.

E - PICKING UP A LOAD ON THE GROUND

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

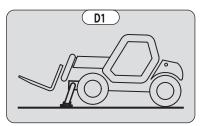
A IMPORTANT A

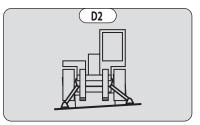
Beware of the risks of trapping or squashing limbs when manually adjusting the forks.

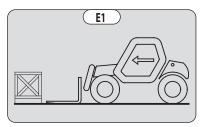
- Move the lift truck forward slowly (1) and bring the forks up to the stop in front of the load (fig. E3). If necessary, slightly lift the boom (2) while picking up the load.
- Bring the load into the transport position.
- Tilt the load far enough backwards to ensure stability (loss of load on braking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

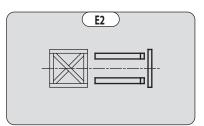
FOR A NON-PALLETIZED LOAD

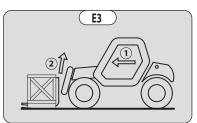
- Tilt the carriage (1) forwards and move the lift truck slowly forwards (2), to insert the fork under the load (fig. E4) (chock the load if necessary).
- Continue to move the lift truck forwards (2) tilting the carriage (3) (fig. E4) backwards to place the load on the forks and ensure the load's longitudinal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

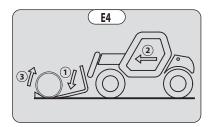












F - PICKING UP AND PUTTING DOWN A HIGH LOAD ON TIRES

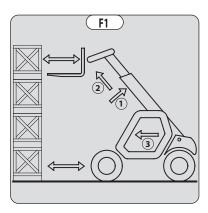
A IMPORTANT A

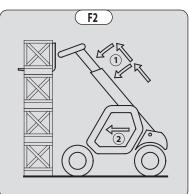
In no circumstances should you raise the boom if you have not checked the transverse attitude of the lift truck (≪ INSTRUCTIONS FOR HANDLING A LOAD: D - TRANSVERSE ATTITUDE OF THE LIFT TRUCK).

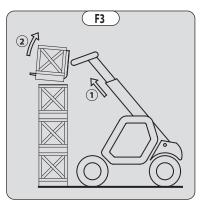
REMINDER: Make sure that the following operations can be performed with good visibility (I OPERATING INSTRUCTIONS UNLADEN AND LADEN: D - VISIBILITY).

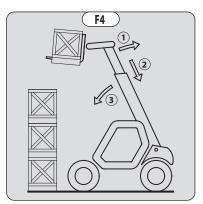
PICKING UP A HIGH LOAD ON TIRES

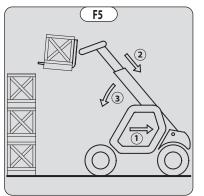
- Ensure that the forks will easily pass under the load.
- Raise and extend the boom (1) (2) until the forks are at the level of the load. If necessary, move the lift truck (3) forward (fig. F1), driving very slowly and carefully.
- Always remember to keep the distance necessary for inserting the forks under the load, between the stack and the lift truck (fig. F1) and use the shortest possible boom length.
- Bring the forks to the stop in front of the load by alternately extending and lowering the boom (1) or, if necessary, moving the lift truck forward (2) (fig. F2). Apply the parking brake 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 (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 picked up.
- If possible lower the load without moving the lift truck. Raise the boom (1) to release the load, retract (2) and lower the boom (3) to bring the load into the transport position (fig. F4).
- If this is not possible, reverse the lift truck (1), driving very slowly and carefully to release the load. Retract (2) and lower the boom (3) to bring the load into the transport position (fig. F5).





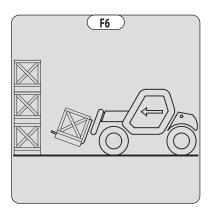


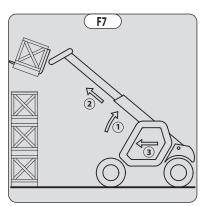


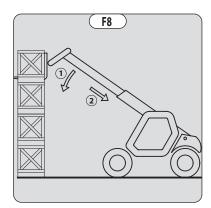


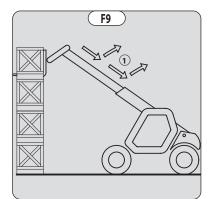
PUTTING DOWN A HIGH LOAD ON TIRES

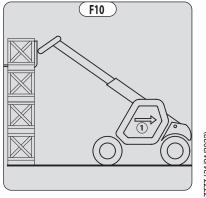
- Approach the load in the transport position in front of the stack (fig. F6).
- Apply the parking brake and place the forward/reverse selector in neutral.
- Raise and extend the boom (1) (2) until the load is above the stack, while monitoring the longitudinal stability limiter and warning device (< 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 put it down on the pile by lowering and retracting the boom (1) (2) in order to position the load correctly (fig. F8).
- If possible, release the forks by alternately retracting and raising the boom (1) (fig. F9). Then set the forks into transport position.
- If this is not possible, reverse the lift truck (1), maneuvering very slowly and carefully to release the forks (fig. F10). Then set the forks into transport position.











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

Depending on the model of lift truck

A IMPORTANT A

In no circumstances should you raise the boom if you have not checked the transverse attitude of the lift truck (≪ 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 (Visibility (OPERATING INSTRUCTIONS UNLADEN AND LADEN:D - VISIBILITY).

The stabilizers are used to optimize the lift truck's lifting performance (<>12 - DESCRIPTION: INSTRUMENTS AND CONTROLS).

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

- Set the forks in transport position in front of the elevation.
- Stay far enough away to allow the boom to be raised.
- Apply the parking brake and place the forward/reverse selector in neutral.
- Put the two stabilizers on the ground and lift the two front wheels of the lift truck (fig. G1), making sure the lift truck has transverse attitude.

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

- Raise both stabilizers fully and at the same time.

LOWERING THE STABILIZERS WITH BOOM UP (UNLADEN AND LADEN)

A IMPORTANT A

This operation must be exceptional and performed with great care.

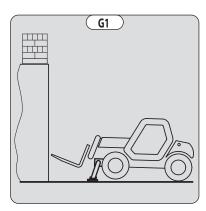
- Raise the boom and retract the telescopes completely.
- Bring the lift truck into position in front of the elevation (fig. G2) moving very slowly and carefully.
- Apply the parking brake and place the forward/reverse selector in neutral.
- Move the stabilizers very slowly and gradually as soon as they 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.

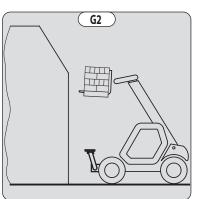
SETTING THE STABILIZERS WITH THE BOOM UP (UNLADEN AND LADEN)

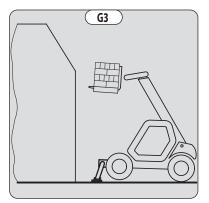
A IMPORTANT A

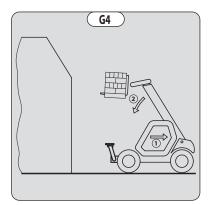
This operation must be exceptional and performed with great care.

- Keep the boom raised and retract the telescopes completely (fig. G3).
- Move the stabilizers very slowly and gradually as soon as they are in contact with the ground and when they leave the ground. During this operation, transverse attitude must be permanently maintained: the bubble in the level must be kept between the two lines.
- Raise both stabilizers completely.
- 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).



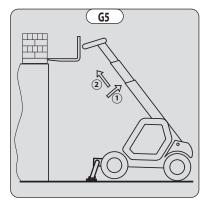


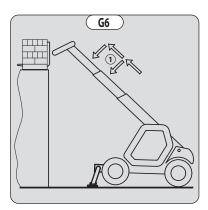


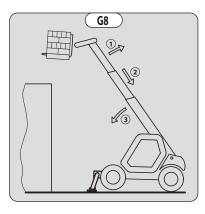


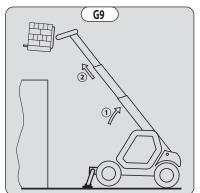
PICKING UP A HIGH LOAD ON STABILIZERS

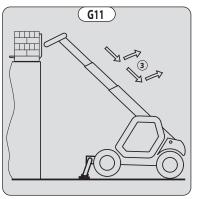
- Ensure that the forks will easily pass under the load.
- Check the position of the lift truck with respect to the load and make a test run, if necessary, without taking the load.
- Raise and extend the boom (1) (2) until the forks are at the level of the load (fig. G5).
 Bring the forks to the stop in front of the load by alternately extending and lowering the boom (1) (fig. G6).
- Lift the load slightly (1) and tilt the carriage (2) backwards to stabilize the load (fig. G7).
- Monitor the longitudinal stability limiter and warning device (</ 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 picked up.
- If possible lower the load without moving the lift truck. Raise the boom (1) to release the load, retract (2) and lower the boom (3) to put the load into transport position (fig. F4).

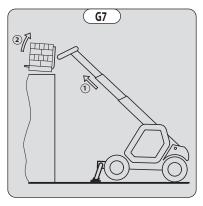






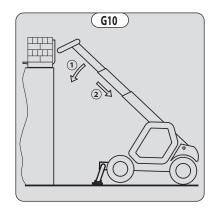






SETTING DOWN A HIGH LOAD ON STABILIZERS

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



H - PICKING UP AND PUTTING DOWN A SUSPENDED LOAD

A IMPORTANT A

Failure to follow the above instructions may lead the lift truck to lose 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 stabilizers or on tires, the lateral attitude must not exceed 1 % and the longitudinal attitude must not exceed 5 %: the bubble of the level must be held at "0".
- Ensure that the wind speed is not higher than 10 m/s.
- Ensure that there is no one between the load and the lift truck.

I - TRAVELING WITH A SUSPENDED LOAD

- Before moving, inspect the terrain in order to avoid excessive slopes and cross-falls, bumps and potholes, or soft ground.
- Ensure that the wind speed is not higher than 36 km/h.
- 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 minimize swinging of the load.
- Carry the load a few centimeters above the ground (max. 30 cm) the shortest possible boom 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 boom to set down the load.
- Before moving the lift truck, check the longitudinal stability limiter and warning device (< 2 DESCRIPTION: INSTRUMENTS AND CONTROLS), only the green LEDs and possibly 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 boom angle must not exceed 45°.
- If the first red LED of the longitudinal stability limiter and warning device (< 2 DESCRIPTION: INSTRUMENTS AND CONTROLS) comes on while traveling, gently bring the lift truck to a halt and stabilize the load. Retract the telescope to reduce the offset of the load.

INSTRUCTIONS FOR USE AS A LOADER

For agricultural-type lift trucks (MLT range)

A - LOADING

A IMPORTANT A

In no circumstances should you raise the boom if you have not checked the transverse attitude of the lift truck (≪ 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 (
OPERATING INSTRUCTIONS UNLADEN AND LADEN: D - VISIBILITY).

FILLING THE BUCKET

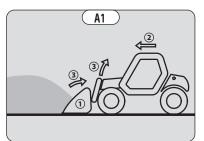
- Place the bottom of the bucket in a horizontal position, just in contact with the ground (1) (fig. A1).
- Move forward gradually (2) while simultaneously raising the boom and tilting the bucket backwards (3), for improved filling and breakout (fig. A1).
- Reverse the lift truck (1) very carefully and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

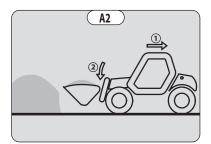
A IMPORTANT A

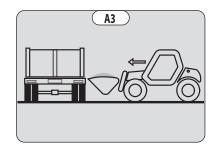
Tilt the bucket sufficiently back to avoid spilling product and ensure its stability (loss of product under braking).

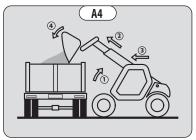
LOADING A TRAILER

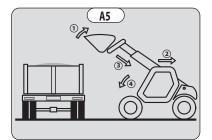
- Approach the side of the trailer in the transport position (fig. A3).
- Raise and extend the boom (1) (2) until the bucket is above the trailer, while monitoring the longitudinal stability limiter and warning device (◄ INSTRUCTIONS FOR HANDLING A LOAD: C LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE) (fig. A4).
- Drive the lift truck forward (3) very carefully and gently so that the bucket empties its load in the center of the trailer (fig. A4).
- Immobilize the lift truck with the service brake pedal and put the reversing shift lever in neutral.
- NOTE: Immobilizing the lift truck with the service brakes means that the transmission should be in neutral. Failure to follow this recommendation may lead to overheating and damage to the brakes.
- Slowly discharge the product (4) (fig. A4).
- Tilt the bucket backwards (1) and reverse the lift truck (2) very carefully and gently (fig. A5).
- Retract (3) and lower the boom (4) into the transport position (fig. A5).

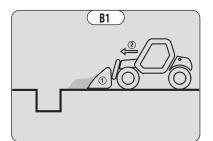












B - BACKFILLING

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

A IMPORTANT A

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

PLATFORM OPERATING INSTRUCTIONS

For lift trucks fitted with a PLATFORM

A - AUTHORIZATION FOR USE

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

B – SUITABILITY OF THE PLATFORM FOR THE JOB

- Our lift trucks fitted with "mobile elevating work platforms" are compliant with the standard **EN 280:2013+A1:2015** for Europe and the standard **AS/NZS 1418.10:2011** for Australia, corresponding to the classification of Group C1 to C3 complying with this standard.
- MANITOU has ensured that this platform is suitable for use under the normal operating conditions provided in this operator's manual, with a **STATIC test coefficient of 1.25** and a **DYNAMIC test coefficient of 1.1** as specified in harmonized European standard **EN 280:2013+A1:2015** 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 - PROVIDED ON 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.

NOTE: Make sure that current legislation in your country does not include the obligation to wear a harness.

- The control units must never be used for any other than their intended purposes (e.g. climbing onto or down from the lift truck, coat hanger, 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 constraints are limited (2 DESCRIPTION: SPECIFICATIONS).
- It is strictly forbidden to suspend a load from the platform or the lift truck boom without an attachment provided for this (</ INSTRUCTIONS FOR HANDLING A LOAD: H PICKING UP AND PUTTING DOWN A SUSPENDED LOAD).
- The platform cannot be used as a crane or a lift for permanently transporting people or materials, nor as jacks or supports.
- The 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 (boom 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	SAFETY DISTANCE (METERS)	
50 < U < 1,000	2,30 M	
1,000 < U < 30,000	2,50 M	
30,000 < U < 45,000	2,60 M	
45,000 < U < 63,000	2,80 M	· · · · · · · · · · · · · · · · · · ·
63,000 < U < 90,000	3,00 M	
90,000 < U < 150,000	3,40 M	
150,000 < U < 225,000	4,00 M	
225,000 < U < 400,000	5,30 M] i
400,000 < U < 750,000	7,90 M	

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

- To visually recognize 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
5	Fresh breeze	17 - 21	29 - 38	8 - 10.7	Small tees in leaf begin to sway.	whitecaps. 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

A IMPORTANT A

Your platform must be inspected periodically to ensure that it remains in compliance. The frequency of this inspection is defined by the current legislation in force in the country in which the equipment is used In France, a general periodic inspection every 6 months (Decree of March 1, 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 neighboring items.

Everyone working with this radio-control:

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

- Must follow this instruction manual as closely as possible.

- The system is used to control the 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 immobilized within a maximum of 450 milliseconds (approx. 0.5 second):

- If the emergency stop button of the transmitter is pressed (50 milliseconds), or that of the 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 modified, removed or bypassed in any way whatsoever!
- The hand-guard frame prevents external action on a joystick (e.g. if the transmitter is dropped, or if the operator leans on a guard-rail).
- An electronic safety device prevents radio transmission from being initiated if the joysticks are not mechanically and electrically at rest and if the internal combustion engine speed selector is not set to idle.

A IMPORTANT A

In an emergency, press the transmitter emergency stop button immediately; then follow the manual's instructions (42 - DESCRIPTION: INSTRUMENTS AND CONTROLS).

1 - 29

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 jewelery and loose clothes. Tie back 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.
- Ensure that process materials and of spare parts are disposed in all safely and in an ecological manner.
- Be careful of the risk of burns and splashing (exhaust, radiator, engine, etc.).

PLACING THE BOOM SAFETY WEDGE

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

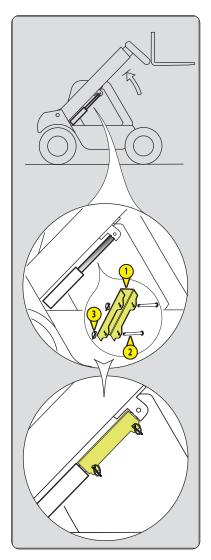
FITTING THE WEDGE

- Fully raise the boom.
- 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 boom then stop the hydraulic movements before it comes into contact with the wedge.

REMOVING THE WEDGE

- Fully raise the boom.
- 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 (< 3 - MAINTENANCE) to keep your lift truck in good working condition. Failure to perform periodic maintenance may invalidate the contractual warranty.

MAINTENANCE LOGBOOK

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

LUBRICANT AND FUEL LEVELS

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

HYDRAULICS

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

A IMPORTANT A

COUNTERBALANCE VALVE: It is dangerous to change the settings and remove the counterbalance valves or safety valves which may be fitted to your lift truck's cylinders. The HYDRAULIC ACCUMULATORS that may be fitted on your lift truck are pressurized 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 place metal 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 tire. The heat would increase the pressure which could cause the tire to explode.
- If the lift truck is equipped with an electronic control unit, disconnect this before starting to weld, to avoid the risk of causing irreparable damage to electronic components.

WASHING THE LIFT TRUCK

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

TRANSPORTING THE LIFT TRUCK

A IMPORTANT A

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

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

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

INTRODUCTION

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

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 period of long-term stoppage must not exceed 12 months.

After 12 months, repeat the procedures for putting the lift truck back into service and long-term shutdown.

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.
- Stop the lift truck (◄ OPERATING INSTRUCTIONS UNLADEN AND LADEN).
- Make sure the boom cylinder rods are all in the retracted position.
- Release the pressure in the hydraulic circuits.

DEF (Diesel Exhaust Fluid) TANK

Depending on the model of lift truck

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

PROTECTING THE ENGINE

- Contact your dealer to obtain the procedure for protecting the inside of the engine (use of protection product).
- Fill the tank with fuel (< 3 MAINTENANCE).
- Drain and replace the coolant (</ 3 MAINTENANCE).
- Leave the engine running at idling speed for a few minutes, then switch off.
- Replace the engine oil and oil filter (</ 3 MAINTENANCE).
- Run the engine for a short time so that the oil and 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 off the ground.
- Release the parking brake (depending on lift truck model).
- 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 maintenance operations (</ 3 MAINTENANCE).
- Apply the parking brake and remove the axle stands.
- Drain and clean the fuel tank (</ 3 MAINTENANCE).
- Fill the fuel tank with clean diesel filtered through the filler port.
- Replace the fuel filter (< 3 MAINTENANCE).
- Replace the fuel pre-filter (</ 3 MAINTENANCE) (depending on the model of lift truck).
- Drain and rinse the DEF tank (depending on the model of lift truck).
- Top up, slowly fill the tank with new "DEF" (Diesel Exhaust Fluid) up to the bottom of the filler neck (depending on the model of lift truck).
- Refit the drive belts and adjust the tension (</ 3 MAINTENANCE).
- Turn the engine over with the starter, to allow the oil pressure to rise.
- Reconnect the engine cut-off solenoid.
- Lubricate the lift truck completely (</ 3 MAINTENANCE).

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 (< OPERATING INSTRUCTIONS UNLADEN AND LADEN).
- Carry out all the boom hydraulic movements, concentrating on the ends of travel for each cylinder.

A IMPORTANT A

Please consult your dealer before disposing of your lift truck.

RECYCLING OF MATERIALS

METALS

• Metals are 100% recoverable and recyclable.

PLASTICS

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

RUBBER

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

GLASS

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

ENVIRONMENTAL PROTECTION

By entrusting the maintenance of your 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 organizes the collection and processing of used oil.
- By handing over your waste oil to MANITOU, the risk of pollution is limited.

USED BATTERIES

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

NOTE: MANITOU seeks to manufacture lift trucks providing the best performance and limiting polluting emissions.

2 - DESCRIPTION

2 - 2

2 - DESCRIPTION

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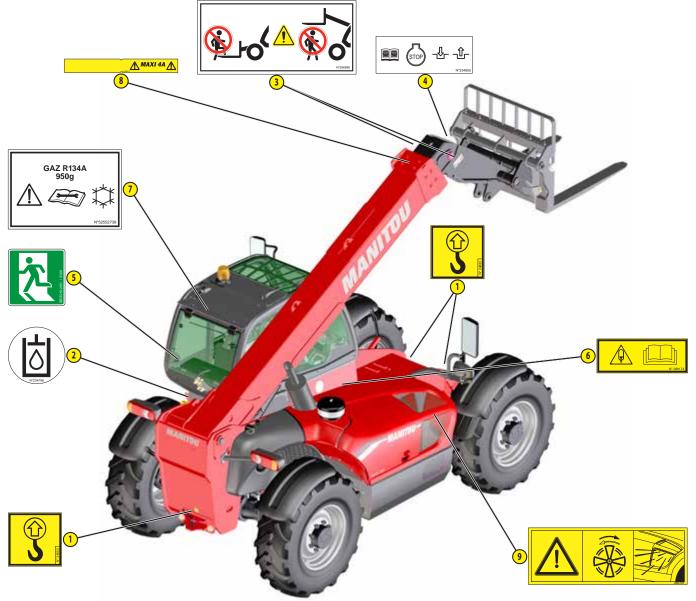
SAFETY PLATES AND STICKERS

A IMPORTANT A

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

EXTERNAL PLATES AND STICKERS

ITEM	PART NUMBER	DESCRIPTION
1	24653	- Slinging point
2	234798	- Hydraulic fluid
3	296998	- Safety instruction
4	234805	- Hydraulic coupling instruction
5	52567646	- Emergency output
6	288174	- Accumulator instructions
7	52552739	- Air conditioning (OPTION)
8	256513	- Boom electrical predisposition (OPTION)
9	250707	- Fan reversal (OPTION)

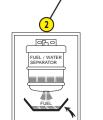


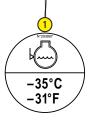
STICKERS AND PLATES UNDER THE ENGINE HOOD

ITEM	PART NUMBER	DESCRIPTION
1	293887	- Anti-freeze
2	259398	- Water/diesel separator
3	233088	- Preheat rod (OPTION)







