MANITOU

HANDLING YOUR WORLD

547399 EN (01/03/2019)

200 ATJ

OPERATOR'S MANUAL

(ORIGINAL INSTRUCTIONS)

IMPORTANT

Carefully read and understand this instruction manual before using the lifting platform.

It contains all information relating to operation, handling and lifting platform 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 lifting platform's continued safety of use and reliability.

WHENEVER YOU SEE THIS SYMBOL IT MEANS:

⚠ IMPORTANT ⚠

WARNING ! BE CAREFUL ! YOUR SAFETY OR THE SAFETY OF THE LIFTING PLATFORM 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 lifting platform depends on the options chosen and the country of sale.
- According to the lifting platform options and the date of sale, certain items of equipment/functions described herein may not be available.
- Descriptions and figures are non binding.
- MANITOU reserves the right to change its models and their equipment without being required to update this manual.
- The MANITOU network, consisting exclusively of qualified professionals, is at your disposal to answer all your questions.
- This manual is an integral part of the lifting platform.
- 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 lifting platform is resold.

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1 - OPERATING AND SAFETY INSTRUCTIONS

2 - DESCRIPTION

3 - MAINTENANCE

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1 - OPERATING AND SAFETY INSTRUCTIONS

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INSTRUCTIONS TO THE COMPANY MANAGER

THE SITE

Proper management of the personnel lifting platform's area of travel will reduce the risk of accidents:

- Ground not unnecessarily uneven or obstructed.
- No excessive slopes.
- Pedestrian traffic controlled, etc.

THE OPERATOR

- Only qualified, authorised personnel can use the platform. This authorisation is given in writing by the appropriate person in the establishment where the platform is to be used and must be carried permanently by the operator.

⚠ IMPORTANT ⚠

On the basis of experience, there are a number of possible situations in which operating the platform is contra-indicated.
Such foreseeable abnormal uses, the main ones being listed below, are strictly forbidden:
- The foreseeable abnormal behaviour resulting from ordinary negligence, but which does not result from any wish to put the machinery to any improper use.
- The reflex reactions of a person in the event of a malfunction, incident, fault, etc. during operation of the platform.
- Behaviour resulting from application of the "principle of least effort" when performing a task.
- For certain machines, the foreseeable behaviour of such persons as: apprentices, teenagers, handicapped persons, trainees tempted to drive a platform, operators tempted to operate a 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 the suitability of a person to drive.

⚠ IMPORTANT ⚠

OBTAIN INFORMATION ON:
- How to behave when there is a fire.
- The location of the nearest first aid kit and fire extinguisher.
- The emergency telephone numbers for calling (the doctors, ambulance, hospital and fire brigade).

PLATFORM

A – SUITABILITY OF THE PLATFORM FOR THE TASK

- MANITOU has ensured that this platform is suitable for use under the standard operating conditions defined in this operator's manual, with an **OVERLOAD test coefficient of 1.25** and an **OPERATIONAL test coefficient of 1.1**, as stipulated in harmonised standard **EN 280** for **MPLP** (Mobile Personnel Lifting Platforms). Before putting the platform into operation, the company manager must check that the platform is suitable for the work to be carried out and conduct certain tests (in accordance with current legislation).

B - ADAPTING THE PLATFORM TO USUAL ENVIRONMENTAL CONDITIONS

- In addition to standard equipment mounted on your platform, many options are available, such as: rotating beacon light, working light, etc. Contact your dealer.
- Take into account climatic and atmospheric conditions of the site of utilisation.
  - Protection against frost (◅ 3 - MAINTENANCE: LUBRICANTS AND FUEL).
  - Adaptation of lubricants (ask your dealer for information).
  - Engine filtration (◅ 3 - MAINTENANCE: FILTER CARTRIDGES AND BELTS).

⚠ IMPORTANT ⚠

For operation under average climatic conditions, i.e.: between -15°C and +35°C, lubricants are topped up 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 coolant.

- Preventing fire risks associated with use in dusty and flammable conditions.
- A platform operating in an area without fire extinguishing equipment must be equipped with an individual extinguisher. Solutions are available, consult your dealer.