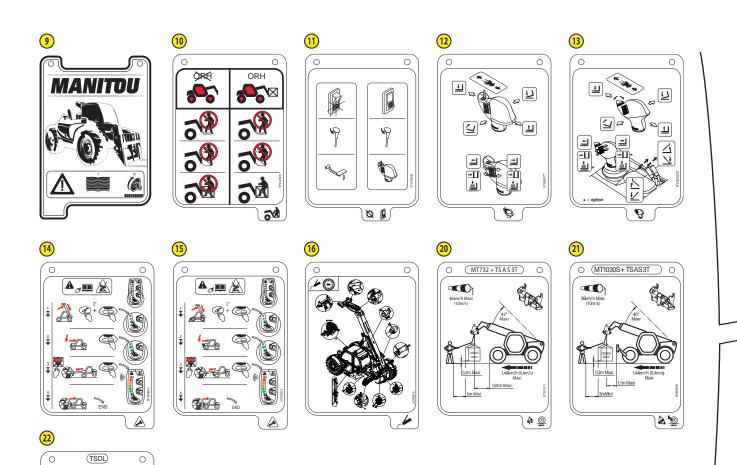


PLATES AND STICKERS IN THE CAB

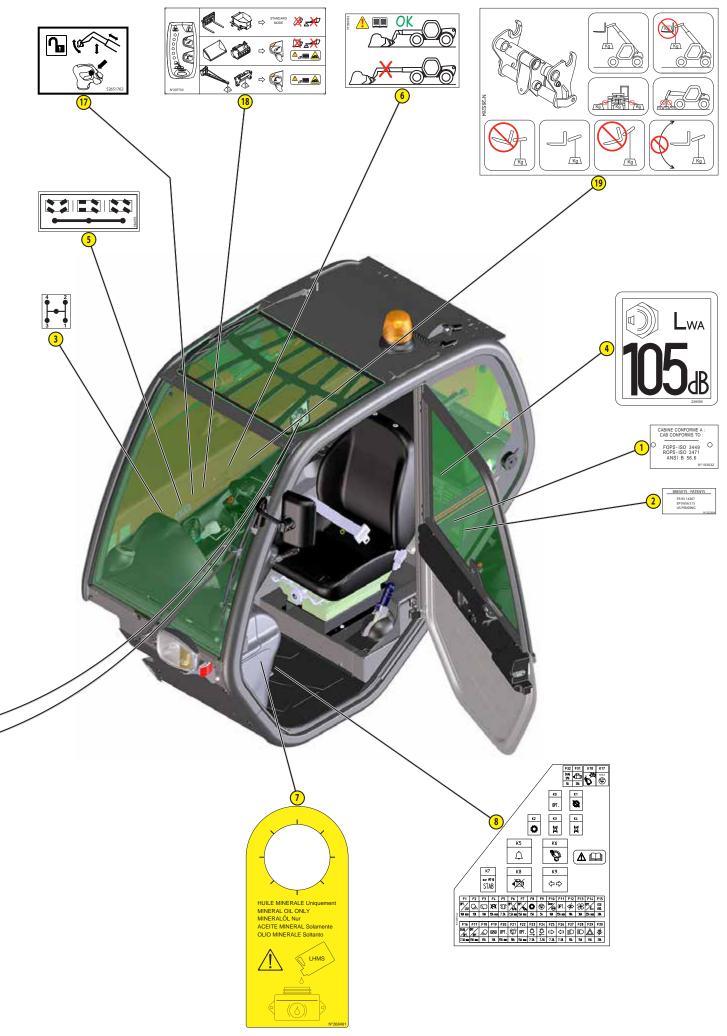
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ITEM	PART NUMBER	DESCRIPTION
1	193032	- Cab compliance
2	223324	- Patents
3	33460	- Gear selection
4	239595	- Sound power level 105 dB
5	184276	- Steering selection control
6	290183	- Bucket instruction on telescope
7	268491	- Brake fluid instruction
8	52653818	- Fuses
9	52503175	- Reach chart sheet
10	241621	- Safety instruction
11	272040	- Transmission cut-off switch function
12	286277	- Joystick function MT-X 733 95P ST3A S1
13	52552257	- Joystick function MT-X 1033 100P ST3A S1
14	294831	- Rebalancing procedure MT-X 733 95P ST3A S1
15	295054	- Rebalancing procedure MT-X 1033 100P ST3A S1
16	52599676	- Lubrication sheet
17	52651762	- Hydraulic controls activation
18	297733	- Operating mode management instruction (OPTION)
19	265284	- Lifting ring on single carriage (OPTION)
20	267425	- Load chart for lifting ring on single carriage (OPTION) MT-X 733 95P ST3A S1
21	266915	- Load chart for lifting ring on single carriage (OPTION) MT-X 1033 100P ST3A S1
22	241645	- Using bucket on TSDL (OPTION) MT-X 1033 100P ST3A S1



647777 (31/01/2022) MT-X 733 95P/1033 100P ST3A S1



IDENTIFICATION OF THE LIFT TRUCK

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

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

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

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

LIFT TRUCK MANUFACTURER'S PLATE



ENGINE	
	1
"TPL No" Temporary parts list number	
"LIST No" List number	
"SERIAL No" Serial number	
" ТҮРЕ " Туре	



GEARBOX

MANITOU Part No.	
Туре	
Serial Number	



ANGLE GEAR-BOX

MANITOU Part No.	
Туре	
Serial Number	





REAR AXLE

FRONT AXLE

Type Serial Number MANITOU Part No.

Туре	
Serial Number	
MANITOU Part No.	





BOOM

CAB

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

boom	
MANITOU Part No.	
Date of manufacture and manufacturer	



CHASSIS

Serial number / Product Identification Number

ATTACHMENT MANUFACTURER'S PLATE

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





2 - 11

SPECIFICATIONS MT-X 733 95P ST3A S1

ENGINE		
Туре		PERKINS 1104D-44T NL38857
Fuel		Diesel
Number of cylinders		4 in line
Suction		Supercharged
Injection system		Direct
Ignition sequence		1.3.4.2
Displacement	cm3	4400
Bore and stroke	mm	105 x 127
Compression ratio		18,2:1
Nominal speed laden	rpm	2200
Min. rpm unladen	rpm	930
Max. rpm unladen	rpm	2380
Power ISO/TR 14396	hp - kW	95 - 70
Power SAE J 1995	hp - kW	95 - 70
Maximum torque ISO/TR 14396	Nm	392 at 1,400 rpm
Air filtration efficiency	%	99,9
Type of cooling		Coolant
Fan		Suction

TRANSMISSION		
Gearbox		TURNER
- Туре		Mechanics
- Shuttle lever		Electro-hydraulics
- Torque converter		SACHS
- Number of forward speeds		4
- Number of reverse speeds		4
Angle gearbox		TURNER
Front axle		DANA
- Differential		Limited slip
Rear axle		DANA
- Differential		Without locking
Drive wheels		Permanent 4 WD
- 2/4 wheel drive control		No
Front tires		ALLIANCE
- Size		400/80-24 A325 162A8 ATG
- Pressure	bar	3
Rear tires		ALLIANCE
- Size		400/80-24 A325 162A8 ATG
- Pressure	bar	3

ELECTRIC CIRCUIT		
Dattant	STANDARD	12 V - 110 Ah - 750 A EN
Battery	OPTION	12 V - 145 Ah - 1000 A EN
Alternator		12 V - 85 A
- Type		Denso Ai115
Starter		12 V - 3,2 kW
- Type		AZE

BRAKE SYSTEM	
Service brake	Hydraulic power brake
- Type of brake	Oil-immersed multi-disc
- Type of control	Foot-operated for the front and rear axles
Parking brake	Mechanics
- Type of brake	Disk on gearbox output
- Type of control	Manual

SOUND AND VIBRATION		
Sound pressure level in the driver's cab LpA		79 (cab closed) (xx (cab open)
(according to standard NF EN 12053)	dB(A)	78 (cab closed) ; xx (cab open)
Sound pressure (according to Directive 2009/76)	dB(A)	xx (cab closed) ; xx (cab open)
Guaranteed sound power level in the environment LwA	dB(A)	104 (measured) ; 105 (guaranteed)
(according to Directive 2000/14/EC modified by Directive 2005/88/EC)	UD(A)	104 (measured), 105 (guaranteed)
Sound level in motion (according to Directive 2009/63)	dB(A)	XX
Average weighted acceleration on driver's body	m/s2	xx
(according to standard NF EN 13059)		XX
The average weighted acceleration transmitted to the driver's hand	d/ m/s2	< D 5
arm system (according to standard ISO 5349-2)	111/52	< 2,5
Standard seat vibration	m/s2	xx (lightweight operator) ; xx (heavyweight operator)

HYDRAULIC CIRCUIT			
Hydraulic pump			
- Туре		Gear pump wi	th flow divider
		1st housing	2nd housing
- Displacement	cm3	22	22
- Max. rating capacity unladen	l/min	52	52
- Flow at 1600 rpm	l/min	35	35
Filtration			
- Back	μm	10	10
- Suction	μm	125	125
Maximum working pressure	bar	25	50
- Telescoping circuit	bar	190,	/ 250
- Lift circuit	bar	250	/ 250
- Tilt circuit	bar	250	/ 190
- Attachment circuit	bar	25	50
- Steering circuit	bar	14	40

HYDRAULIC MOVEMENTS		
Longitudinal stability limiter and warning device		Electronics
Lifting motions (boom retracted)		
- Unladen lifting	s - m/min	7,2 - 37,6
- Laden lifting	s - m/min	7,2 - 37,6
- Unladen lowering	s - m/min	5,5 - 49,2
- Laden lowering	s - m/min	5,8 - 46,6
Telescoping motions (boom raised)		
- Unladen extending	s - m/min	6,5 - 24,9
- Laden extending	s - m/min	6,5 - 24,9
- Unladen retracting	s - m/min	5,4 - 30
- Laden retracting	s - m/min	5,9 - 27,5
Tilting movements		
- Unladen digging	s - °/s	2,9 - 43,3
- Unladen dump	s - °/s	2,8 - 44,9

SPECIFICATIONS AND WEIGHTS

SPECIFICATIONS AND WEIGHTS		
Speed of movement for lift truck in standard configuration on f	lat	
ground		
- Front unladen 1	km/h	4,4
2	km/h	7
3	km/h	15
4	km/h	25
- Rear unladen 1	km/h	4,4
2	km/h	7
3	km/h	15
4	km/h	25
Standard attachment		TFF 35 MT 1040
- Weight of attachment (without forks)	kg	165
- Weight of forks (each)	kg	67,5
Rated capacity with standard attachment	kg	3300
Tipping load at maximum reach on tires	kg	1100
Distance from the center of gravity of the load to the base of the fo	rks_mm	500
Standard lifting height	mm	6900
Lift truck weight without attachment	kg	6320
Weight of lift truck with standard attachment		
- Unladen	kg	6620
- At rated load	kg	9920
Weight per axle with standard attachment (transport position)		
- Front unladen	kg	3200
- Rear unladen	kg	3420
- Front rated load	kg	8580
- Rear rated load	kg	1340
Weight per axle with standard attachment (boom extended)		
- Front rated load	kg	7120
- Rear rated load	kg	600
Tractive effort on the coupling hook		
- Unladen (sliding)	daN	5295
 At rated load (transmission setting) 	daN	9000
Break-out force with bucket (according to standard ISO 8313)	daN	7400

SPECIFICATIONS MT-X 1033 100P ST3A S1

ENGINE		
Туре		PERKINS 1104D-44TA NM38858
Fuel		Diesel
Number of cylinders		4 in line
Suction		Supercharged
Injection system		Direct
Ignition sequence		1.3.4.2
Displacement	cm3	4400
Bore and stroke	mm	105 x 127
Compression ratio		18,2:1
Nominal speed laden	rpm	2200
Min. rpm unladen	rpm	930
Max. rpm unladen	rpm	2400
Power ISO/TR 14396	hp - kW	101 - 74,5
Power SAE J 1995	hp - kW	101 - 74,5
Maximum torque ISO/TR 14396	Nm	410 at 1,400 rpm
Air filtration efficiency	%	99,9
Type of cooling		Coolant
Fan		Suction

TRANSMISSION		
Gearbox		TURNER
- Туре		Mechanics
- Shuttle lever		Electro-hydraulics
- Torque converter		SACHS
- Number of forward speeds		4
 Number of reverse speeds 		4
Angle gearbox		TURNER
Front axle		DANA
- Differential		Limited slip
Rear axle		DANA
- Differential		Without locking
Drive wheels		Permanent 4 WD
- 2/4 wheel drive control		No
Front tires		ALLIANCE
- Size		400/80-24 A325 162A8 ATG
- Pressure	bar	3
Rear tires		ALLIANCE
- Size		400/80-24 A325 162A8 ATG
- Pressure	bar	3

ELECTRIC CIRCUIT		
Dattan	STANDARD	12 V - 110 Ah - 750 A EN
Battery	OPTION	12 V - 145 Ah - 1000 A EN
Alternator		12 V - 85 A
- Type		Denso Ai115
Starter		12 V - 3,2 kW
- Туре		AZE

BRAKE SYSTEM	
Service brake	Hydraulic power brake
- Type of brake	Oil-immersed multi-disc
- Type of control	Foot-operated for the front and rear axles
Parking brake	Mechanics
- Type of brake	Disk on gearbox output
- Type of control	Manual

SOUND AND VIBRATION		-
Sound pressure level in the driver's cab LpA (according to standard NF EN 12053) dB(A)	78 (cab closed) ; xx (cab open)
Sound pressure (according to Directive 2009/76)	dB(A)	xx (cab closed) ; xx (cab open)
Guaranteed sound power level in the environment LwA (according to Directive 2000/14/EC modified by Directive 2005/88/EC)	dB(A)	104 (measured) ; 105 (guaranteed)
Sound level in motion (according to Directive 2009/63)	dB(A)	XX
Average weighted acceleration on driver's body (according to standard NF EN 13059)	m/s2	XX
The average weighted acceleration transmitted to the driver's hand, arm system (according to standard ISO 5349-2)	m/s2	< 2,5
Standard seat vibration	m/s2	xx (lightweight operator) ; xx (heavyweight operator)

HYDRAULIC CIRCUIT				
Hydraulic pump				
- Туре		Gear pump wi	th flow divider	
		1st housing	2nd housing	
- Displacement	cm3	22	22	
- Max. rating capacity unladen	l/min	53	53	
- Flow at 1600 rpm	l/min	35	35	
Filtration				
- Back	μm	10	10	
- Suction	μm	125	125	
Maximum working pressure	bar	25	50	
- Telescoping circuit	bar	190,	250	
- Lift circuit	bar	250 / 250		
- Tilt circuit	bar	250 / 190		
- Attachment circuit	bar	250		
- Steering circuit	bar	140		

HYDRAULIC MOVEMENTS		
Longitudinal stability limiter and warning device		Electronics
Lifting motions (boom retracted)		
- Unladen lifting	s - m/min	6,7 - 42,5
- Laden lifting	s - m/min	8,5 - 33,5
- Unladen lowering	s - m/min	5,4 - 52,8
- Laden lowering	s - m/min	5,5 - 51,8
Telescoping motions (boom raised)		
- Unladen extending	s - m/min	13,6 - 12,6
- Laden extending	s - m/min	13,6 - 12,6
- Unladen retracting	s - m/min	8,7 - 19,7
- Laden retracting	s - m/min	8,4 - 20,4
Tilting movements		
- Unladen digging	s - °/s	2,7 - 46,5
- Unladen dump	s - °/s	2,3 - 54,6

SPECIFICATIONS AND WEIGHTS

SPECIFICATIONS AND WEIGHTS		
Speed of movement for lift truck in standard configuration on f	lat	
ground		
- Front unladen 1	km/h	4,4
2	km/h	7
3	km/h	15
4	km/h	25
- Rear unladen 1	km/h	4,4
2	km/h	7
3	km/h	15
4	km/h	25
Standard attachment		TFF 35 MT 1040
- Weight of attachment (without forks)	kg	165
- Weight of forks (each)	kg	67,5
Rated capacity with standard attachment	kg	3300
Tipping load at maximum reach on stabilizers	kg	1100
Distance from the center of gravity of the load to the base of the fo	rks mm	500
Standard lifting height	mm	9640
Lift truck weight without attachment	kg	7510
Weight of lift truck with standard attachment		
- Unladen	kg	7810
- At rated load	kg	11110
Weight per axle with standard attachment (transport position)		
- Front unladen	kg	4170
- Rear unladen	kg	3640
- Front rated load	kg	10010
- Rear rated load	kg	1100
Weight per axle with standard attachment (boom extended)		
- Front rated load	kg	7700
- Rear rated load	kg	360
Tractive effort on the coupling hook		
- Unladen (sliding)	daN	6340
 At rated load (transmission setting) 	daN	9100
Break-out force with bucket (according to standard ISO 8313)	daN	5330

TIRES

MT V 723	3 95P ST3A S1	PRESSURE		LOAD PEF	R TIRE (kg)	
INIT-A 7 5:	15 אנונ זכל כ	(bar)	FRONT UNLADEN FRONT (LADEN) REAR (UNLADEN) REAR (LADEN)			
ALLIANCE	400/80-24 A325 162A8 ATG	3				
MICHELIN	400/80-24 162A8 IND TL PCL	3	1600	4300	1700	650
WICHELIN	15,5R25 XHA TUBELESS	3,5				

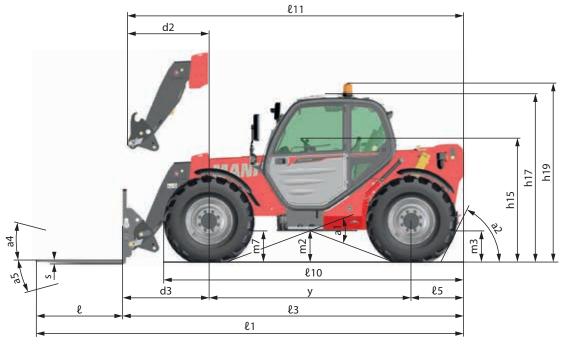
		PRESSURE		GROUND CONTACT PRESSURE (kg/cm2)		GROUND CONTACT AREA (cm2)	
		(bar)	LOAD (kg)	HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
			650				
ALLIANCE	400/80-24 A325 162A8 ATG	3	1600				
ALLIANCE	400/80-24 A323 102A8 ATG		1700				
			4300				
			650	2,08	0,56	328	1222
	400/80-24 162A8 IND TL PCL	3	1600	2,46	1,02	647	1554
	400/80-24 102A8 IND 1L FCL	3	1700	2,50	1,07	680	1589
MICHELIN			4300	3,03	1,70	1409	2498
WICTELIN	15,5R25 XHA TUBELESS 3,5		650	4,03	2,27	169	297
		2.5	1600	4,77	2,52	334	632
		5,5	1700	4,84	2,55	351	667
			4300	5,58	2,89	766	1481

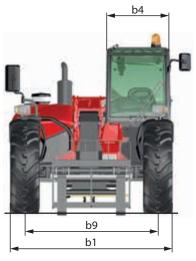
MT V 103	33 100P ST3A S1	PRESSURE		LOAD PER	R TIRE (kg)	
WIT-A TO:	22 TOOL 212W 21	(bar)	FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
ALLIANCE	400/80-24 A325 162A8 ATG	3				
MICHELIN	400/80-24 162A8 IND TL PCL	3	2100	5000	1800	550
MICHELIN	15,5R25 XHA TUBELESS	3,5				

		PRESSURE	LOAD (kg)	GROUND CONTACT	PRESSURE (kg/cm2)	GROUND CONTACT AREA (cm2)		
		(bar)	LOAD (Kg)	HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND	
			550					
ALLIANCE	400/80-24 A325 162A8 ATG	3	1800					
ALLIANCE	400/80-24 A323 102A8 AIG	5	2100					
			5000					
			550	2,04	0,52	294	1187	
	400/80-24 162A8 IND TL PCL	3	1800	2,53	1,10	711	1624	
	400/00-24 102A8 IND TE FCE	5	2100	2,61	1,21	803	1729	
MICHELIN				5000	3,16	1,85	1600	2743
MICHELIN			550	3,95	2,24	152	261	
		3,5	1800	4,88	2,56	368	702	
	15,5R25 XHA TUBELESS	5,5	2100	5,00	2,60	419	806	
			5000	5,76	2,98	876	1695	

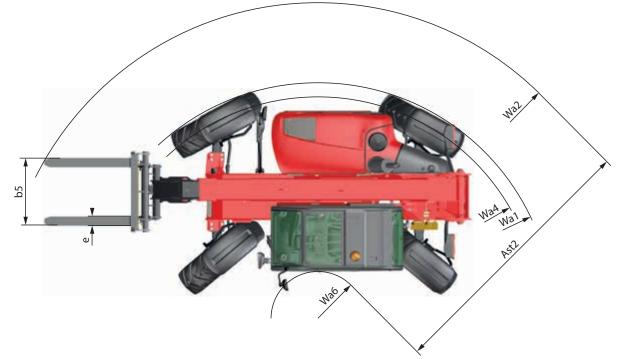
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DIMENSIONS AND LOAD CHARTS MT-X 733 95P ST3A S1

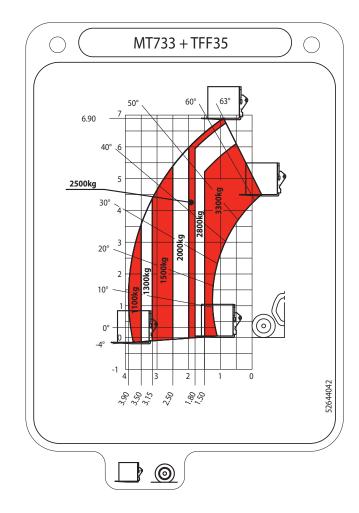








	l 1	mm	5929
	£3	mm	4729
MACHINE LENGTH	£5	mm	725
	£10	mm	4160
	l 11	mm	4673
	b1	mm	2250
	b4	mm	890
MACHINE WIDTH	b5	mm	1040
	b9	mm	1846
	b10	mm	1846
	h15	mm	1650
MACHINE HEIGHT	h17	mm	2300
	h19	mm	2500
DISTANCE	d2	mm	1138
DISTANCE	d3	mm	1194
AISLE WIDTH	Ast2	mm	3490
	e	mm	1200
ATTACHMENT	S	mm	45
	e	mm	125
	Wa1	mm	3763
TURNING RADIUS	Wa2	mm	4800
	Wa4	mm	3561
	Wa6	mm	1310
	m2	mm	435
GROUND CLEARANCE	m3	mm	435
	m7	mm	435
	a1	0	38
ANGLE	a2	0	64
	a4	0	12
	a5	0	114
WHEELBASE	У	mm	2810



DIMENSIONS AND LOAD CHARTS MT-X 1033 100P ST3A S1

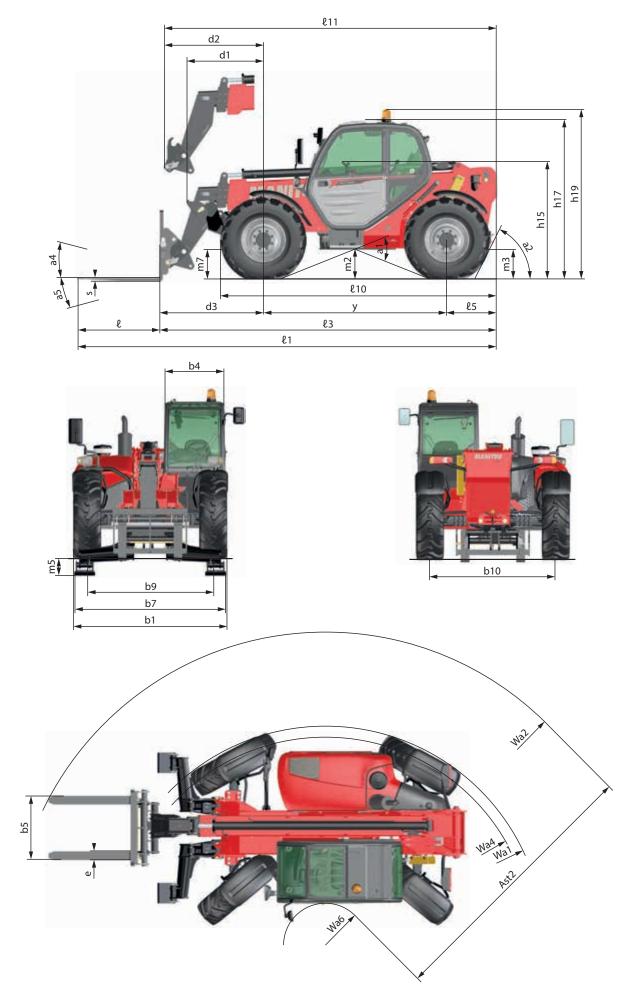
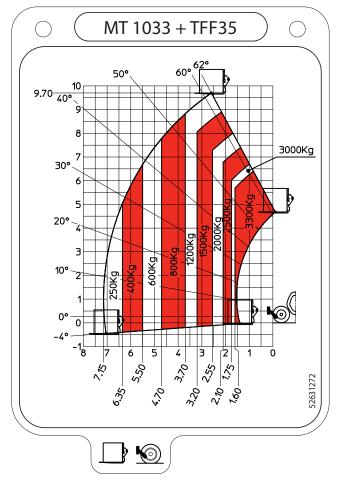
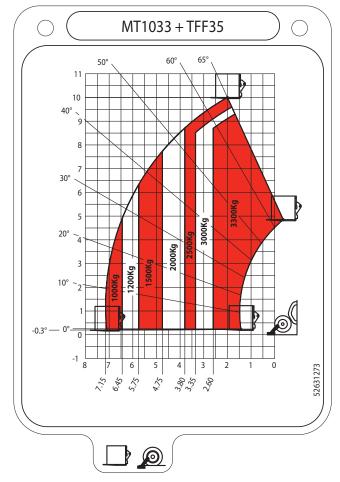


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BACHINE LENGTH Es mm 725 E10 mm 4040 E11 mm 5017 B1 mm 5017 B1 mm 5017 MACHINE WIDTH B1 mm 2250 B4 mm 890 MACHINE WIDTH B5 mm 1040 B7 mm 2210 B9 mm 1846 B10 mm 1846 B10 mm 1846 MACHINE WIDTH B10 mm 1846 B10 mm 1846 MACHINE HEIGHT M15 mm 1717 M17 mm 2300 MACHINE HEIGHT M17 mm 2300 M19 mm 2500 DISTANCE d1 mm 1130 G2 mm 1602 ATTACHMENT S5 mm 1200 S mm 455 GROUND CLEARANCE W2 mm 4250 W2 mm 4355 M3 mm </th <th></th> <th></th> <th></th> <th></th>				
Image: big matrix				
£11 mm 5017 b1 mm 2250 b4 mm 890 b5 mm 1040 b7 mm 2210 b9 mm 1846 b10 mm 1846 b10 mm 1846 h15 mm 1717 MACHINE HEIGHT h15 mm 1717 MACHINE HEIGHT h17 mm 2300 h19 mm 2500 d1 mm 1130 DISTANCE d1 mm 1130 d2 mm 1602 AISLE WIDTH Ast2 mm 3720 g2 mm 1200 ATTACHMENT S mm 425 m 3200 1200 ATTACHMENT S MM 425 mm 4250 1200 GROUND CLEARANCE M2 mm 4355 m3 mm 4355 m7 mm 4355				-
b1 mm 2250 b4 mm 890 b5 mm 1040 b7 mm 2210 b9 mm 1846 b10 mm 1846 b10 mm 1846 h15 mm 1717 MACHINE HEIGHT h15 mm 1717 MACHINE HEIGHT h17 mm 2300 h19 mm 2500 d1 mm 1300 DISTANCE d1 mm 1130 d2 mm 1602 AISLE WIDTH Ast2 mm 3720 e mm 1200 ATTACHMENT s mm 455 e mm 1255 TURNING RADIUS Wa1 mm 3662 Wa2 mm 4950 GROUND CLEARANCE m2 mm 4355 m3 mm 4355 m3 mm 4355 m3 mm 4355				
bit mm 890 b4 mm 890 b5 mm 1040 b7 mm 2210 b9 mm 1846 b10 mm 1846 b10 mm 1846 h15 mm 1717 MACHINE HEIGHT h15 mm 1717 h17 mm 2300 h19 mm 2500 DISTANCE d1 mm 1130 d2 mm 1602 d3 mm 1513 AISLE WIDTH Ast2 mm 3720 ATTACHMENT ge mm 1200 s mm 455 e mm 1200 s mm 4562 TURNING RADIUS Wa1 mm 3662 Wa2 mm 4350 GROUND CLEARANCE m2 mm 4355 m3 mm 4355 m3 mm 4355 m3 mm 4355<				
MACHINE WIDTH b5 mm 1040 b7 mm 2210 b9 mm 1846 b10 mm 1846 b10 mm 1846 h15 mm 1717 MACHINE HEIGHT h15 mm 1717 MACHINE HEIGHT h17 mm 2300 h19 mm 2500 d1 mm 130 DISTANCE d1 mm 1130 d2 mm 1602 d3 mm 1513 MACHINE HEIGHT Ast2 mm 1602 d3 mm 1513 M1 mm 1200 AISLE WIDTH Ast2 mm 3720 e mm 1255 ATTACHMENT s mm 456 e mm 1250 TURNING RADIUS Wa1 mm 3460 Wa2 mm 4355 GROUND CLEARANCE m2 mm 4355 m7 mm				
b7 mm 2210 b9 mm 1846 b10 mm 1846 b10 mm 1846 h15 mm 1717 MACHINE HEIGHT h15 mm 2300 h19 mm 2300 h19 mm 2300 DISTANCE d1 mm 1130 d2 mm 1602 d3 mm 1513 ASLE WIDTH Ast2 mm 3720 ATTACHMENT S mm 1200 s mm 455 e mm 1200 s mm 455 GROUND CLEARANCE Wa1 mm 3662 Wa2 mm 4950 Wa4 mm 3460 GROUND CLEARANCE m2 mm 435 m3 mm 435 m3 mm 135 m7 mm 435 m3 m435 MAGLE a1 ° 40 a2 <th></th> <th></th> <th></th> <th></th>				
b9 mm 1846 b10 mm 1846 b10 mm 1846 b10 mm 1846 h15 mm 1717 h17 mm 2300 h19 mm 2500 d1 mm 1130 DISTANCE d2 mm 1602 d3 mm 1513 AISLE WIDTH Ast2 mm 3720 ATTACHMENT § mm 1200 ATTACHMENT § mm 125 Wa1 mm 3662 Wa2 mm 4950 Wa4 mm 3460 Wa4 mm 3460 Wa4 mm 3460 Wa4 mm 3450 GROUND CLEARANCE m2 mm 435 m3 mm 435 m3 m4 35 m7 mm 435 m3 m435 MANGLE â1 ° <th< th=""><th>MACHINE WIDTH</th><th></th><th></th><th></th></th<>	MACHINE WIDTH			
b10 mm 1846 h15 mm 1717 h17 mm 2300 h17 mm 2300 h19 mm 2500 d1 mm 1130 DISTANCE d1 mm 1130 d2 mm 1602 d3 mm 1513 AISLE WIDTH Ast2 mm 3720 d4 mm 1200 ATTACHMENT S mm 455 e mm 125 ATTACHMENT S MM 3662 Wa2 mm 4950 TURNING RADIUS Wa1 mm 3460 Wa6 mm 1230 GROUND CLEARANCE m2 mm 435 m3 mm 435 M3 mm 135 m7 mm 435 MA1 ° 400 a2 ° 64 a4 ° 12 a5 ° 114				
h15 mm 1717 h17 mm 2300 h19 mm 2500 d1 mm 1130 DISTANCE d2 mm 1602 d3 mm 1513 AISLE WIDTH Ast2 mm 3720 ATTACHMENT g mm 1200 ATTACHMENT s mm 45 e mm 1200 s mm 455 e mm 1200 s mm 455 ground at the second			mm	
MACHINE HEIGHT h17 mm 2300 h19 mm 2500 h19 mm 2500 d1 mm 1130 DISTANCE d2 mm 1602 d3 mm 1513 AISLE WIDTH Ast2 mm 3720 ATTACHMENT § mm 1200 ATTACHMENT § mm 425 e mm 125 e mm 4250 TURNING RADIUS Wa1 mm 3662 Wa2 mm 4950 GROUND CLEARANCE m2 mm 435 m3 mm 435 M3 mm 435 m3 mm 435 MAGLE m3 mm 435 m3 m4 35 M3 mm 435 m3 m4 40 40 ANGLE a1 ° 64 a4 ° 12 a5 ° 114			mm	
h19 mm 2500 d1 mm 1130 DISTANCE d2 mm 1602 d3 mm 1513 AISLE WIDTH Ast2 mm 3720 ATTACHMENT ê mm 1200 ATTACHMENT ê mm 125 Wa1 mm 3662 Wa2 mm 4950 TURNING RADIUS Wa1 mm 3460 Wa4 mm 3460 GROUND CLEARANCE m2 mm 435 m3 mm 435 M3 mm 435 m3 mm 435 ANGLE a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114			mm	
d1 mm 1130 d2 mm 1602 d3 mm 1513 AISLE WIDTH Ast2 mm 3720 ATTACHMENT ê mm 1200 ATTACHMENT ê mm 125 Wa1 mm 3662 Wa2 mm 4950 TURNING RADIUS Wa1 mm 3662 Wa2 mm 4350 GROUND CLEARANCE m2 mm 4355 m3 mm 435 M3 mm 435 m3 mm 435 ANGLE a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114	MACHINE HEIGHT		mm	
d2 mm 1602 d3 mm 1513 AISLE WIDTH Ast2 mm 3720 AISLE WIDTH Ast2 mm 3720 ATTACHMENT ê mm 1200 S mm 45 e mm 125 Wa1 mm 3662 Wa2 mm 4950 Wa4 mm 3460 Wa4 mm 3460 Wa6 mm 1230 mm 4355 mm 435 GROUND CLEARANCE m2 mm 435 m3 mm 435 M3 mm 435 m3 mm 435 M4 ° 100 ma ma 435 m3 mm 435 M3 m4 ° 400 a2 ° 64 a4 ° 120 ANGLE a5 ° 114 ° 140		-	mm	
d3 mm 1513 AISLE WIDTH Ast2 mm 3720 AISLE WIDTH Ast2 mm 3720 Q mm 1200 s mm 1200 ATTACHMENT g mm 125 g mm 125 g TURNING RADIUS Wa1 mm 3662 Wa2 mm 4950 Wa4 mm 3460 Wa4 mm 3460 Wa6 mm 1230 mm 4355 GROUND CLEARANCE m3 mm 435 M3 mm 435 m3 mm 435 M3 mm 435 m3 m4 40 ANGLE a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114		d1	mm	1130
AISLE WIDTH Ast2 mm 3720 2 mm 1200 S mm 45 e mm 125 e mm 125 Wa1 mm 3662 Wa2 mm 4950 Wa2 mm 4950 Wa4 mm 3460 Wa6 mm 1230 Wa6 mm 1230 Ma6 mm 1230 m2 mm 4355 m3 mm 435 m3 mm 435 m4 mm 3460 Wa6 mm 1230 Ma6 mm 1230 Ma7 mm 435 m3 mm 435 m4 mm 435 m4 mm 435 m5 mm 135 m7 mm 435 m6 mm 135 m7 mm 435 m7 mm 435 m1 mm 435 m	DISTANCE		mm	1602
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		d3	mm	1513
ATTACHMENT s mm 45 e mm 125 Wa1 mm 3662 Wa2 mm 4950 Wa4 mm 3460 Wa4 mm 3460 Wa6 mm 1230 m2 mm 435 m3 mm 435 m5 mm 135 m7 mm 435 a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114	AISLE WIDTH	Ast2	mm	3720
e mm 125 Wa1 mm 3662 Wa2 mm 4950 Wa4 mm 3460 Wa6 mm 1230 Ma6 mm 1230 Ma6 mm 1230 Ma6 mm 1230 Ma7 mm 435 M5 mm 135 M7 mm 435 ANGLE a1 ° 40 a4 ° 12 a5 ° 114		e	mm	1200
$\begin{tabular}{ c c c c c } \hline Wa1 & mm & 3662 \\ \hline Wa2 & mm & 4950 \\ \hline Wa4 & mm & 3460 \\ \hline Wa6 & mm & 1230 \\ \hline Wa6 & mm & 1230 \\ \hline mathbf{mm} & mm & 435 \\ \hline mm & mm & mm & 435 \\ \hline mm & mm & mm & mm \\ \hline mm & mm & mm $	ATTACHMENT	S	mm	45
Wa2 mm 4950 Wa4 mm 3460 Wa6 mm 1230 Ma6 mm 435 GROUND CLEARANCE m2 mm 435 m7 mm 435 m7 mm 435 ANGLE a1 ° 40 a4 ° 12 a5 ° 114		e	mm	125
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Wa1	mm	3662
Wa4 mm 3460 Wa6 mm 1230 m2 mm 435 m3 mm 435 m5 mm 135 m7 mm 435 a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114		Wa2	mm	4950
m2 mm 435 m3 mm 435 m5 mm 135 m7 mm 435 ANGLE a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114		Wa4	mm	3460
m3 mm 435 m5 mm 135 m7 mm 435 a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114		Wa6	mm	1230
m5 mm 135 m7 mm 435 a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114		m2	mm	435
m5 mm 135 m7 mm 435 a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114	GROUND CLEARANCE	m3	mm	435
ANGLE a1 ° 40 a2 ° 64 a4 ° 12 a5 ° 114		m5	mm	
ANGLE a1 40 a2 ° 64 a4 ° 12 a5 ° 114		m7		435
ANGLE a2 64 a4 ° 12 a5 ° 114		a1		40
a4 ° 12 a5 ° 114	ANGLE	a2	0	64
a5 ° 114	ANGLE	a4	0	12
WHEELBASE y mm 2690		a5	0	114
	WHEELBASE	У	mm	2690





647777 (31/01/2022) MT-X 733 95P/1033 100P ST3A S1

VISIBILITY MT-X 733 95P ST3A S1

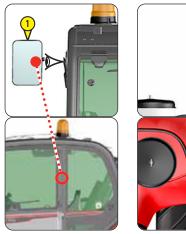
We use European standard EN15830 relating to operator visibility.

- Adhere to the instructions for optimizing operator visibility in the immediate vicinity (< 1 - OPERATING AND SAFETY INSTRUCTIONS: OPERATOR INSTRUCTIONS: OPERATING INSTRUCTIONS WITH AND WITHOUT LOAD: D - VISIBILITY).

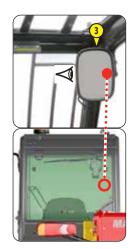
DESCRIPTION AND ADJUSTMENT OF REAR-VIEW MIRRORS

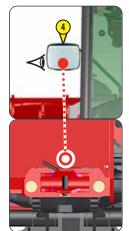
- 1 LEFT REAR-VIEW MIRROR
- 2 RIGHT SIDE REAR-VIEW MIRROR
- 3 INSIDE REAR-VIEW MIRROR (OPTION)
- 4 REAR-VIEW MIRROR (OPTION)
- Place the lift truck on level ground with the engine stopped, and the boom retracted and lowered as far as possible.
- Note the position of the reference points \bigcirc in the illustrations, to see and correctly adjust the rear-view mirrors.

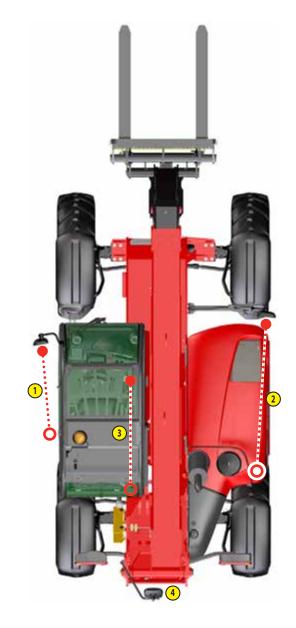












VISIBILITY MT-X 1033 100P ST3A S1

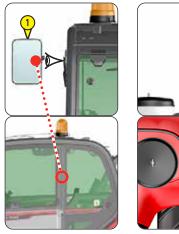
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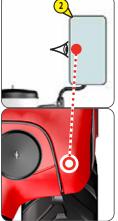
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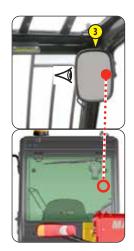
DESCRIPTION AND ADJUSTMENT OF REAR-VIEW MIRRORS

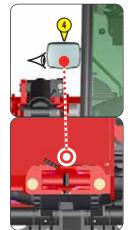
- 1 LEFT REAR-VIEW MIRROR
- 2 RIGHT SIDE REAR-VIEW MIRROR
- 3 INSIDE REAR-VIEW MIRROR (OPTION)
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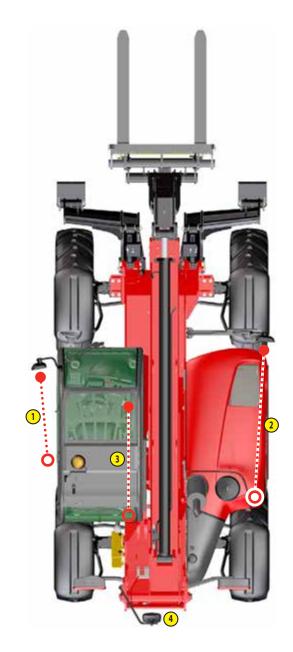