⚠ IMPORTANT ⚠

Diesel platforms are designed for outdoor use under normal atmospheric conditions and indoor use in suitably aerated and ventilated premises.
Electric platforms are designed for outdoor use under normal atmospheric conditions and for indoor use.
It is prohibited to use the platform in areas where there is a risk of fire or which are potentially explosive (e.g. refineries, fuel or gas depots, stores of inflammable products, etc.).
For use in these areas, specific equipment is available (ask your dealer for information).

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C - MODIFYING THE PLATFORM

⚠ IMPORTANT ⚠

It is strictly prohibited to replace platform components with components not approved by Manitou (batteries, wheels, basket, etc.).

⚠ IMPORTANT ⚠

It is strictly forbidden to change the structure and settings of the various components of your platform (hydraulic pressure, calibrating limiters, engine speed, sensors, addition of extra equipment, addition of counterweight, unapproved attachments, alarm systems, etc.) yourself.
In this event, the manufacturer cannot be held responsible.

⚠ IMPORTANT ⚠

Risk of the access platform becoming unstable:
- Depending on the model, your platform may be supplied with standard wheels or all-terrain wheels. It is PROHIBITED to change from one type of wheel to the other.
- ELECTRIC PLATFORM: it is PROHIBITED to replace the batteries with lighter batteries.

INSTRUCTIONS

- The operator's manual must always be in good condition and kept in the place provided on the platform and in the language used by the operator.
- You must replace the instructions manual, as well as any plates or stickers, if they are no longer legible or are missing or damaged.

MAINTENANCE

⚠ IMPORTANT ⚠

Refer to chapter: PLATFORM MAINTENANCE INSTRUCTIONS.

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

⚠ IMPORTANT ⚠

Your platform must be periodically inspected to ensure its continued compliance.
The inspection frequency is defined by the legislation applying in the country in which the platform is used.

- Example for France: The manager in charge of the establishment using an access platform must open and maintain a maintenance log for each machine (order of 2 March 2004).

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INSTRUCTIONS FOR THE OPERATOR

INTRODUCTION

⚠ IMPORTANT ⚠

The risk of accident while using, servicing or repairing your platform can be reduced if you follow the safety instructions and preventive measures detailed in these instructions.
Failure to respect the safety and operating instructions, or the instructions for repairing or servicing your platform may lead to serious, even fatal accidents.

- Only the operations and manoeuvres described in this operator's manual must be performed. The manufacturer cannot predict all possible risky situations. Consequently, the safety instructions given in the operator's manual and on the platform itself are not exhaustive.
- As an operator, you must at all times give reasonable consideration to the possible risks to yourself, to others or to the platform itself when you use it.

GENERAL INSTRUCTIONS

A - INSTRUCTION MANUAL

- Carefully read and understand the operator's manual.
- The operator's manual must always be in good condition and kept in the place provided on the platform and in the language used by the operator.
- You must replace the instructions manual, as well as any plates or stickers, if they are no longer legible or are missing or damaged.
- Any operations or manoeuvres not described in the operator's manual are categorically forbidden.
- Follow the safety advice and the instructions on the platform.
- A second operator must be present on the ground as a safety measure when using the platform.
- Familiarise yourself with the platform on the terrain where it will be used.
- The machine must also be used in accordance with good engineering practice.
- Do not use the platform if there is a wind speed of over 45 km/h. The platform's arms must not be subjected to a side force of more than 400 N (40 kg).
- Platforms intended exclusively for indoor use must not be used outside the buildings.

B - AUTHORISATION FOR USE IN FRANCE

(or see current legislation in other countries).

- Only qualified, authorised personnel can use the platform. This authorisation is given in writing by the appropriate person in the establishment where the platform is to be used and must be carried permanently by the operator.
- The operator is not empowered to authorise the driving of the platform by another person.

C - MAINTENANCE

- The operator must carry out the daily maintenance (◁ 3 - MAINTENANCE) before using the platform in his place of work.
- The operator must immediately advise his superior if his platform 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 platform properly cleaned if this is among his responsibilities.
- 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. The operator should pay special attention to all the areas of the platform where these risk materials are likely to accumulate.
- The operator must ensure that the wheels are appropriate for the type of ground (see the ground contact area of the wheels (◁ 2 - DESCRIPTION: SPECIFICATIONS). Optional solutions are available, consult your dealer.