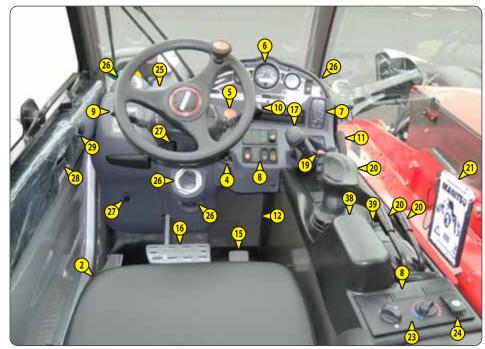
INSTRUMENTS AND CONTROLS

DESCRIPTION

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

1 - DRIVER'S CAB ACCESS 226 2 - DRIVER'S SEAT 226 2 - SEAT BELT 229 4 - IGNITION SWITCH 229 5 - EMREGIENCY STOP 229 6 - CONTROL AND INDICATOR LIGHT PANEL 230 7 - LONGTUDINAL STABLITY LIMITER AND WARNING DEVICE 232 8 - SWITCHES 234 9 - LIGHTING, HORN AND INDICATOR SWITCH 235 10 - FRONT AND REAR WIPER SWITCH 235 11 - STEERING SELECTION 235 12 - FUSES AND RELAYS IN THE CAB 236 13 - USES AND RELAYS INT HE AGINE HOOD 237 14 - DIAGNOSTIC PLUG 238 15 - ACCELERATOR PEDAL 238 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 238 17 - GEAR LEVER AND TRANSMISSION CUT-OFF 238 18 - PARKING BRAKE LEVER 238 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 239 21 - FUNCTION FILES 240 21 - HUNCTION FILES 240 23 - HEVER ND TRANSMISSION CUT-OFF 238 24 - AR CONDTIONING CONTROLS (AIR CONDITIONING OPTION) 241 24 - ROYTROL 249 24 - MINOSHIELE CONTROLS (AIR COND		
3 - SEAT BELT 2-29 4 - IGNITION SWITCH 2-29 5 - EMREGREVY STOP 2-29 6 - CONTROL AND INDICATOR LIGHT PAREL 2-30 7 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE 2-32 8 - SWITCHES 2-32 9 - LIGHTING, HORN AND INDICATOR SWITCH 2-33 10 - FRONT AND REAR WIPER SWITCH 2-33 11 - STEERING SELECTION 2-33 12 - FUSES AND RELAYS INTHE CAB 2-36 13 - SUSES AND RELAYS INTHE CAB 2-36 14 - DIAGNOSTIC PLUG 2-37 15 - ACCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF 2-38 18 - PARKING BRAKE LEVER 2-38 19 - FORWAND/NEUTRAL/REVERSE SELECTOR 2-39 19 - FORWAND/NEUTRAL/REVERSE SELECTOR 2-39 19 - FORWAND/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - LEVEL INDICATOR 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41		
4 - IGNITION SWITCH 2-29 5 - EMRCRENCY STOP 2-29 6 - CONTROL AND INDICATOR LIGHT PANEL 2-30 7 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE 2-32 8 - SWITCHES 2-34 9 - LIGHTING, HORN AND INDICATOR SWITCH 2-35 10 - FRONT AND PEAR WIPER SWITCH 2-35 11 - STEERING SELECTION 2-35 12 - FUSES AND RELAYS IN THE CAB 2-36 13 - FUSES AND RELAYS UNDER THE ENGINE HOOD 2-37 14 - DIAGNOSTIC PLUG 2-37 15 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 17 - GRA IEVER AND TRANSMISSION CUT-OFF 2-38 18 - PARKING BRAKE LEVER 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 21 - FUNCTION FILES 2-39 21 - FUNCTION FILES 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL 2-41 24 - HATRE CONTROLS (AIR CONDITIONING OPTION) 2-41 24 - HATRE CONTROL SONTOP SELECTOR 2-39 25 - WINDSHIELD DEFROSTER VENTS 2-		
5 - EMERGENCY STOP 2-29 6 - CONTROL AND INDICATOR LIGHT PANEL. 2-30 7 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE 2-32 8 - SWITCHES 2-33 9 - LIGHTING, HORN AND INDICATOR SWITCH. 2-35 10 - FRONT AND DREAR WIPER SWITCH 2-35 11 - STEERING SELECTION 2-35 12 - FUSES AND RELAYS IN THE CAB 2-36 13 - FUSES AND RELAYS INT THE CAB 2-36 14 - DIAGNOSTIC PLUG 2-37 15 - ACCEL ERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF. 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF. 2-38 18 - PARKING BRAKE LEVER. 2-38 19 - FORWARD/INEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR. 2-40 23 - HUNCTON FILES 2-40 23 - HUNCTON FILES 2-40 23 - HUNCTON FILES 2-40 23 - EVEL INDICATOR. 2-41 24 - HATER CONTROL. 2-41 24 - EVETAND		
6 - CONTROL AND INDICATOR LIGHT PANEL. 230 7 - LONGITUDINAL STABLITY LIMITER AND WARNING DEVICE 232 8 - SWITCHES 233 9 - LIGHTING, HORN AND INDICATOR SWITCH. 235 10 - FRONT AND REAR WIPER SWITCH 235 11 - STEERING SELECTION 235 12 - FUSES AND RELAYS IN THE CAB 236 13 - FUSES AND RELAYS INTHE CAB 236 14 - DIAGNOSTIC PLUG 237 15 - ACCELERATOR PEDAL 238 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 238 17 - GRA ILEVER AND TRANSMISSION CUT-OFF 238 18 - PARKING BRAKE LEVER. 238 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 238 21 - FUNCTION FILES 240 22 - LEVEL INDICATOR 241 23 - HATER CONTROL 244 24 - HEATING OVERTOLS (AIR CONDITIONING OPTION) 241 25 - WIDSMIELD DEFROSTER VENTS 241 26 - MEATING WHEEL ADJUSTMENT LEVER (OPTION) 242 27 - STERING WHEEL ADJUSTMENT LEVER (OPTION) 242 29 - LOCKING BUTTON FOR UPER HALF-DOOR 242 20 - DOR OPENING HANDLE 242 20 - DOR OPENING HANDLE <t< td=""><td></td><td></td></t<>		
7 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE 2-32 8 - SWITCHES 2-34 9 - LIGHTING, HORN AND INDICATOR SWITCH. 2-35 10 - FRONT AND REAR WIPER SWITCH. 2-35 11 - STEERING SELECTION 2-35 12 - FUSE AND RELAYS IN THE CAB 2-36 13 - FUSES AND RELAYS UNDER THE ENGINE HOOD 2-37 14 - DIACNOSTIC PLUG 2-38 15 - ACCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 + HYDRAULIC CONTROLS 2-39 21 - FUNCTION REDS 2-40 22 - LEVEL INDICATOR 2-41 24 - AIR CONTROLS 2-41 25 - WIDSHIELD DEFROSTER VENTS 2-41 26 - HORT NOR WHEL ADJUSTMENT LEVER (OPTION). 2-42 27 - STEERING BUTTON FOR UPPER HALF-DOOR 2-42 29 - DOCR OPENING HANDLE 2-42 20 - ORO POENING HANDLE FOR UPPER HALF-DOOR 2-42 20 - OLOCKING HANDLE FOR UPPER HALF-DOOR 2-42 20 - STORAGE COMPARITIENT 2-42 24 - STORAGE COMPARITIENT		
8 - SWITCHES 2-34 9 - LIGHTING, HORN AND INDICATOR SWITCH. 2-35 10 - FRONT AND REAR WIPER SWITCH. 2-35 11 - STEERING SELECTION 2-35 12 - FUSES AND RELAYS IN THE CAB 2-36 13 - FUSES AND RELAYS UNDER THE ENGINE HOOD 2-37 14 - DIAGNOSTIC PLUG. 2-38 15 - ACCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF. 2-38 17 - GRA LEVER AND TRANSMISSION CUT-OFF. 2-38 19 - FORWARD/NEUTRAL/REVERS ESLECTOR 2-38 19 - FORWARD/NEUTRAL/REVERS ESLECTOR 2-39 21 - FUNCTION FILES 2-30 21 - FUNCTION FILES 2-30 21 - FUNCTION FILES 2-39 21 - FUNCTION FILES 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATRE CONTROL 2-41 24 - AIR CONDITIONING ONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WIDSHIELD DEFROSTER VENTS 2-41 26 - HEATING WHELL ADJUSTMENT LEVER (OPTION) 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING BANDLE FOR UPPER HALF-DOOR 2-42		
9 - LIGHTING, HORN AND INDICATOR SWITCH. 2-35 10 - FRONT AND REAK WIPER SWITCH 2-35 11 - STEERING SELECTION 2-35 12 - FUSES AND RELAYS IN THE CAB 2-36 13 - FUSES AND RELAYS UNDER THE ENGINE HOOD 2-37 14 - DIAGNOSTIC PLUG 2-38 15 - SCECLERATOR PEDAL 2-38 15 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF. 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF. 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF. 2-38 18 - PARKING BRAKE LEVER. 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROLS. 2-40 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION). 2-41 25 - WIDSHIELD DERROSTER VENTS. 2-41 26 - HEATING WHEEL ADJUSTMENT LEVER (OPTION). 2-42 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION). 2-42 28 - DOOR OPENING HANDLE FOR UPPER HALF-DOOR 2-42 29 - LOUCKING RARTIMENT 2-42		
10 - FRONT AND REAR WIPER SWITCH 2-35 11 - STEERING SELECTION 2-35 11 - STEERING SELECTION 2-36 13 - FUSES AND RELAYS UNDER THE ENGINE HOOD 2-37 14 - DIAGNOSTIC FLUG 2-38 15 - ACCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF 2-38 18 - PARKING BRAKE LEVER. 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 22 - LEVEL INDICATOR 2-40 22 - LEVEL INDICATOR 2-40 23 - HARC RONTROL. 2-41 24 - HAR CONDITIONING CONTROLS (AIR CONDITIONING OPTION). 2-41 25 - WINDSHIED DEFROSTER VENTS. 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION). 2-42 29 - LOCKING BUANDLE FOR UPPER HALF-DOOR 2-42 20 - UNLOCKING BUTTON FOR UPPER HALF-DOOR 2-42 20 - UNLOCKING BUTTON FOR UPPER HALF-DOOR 2-42 21 - DOCKING BUANDLE FOR UPPER HALF-DOOR 2-42 23		
11 - STEERING SELECTION 2-35 12 - FUSES AND RELAYS IN THE CAB 2-36 13 - FUSES AND RELAYS UNDER THE ENGINE HOOD 2-37 14 - DIAGNOSTIC PLUG 2-38 15 - ACCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF 2-38 18 - PARKING BRAKE LEVER 2-38 19 - FORWARD//NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WINDSHIELD DEROSTER VENTS 2-41 26 - DORO PRUNG HANDLE 2-42 29 - LOCKING BUTTON FOR UPPER HALF-DOOR 2-42 29 - LOCKING BUTON FOR UPPER HALF-DOOR 2-42 21 - HANDLE FOR REAR WINDOW OPENING 2-42 21 - HANDLE FOR REAR WINDOW OPENING 2-42 23 - STORAGE COMPARTMENT 2-44 34 - FRORT MENT 2-42 35 - ROOF LIGHT		
12 - FUSES AND RELAYS IN THE CAB 2-36 13 - FUSES AND RELAYS UNDER THE ENGINE HOOD 2-37 14 - DIAGNOSTIC PLUG 2-38 15 - ACCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES. 2-40 22 - LEVEL INDICATOR 2-40 23 - LEVEL INDICATOR 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WINDSHIELD DEFROSTER VENTS 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION) 2-42 29 - LOCKING HANDLE		
13 - FUSES AND RELAYS UNDER THE ENGINE HOOD 2-37 14 - DIAGNOSTIC PLUG 2-38 15 - ACCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF 2-38 18 - PARKING BRAKE LEVER. 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HVDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WINDSHIELD DEFROSTER VENTS 2-41 26 - HORAING WHEEL ADJUSTMENT LEVER (OPTION) 2-42 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION) 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING BUTTON FOR UPPER HALF-DOOR 2-42 20 - UNLOCKING BUTTON FOR UPPER HALF-DOOR 2-42 21 - HANDLE FOR REAR WINDOW OPENING 2-42 24 - STORAGE COMPARTMENT 2-42 25 - STORAGE COMPARTMENT 2-42 24 - SUN VISOR (OPTION) 2-42 24 - SUN VISOR (OPTION) 2-42 25 - COAT HOOK		
14 - DIAGNOSTIC PLUG 2-38 15 - ACCCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF 2-38 18 - PARKING BRAKE LEVER 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-44 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL 2-40 23 - HEATER CONTROL 2-40 24 - LEVEL INDICATOR 2-40 25 - WINDSHIELD DEFROSTER VENTS 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION) 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING BUTTON FOR UPPER HALF-DOOR 2-42 21 - HANDLE FOR REAR WINDOW OPENING 2-42 23 - STORAGE COMPARTMENT 2-43 35 - ROOR JCKING (OPTION) 2-43 36 - COAT HOOK 2-43 37 - INSIDE REAR WINDOW OPENING 2-43 36 - RONREST 2-43 37 - INSIDE REAR-VIEW MIRGR (OPTION) 2-43 37 - INSIDE REAR-VIEW MIRGR (OPTION)		
15 - ACCELERATOR PEDAL 2-38 16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF. 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF. 2-38 18 - PARKING BRAKE LEVER. 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL. 2-41 24 - HID CONTROLS (AIR CONDITIONING OPTION). 2-41 25 - WINDSHIELD DEFROSTER VENTS. 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION). 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING BUTTON FOU PPER HALF-DOOR 2-42 21 - HANDLE FOR UPPER HALF-DOOR 2-42 23 - STORAGE COMPARTIMENT 2-42 31 - HANDLE FOR REAR WINDOW OPENING 2-42 32 - STORAGE COMPARTIMENT 2-43 35 - ROOF LIGHT 2-43 36 - RONT HOOK 2-43 37 - INSIDE REAR WINDOW OPENING 2-43 33 - ROOF LIGHT 2-44 36 - RONT HEADLICH OPTION) 2-43 37 - INSIDE REAR-		
16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF. 2-38 17 - GEAR LEVER AND TRANSMISSION CUT-OFF. 2-38 18 - PARKING BRAKE LEVER. 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES. 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL. 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION). 2-41 25 - WINDSHIELD DEFROSTER VENTS. 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHEL ADJUSTMENT LEVER (OPTION). 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING HANDLE FOR UPPER HALF-DOOR. 2-42 20 - LOCKING BUTTON FOR UPPER HALF-DOOR. 2-42 20 - LOCKING BUTTON FOR UPPER HALF-DOOR. 2-42 21 - UNLOCKING BUTTON FOR UPPER HALF-DOOR. 2-42 23 - STORAGE COMPARTMENT 2-42 24 - SUN VISOR (OPTION). 2-42 32 - STORAGE COMPARTMENT 2-42 34 - SUN VISOR (OPTION). 2-42 35 - ROOF LIGHT 2-43 36 - COAT HOOK 2-43 37 - INSIDE REAR-VIEW MIRROR (OPTION).		
17 - GEAR LEVER AND TRANSMISSION CUT-OFF. 2-38 18 - PARKING BRAKE LEVER. 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES. 2-30 22 - LEVEL INDICATOR. 2-40 23 - HEATER CONTROL. 2-40 23 - HEATER CONTROL. 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WINDSHIELD DEFROSTER VENTS. 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION). 2-42 28 - DOOR OPENING HANDLE FOR UPPER HALF-DOOR. 2-42 29 - LOCKING BUTTON FOR UPPER HALF-DOOR. 2-42 20 - UNLOCKING BUTTON FOR UPPER HALF-DOOR. 2-42 21 - HANDLE FOR REAR WINDOW OPENING 2-42 23 - STORAGE COMPARTMENT 2-42 24 - STORAGE NET 2-42 25 - STORAGE COMPARTMENT 2-43 34 - ROOF LIGHT 2-43 35 - ROOF LIGHT 2-43 36 - COAT HOOK 2-43 37 - INSIDE REAR-VIEW MIRROR (OPTION) 2-43 38 - ARMREST 2-43 39 - 12V SOCKET		
18 - PARKING BRAKE LEVER. 2-38 19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WINDSHIELD DEFROSTER VENTS 2-41 26 - HEATING WEEL ADJUSTMENT LEVER (OPTION) 2-42 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION) 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING BUTTON FOR UPPER HALF-DOOR 2-42 20 - UNLOCKING BUTTON FOR UPPER HALF-DOOR 2-42 21 - HANDLE FOR REAR WINDOW OPENING 2-42 23 - STORAGE COMPARTMENT 2-42 24 - SUN VISOR (OPTION) 2-42 23 - STORAGE COMPARTMENT 2-42 34 - SUN VISOR (OPTION) 2-43 35 - ROOF LIGHT 2-43 36 - COAT HOOK 2-43 37 - INSIDE REAR-VIEW MIRROR (OPTION) 2-43 38 - ARMREST 2-43 39 - 12V SOCKET 2-43 40 - FRONT HEADLIGHTS 2-43 41 - REAR LIGHTS <		
19 - FORWARD/NEUTRAL/REVERSE SELECTOR 2-39 20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL. 2-40 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WINDSHIELD DEFROSTER VENTS 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION). 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING HANDLE FOR UPPER HALF-DOOR 2-42 20 - UNLOCKING BUTTON FOR UPPER HALF-DOOR 2-42 21 - HANDLE FOR REAR WINDOW OPENING 2-42 23 - STORAGE COMPARTMENT 2-42 24 - SUN VISOR (OPTION) 2-42 25 - STORAGE COMPARTMENT 2-42 24 - SUN VISOR (OPTION) 2-42 35 - ROOF LIGHT 2-42 36 - COAT HOOK 2-43 37 - INSIDE REAR-VIEW MIRROR (OPTION) 2-43 38 - ARMREST 2-43 39 - 12V SOCKET 2-43 40 - FRONT HEADLIGHTS 2-44 41 - REAR LIGHTS 2-44 42 - ROTATING BEACON LIGHT 2-44 <td></td> <td></td>		
20 - HYDRAULIC CONTROLS. 2-39 21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL. 2-41 24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WINDSHIELD DEFROSTER VENTS. 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHELL ADJUSTMENT LEVER (OPTION). 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING BUTTON FOR UPPER HALF-DOOR. 2-42 20 - UNLOCKING BUTTON FOR UPPER HALF-DOOR. 2-42 21 - HANDLE FOR REAR WINDOW OPENING. 2-42 21 - HANDLE FOR REAR WINDOW OPENING. 2-42 23 - STORAGE COMPARTMENT 2-42 24 - STORAGE COMPARTMENT 2-42 23 - STORAGE COMPARTMENT 2-42 34 - STORAGE NET 2-42 35 - ROOF LIGHT 2-43 35 - ROOF LIGHT 2-43 36 - COAT HOOK 2-43 37 - INSIDE REAR-VIEW MIRROR (OPTION) 2-43 38 - ARMREST 2-43 39 - 12V SOCKET 2-43 30 - 101 CORT (OPTION) 2-43 34 - ROAT HEADLIGHTS 2-44 <tr< td=""><td></td><td></td></tr<>		
21 - FUNCTION FILES 2-40 22 - LEVEL INDICATOR 2-40 23 - HEATER CONTROL. 2-41 24 AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION) 2-41 25 - WINDSHIELD DEFROSTER VENTS 2-41 26 - HEATING VENTS. 2-41 27 - STEERING WHEL ADJUSTMENT LEVER (OPTION) 2-42 28 - DOOR OPENING HANDLE 2-42 29 - LOCKING HANDLE FOR UPPER HALF-DOOR 2-42 30 - UNLOCKING BUTTON FOR UPPER HALF-DOOR 2-42 31 - HANDLE FOR REAR WINDOW OPENING 2-42 32 - STORAGE COMPARTMENT 2-42 33 - STORAGE NET 2-43 35 - ROOF LIGHT 2-43 36 - COAT HOOK 2-43 37 - INSIDE REAR-VIEW MIRROR (OPTION) 2-43 38 - ARMREST 2-43 39 - 12V SOCKET 2-43 41 - REAR LIGHTS 2-43 42 - ROTATING BEACON LIGHT 2-44 43 - BOOM SAFETY WEDGE 2-44		
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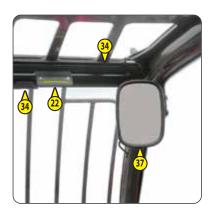






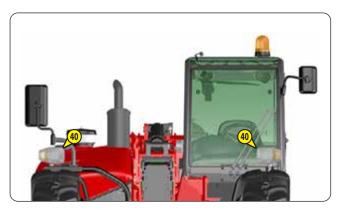


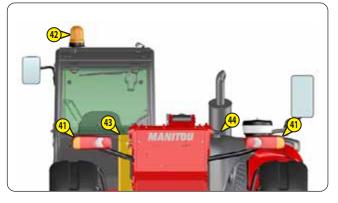












1 - DRIVER'S CAB ACCESS

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

- 1 Left handle.
- 2 Right handle.
- 3 Step.



2 - DRIVER'S SEAT

DRIVER'S SEAT (STANDARD)

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

LONGITUDINAL ADJUSTMENT

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

SEAT HEIGHT ADJUSTMENT

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

SEAT SUSPENSION ADJUSTMENT

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

BACKREST ANGLE ADJUSTMENT

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

A IMPORTANT A

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

DRIVER'S SEAT (OPTION)

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

SEAT HEIGHT ADJUSTMENT

- Sit down correctly in the seat.
- Turn the knob 1 according to the desired height, clockwise to raise, counterclockwise to lower, ensuring that the green indicator lamp 2 remains visible.
 If indicator lamp 2 is red, re-adjust the height.
- NOTE: The seat is designed so as not to require adjustment according to the driver's weight.

LONGITUDINAL ADJUSTMENT

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

BACKREST ANGLE ADJUSTMENT

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

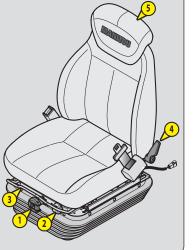
A IMPORTANT A

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

HEADREST

- The height of the headrest 5 can be adjusted by pulling it upward (the notches will click) up to the stop.
- The headrest can be removed by applying sufficient pressure to pull it off the stop.





DRIVER'S PNEUMATIC SEAT (OPTION)

MT-X 733 95P ST3A S1

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

SEAT HEIGHT ADJUSTMENT

- Sit down correctly in the seat.
- Switch on lift truck ignition.
- Pull or push lever 1 according to the desired height, making sure that the green indicator lamp 2 remains visible.
- If indicator lamp 2 is red, re-adjust the height.
- NOTE: The seat is designed so as not to require adjustment according to the driver's weight.

LONGITUDINAL ADJUSTMENT

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

HORIZONTAL SHOCK ABSORBER

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

- Swing lever 3 downwards to block the horizontal damper.

BACKREST ANGLE ADJUSTMENT

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

A IMPORTANT A

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

HEADREST

- The height of the headrest 5 can be adjusted by pulling it upward (the notches will click) up to the stop.
- The headrest can be removed by applying sufficient pressure to pull it off the stop.

LUMBAR ADJUSTMENT

- Turn knob 6 anti-clockwise to select one of the 5 lumbar support settings.

SEAT HEATING

- Switch 7 operates the heating of the seat cushion and the backrest.

DRIVER'S PNEUMATIC SEAT (OPTION)

MT-X 1033 100P ST3A S1

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

WEIGHT AND SEAT HEIGHT ADJUSTMENT

WEIGHT ADJUSTMENT (FIG. A)

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

- Switch on lift truck ignition.
- Push or pull lever 1 until green appears in display 2 indicating correct adjustment according to your weight.
- NOTE: To avoid health problems, it is recommended that the weight setting is checked and adjusted before starting the lift truck.

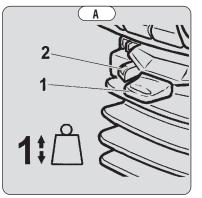
SEAT HEIGHT ADJUSTMENT (FIG. B)

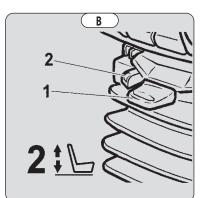
A IMPORTANT A

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

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

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







SEAT BACKREST ANGLE ADJUSTMENT (FIG. C)

The backrest angle of the seat may be adjusted to suit the individual.

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

SEAT DEPTH ADJUSTMENT (FIG. D)

The seat depth can be individually adjusted.

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

HEADREST (FIG. E)

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

LUMBAR ADJUSTMENT (FIG. F)

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

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

BACKREST ANGLE ADJUSTMENT (FIG. G)

A IMPORTANT A

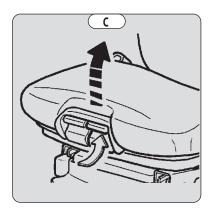
If you do not support the backrest when making adjustments, it swings completely forward.

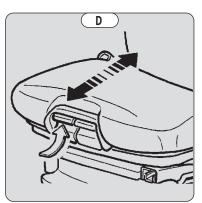
- Support the backrest, pull the lever and tilt the backrest to the desired position.

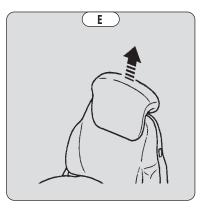
HORIZONTAL SHOCK ABSORBER (FIG. H)

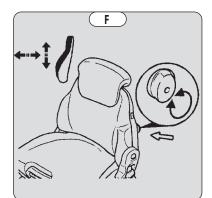
In certain conditions (e.g. driving with a trailer) it is advised that a horizontal shock absorber be used. The driver's seat is thus better able to absorb jerks in the direction of travel.

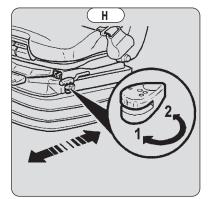
- Position 1: Horizontal shock absorber fitted.
- Position 2: Horizontal shock absorber removed.

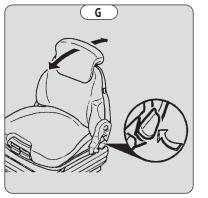












LONGITUDINAL ADJUSTMENT (FIG. I)

- Adjust the locking lever until you reach the position required. Once locked, you can no longer move the seat into another position.

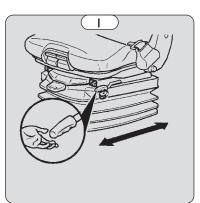
MAINTENANCE (FIG. J)

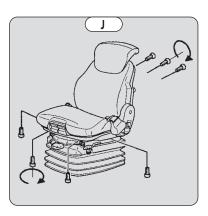
A IMPORTANT A

A moving backrest increases the risk of an accident!

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

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





3 - SEAT BELT

A IMPORTANT A

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

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

4 - IGNITION SWITCH

This key switch has 5 positions:

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

5 - EMERGENCY STOP

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

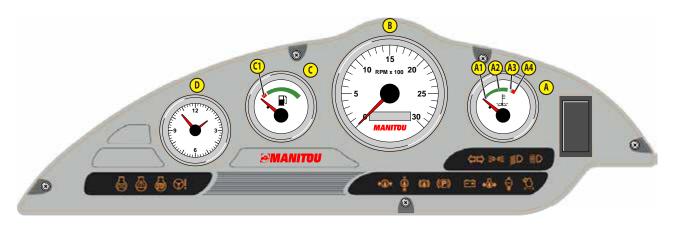
A IMPORTANT A

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

- Turn switch to disable.



6 - CONTROL AND INDICATOR LIGHT PANEL



CONTROL INSTRUMENTS

A - ENGINE WATER TEMPERATURE

TEMPERATURE ZONE

- A1 Blue zone (0° 50°) Use the lift truck with moderation, wait for temperature to increase before normal operation.
- A2 Green zone (50° 100°) Use lift truck normally.
- A3 White/red zone (100° 105°) Use lift truck with moderation, monitor the temperature.
- A4 Red zone (105° 120°) Stop the lift truck, look for the cause of overheating.



comes on between zone A3 and A4.

B - HOUR METER AND REV COUNTER

C - FUEL LEVEL

Red zone C1 indicates that you are using the reserve supply and that time of use is limited.

D - CLOCK

INDICATOR LIGHTS

A IMPORTANT A

A permanently lit or flashing warning light, with the engine running, is the sign of an operating fault. Illumination of some indicator lights may be accompanied by an audible signal. Do not ignore this warning. Contact your dealer as soon as possible.

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

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



GEARBOX OIL PRESSURE WARNING INDICATOR LAMP

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

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

GEARBOX OIL TEMPERATURE WARNING INDICATOR

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



BRAKE FLUID LEVEL WARNING INDICATOR

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



PARKING BRAKE INDICATOR LAMP

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

BATTERY CHARGE WARNING INDICATOR

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



ENGINE OIL PRESSURE WARNING INDICATOR LAMP

If the light and the buzzer come on when the lift truck is running, stop the I.C. engine immediately and look for the cause (engine oil level, possible leak, etc.).

ENGINE WATER TEMPERATURE WARNING INDICATOR

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



AIR FILTER OR HYDRAULIC RETURN FILTER CLOGGING WARNING INDICATOR LAMP

The indicator lamp and the buzzer come on when the air filter cartridge or the hydraulic return oil filter cartridge is clogged. Stop the engine and carry out the necessary repairs (



TURN SIGNAL INDICATOR



SIDELIGHTS INDICATOR LAMP



MAIN BEAM INDICATOR LAMP

7 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE

IMPORTANT 🛕

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 forklift 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 operating modes of the longitudinal stability limiter and warning device allow the operator to operate the lift truck in complete safety.

"HANDLING/BUCKET" MODE

- By default, the device is in "HANDLING/BUCKET" MODE when the lift truck is started-up, except if the "SUSPENDED LOAD" MODE has been selected before shutting-down the engine.
- Protection against tilting forward during aggravating movements is guaranteed, except when the telescope is retracted.

STATUS OF THE DEVICE					
DRIVING	TELESCOPE(S) RETRACTED				
No cound clause	Ne second element				
-No sound alarm.	-No sound alarm.				

"SUSPENDED LOAD" MODE

A IMPORTANT A

All attachments with a suspended load (winch, crane jib, crane jib with winch, hook, etc.) MUST be used with a lift truck equipped with a working hydraulic movement cutout device.

USE WITH LIFTING DEVICE OR RING (offering a higher margin of safety)

- Place the lift truck in the transport position.

- Press the button for 2 seconds, "SUSPENDED LOAD" MODE is validated by an audible signal and the lighting of the lamp.
- Return to "HANDLING/BUCKET" MODE by pressing the button
- Protection against tilting forward during aggravating movements is guaranteed, except when the telescope is retracted.

STATUS OF	THE DEVICE	
HALTED	DRIVING	TELESCOPE(S) RETRACTED
A4-A5 : Very slow intermittent sound alarm.		
A6 : Slow intermittent sound alarm.	No cound alarma	No cound alore
A7 : Fast intermittent sound alarm.	-No sound alarm.	-No sound alarm.
A8 : Very fast intermittent sound alarm.		

A - VISUAL ALARMS

- A1 A2 A3: There is a significant reserve of longitudinal stability.
- A4 A5: The lift truck is nearing the limit of longitudinal stability. Maneuver with care.
- A6: The lift truck is close to the longitudinal stability limit. Maneuver with care.
- A7: The lift truck is very close to the longitudinal stability limit. Manoeuvre with extreme caution.
- A8: The lift truck is at the authorized limit of longitudinal stability.



B - HYDRAULIC MOVEMENT CUT-OFF

"HANDLING/BUCKET" MODE

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

"SUSPENDED LOAD" MODE

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

C - DISABLING "AGGRAVATING" HYDRAULIC MOVEMENT CUT-OFF

Switch A allows you to cut off "DANGEROUS" hydraulic movements or not.

- Place the lift truck in the transport position, with the boom lowered and retracted. WITH "AGGRAVATING" HYDRAULIC MOVEMENT CUT-OFF: INDICATOR LAMP C1 OFF:

WITHOUT "AGGRAVATING" HYDRAULIC MOVEMENT CUT-OFF: INDICATOR LAMP C1 ON:

A IMPORTANT A

In this case, only the visual and sound alarm will inform the user.

- To allow the use of loading or earth moving buckets, for example.

D - TESTING THE LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE

- Press briefly on the button at any time to verify that the longitudinal stability alarm is working.

Correct operation: All the LEDs light for two seconds and an audible signal is sounded.

NOTE: This test does not make it possible to check the correct adjustment of the longitudinal stability limiter device, which must be inspected daily or after every 10 hours of operation (Image: Stability Content in the image of the stability of the stability

E - FAULT INDICATOR LAMP

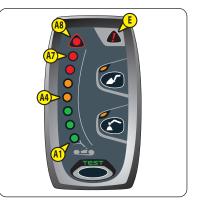
A permanently lit fault indicator lamp E, together with a combination of illuminated LEDs, indicates a major fault liable to affect the safety of the lift truck. Contact your agent or dealer.

- The fault indicator lamp plus LEDs A1 and A7 lighting alternately with A4 and A8 indicate a defective link in the operation of the longitudinal stability limiter and warning device.
- The fault indicator lamp
 Plus continuously lit LEDs A7 and A8 indicate a faulty box.

F - STRAIN GAUGE

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







8 - SWITCHES

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



BOOM ELECTRICAL PREDISPOSITION (OPTION)

✓ DESCRIPTION AND USE OF THE OPTIONS

BOOM HEAD ELECTROVALVE (OPTION) ✓ DESCRIPTION AND USE OF THE OPTIONS

HAZARD WARNING LIGHTS



REAR FOG LIGHTS

SELF-CLEANING FAN (OPTION)

DESCRIPTION AND USE OF THE OPTIONS





🔁 TRANSMISSION CUT-OFF

NOTE: In all cases transmission cut-off can be activated using the gear lever.

- Position 1: Indicator lamp is on, transmission is cut off with the service brake pedal and the forward/neutral/reverse gear lever.
- Position 2: Indicator lamp is off, transmission is cut off with the forward/neutral/reverse gear selector.

USE OF TRANSMISSION CUT-OFF

- Transmission cut-off to brake pedal (position 1).
 - When loading.
- Transmission cut-off with forward/neutral/reverse gear selector (position 2).
 - When driving.
 - For inching and continuous stop/start (delicate handling).
 - Start-up on a slope.



- **REAR WORKLIGHTS (OPTION)**
- FRONT AND REAR WORKLIGHTS (OPTION)
- **BOOM HEAD WORKLIGHTS (OPTION)**
- **REAR WINDOW DEFROSTER (OPTION)**



ROTATING BEACON LIGHT

ATTACHMENT HYDRAULIC LOCKING (OPTION) DESCRIPTION AND USE OF THE OPTIONS

HYDRAULIC MOVEMENT NEUTRALIZATION

When driving on the road, it is highly recommended (mandatory in Germany) that you disconnect all hydraulic movement. The indicator lamp indicates it is in use.









9 - LIGHTING, HORN AND INDICATOR SWITCH

The switch controls the visual and sound alarms.

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

Pressing the end of the switch sounds the horn.

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

10 - FRONT AND REAR WIPER SWITCH

FRONT WINDSHIELD WIPER

- A Front windshield wiper off.
- B Front windshield wiper low speed setting.
- C Front windshield wiper high speed setting.
- D Front windshield wiper pulse driven.

REAR WINDSHIELD WIPER

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

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

11 - STEERING SELECTION

A - GREEN WHEEL ALIGNMENT INDICATOR LAMPS

A IMPORTANT A

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

These green indicator 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 steering wheels (road mode).
- B2 Front and rear steering wheels in opposite directions (short steering).
- B3 Front and rear steering wheels in the same direction (crab steering).
- WHEEL ALIGNMENT CONTROL

A IMPORTANT A

Check the alignment of the front and rear wheels each time the lift truck is started. Regularly check the alignment of the wheels when using the lift truck. The wheels must be aligned and the lift truck must be in front steering wheels mode when used on public roads.

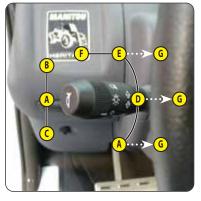
A green light illuminates on the dashboard when the wheels are aligned.

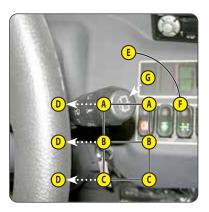
- Contact your dealer if you have any questions.
- Select "short steering" (position B2).
- Turn the steering wheel and bring the rear wheels into alignment until the A2 indicator lamp comes on.
- Select "road driving" (position B1).
- Turn the steering wheel and bring the front wheels into alignment until the A1 indicator lamp comes on.

C - SWITCH FOR ALIGNMENT OF THE WHEELS

This switch enables or disables the wheel alignment device. The indicator lamp indicates that it is in use.

- When driving on the road, disable the wheel alignment device.









12 - FUSES AND RELAYS IN THE CAB

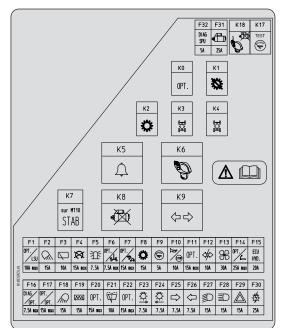
A sticker on the inside of the access hatch provides a quick view of the use of the electric plate's components described below.

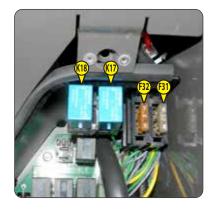
- Remove access panel 1 to gain access to the fuses and relays. Replace a blown fuse with a new fuse of the same quality and rating. Never use a repaired fuse.

MINIFUSE

F1 OPTION. F2 15A Rear worklights (OPTION). Rear windshield wiper. Side windshield wiper (OPTION). F3 10A Roof windshield wiper (OPTION). F4 75A Rotating beacon. F5 75A Rotating beacon. F6 5A Wheel alignment. OPTION. Deactivation of aggravating hydraulic movement cut-off. F7 7.5A Longitudinal stability limiter and warning device. Deactivation of aggravating hydraulic movement cut-off. Relay K2 K3 K4. F8 15A Transmission cut-off. Relay K2 K3 K4. F9 5A F10 10A Horn. Stop switch. F11 15A F11 15A Worklights on boom (OPTION). F12 10A Flav. Flav. F13 20A Hydraulic movement control unit. Flave. F14 10A Flav. Diagnostics plug. F15 20A Hydraulic movement control unit. Flave. F14 10A Flort worklights (OPTION). Anti-theft system (OPTION).					
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			Driver presence sensor.		

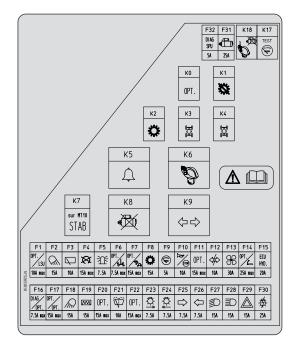


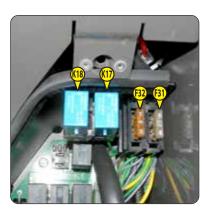




RELAYS

K0	Air conditioning relay (OPTION).
K1	Transmission cut-off relay.
K2	Transmission cut-off relay.
K3	Reverse gear relay.
K4	Forward gear relay.
K5	Buzzer.
K6	JSM activation relay.
K7	OPTION.
K8	Starter safety relay.
K9	Flashing light unit.
	Indicator lamps module relay.
K18	Neutral safety relay.





13 - FUSES AND RELAYS UNDER THE ENGINE HOOD

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

MAXIFUSE

F40	40A	Ignition switch.
F41	40A	Ignition switch.
F42	80A	Engine preheat.
F43	80A	Alternator.

MINIFUSE

F50 | **15A** | Fuel preheater (OPTION).

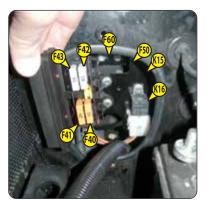
THERMAL CIRCUIT-BREAKER

F60 30A Air conditioning (OPTION).

RELAYS

K15	Fuel preheater (OPTION).
K16	Engine preheat.





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15 - ACCELERATOR PEDAL

16 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF

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

17 - GEAR LEVER AND TRANSMISSION CUT-OFF

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

CONDITION OF USE OF GEARBOX RATIOS

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

A IMPORTANT A

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

This poor choice may also result in the forklift truck's performance deteriorating in forward gear: When the forward force increases, the forward speed in the r ratio (for example, in 3rd gear) may be lower than the forward speed that could be obtained with the r-1 gear (in 2nd instead of 3rd).

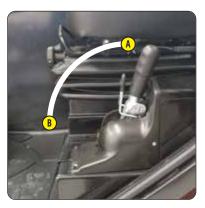
In general, we would advise you to use the following gears according to the nature of the work being carried out.

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

18 - PARKING BRAKE LEVER

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

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



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19 - FORWARD/NEUTRAL/REVERSE SELECTOR

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

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

SAFETY FOR MOVING THE LIFT TRUCK

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

- 1 sit down correctly in the driver's seat,
- 2 release the hand brake,
- 3 engage forward or reverse gear.
- NOTE: The alternating display of F/N or R/N on the screen and a rapid, discontinuous audible signal indicates that the selector needs to be set to neutral.

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

- 1 set the forward/reverse selector to neutral,
- 2 apply the parking brake,
- 3 get out of the lift truck.
- NOTE: A discontinuous audible signal and a message on the screen will inform the driver if he has left the driver's cab without applying the parking brake.

20 - HYDRAULIC CONTROLS

A IMPORTANT A

Do not try to modify the hydraulic pressure of the system. If it malfunctions contact your dealer. ANY MODIFICATION INVALIDATES THE WARRANTY AND YOU WILL BE CRIMINALLY LIABLE IN THE EVENT OF AN ACCIDENT.

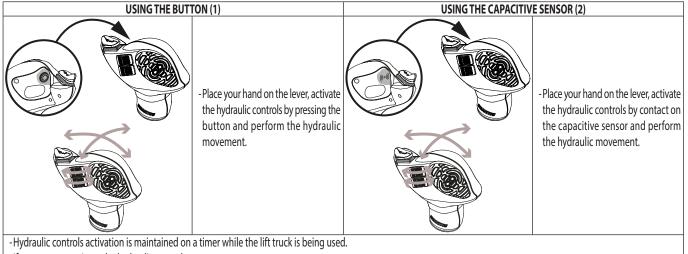
Use the hydraulic controls gently without jerking, to avoid incidents caused by shaking the lift truck.

It is ALWAYS necessary to press the Button (1) or the Capacitive Sensor (2) after 10 seconds when using the Stabilizers, Tilting or Lifting (otherwise the movements will stop during use).

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

HYDRAULIC CONTROLS ACTIVATION

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



- If necessary, reactivate the hydraulic controls.



- A Lifting and tilting control lever.
- B Telescoping control button.
- C Attachment control button.
- D Control button (OPTION).
- E Left stabilizer control lever. MT-X 1033 100P ST3A S1
- F Right stabilizer control lever. MT-X 1033 100P ST3A S1

LIFTING THE LOAD

- Lever A backward for lifting.
- Lever A forward for lowering.

TILTING THE CARRIAGE

- Lever A to the left to tilt backward.
- Lever A to the right to tilt forward.

TELESCOPING

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

ATTACHMENT

- Button C forwards or backwards.

BOOM ELECTRICAL PREDISPOSITION (OPTION) BOOM HEAD ELECTROVALVE (OPTION)

- Button D (< DESCRIPTION AND USE OF THE OPTIONS).

LEFT STABILIZER MT-X 1033 100P ST3A S1

- Lever E forwards to lower.
- Lever E backwards for lifting.

RIGHT STABILIZER MT-X 1033 100P ST3A S1

- Lever F forwards to lower.
- Lever F backwards for lifting.

NOTE: The stabilizers can only be raised after the jib has been retracted.

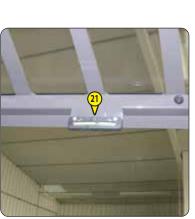
21 - FUNCTION FILES

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



22 - LEVEL INDICATOR

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





23 - 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.



24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION)

A IMPORTANT A

The air conditioning only works if the lift truck has been started.

When using your air conditioning, it is essential to work with the cab closed.

In winter: So as to ensure that the air conditioning unit is correctly operated and completely efficient, start up the compressor once a week, even for a short period of time, in order to lubricate the internal seals.

In cold weather: Warm the engine before switching on the compressor, in order to allow the coolant that has collected in the liquid state at the lowest point of the compressor's circuit to turn into gas under the effect of the heat given off by the engine, as the compressor is liable to be damaged by coolant in the liquid state. If it seems to you that the air conditioning is not working properly, have it inspected by your dealer. Never try to repair any faults yourself.

A - FAN CONTROL

This 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 desired temperature.
 - A At the desired speed: 1, 2 or 3.

AIR CONDITIONING MODE

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

DEFROST MODE

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

25 - WINDSHIELD DEFROSTER VENTS

For optimum effectiveness, close the heating vents.

26 - HEATING VENTS

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



27 - STEERING WHEEL ADJUSTMENT LEVER (OPTION)

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

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



28 - DOOR OPENING HANDLE

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

- Pull on the handle to open the door.





29 - LOCKING HANDLE FOR UPPER HALF-DOOR

- Pull on the handle to release the upper half-door.
- Open the half-door fully and make sure it is locked in the open position.
- **30 UNLOCKING BUTTON FOR UPPER HALF-DOOR**





31 - HANDLE FOR REAR WINDOW OPENING

EMERGENCY EXIT

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

32 - STORAGE COMPARTMENT

33 - STORAGE NET

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



35 - ROOF LIGHT

36 - COAT HOOK

37 - INSIDE REAR-VIEW MIRROR (OPTION)

38 - ARMREST

MT-X 733 95P ST3A S1 Lift the armrest to access the storage.

39 - 12V SOCKET

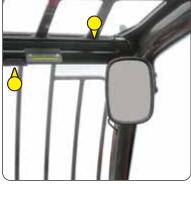
For 12 V appliance and max. amperage 15A.





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







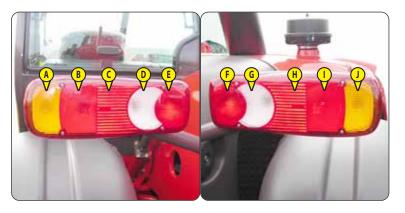


41 - REAR LIGHTS

- A Rear left-hand indicator light.
- B Rear left-hand stop light.
- C Left rear light.
- D Rear left-hand reversing light.
- E Rear left-hand fog light.
- F Rear right-hand fog light.
- G Rear right-hand reversing light.
- H Right rear light.
- I Rear right-hand stop light.
- J Rear right-hand indicator light.

42 - ROTATING BEACON LIGHT

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





43 - BOOM SAFETY WEDGE

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

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



44 - FUEL TANK

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 the engine is running.

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

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



2 - 45

A IMPORTANT A

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

Using a trailer in poor condition may affect the lift truck's steering and braking, and hence the safety of the assembly.

If a third party helps in coupling or uncoupling the trailer, this person must 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 given on the manufacturer's plate fixed to each lift truck (< IDENTIFICATION OF THE LIFT TRUCK).

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

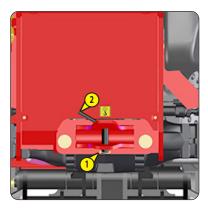
1 - CLEVIS HITCH

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 parking brake and switch off the engine.
- Remove the pin 1, lift the towing pin 2 and place or remove the trailer ring.

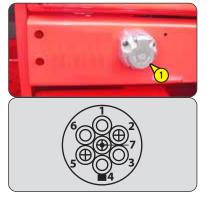


2 - REAR ELECTRIC SOCKET (OPTION)

- 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.
 - 1 Ground.
 - 2 Left rear light and number plate.
 - 3 Rear left-hand indicator light.
 - 4 Rear brake lights.
 - 5 Rear right-hand indicator light.
 - 6 Right rear light.
 - 7 Not used.

3 - REAR-VIEW MIRROR (OPTION)

The rear-view mirror allows the lift truck to approach the trailer ring more precisely.





2 - 47

<u>1 - WINDSHIELD GRILLE</u>

DESCRIPTION

The windshield grille provides additional protection for the operator from any external elements spattered on the windshield.

This grille must be removable from inside the cab to enable an emergency exit.

2 - REAR WINDOW STAY

REAR LIGHTS

4 - TOOL BOX

- Holds the rear window half-open.

3 - PROTECTIVE GRILLE FOR HEADLIGHTS AND















7 - ANGULAR SECTOR ON BOOM

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

8 - "A-B-C-D-E" MARKING ON BOOM

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

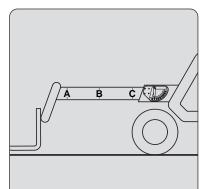
9 - BATTERY CUT-OFF

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

<u> 10 - LICENSE PLATE LIGHT</u>











<u>11 - ANTI-THEFT SYSTEM MODCOD</u>

OPERATION

- Switch on the lift truck: the red indicator 1 will flash.
- Enter your user code followed by "V" to validate: the green indicator 2 will come on.
- Start the lift truck within 60 seconds. After this time, the anti-theft system reactivates and the red indicator 1 will flash.
- NOTE: If you make a mistake when entering the code, press key "A" to cancel and reenter the code in full. If you wait more than 5 seconds between key presses or do not complete entering the code, the anti-theft system will be reactivated and the red indicator will flash.

12 - SELF-CLEANING FAN CLEANFIX

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

A IMPORTANT A

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

OPERATION

- Set switch 1 to position A (indicator light on), the fan operates in self-cleaning mode for a few seconds once every 3 minutes.
- Set switch 1 to position B (indicator light on), the fan operates normally.

<u>13 - FUEL PREHEATER</u>

The paraffin particles found naturally in diesel crystallize at low temperatures. The fuel preheater limits their accumulation in the filter. Thinner will be added automatically when the ambient temperature is below 10 °C.

14 - ENGINE BLOCK HEATER

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

ENVIRONMENTAL CONDITIONS FOR USE:

• Maximum ambient temperature for using preheating: + 25 °C.

CONDITIONS FOR CONNECTION AND USE OF PREHEATING:

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

A IMPORTANT A

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







15 - BOOM ELECTRICAL PREDISPOSITION

Enables an electrical function to be used at the boom head.

ATTACHMENT LINE CONTROL

- Put switch 1 to position A (indicator lamp off).
- Push switch 3 forward or backward.

BOOM ELECTRIC FUNCTION CONTROL

- Set switch 1 to position B (indicator lamp on).

16 - ATTACHMENT CIRCUIT WITH QUICK-RELEASE COUPLERS

- Hold down button 2 and operate button 3 forward or backward.







<u>17 - EXTERIOR DRAIN-BACK</u> Enables connection of a hydraulic attachment for which drain-back is required.



18 - ATTACHMENT HYDRAULIC LOCKING

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

A IMPORTANT A

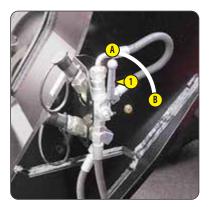
After locking the attachment, return switch 2 to position A (indicator lamp off) to prevent accidental unlocking of the attachment.

ATTACHMENT LOCKING CONTROL

- Put tap 1 in 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.

HYDRAULIC ATTACHMENT CONTROL

- Set valve 1 to position B and press switch 2 in position B (indicator lamp on).
- Push switch 3 forward or backward.







19 - BOOM HEAD ELECTROVALVE

Enables use of two hydraulic functions on the attachment circuit.

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

ATTACHMENT LINE L1 CONTROL

- Put switch 2 to position A (indicator lamp off).
- Push switch 3 forward or backward.

ATTACHMENT LINE L2 CONTROL

- Set switch 2 to position B (indicator lamp on).
- Hold down button 4 and operate button 3 forward or backward.







20 - BOOM HEAD ELECTROVALVE + ATTACHMENT HYDRAULIC LOCKING

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

A IMPORTANT A

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

Once the attachment is locked, return valve 4 to position B to prevent accidental release of the attachment.

ATTACHMENT LINE L1 CONTROL

- Put switch 2 to position A (indicator lamp off).
- Push switch 3 forward or backward.

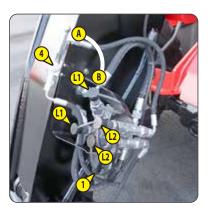
ATTACHMENT LINE L2 CONTROL + HYDRAULIC ATTACHMENT LOCKING

LOCKING AN ATTACHMENT

- Set valve 4 to position A.
- Set switch 2 to position B (indicator lamp on).
- Hold down button 5 and push button 3 forward to lock the attachment and backward to release it.

HYDRAULIC ATTACHMENT

- Set switch 2 to position B (indicator lamp on).
- Hold down button 5 and operate button 3 forward or backward.







21 - LIFTING RING ON SINGLE CARRIAGE

CONDITIONS OF USE

A IMPORTANT A

Follow the instructions given in the instruction manual (◀ 1 - OPERATING AND SAFETY INSTRUCTIONS: INSTRUCTIONS FOR HANDLING LOADS).

- The lifting ring must be used WITHOUT FORKS AND ATTACHMENTS, but the angle of inclination of the carriage must be same as when the forks are used in the horizontal position.
- Check the maximum permitted angle, which is 45°.
- Do not change the angle of the carriage while using the lifting ring.
- The lifting hook, the chains and slings shall have a minimum capacity of 3000 kg with a safety coefficient of 4 in relation to breakage.

LOAD CHARTS AND FUNCTION SHEETS

A IMPORTANT A

The load charts are defined for use without forks and without attachments.



22 - SINGLE SIDE-SHIFT CARRIAGE (TSDL)

MT-X 1033 100P ST3A S1

A IMPORTANT A

- The single side-shift carriage (TSDL) is only compatible with the following attachments:
- floating fork carriage (TFF)
- tilting fork carriage (PFB)
- loading bucket (CBR)
- concrete bucket (BB, BBG)
- chute bucket (GL)
- crane boom and crane boom with winch (P, PT, PO, PC)
- winch (H)
- fixed platform, swiveling platform, roofer's platform.
 - The use of any other attachment on the TSDL is forbidden.

If it is being used with a loading bucket (CBR), the single side-shift carriage MUST be centered and no side-shift operations performed.

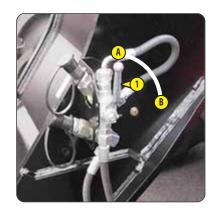
WITH BOOM HEAD COUPLER

ATTACHMENT LINE CONTROL

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

TSDL CONTROL

- Set valve 1 to position B.
- Push button 2 forward to move sideways to the right, and backward to move sideways to the left.





WITH BOOM HEAD ELECTROVALVE

TSDL LINE L1 CONTROL

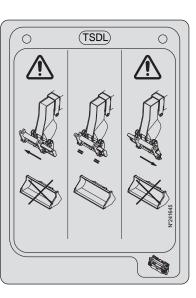
- Put switch 1 to position A (indicator lamp off).
- Push button 2 forward to move sideways to the right, and backward to move sideways to the left.

ATTACHMENT LINE L2 CONTROL

- Set switch 1 to position B (indicator lamp on).
- Hold down button 3 and operate button 2 forward or backward.







WITH BOOM HEAD ELECTROVALVE + PREARRANGED HYDRAULIC ATTACHMENT LOCKING

A IMPORTANT A

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

TSDL LINE L1 CONTROL

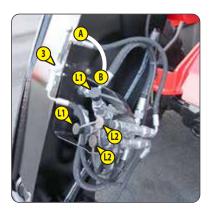
- Put switch 1 to position A (indicator lamp off).
- Push button 2 forward to move sideways to the right, and backward to move sideways to the left.

ATTACHMENT LINE L2 CONTROL

- Set switch 1 to position B (indicator lamp on).
- Set valve 3 to position A.
- Hold down button 4 and operate button 2 forward or backward.

ATTACHMENT LOCKING CONTROL

- Set switch 1 to position B (indicator lamp on).
- Set valve 3 to position B.
- Hold down button 4 and push button 2 forward to lock the attachment and backward to release it.







23 - LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE (EN15000)

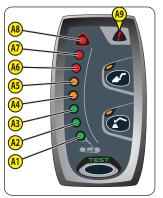
A IMPORTANT A

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 forklift 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 operating modes of the longitudinal stability limiter and warning device allow the operator to operate the lift truck in complete safety.

UPDATE: To gain maximum advantage from the longitudinal stability limiter and warning device of your lift truck, contact your dealer to receive the latest version of the software available.







HANDLING" MODE

USE ON FORKS

- By default, the device is in "HANDLING MODE each time the lift truck is started.
- Protection against tilting forward during aggravating movements is guaranteed, except when the telescope is retracted.

STATUS OF THE DEVICE		
HALTED	DRIVING	TELESCOPE(S) RETRACTED
A4-A5 : Very slow intermittent sound alarm.		
A6 : Slow intermittent sound alarm.	-No sound alarm.	- No sound alarm.
A7 : Fast intermittent sound alarm.	-Indicator lamp A9 on.	-Indicator lamp A9 on.
A8 : Very fast intermittent sound alarm.		



USE WITH BUCKET

- Place the lift truck in the transport position.
- Hold down the button, "BUCKET" MODE is confirmed by an sound signal and the indicator lamp coming on.
- Press this button again or switch off the ignition with the ignition key to return to "HANDLING" MODE.
- Protection against tilting forward during aggravating movements is guaranteed, except when the telescope is retracted.

STATUS OF	THE DEVICE	
HALTED	DRIVING	TELESCOPE(S) RETRACTED
The "DLICKET" mode deactivates automatically if the lift truck remains stationary	-No sound alarm.	- No sound alarm.
-The "BUCKET" mode deactivates automatically if the lift truck remains stationary.	-Indicator lamp A9 on.	-Indicator lamp A9 on.



"SUSPENDED LOAD" MODE

USE WITH LIFTING DEVICE (offering a higher margin of safety)

- Place the lift truck in the transport position.
- Press the button, the "SUSPENDED LOAD" MODE is confirmed by a sound signal and the indicator lamp coming on. Hydraulic tilting movements are neutralised, as well as the lifting movement when the longitudinal stability limit is reached (indicator lamp A8 lit).
- Press this button again or switch off the ignition with the ignition key to return to "HANDLING" MODE.
- Protection against tilting forward during aggravating movements is guaranteed, except when the telescope is retracted.

STATUS OF	THE DEVICE	
HALTED	DRIVING	TELESCOPE(S) RETRACTED
A4-A5 : Very slow intermittent sound alarm.		
A6 : Slow intermittent sound alarm.	-No sound alarm.	-No sound alarm.
A7 : Fast intermittent sound alarm.	-Indicator lamp A9 on.	-Indicator lamp A9 on.
A8 : Very fast intermittent sound alarm.		

A - VISUAL ALARMS

- A1 A2 A3: There is a significant reserve of longitudinal stability.
- A4 A5: The lift truck is nearing the limit of longitudinal stability. Maneuver with care.
- A6: The lift truck is close to the longitudinal stability limit. Maneuver with care.
- A7: The lift truck is very close to the longitudinal stability limit. Manoeuvre with extreme caution.
- A8: The lift truck is at the authorized limit of longitudinal stability.
- A9: The "AGGRAVATING" hydraulic movement cut-off is disabled.

B - HYDRAULIC MOVEMENT CUT-OFF

"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 - 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 device. Button C temporarily disables the cut-off of "AGGRAVATING" hydraulic movements.

- Hold down button C – indicator lamps A9 and C1 will light (60 second time delay) – and at the same time perform the necessary "AGGRAVATING" hydraulic movement with extreme care.

D - TESTING THE LONGITUDINAL STABILITY LIMITER AND WARNING DEVICE

- Press briefly on the button at any time to verify that the longitudinal stability alarm is working.
 - Correct operation: All the LEDs light for two seconds and an audible beep is sounded.
- NOTE: This test does not make it possible to check the correct adjustment of the longitudinal stability limiter device, which must be inspected daily or after every 10 hours of operation (Image: Stability Content in the stability of the stabil

E - FAULT INDICATOR LAMP

A permanently lit fault indicator lamp E, together with a combination of illuminated LEDs, indicates a major fault liable to affect the safety of the lift truck. Contact your agent or dealer.

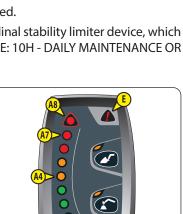
- The fault indicator lamp plus LEDs A1 and A7 lighting alternately with A4 and A8 indicate a defective link in the operation of the longitudinal stability limiter and warning device.
- The fault indicator lamp faulty box.

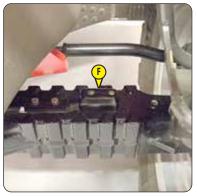
plus continuously lit LEDs A7 and A8 indicate a

F - STRAIN GAUGE



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









3 - MAINTENANCE

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:

A IMPORTANT A

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

- Legally, incurring liability in the event of an accident.
- Technically to cause operating malfunctions or shorten the life of the lift truck.

BY USING ORIGINAL MANITOU PARTS FOR MAINTENANCE OPERATIONS, YOU BENEFIT FROM OUR KNOW-HOW

Through its network, MANITOU provides the user with,

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

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

FORKLIFT TRUCK MAINTENANCE

DAILY AND WEEKLY MAINTENANCE

A IMPORTANT A

THE OPERATOR IS AUTHORIZED TO CARRY OUT THIS MAINTENANCE.

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

MANDATORY FIRST 500 HOURS OR 6 MONTHS OF SERVICE

A IMPORTANT A

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

PERIODIC MAINTENANCE

🛦 IMPORTANT 🛕

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

MAINTENANCE SCHEDULE

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

OCCASIONAL MAINTENANCE AND OPERATION

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

DAILY AND WEEKLY MAINTENANCE

DAILY SERVICE OR EVERY 10 HOURS OF SERVICE

- CHECK	Lift truck environment	
- CHECK	Engine oil level	
- CHECK	Coolant level	
- CHECK	Fuel pre-filter	
- CHECK	Longitudinal stability limiter and warning device.	
- CLEAN	Cyclonic pre-filter	3-15

WEEKLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE

- CHECK	Gearbox oil level	
- CHECK	Tire pressure	
- CHECK	Wheel nut tightening	
- CHECK	Front axle differential seal	
- CHECK	Rear axle differential seal	
- CHECK	Front wheel reducer seals	
- CHECK	Rear wheel reducer seals	
- CHECK	Brake fluid level	
- CHECK	Boom pad slide pathways	
- CHECK	Hydraulic fluid level	
- CHECK	Windshield washer fluid level	
- CLEAN	Radiator cores	
- CLEAN	Dry air filter cartridge	
- CLEAN	Condenser harness (Air conditioning OPTION)	
- LUBRICATE	General lubrication	

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MANDATORY FIRST 500 HOURS OR 6 MONTHS OF SERVICE

FIRST 500 HOURS BEFORE THE FIRST 6 MONTHS

- If the lift truck has reached the first 500 hours of operation before the first 6 months have expired, perform both the

mandatory maintenance and periodic 500 H maintenance (<< >1 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF service OR 1 YEAR).

FIRST 6 MONTHS BEFORE THE FIRST 500 HOURS

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

MANDATORY SERVICE

- CHECK	Gearbox oil level
- CHECK	Tire pressure
- CHECK	Wheel nut tightening
- CHECK	Front axle differential seal
- CHECK	Rear axle differential seal 3-16
- CHECK	Front wheel reducer seals
- CHECK	Rear wheel reducer seals 3-16
- CHECK	Brake fluid level
- CHECK	Boom pad slide pathways 3-17
- CHECK	Hydraulic fluid level
- CHECK	Windshield washer fluid level 3-18
- CLEAN	Radiator cores
- CLEAN	Dry air filter cartridge
- CLEAN	Condenser harness (Air conditioning OPTION)
- LUBRICATE	General lubrication
- CHECK	Fan belt tension
- CHECK	Alternator/crankshaft belt tension
- CHECK	Compressor belt tension (Air conditioning OPTION)
- CHECK	Angle gear box oil level 3-23
- CHECK	Parking brake
- CLEAN	Heating block check valve
- CHECK	Hydraulic oil
- LUBRICATE	Parking brake lever mechanism
- CHECK	Fork wear *
- CHECK	Seat belt
- CLEAN	Fuel tank
- CHECK	Engine shock mounts *
- CHECK	Valve lash *
- CHECK	Gearbox silent blocks *
- CHECK	Gear box controls *
- CHECK	Brake system pressure *
- CHECK	Boom pad wear *
- CHECK	Condition of wiring harnesses and cables *
- CHECK	Lights and signals *
- CHECK	Warning indicators *
- CHECK	Condition of the rear view mirrors *
- CHECK	Cab structure *
- CHECK	Chassis structure *
- CHECK	Attachment mounting system *
- CHECK	Condition of attachments *
	* Consult your dealer.

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PERIODIC MAINTENANCE

MAINTENANCE SCHEDULE

			0 0	R U			
SCHEDULE	0	250 H	FIRST 6 MONTHS	FIRST 500 HOURS	500 H or 1 YEAR	750 H	1000 H or 2 YEARS
PERIODIC MAINTENANCE	•	0	MANDATORY SERVICE	MANDATORY SERVICE + 2	0+0	0	0+0+6
MACHINE COUNTE	R 🕽						
DATE OF SERVICING	G 🗨						

SCHEDULE 🍮	1250 H	1500 H or 3 YEARS	1750 H	2000 H or 4 YEARS	2250 H	2500 H or 5 YEARS	2750 H
PERIODIC MAINTENANCE 🍣	0	0+0	0	0+2+8+4	0	0+0	0
MACHINE COUNTER 🔿							
DATE OF SERVICING 🔿							

	3000 H or 6 YEARS	3250 H	3500 H or 7 YEARS	3750 H	4000 H or 8 YEARS	4250 H	4500 H or 9 YEARS
PERIODIC MAINTENANCE	0+0+8	0	0+2	0	0+0+6+4	0	0+0
MACHINE COUNTER 🗢							
DATE OF SERVICING							

	4750 H	5000 H or 10 YEARS	5250 H	5500 H or 11 YEARS	5750 H	6000 H or 12 YEARS	6250 H
PERIODIC MAINTENANCE	0	0+0+6	0	0+0	0	0+0+8+4	0
MACHINE COUNTER 🔿							
DATE OF SERVICING							

PERIODIC MAINTENANCE - EVERY 250 HOURS OF SERVICE

- CHECK	Fan belt tension	
- CHECK	Alternator/crankshaft belt tension	
- CHECK	Compressor belt tension (Air conditioning OPTION)	
- CHECK	Angle gear box oil level	
- CHECK	Parking brake	
- CLEAN	Heating block check valve	

PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR

- CHECK	Hydraulic oil	
- LUBRICATE	Parking brake lever mechanism	3-24
- REPLACE	Engine oil	3-25
- REPLACE	Engine oil filter	3-25
- REPLACE	Fuel pre-filter cartridge	3-26
- REPLACE	Fuel filter cartridge	3-26
- REPLACE	Gearbox oil filter	3-27
- REPLACE	Front axle differential oil	3-27
- REPLACE	Rear axle differential oil	3-27
- REPLACE	Hydraulic return oil filter cartridge	
- REPLACE	Cab ventilation filters	3-28
- CHECK	Fork wear *	3-28
	*	Consult your dealer.

PERIODIC MAINTENANCE - EVERY 1,000 HOURS OF SERVICE OR 2 YEARS

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

- CHECK	Seat belt	3-30
- CLEAN	Fuel tank	3-30
- REPLACE	Coolant	3-30
- REPLACE	Dry air filter cartridge	3-31
- REPLACE	Gearbox oil	3-32
- CLEAN	Gearbox sump strainer	3-32
- REPLACE	Angle gearbox oil	3-33
- REPLACE	Front wheel reducer oil	3-33
- REPLACE	Rear wheel reducer oil	3-33
- CHECK	Engine shock mounts *	3-34
- CHECK	Valve lash *	3-34
- CHECK	Gearbox silent blocks *	3-34
- CHECK	Gear box controls *	3-34
- CHECK	Brake system pressure *	3-34
- CHECK	Boom pad wear *	
- CHECK	Condition of wiring harnesses and cables *	3-34
- CHECK	Lights and signals *	3-34
- CHECK	Warning indicators *	3-34
- CHECK	Condition of the rear view mirrors *	3-34
- CHECK	Cab structure *	3-34
- CHECK	Chassis structure *	3-34
- CHECK	Attachment mounting system *	3-34
- CHECK	Condition of attachments *	3-34
- REPLACE	Brake fluid *	3-34
- BLEED	Braking system *	3-34
- ADJUST	Brake *	3-34
	* Consult	ways daalar

* Consult your dealer.

PERIODIC MAINTENANCE - EVERY 2,000 HOURS OF SERVICE OR EVERY 4 YEARS

	ALSO PERFORM THE 500-HOUR AND 1,000-HOUR PERIODIC MAINTENANCE PROCEL	DURES.
- CHECK	Wheel nut tightening torque	
- CLEAN	Air conditioning (OPTION) *	
		* Consult your dealer.
- REPLACE	Dry air filter safety cartridge	
- REPLACE	Hydraulic oil	
- CLEAN	Hydraulic oil tank suction strainer	
- REPLACE	Hydraulic oil tank filter cap	
- REPLACE	Distributor control head filter	
- CHECK	Radiator *	
- CHECK	Water pump and thermostat *	
- CHECK	Alternator and starter *	
- CHECK	Turbocharger *	
- CHECK	Transmission pressures *	
- CHECK	Steering *	
- CHECK	Steering swivel joints *	
- CHECK	Condition of boom assembly *	
- CHECK	Bearings and bushings of the boom *	
- CHECK	Condition of hoses and flexible pipes *	
- CHECK	Condition of cylinders (leakage, rods) *	
- CHECK	Hydraulic circuit pressures *	
- CHECK	Chassis bearings and bushings*	
- CLEAN	Hydraulic pump tubular filter *	
		* Consult your dealer.

OCCASIONAL MAINTENANCE AND OPERATION

OCCASIONAL MAINTENANCE

- REPLACE	Wheels
- BLEED	Fuel supply system
- ADJUST	Front headlights
- RESET	Longitudinal stability limiter and warning device

OCCASIONAL OPERATION

- TOW OR WINCH	Lift truck	3-44
- SLING	Lift truck	3-44
- TRANSPORT	Lift truck	3-45

FILTER CARTRIDGES AND BELTS

3 2 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR



ENGINE OIL FILTER Part No.: 476954

Part No.: 706497



GEARBOX OIL FILTER Part No.: 561749



HYDRAULIC RETURN OIL FILTER CARTRIDGE Part No.: 236095



FUEL FILTER CARTRIDGE Part No.: 605013

FUEL PRE-FILTER CARTRIDGE



CAB VENTILATION FILTER Part No.: 282619

3 O 1000H - PERIODIC MAINTENANCE - EVERY 1,000 HOURS OF SERVICE OR 2 YEARS

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



DRY AIR FILTER CARTRIDGE Part No.: 563416

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

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



SAFETY DRY AIR FILTER CARTRIDGE Part No.: 563415



FILTER CAP FOR HYDRAULIC FLUID TANK Part No.: 62415



DISTRIBUTOR CONTROL HEAD FILTER Part No.: 254780

OCCASIONAL MAINTENANCE



ALTERNATOR BELT Part No.: 702974



FAN BELT Part No.: 257524



COMPRESSOR BELT (AIR CONDITIONING OPTION) Part No.: 244237



CYCLONIC PRE-FILTER Part No.: 224713



AUTOMATIC VACUUM-CLEANING PRE-FILTER (OPTION) Part No.: 226611



TURBO 2 SELF-CLEANING PRE-FILTER (OPTION) Part No.: 266360



SUCTION STRAINER FOR HYDRAULIC OIL TANK Part No.: 224726



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

(*) REQUIRED FUEL SPECIFICATION

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

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

RECOMMENDATION

ENGINE											
DESCRIPTION	CAPACITY RECOMMENDATION										
		-40°C	-30	-20	-10	0	+10	+20	+30	+40	+50°C
				0W	/20						
					0W	30					
						0W40					
						5W30					
						5V	/40				
							10W30				
ENGINE	11 ℓ					M	ANITOU PRE	MIUM OIL 1	5W40 API (CI4	
		-40°C	-30	-20	-10	0	+10	+20	+30	+40	+50°C
		ļ I .									
COOLING CIRCUIT	18,5 ℓ		i			C	DOLANT-35	°C			
	T	-40°C	-30	-20	-10	0	+10	+20	+30	+40	+50°C
								<u> </u>			
FUELTANK	120 l						HP NON-RO	AD DIESEL (GNR) *		

TRANCHICCION

TRANSMISSION											
DESCRIPTION	CAPACITY	RECOMMENDATION									
		-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C
GEARBOX	16,6 L				MANI	TOU DX III	G AUTOMAT	IC TRANSM	ISSION OIL		
		-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C
ANGLE GEARBOX	2,2 ℓ				MANI	TOU SAE8	W90 MECH	ANICAL TRA	ANSMISSION	I OIL	

FRONT AXLE DESCRIPTION CAPACITY RECOMMENDATION SPECIAL MANITOU OIL FOR IMMERSED BRAKES FRONT AXLE DIFFERENTIAL **8,1**ℓ -40 °C +20 +50 ℃ -30 -20 10 +10 +30 FRONT WHEEL REDUCING GEAR 2 x 0,8 l MANITOU SA CAL TRANSMIS -40 °C -30 -20 -10 +40 +10 +20+30 +50 °C FRONT WHEEL REDUCING GEAR PIVOTS MANITOU BLACK MULTI-PURPOSE LUBRICANT

 	 	_	_	-

REAR AXLE												
DESCRIPTION	CAPACITY		RECOMMENDATION									
REAR AXLE DIFFERENTIAL	8,1 l	SPECIAL MANITOU OIL FOR IMMERSED BRAKES										
		-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C	
REAR WHEEL REDUCING GEAR	2 x 0,8 ℓ				MAN	ITOU SAE8	0W90 MECH	ANICAL TR	ANSMISSIO	N OIL		
		-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C	
REAR WHEEL REDUCING GEAR PIVOTS						MANITO	U BLACK MU	JLTI-PURPO	SE LUBRICA	NT		
L		-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C	
REAR AXLE OSCILLATION						MANITOU	BLUE MULTI	-PURPOSE L	UBRICANT			

BRAKES		
DESCRIPTION	CAPACITY	RECOMMENDATION
BRAKE SYSTEM	1ℓ	MANITOU MINERAL BRAKE FLUID

BOOM											
DESCRIPTION	RECOMMENDATION										
	-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C	
BOOM PAD SLIDE PATHWAYS	MANITOU BLACK MULTI-PURPOSE LUBRICANT										
	-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C	
GREASING OF THE BOOM	MANITOU BLUE MULTI-PURPOSE LUBRICANT										

HYDRAULICS

DESCRIPTION	CAPACITY	RECOMMENDATION											
		-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C		
								ISO V	G 100				
							ISC) VG 68					
HYDRAULIC OIL TANK	110 L				MANI	rou iso v	/G 46 HYI	DRAULIC	FLUID				
						ISO VG	37						
					ISC	VG 68							

САВ											
DESCRIPTION	CAPACITY	RECOMMENDATION									
		-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C
CAB DOOR		MANITOU BLUE MULTI-PURPOSE LUBRICANT									
WINDSHIELD WASHER TANK	2 l	WINDSHIELD WASHER FLUID									
COMPRESSOR (AIR CONDITIONING	0.24.0										
OPTION)	0,24 ℓ						ERAL OIL				

CHASSIS											
DESCRIPTION	CAPACITY	RECOMMENDATION									
		-40 °C	-30	-20	-10	0	+10	+20	+30	+40	+50 °C
STABILIZERS MT-X 1033 100P ST3A S1					MAN	NITOU BL	UE MULTI	-PURPOS	E LUBRIC	ANT	

PACKAGING

OIL												
PRODUCT	PACKAGING / PART NUMBER											
PRODUCI	Aerosol	0,24 ℓ	1ℓ	2 ℓ	5 l	20 l	55 l	209 ℓ				
- MANITOU PREMIUM OIL 15W40 API CI4					895831	895832	895833	895834				
- MANITOU DX IIIG AUTOMATIC TRANSMISSION OIL			958186		947972	947973	947974	947975				
- MANITOU ISO VG 46 HYDRAULIC FLUID					545500	582297	546108	546109				
- MANITOU MINERAL BRAKE FLUID			490408					4500078				
- SPECIAL MANITOU OIL FOR IMMERSED BRAKES					545976	582391		894257				
- MANITOU SAE80W90 MECHANICAL TRANSMISSION OIL				499237	720184	546330	546221	546220				
- R12 MINERAL OIL	961249	961248										

GREASE											
PRODUCT	PACKAGING / PART NUMBER										
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		554974	958177	958176					

LIQUID											
PRODUCT	PACKAGING / PART NUMBER										
	1ℓ	2 l	5 l	20 l	55 l	210 l					
- COOLANT -35 °C			894967	894968		894969					
- WINDSHIELD WASHER FLUID	490402		486424								

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

CHECK

Lift truck environment

Carry out a general inspection around the lift truck:

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

A IMPORTANT A

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

CLEANLINESS OF THE FORKLIFT

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

CHECK

Engine oil level

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

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



CHECK

Coolant level

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

A IMPORTANT A

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

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

- Open the engine hood.
- Check the correct level in the middle of gauge 1.
- If necessary, add coolant (</ LUBRICANTS AND FUEL).
- Slowly turn the cap of the radiator 2 up to the safety stop.
- Allow the pressure and the steam to escape.
- Press down and turn the cap so as to release it.
- Add coolant via filler port 3 up to the middle of gauge 1.
- Lubricate slightly the filler neck in order to facilitate the setting and the removal of the radiator cap.
- Visually check that there is no leakage or seepage.



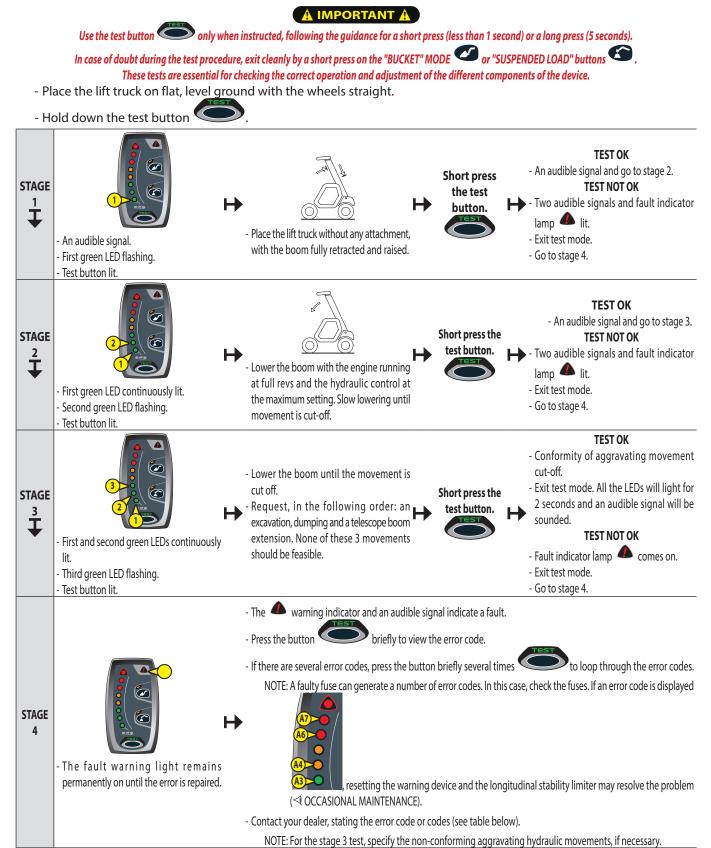
Fuel pre-filter

A IMPORTANT A

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

- Open the engine hood.
- Check for the presence of water in pre-filter tank 1 and drain if necessary.
- Place a receptacle under the drain plug 2 and loosen it in two to three thread turns.
- Allow the diesel fuel to flow out until it is free from impurities and water.
- Retighten the drain plug while the diesel fuel is flowing out.





- The error codes are indicated by LEDs A3 to A7 on the warning device and longitudinal stability limiter.



ERROR CODES			1.004		
DESCRIPTIONS		A7 A6		LEDS A5 A4	
- Regulation fault (fault detected during test).	*	*	*	*	A3
- Lowering control valve fault.	*	*	*	*	0
- Safety valve cut-off fault (fault detected during the test).	*	*	*	0	*
- Safety valve fault.	*	*	*	0	0
- Gauge calibration fault (fault detected during test). esetting the warning device and longitudinal stability limiter can resolve the anomaly (<> OCCASIONAL MAINTENANCE).	*	*	0	*	*
- Angle calibration fault (fault detected during test).	☀	*	0	☀	0
- Tilting cut-off valve fault.	☀	*	0	0	*
- Strain gauge fault.	☀	0	*	☀	*
- Boom angle sensor fault.	☀	0	*	☀	0
- Telescope or attachment control fault.	☀	0	☀	0	*
- Telescope retraction sensor fault.	☀	0	☀	0	0
- Computer ground output fault.	☀	0	0	☀	*
- Aggravating hydraulic movement cut-off disable fault.	☀	0	0	☀	0
- Stability indicator fault.	0	*	☀	☀	0
- Electronic handling controller fault.	0	*	*	0	*
- Hydraulic control lever control setting fault.	0	*	*	0	0
- Transmission cut-off output fault.	0	*	0	☀	*
- Electronic handling controller supply fault.	0	*	0	0	*
- Telescope retraction sensor fault (fault detected during the test).	0	*	0	0	0
- Boom head electrovalve fault (OPTION).	0	0	*	*	0
- Electrovalve attachment hydraulic control button fault and telescope electrical predisposition (OPTION).	0	0	*	0	0
- Handling electric controller 10V output fault.	0	0	0	☀	0

CLEAN

Cyclonic pre-filter

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.



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

CHECK

Gearbox oil level

Park the lift truck on level ground with the boom raised and the engine stopped. Carry out the check within 5 minutes of the engine being stopped.

A IMPORTANT A

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

- Remove the plastic cap 1.
- Pull out the dipstick 2.
- Wipe the dipstick and check the correct level between the two MIN and MAX marks.
- If necessary, add oil (1000H: REPLACE Gearbox oil).
- Visually check that there is no leakage or seepage.



CHECK	Tire pressure
CHECK	Wheel nut tightening

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. Inflate to the recommended tire pressures.

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

NOTE: An OPTIONAL wheel tool kit is available.

СНЕСК	Front axle differential seal
CHECK	Rear axle differential seal

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

- Visually check that there is no leakage or seepage.
- If there is any leakage or seepage, check the level:
 - Remove the level plug 1, the oil should be flush with the edge of the hole.
 - \bullet If necessary, add oil (</ LUBRICANTS AND FUEL) through the filler hole 2.
 - Refit and tighten the level plug (tightening torque 34 49 N.m).



СНЕСК	Front wheel reducer seals
CHECK	Rear wheel reducer seals

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

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



- Remove the surplus lubricant.

- Fully extend the boom.

whitened) without traces of corrosion.

647777 (31/01/2022) MT-X 733 95P/1033 100P ST3A S1

Brake fluid level

Boom pad slide pathways

Place the lift truck on level ground.

A IMPORTANT A

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

To preserve optimum operation, the pad slide pathways should be correctly lubricated: 🛕 IMPORTANT 🛕 MANDATORY GREASING OF THE BOOM AFTER: Cleaning the boom, especially after using high pressure cleaner. The forklift has been unused for a long period of time.

- Check the condition of the surface of the pad slide pathways, surface run in (steel

- If necessary lubricate the pad slide pathways (◄ LUBRICANTS AND FUEL). - Telescope the boom several times in order to spread the lubricant evenly.

A IMPORTANT A

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

3 - 17

- Loosen screw 1 and lift up the brake fluid and windshield washer tank access panel 2.
- Check tank 3. The correct level should be at the MAX. level on the tank.
- Visually check that there is no leakage or seepage.
- If necessary, add oil (< LUBRICANTS AND FUEL).
- Pivot the tank 3 to access filler cap 4.
- Remove the cap 4.
- Add oil through filler port.
- Refit the cap.





CHECK

CHECK

CHECK

Hydraulic fluid level

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

A IMPORTANT A

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

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





CHECK

Windshield washer fluid level

Radiator cores

Place the lift truck on level ground.

- Loosen screw 1 and lift up the brake fluid and windshield washer tank access panel 2.
- Visually check the level in the tank.
- If necessary, add windshield washer fluid (◄ LUBRICANTS AND FUEL).
- Remove the cap 3.
- Add windshield washer liquid through filler port.
- Refit the cap.







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 fins.

- Open the engine hood.
- If necessary, clean the intake grille on the engine cover.
- Using a soft cloth, clean the radiator cores in order to remove as much dirt as possible.
- Clean the cores using a compressed air jet aimed in the same direction as the cooling air flow.
- Clean with the fan running for best results.



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

A IMPORTANT A

If the clogging indicator lamp comes on, this operation should be performed as soon as possible (maximum 1 hour). Never operate the lift truck without an air filter or with an air filter that is damaged. Maintain a safety distance of 30 mm between the jet of air and the cartridge to avoid tearing or piercing the cartridge. The cartridge must not be blown through close to the air filter casing. Never clean the cartridge by tapping it on a hard surface. Protect your eyes during this operation.

Do not clean the dry air filter cartridge by washing it in liquid.

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

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

CLEAN

Condenser harness (Air conditioning OPTION)

A IMPORTANT A

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

- Remove the protective grid 1 and clean it if necessary.
- Visually check whether the condenser is clean and clean it if necessary.
- Clean the condenser using a compressed air jet aimed in the same direction as the air flow.
- Clean with the fans running for best results.



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

A IMPORTANT A

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

Clean, then lubricate the following points with grease (

BOOM

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

CAB DOOR

9 - Door lubricators (4 lubricators).

FRONT AND REAR WHEEL REDUCTION GEAR PIVOTS

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

REAR AXLE OSCILLATION

11 - Rear axle oscillation lubricators (2 lubricators).

STABILIZERS

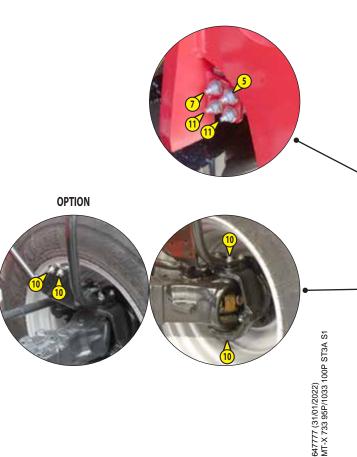
MT-X 1033 100P ST3A S1

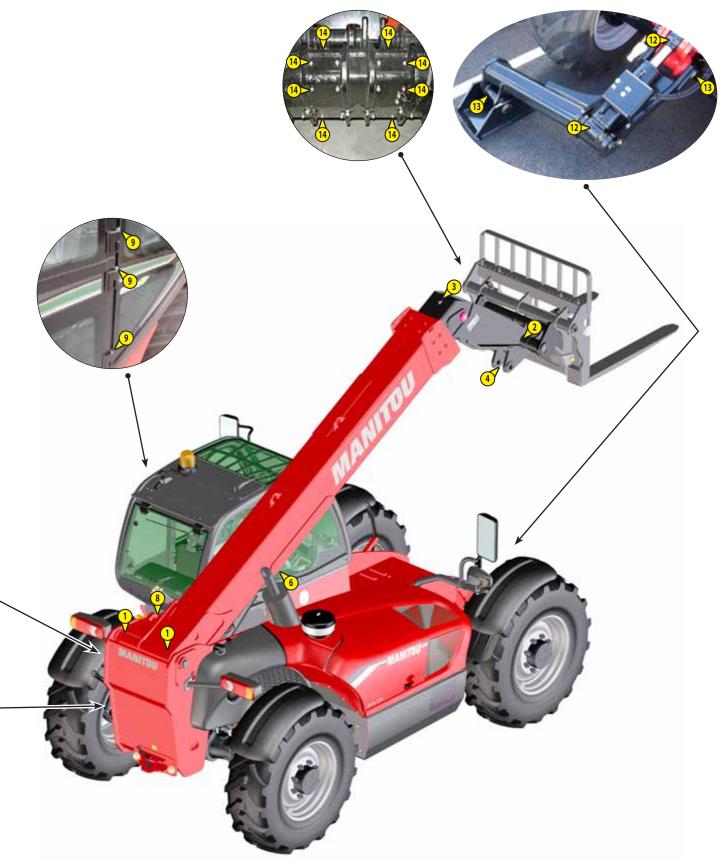
- 12 Lubricators of the stabilizer cylinder shafts (4 lubricators).
- 13 Lubricators of the stabilizer shafts (4 lubricators).

SINGLE SIDE-SHIFT CARRIAGE (TSDL) (OPTION)

MT-X 1033 100P ST3A S1

14 - Wear plate lubricators (8 lubricators).





3 0 250H - PERIODIC MAINTENANCE - EVERY 250 HOURS OF SERVICE

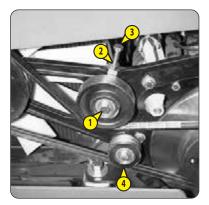
CHECK

Fan belt tension

A IMPORTANT A

When changing the fan belt, tighten screw 3 by one and a half turns, having allowed the I.C. engine to idle for 30 minutes.

- Open the engine hood.
- Check the belt for signs of wear and cracks, and change if necessary (FILTER CARTRIDGES AND BELTS).
- Loosen the screw 1 on the tensioning pulley.
- Loosen the lock-nut 2 and the screw 3.
- Tighten the screw 2 until the belt is as close as possible to the groove of the pulley.
- Make a mark on the head of screw 3 and tighten, turning it 5 times.
- Tighten the lock nut 2.
- Retighten tensioning pulley screw 1.





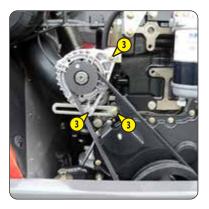
CHECK

Alternator/crankshaft belt tension

A IMPORTANT A

- If the alternator belt has to be changed, check the tension again after the first 20 hours of operation.
- Open the engine hood.
- Unscrew the fastening screws 1.
- Remove the protective casing 2.
- Check the belt for signs of wear and cracks, and change if necessary (FILTER CARTRIDGES AND BELTS).
- Check the tension between the crankshaft and alternator pulleys.
- Under a normal pressure exerted with the thumb (45 N), the clearance should be approximately 10 mm.
- Adjust if necessary.
- Loosen screws 3 by two to three thread turns.
- Swivel the alternator assembly so as to obtain the belt tension required.
- Retighten screws 3 (tightening torque 22 N.m).
- Refit the protective casing 2.





CHECK

Compressor belt tension (Air conditioning OPTION)

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 hood.
- Unscrew the fastening screws 1.
- Remove the protective casing 2.
- Check the belt for signs of wear and cracks, and change if necessary (FILTER CARTRIDGES AND BELTS).
- Check the belt tension between the pulleys of the crankshaft and the compressor.
- Under a normal pressure exerted with the thumb (45 N), the clearance should be approximately 10 mm.
- Adjust if necessary.
- Loosen screws 3 by two to three thread turns.
- Swivel the compressor assembly so as to obtain the belt tension required.
- Retighten the screws 3.
- Refit the protective casing 2.





CHECK

Angle gear box oil level

Park the lift truck on level ground with the boom raised and the engine stopped.

A IMPORTANT A

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

- Pull out the dipstick 1.
- Wipe the dipstick and check the correct level between the two MIN and MAX marks.
- If necessary, add oil (1000H: REPLACE Angle gearbox oil).
- Visually check that there is no leakage or seepage.

CHECK

Parking brake

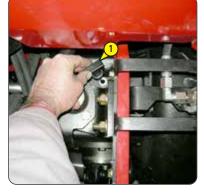
Place the lift truck on a slope of at least 15% with the rated load in the transport position.

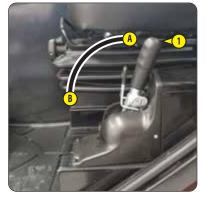
- Check the tightening adjustment by locking the parking brake in position A.
- The adjustment is correct when the lift truck remains stationary on the slope.
- Adjust if necessary.
- Press the brake pedal, then release the parking brake in position B.
- Progressively tighten the end of the lever 1 and recheck braking.
- Repeat the operation until the correct braking adjustment is obtained.

CLEAN

Heating block check valve

- Since one-way valve 1 is located under the cab, it is possible for it to become obstructed with spattered mud for example. Clean if necessary.







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

CHECK

Hydraulic oil

MANITOU offers a hydraulic fluid analysis kit which might make it possible to delay the recommended deadline in the periodic maintenance schedule (2,000 hours). In this case, we recommend an analysis of the hydraulic oil every 500 hours of service.

The oil analysis kit also makes it possible to confirm the oil quality so as to obtain a deadline of 2,000 hours for specific uses causing constraints on the hydraulic circuit: extreme environmental conditions, use of the attachments with a very high hydraulic flow rate (such as a sweeper, or a concrete mixer).

- Order an oil analysis kit from your dealer.
- Upon receiving the kit, take a sample of oil and follow the instructions shown on the kit.
- According to the results, keep the analysis report or replace the hydraulic fluid. Oil analysis kit (MANITOU Part No.: 958162).

LUBRICATE

Parking brake lever mechanism

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





Engine oil

REPLACE

REPLACE

Engine oil filter

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

A IMPORTANT A

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

DRAINING THE OIL

- Open the engine hood.
- Remove access panel 1.
- NOTE: When removing cover plates and hatches, clean the surrounding area and remove any accumulations of flammable materials.
- Place a container under the drain port 2 and unscrew the drain plug 3.
- Take drain hose 4.
- Place the end of the drain hose in the container and screw the hose fully to the drain connector 5.
- Remove the filler plug 6 to ensure correct drainage.

REPLACEMENT OF THE FILTER

- Unscrew and discard the engine oil filter 7, together with its seal.
- Clean the filter bracket with a clean, lint-free cloth.
- Lightly grease the seal before refitting the new oil filter (FILTER CARTRIDGES AND BELTS) on its bracket.

FILLING WITH OIL

- Remove, clean and refit drain hose 4.
- Refit and tighten the drain plug 3.
- Fill up with oil (≪ LUBRICANTS AND FUEL) through filler hole 8.
- Wait a few minutes to allow the oil to flow into the sump.
- Start the engine and let it run for a few minutes.
- Check for possible leaks from the drain plug and the oil filter.
- Stop the engine, wait a few minutes and check the correct level between the two marks on the dipstick 9.
- Top up the level, if necessary.
- Refit the access cover 1.













Fuel pre-filter cartridge

A IMPORTANT A

Make sure the electrical contact on the lift truck is cut, otherwise fuel will be released if the lift pump is on.

- Open the engine hood.
- Carefully clean the outside of the pre-filter and its holder, to prevent dust from getting into the system.
- Place a receptacle under the pre-filter and empty using drain plug 1.
- Open bleed screw 2 to ensure proper emptying.
- Unscrew locking screw 3.
- Remove the housing 4 and discard the pre-filter 5 as well as its seals.
- Clean the inside of the pre-filter head and the housing, using a brush immersed in clean diesel oil.
- Refit the assembly with a new pre-filter and new seals (FILTER CARTRIDGES AND BELTS).
- If necessary, bleed the fuel supply system (</br>

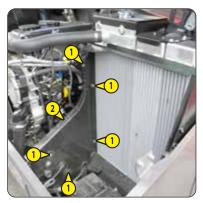
REPLACE

Fuel filter cartridge

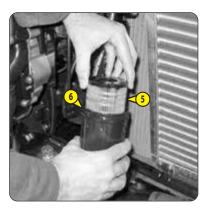
A IMPORTANT A

- Make sure the electrical contact on the lift truck is cut, otherwise fuel will be released if the lift pump is on. - Open the engine hood.
- Unscrew the fastening screws 1.
- Remove the protective casing 2.
- Carefully clean the outside of the filter and its holder, to prevent dust from getting into the system.
- Place a receptacle under the filter and empty using drain plug 3.
- Undo the filter housing 4.
- Remove the filter cartridge by pressing cartridge 5 down against the pressure of the spring and turn it to the left to extract it.
- Insert a new cartridge (< FILTER CARTRIDGES AND BELTS) by pressing cartridge 5 down against the pressure of the spring and turning it to the right to lock it into the body of the filter.
- Place the new seal 6 onto the body of the filter and lightly lubricate the contact surface of the seal using clean motor oil.
- Remount the body of the filter onto its holder, hand-tighten it only and lock it with a quarter-turn.
- Close drain plug 3 and remove the receptacle.
- Before starting the engine, leave the ignition on for three minutes on the lift truck, to give the lift pump time to release air from the filter.
- Start up the I.C. engine and make sure there is no leakage.
- If necessary, bleed the fuel supply system (◄ OCCASIONAL MAINTENANCE).









REPLACE

Gearbox oil filter

A IMPORTANT A

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

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

- Remove the cover plate 1.
- NOTE: When removing cover plates and hatches, clean the surrounding area and remove any accumulations of flammable materials.
- Unscrew and discard gearbox oil filter 2.
- Carefully clean the filter head with a clean, lint-free cloth.
- Lightly oil the new seal and fit it to the filter.
- Fill up the new gearbox oil filter (FILTER CARTRIDGES AND BELTS) with oil ((LUBRICANTS AND FUEL).
- Refit the filter, making sure that the seal is correctly positioned and tightened.
- Refit cover plate 1.

REPLACE	Front axle differential oil
REPLACE	Rear axle differential oil

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

- Dispose of the used oil in an ecological manner.
- Place a container under drain plugs 1 and unscrew them.
- Remove level plug 2 and filling plug 3 to ensure that the oil is drained properly.
- Refit and tighten the drain plugs 1 (tightening torque 34 49 N.m).
- Fill up with oil (</ LUBRICANTS AND FUEL) through filler hole 3.
- The level is correct when the oil level is flush with the edge of opening 2.
- Check for any possible leaks at the drain plugs.
- Refit and tighten level plug 2 (tightening torque 34 49 N.m) and filling plug 3 (tightening torque 34 49 N.m).
- Repeat this operation for the rear axle differential.

Hydraulic return oil filter cartridge

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

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.

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

- Place a container under hydraulic return oil filter 1.
- Unscrew the body of the filter.

REPLACE

- Remove the hydraulic return oil filter cartridge and replace with a new one (≪ FILTER CARTRIDGES AND BELTS).
- Make sure that the cartridge is correctly positioned and refit the body of the filter.
- Wait a few moments while the oil flows into the container.









REPLACE

Cab ventilation filters

- Unscrew thumbscrew 1 and remove protective casing 2.
- Remove the cab ventilation filter 3 and replace it with a new one (FILTER CARTRIDGES AND BELTS).
- Refit the protective casing.





CHECK

Fork wear *
*Consult your dealer.

3 - 29

3 3 1000H - PERIODIC MAINTENANCE - EVERY 1,000 HOURS OF SERVICE OR 2 YEARS

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

CHECK

A IMPORTANT A

Seat belt

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

Immediately repair or replace the seat belt.

SEAT BELT WITH TWO ANCHORING POINTS

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

REELED SEAT BELT WITH TWO ANCHORING POINTS

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

NOTE: After an accident, replace the seat belt.

CLEAN

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.
- Remove the filler plug 2 to ensure correct drainage.
- Rinse with ten liters of clean diesel through the filler hole 3.
- Refit and tighten the drain plug 1 (tightening torque 29 39 N.m).
- Fill the fuel tank with clean diesel filtered through the filler port.
- Refit the filler plug.
- If necessary, bleed the fuel supply system (</br>





REPLACE

Coolant

Fuel tank

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

A IMPORTANT A

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

DRAINING THE LIQUID

- Open the engine hood.
- Remove the cover plate 1.



- NOTE: When removing cover plates and hatches, clean the surrounding area and remove any accumulations of flammable materials.
- Place a container under drain valve 2 on the radiator and drain plug 3 of the engine block and loosen the plugs.
- Remove radiator filler cap 4.
- Let the cooling circuit drain entirely while ensuring that the ports do not get clogged.
- Check the condition of the hoses as well as the fastening devices and change the hoses if necessary.
- Rinse the circuit with clean water and use a cleaning agent if necessary.

FILLING WITH COOLANT

- Tighten the drain valve 2 and drain plug 3 (tightening torque 40 N.m).
- Slowly fill up the circuit with coolant (< LUBRICANTS AND FUEL) up to the middle of gauge 5 through filler port 6.
- Refit the filler plug 4.
- Run the engine at idle for a few minutes.
- Check for any possible leaks.
- Refit cover plate 1.
- Check the level and top up if necessary.







REPLACE

Dry air filter cartridge

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

A IMPORTANT A

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

- Open the engine hood.
- Loosen the locks and remove cover 1.
- Gently remove the cartridge 2 to reduce dust falling as far as possible.
- Leave the safety cartridge in place.
- Carefully clean the following parts with a damp, clean lint-free cloth.
 - The inside of the filter and cover.
 - The inside of the filter inlet hose.
 - The gasket surfaces in the filter and in the cover.
- Check pipes and connections between the air filter and the engine and the connection and state of the clogging indicator on the filter.
- Before fitting check the condition of the new cartridge (◄ FILTER CARTRIDGES AND BELTS).
- Insert the cartridge in the filter axis and push the cartridge pressing against the outer edge and not in the center.
- Reassemble the cover, guiding the valve downwards.



Gearbox oil

CLEAN

Gearbox sump strainer

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

A IMPORTANT A

Raise the boom and place the boom safety wedge on the rod of the lifting cylinder (◄ 1 - INSTRUCTIONS AND SAFETY RECOMMENDATIONS: LIFT TRUCK MAINTENANCE INSTRUCTIONS). Dispose of the used oil in an ecological manner.

DRAINING THE OIL

- Place a container under drain plug 1 and under cover 2 and unscrew the drain plug.Remove the cover plate 3.
- NOTE: When removing cover plates and hatches, clean the surrounding area and remove any accumulations of flammable materials.
- Remove dipstick 4 and unscrew filling plug 5 in order to ensure that the oil is drained properly.

CLEANING THE SUCTION STRAINER

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

FILLING WITH OIL

- Refit and tighten the drain plug 1 (tightening torque 34 54 N.m).
- Fill up with oil (LUBRICANTS AND FUEL) through the filler port 5 and refit the plug.
- Start the engine and let it run for a few minutes.
- Check any possible leaks from the drain plug or cover.
- Stop the engine, and within 5 minutes of the engine being stopped, check the correct level between the MIN and MAX marks on the dipstick 4.
- Top up the level, if necessary.
- Refit cover plate 3.









Angle gearbox oil

REPLACE

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

A IMPORTANT A

Raise the boom and place the boom safety wedge on the rod of the lifting cylinder (≪1 1 - INSTRUCTIONS AND SAFETY RECOMMENDATIONS: LIFT TRUCK MAINTENANCE INSTRUCTIONS). Dispose of the used oil in an ecological manner.

- Place a container under drain plug 1 and unscrew the plug.
- Remove dipstick 2 and unscrew filling plug 3 in order to ensure that the oil is drained properly.
- Refit and tighten the drain plug 1 (tightening torque 20 29 N.m).
- Fill up with oil (</ LUBRICANTS AND FUEL) through the filler port 3 and refit the plug.
- Check the correct level between the MIN and MAX marks on dipstick 2.
- Check for any possible leaks at the drain plug.



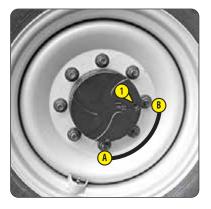


REPLACE	Front wheel reducer oil
REPLACE	Rear wheel reducer oil

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



- Dispose of the used oil in an ecological manner.
- Drain and change the oil of each wheel reduction gear.
- Place drain plug 1 in position A.
- Place a container under the drain plug and unscrew the plug.
- Let the oil drain fully.
- Place the drain port in position B, i.e. in a level port.
- Fill up with oil (LUBRICANTS AND FUEL) through level hole 1.
- The level is correct when the oil level is flush with the edge of the hole.
- Refit and tighten the drain plug (tightening torque 34 49 N.m).



СНЕСК	Engine shock mounts *
СНЕСК	Valve lash *
СНЕСК	Gearbox silent blocks *
СНЕСК	Gear box controls *
СНЕСК	Brake system pressure *
СНЕСК	Boom pad wear *
СНЕСК	Condition of wiring harnesses and cables *
СНЕСК	Lights and signals *
СНЕСК	Warning indicators *
СНЕСК	Condition of the rear view mirrors *
СНЕСК	Cab structure *
СНЕСК	Chassis structure *
СНЕСК	Attachment mounting system *
СНЕСК	Condition of attachments *
REPLACE	Brake fluid *
BLEED	Braking system *
ADJUST	Brake *
	* Consult your dealer.

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

ALSO PERFORM THE 500-HOUR AND 1,000-HOUR PERIODIC MAINTENANCE PROCEDURES.

CHECK

Wheel nut tightening torque

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

CLEAN

Air conditioning (OPTION) *

CLEANING CONDENSER AND EVAPORATOR COILS

CLEANING CONDENSATE TRAY AND RELIEF VALVE

COLLECTING COOLANT TO REPLACE DRIER FILTER

REFILLING WITH COOLANT AND CHECKING THE THERMOSTATIC CONTROL AND PRESSURE SWITCHES

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

A IMPORTANT A

NEVER TRY TO REPAIR ANY FAULTS YOURSELF.

WHEN REFILLING CIRCUITS, ALWAYS REFER TO A DEALER WHO HAS THE CORRECT SPARE PARTS AND THE TECHNICAL

KNOWLEDGE AND TOOLS REQUIRED.

In any of the following circumstances, call a doctor.

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

IMPORTANT INFORMATION REGARDING THE COOLANT USED

- This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.
- Coolant type: R134A; it is colorless and odorless and heavier than air. Its GWP (Global Warming Potential) is 1430.
- Do not allow the gases to escape into the atmosphere. Do not open the system under any circumstances, as this could cause refrigerant to escape.
- The compressor has a fluid level gage; never unscrew this gage because it would depressurize the system. The fluid level should only be checked when draining the system.

* Consult your dealer.

REPLACE

Dry air filter safety cartridge



- The safety cartridge replacement frequency is given for information only. It must be changed every second time the dry air filter cartridge is changed.
 - For the dismantling and refitting of the cartridge (< 1000H: REPLACE Air filter cartridge).
 - Carefully remove the dry air filter safety cartridge 1 to reduce dust fall as much as possible.
 - Clean the gasket surface on the filter with a damp, clean lint-free cloth.
 - Check the condition of the new safety cartridge before fitting (≪ FILTER CARTRIDGES AND BELTS).
 - Insert the cartridge in the filter axis and push the cartridge pressing against the outer edge and not the center.





Hydraulic oil	REPLACE
Hydraulic oil tank suction strainer	CLEAN
Hydraulic oil tank filter cap	REPLACE
Distributor control head filter	REPLACE

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

A IMPORTANT A

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

Dispose of the used oil in an ecological manner.

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

DRAINING THE OIL

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

CLEANING THE SUCTION STRAINER

- Remove the inlet cover 3.
- Remove and clean the suction strainer using a compressed air jet, check its condition and replace if necessary (
- Refit the strainer and tighten the inlet cover 3 (tightening torque 81 N.m) making sure the seal is in the correct position.

REPLACING THE DISTRIBUTOR CONTROL HEAD FILTER

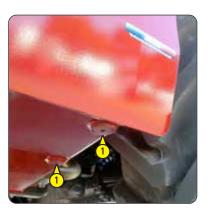
A IMPORTANT A

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

- Remove the half clamp 4.
- Undo the two couplings 5 and replace the filter 6.
- Refit half clamp 4.

FILLING WITH OIL

- Clean and refit the drain plugs 1 (tightening torque 29 39 N.m).
- Fill up with oil (LUBRICANTS AND FUEL) through filler hole 7.
- Observe the oil level on dipstick 8, the oil level should be at the level of the red dot.
- Check for any possible leaks at the drain plugs.
- Replace filler plug with a new filler plug 2 (FILTER CARTRIDGES AND BELTS).











СНЕСК	Radiator *
СНЕСК	Water pump and thermostat *
СНЕСК	Alternator and starter *
СНЕСК	Turbocharger *
СНЕСК	Transmission pressures *
СНЕСК	Steering *
СНЕСК	Steering swivel joints *
СНЕСК	Condition of boom assembly *
СНЕСК	Bearings and bushings of the boom *
СНЕСК	Condition of hoses and flexible pipes *
СНЕСК	Condition of cylinders (leakage, rods) *
СНЕСК	Hydraulic circuit pressures *
СНЕСК	Chassis bearings and bushings*
CLEAN	Hydraulic pump tubular filter *
	* Consult your dealer.

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CCCASIONAL MAINTENANCE

REPLACE

For this operation, we advise you to use the hydraulic jack (MANITOU part no.: 505507) and the safety support prop (MANITOU 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.
- Stop the lift truck (≪1 SAFETY INSTRUCTIONS: DRIVING INSTRUCTIONS UNLADEN AND LADEN).
- Switch on the hazard warning lights.
- Immobilize the lift truck in both directions on the axle opposite to the wheel to be changed.
- Unlock the nuts of the wheel to be changed.
- Place the jack under the flared axle tube, as near as possible to the wheel, and adjust the jack.
- Raise the wheel until it is clear of the ground and place the safety support under the axle.
- Completely unscrew the wheel nuts and remove them.
- Free the wheel using back and forth movements and roll it to the side.
- Slip the new wheel on the wheel hub.
- Hand-tighten the nuts, grease them if necessary.
- Remove the safety support and lower the lift truck with the jack.
- Tighten the wheel nuts to the prescribed torque value (< 2000H PERIODIC MAINTENANCE EVERY 2000 HOURS OF SERVICE OR EVERY 4 YEARS) using a torque wrenchh.

BLEED

Fuel supply system

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

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

A IMPORTANT A

Do not engage the starter motor on a continual basis for more than 30 seconds and let it cool for 2 minutes between unsuccessful attempts.

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

- Open the engine hood.
- Switch on the lift truck ignition on for three minutes to give the lift pump time to release the air from the filter.
- Switch off the ignition with the ignition key.

BLEEDING THE INJECTORS

- Remove the injector cover 1.
- Loosen the high pressure connectors 2 of all the injectors.
- Activate the starter until the diesel fuel flows free of air from the high pressure connectors 2.

- Tighten the connections while the diesel fuel is flowing (tightening torque 30 N.m).

The engine is now ready to be started.

- Run the engine at idle for 5 minutes immediately after bleeding the fuel feed circuit, in order to ensure that the injection pump has been bled thoroughly.
- NOTE: If the engine runs correctly for a short time then stops or runs erratically, check for possible leaks in the low pressure circuit. If in doubt, consult your dealer.









Wheels

ADJUST

Front headlights

RECOMMENDED SETTING

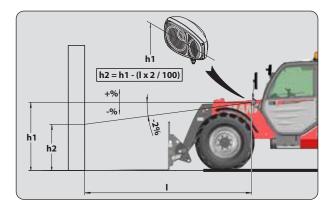
(according to standard ECE-76/756 76/761 ECE20) Adjustment of -2 % of the dipped beam harness relative to the horizontal axis of the headlight.

ADJUSTMENT PROCEDURE

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

CALCULATING THE HEIGHT OF THE DIPPED BEAM (H2)

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



According to the use of the lift truck, the device may need to be periodically reset.

This operation can be easily performed by means of the following procedure.

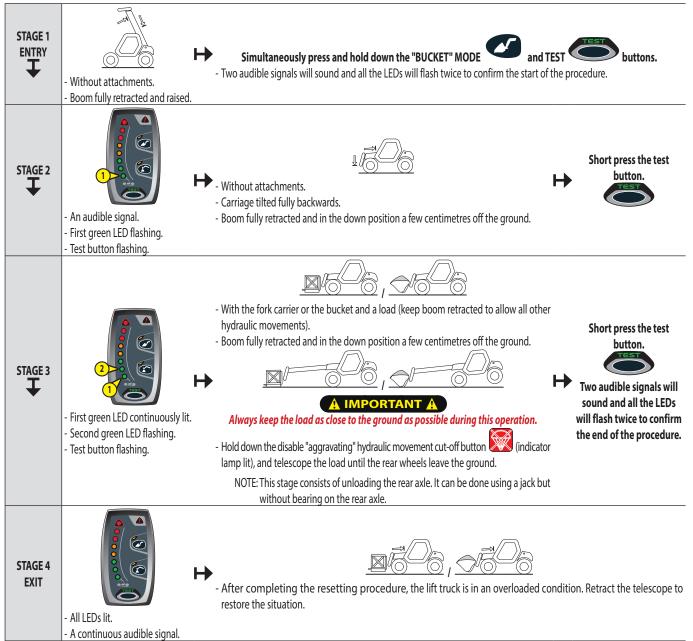
- Provide a fork carrier or a bucket and a load corresponding to at least half the lift truck's rated capacity.
- Preferably perform the reset when the lift truck is still cold (before it is used) or ensure that the temperature of the rear axle is not more than 50 °C.

A IMPORTANT A

Carefully follow the boom positioning instructions.

Should you fail to follow these instructions, two audible signals will be sounded and the fault indicator lamp 4 will come on. If in doubt, consult your dealer. When the reset is completed, check the operation of the longitudinal stability limiter and warning device (< 10H - DAILY MAINTENANCE OR EVERY 10 HOURS OF SERVICE). If in doubt, consult your dealer.

- Place the lift truck on flat, level ground with the wheels straight.



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OCCASIONAL OPERATION

TOW OR WINCH

A IMPORTANT A

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

- Place the forward/reverse selector and the gear lever in neutral.

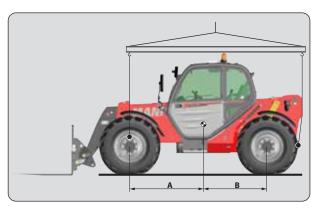
- Release the hand brake.
- Switch on the hazard warning lights.

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

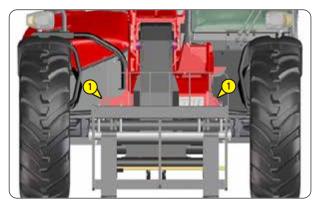
SLING

Lift truck

- Take into account the position of the lift truck center of gravity for lifting.
 - A = 1450 mm B = 1360 mm MT-X 733 95P ST3A S1 A = 1255 mm
 - B = 1435 mm MT-X 1033 100P ST3A S1
- Place the hooks in the fastening points 1 provided.







<u>Lift truck</u>

A IMPORTANT A

Ensure that the safety instructions associated with the flatbed are complied with before loading the lift truck and that the driver of the carrier vehicle is informed of the dimensions and the weight of the lift truck (<1 - DESCRIPTION: SPECIFICATIONS).

Make sure that the flatbed is large enough and has sufficient loading capacity to carry the lift truck. Check also the allowable ground contact pressure of the platform relative to the lift truck.

A IMPORTANT A

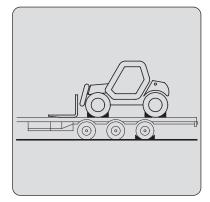
For lift trucks equipped with a turbo-charged engine, block off the exhaust outlet to avoid rotation of the turbo shaft without lubrication when transporting the vehicle.

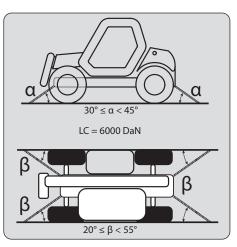
LOADING THE LIFT TRUCK

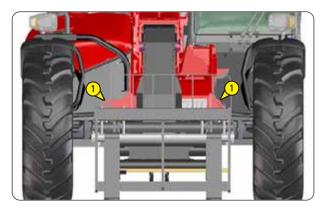
- Block the wheels of the platform.
- Attach the loading ramps to the platform in such a way as to give the shallowest possible ramp angle for the lift truck.
- Load the lift truck parallel to the platform.
- Stop the lift truck (< 1 OPERATING AND SAFETY INSTRUCTIONS: DRIVING INSTRUCTIONS UNLADEN AND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

STOWING THE LIFT TRUCK

- Fix the chocks to the flatbed at the front and at the back of each tire.
- Also fix the chocks to the flatbed on the inside of each tire.
- Secure the lift truck to the flatbed with straps, in the anchoring points 1 provided.
- In order to ensure the lift truck is securely lashed to the flatbed, observe the lashing angles (α) and (β) and the resistance (LC) of the straps.
- Tighten the straps.









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4 - ATTACHMENTS THAT CAN BE ADAPTED TO THE RANGE

4 - ATTACHMENTS THAT CAN BE ADAPTED TO THE RANGE	
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PICKING UP THE ATTACHMENTS	4-4
TECHNICAL SPECIFICATIONS OF ATTACHMENTS	4-6
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INTRODUCTION

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

A IMPORTANT A

Only attachments approved by MANITOU can be used on its lift trucks (TECHNICAL SPECIFICATIONS OF ATTACHMENTS).

- The manufacturer cannot be held responsible for any modifications or adaptations to attachments without its knowledge.
- The attachments are delivered with a load chart concerning your lift truck. The operator's manual and the load chart should be kept in the places provided in the lift truck. For standard attachments, their use is governed by the instructions contained on this notice.

A IMPORTANT A

Maximum loads are defined by the capacity of a lift truck taking account of the attachment's weight and center of gravity.

Should the attachment have a lower capacity than the lift truck, never exceed this limit.

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

A IMPORTANT A

Depending on their size, certain attachments may, when the boom is lowered and retracted, come into contact with the front tires and cause damage to them if excavation is activated in the direction of the discharge.

TO PREVENT THIS RISK, EXTEND THE TELESCOPE TO A SUFFICIENT EXTENT FOR THE PARTICULAR LIFT TRUCK AND ATTACHMENT SO THAT THIS CONTACT IS NOT POSSIBLE.

SUSPENDED LOAD

A IMPORTANT A

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

USE WITH SINGLE SIDE-SHIFT CARRIAGE

MT-X 1033 100P ST3A S1

🛦 IMPORTANT 🛕

The single side-shift carriage (TSDL) is only compatible with the following attachments:

- floating fork carriage (TFF)
- tilting fork carriage (PFB)
- loading bucket (CBR)
- concrete bucket (BB, BBG)
- chute bucket (GL)
- crane boom and crane boom with winch (P, PT, PO, PC)

The use of any other attachment on the TSDL is forbidden.

If it is being used with a loading bucket (CBR), the single side-shift carriage MUST be centered and no side-shift operations performed.

The attachments permitted on the TSDL must be used in strict compliance with their intended applications.

Their use for any other application (e.g., earth moving, excavation, desurfacing, back scraping, etc. for the loading bucket CBR) or any application placing abnormal stress on the structure of the TSDL is forbidden: risk of deformation which could cause the load to fall.

USE OF BUCKETS

A IMPORTANT A

MT-X 733/1033 lift trucks are essentially intended for handling, for which occasional use with the buckets CBC/CBR/CB4x1 is authorised (only with the boom fully retracted, in order to reduce stresses on the boom head), but under no circumstances for difficult applications (quarry, waste, cereals, agriculture, etc.).

PICKING UP THE ATTACHMENTS

1 - ATTACHMENT WITHOUT HYDRAULICS AND HAND LOCKING DEVICE

FITTING AN ATTACHMENT

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

MANUAL LOCKING

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

MANUAL UNLOCKING

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

REMOVING THE ATTACHMENT

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









2 - HYDRAULIC ATTACHMENT AND MANUAL LOCKING DEVICE

FITTING AN ATTACHMENT

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

MANUAL LOCKING AND CONNECTION OF THE ATTACHMENT

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 and lock the attachment (fig. D). Do not forget to fit the pin.
- Stop the engine and keep the ignition on the lift truck.
- Release the pressure in the attachment hydraulic circuit by operating switch 1 on the distributor lever backward and forward 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

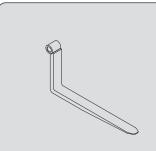
FLOATING FORK CARRIAGE

PART NUMBER Rated capacity Width Weight	TFF 35 MT-1040 654093 3500 kg 1040 mm 300 kg	TFF 35 MT-1300 654094 3500 kg 1300 mm 340 kg	
FLOATING FORK SIDE-	SHIFT CARRIAGE		
PART NUMBER Rated capacity Side-shift Width Weight	TFF 35 MT-1040 DL 751543 3500 kg 2x100 mm 1040 mm 345 kg	TFF 35 MT-1300 DL 751544 3500 kg 2x100 mm 1300 mm 375 kg	
FLOATING FORK			
PART NUMBER Cross-section Weight	415801 125x45x1200 mm 68 kg		
FORK POSITIONER			
PART NUMBER Bated capacity	CAF 1260/4500 P 52000273 4500 kg		

Rated capacity Spacing Width Weight AF 1260/4500 P 52000273 4500 kg 275/1010 mm 1260 mm 350 kg

FLOATING FORK

PART NUMBER Cross-section Weight **719611** 100x50x1200 mm 62 kg



647777 (31/01/2022) MT-X 733 95P/1033 100P ST3A S1

STANDARDIZED TILTING	G FORK CARRIAGE			
PART NUMBER Rated capacity Width Weight	PFB 35 N MT-1260 S2 653744 3500 kg 1260 mm 95 kg	PFB 35 N MT-1470 S2 653745 3500 kg 1470 mm 120 kg	PFB 35 N MT-1580 S2 653746 3500 kg 1580 mm 125 kg	
STANDARDIZED FORK				
PART NUMBER Cross-section Weight	415618 125x45x1200 mm 72 kg			
STANDARDIZED TILTING	G FORK CARRIAGE +	STANDARDIZED SI	DE-SHIFT CARRIAGE	
PART NUMBER Rated capacity Side-shift Width Weight	PFB 35 N 1260 DL 52000101 3150 kg 2x100 mm 1260 mm 175 kg	PFB 35 N 1580 DL 52000102 3150 kg 2x100 mm 1580 mm 300 kg		
STANDARDIZED TILTING	G FORK CARRIAGE +	LOAD BACK REST		
PART NUMBER Rated capacity Width Weight	PFB 35N 1260 LB 52000200 3500 kg 1260 mm 130 kg	PFB 35N 1470 LB 52000201 3500 kg 1470 mm 158 kg		
STANDARDIZED TILTING	G FORK CARRIAGE +	STANDARDIZED SI	DE-SHIFT CARRIAGE	+ LOAD BACK REST
PART NUMBER Rated capacity Side-shift Width Weight	PFB 35 N 1260 DL/LB 52000205 3150 kg 2x100 mm 1260 mm 210 kg			

BUILDING BUCKET

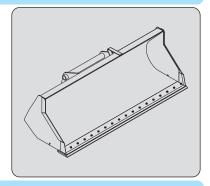
PART NUMBER	CBC 800 L2250 654471	CBC 900 L2450 654470	
Rated capacity	814	893 l	5-45
Width	2250 mm	2450 mm	
Weight	366 kg	391 kg	

LOADING BUCKET

	CBR 900 L2250	CBR 1000 L2450	~	
PART NUMBER	653749	654716		
Rated capacity	904 l	990 l		
Width	2250 mm	2450 mm		
Weight	390 kg	410 kg	0	\gg
5	J	5		

CLAMSHELL BUCKET (REMOVABLE AND REVERSIBLE BLADE)

PART NUMBER Rated capacity Width Weight CBR 1000 L2450 LDR 52000370 990 l 2450 mm 441 kg



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MULTIPURPOSE BUCKET DISPLAY

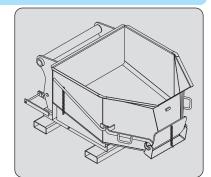
PART NUMBER Rated capacity Width Weight

CONCRETE BUCKET (ADAPTABLE ON FORKS)

PART NUMBER
Rated capacity
Width
Weight

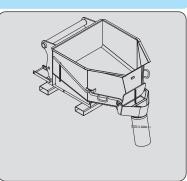
BB 500 S4 654409 500 l/1300 kg 1100 mm 205 kg

BBH 500 S4 751462 500 l/1300 kg 1100 mm 220 kg



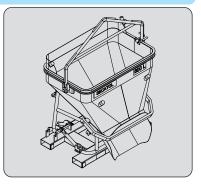
CONCRETE BUCKET WITH SPOUT (ADAPTABLE ON FORKS)

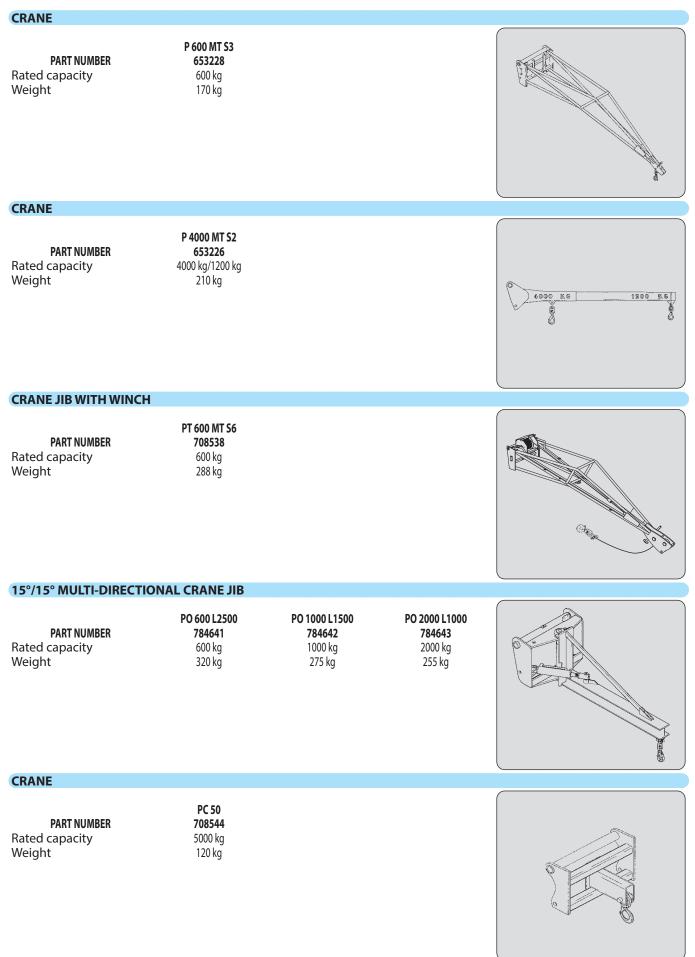
PART NUMBER Rated capacity Width Weight **BBG 500 S4 654411** 500 l/1300 kg 1100 mm 220 kg **BBHG 500 S4 751464** 500 l/1300 kg 1100 mm 235 kg



SPOUT BUCKET (ADAPTABLE ON FORKS)

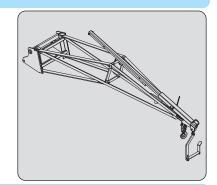
PART NUMBER Rated capacity Weight **GL 600 S2 174373** 600 l/1440 kg 290 kg **GL 600 H S2 784630** 600 l/1440 kg 290 kg





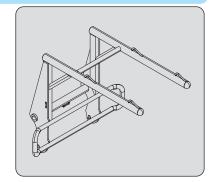
CRANE

PART NUMBER Rated capacity Weight **JE 6000/600 939995** 600 kg 182 kg



BOOM CRANE WITH BIG BAG

PART NUMBER Rated capacity Weight HBB 1500/2400 931627 2400 kg 186 kg



ATTACHMENT GUARDS

FORK GUARD PART NUMBER 227801 T 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 NUMBER 206734 206732 206730 1375 mm 1500 mm 1650 mm Width PART NUMBER 235854 206728 206726 Width 1850 mm 1950 mm 2000 mm PART NUMBER 223771 223773 206724 Width 2150 mm 2050 mm 2100 mm 206099 PART NUMBER 206722 223775 Width 2250 mm 2450 mm 2500 mm