⚠ IMPORTANT ⚠

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

⚠ IMPORTANT ⚠

In the case of electric platforms, the operator must ensure that:
- Safety goggles are always worn when charging the batteries.
- The batteries are not charged in an explosive environment.
- There is no smoking and no naked flame directed towards the batteries when they are being handled (removal/installation) and when monitoring filling levels.
Do not leave the battery charger connected during a lightning storm.

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D - MODIFYING THE PLATFORM

◁ INSTRUCTIONS TO SITE MANAGER: C - MODIFYING THE PLATFORM.

E - DIESEL PLATFORM AXLES

NON-OSCILLATING AXLE (ACCORDING TO MODEL)

⚠ IMPORTANT ⚠

The chassis is rigid, so the platform can be load bearing on only three wheels.

OSCILLATING AXLE (ACCORDING TO MODEL)

⚠ IMPORTANT ⚠

An oscillating axle enables the platform to have a ground reach on four wheels when in transport position.

When moving in the working position over uneven terrain, the oscillating axle is locked (the frame is stiff) so the platform may be bearing on only three wheels.

F - SAFETY DEVICES

- This machine is fitted with special safety devices that are able to limit its operation as circumstances require (◁ 2 - DESCRIPTION):
  - Overload in the basket.
  - Tilting of the platform beyond the authorised limits.
  - Blocking of the oscillating axle (according to model).
  - Slack or broken telescope cable (according to model).

OPERATING INSTRUCTIONS

A - BEFORE STARTING-UP THE PLATFORM

- Perform the daily maintenance operations (◁ 3 - MAINTENANCE).

B - DRIVER'S OPERATING INSTRUCTIONS

- Whatever their experience, operators are advised to familiarise themselves with the position and operation of the control panels before putting the platform into operation.
- The platform's arms must be fully lowered (down position for scissor platforms) before getting into or out of the basket; always get in and out facing the inside of the basket.
- If the platform is equipped with steps, the basket must be positioned vertically with these before getting in or out.
- Always use both hands and one foot or both feet and one hand to get in and out.
- Ensure that the guard rail and/or the access gate (according to model) is fully in the locked position before operating the platform from the basket.
- MANITOU recommends a safety harness in the operator's size be provided when the platform is in use (for the harness attachment in the basket, ◁ 2 - DESCRIPTION).
- Safety helmets must be worn.
- Wear suitable clothing for driving the platform; do not wear baggy clothes.
- Never operate the platform when hands or feet are wet or soiled with greasy substances.
- Make sure you have the appropriate protective equipment for the job to be done.
- Prolonged exposure to high noise levels may cause hearing problems. It is recommended to wear ear muffs to protect against excessive noise.
- Remain alert at all times when using the platform. Do not listen to the radio or music using headphones or earphones.
- 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.
- The control units must never in any event be used for any other than their intended purposes (e.g. getting in or out of the basket, portmanteau, etc.).
- The platform must not be fitted with unauthorised attachments that increase the unit's wind load.
- Do not use a ladder or any improvised constructions in the basket to reach greater heights.
- Do not climb on the basket frame to reach greater heights.

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C - ENVIRONMENT

- Comply with site safety regulations.
- The platform can be operated from the ground: ensure that you forbid access.
- If you have to use the platform in a dark area or at night, make sure it is equipped with working lights.
- The platforms may not be used as cranes or elevators for the permanent transport of people or materials, nor as jacks or supports.
- Suspending a load under the basket or on any part of the lifting apparatus is strictly forbidden.
- When operating, ensure that there is no one or anything impeding the platform's progress and operation.
- When raising the platform, ensure that no one or anything impedes the platform's operation and do not perform any inappropriate manoeuvres.
- Do not allow anybody to come near the working area of the platform or pass beneath an elevated load. To ensure this, mark out your working area.
- Driving on a longitudinal slope:
  - Adjust the platform speed with the proportional control handle.
- Take into account the platform's dimensions and its load before trying to negotiate a narrow or low passageway.
- Never move onto a loading bridge without having first checked:
  - That it is suitably positioned and made fast.
  - That the unit to which it is connected (wagon, lorry, etc.) will not shift.
  - That this bridge is prescribed for the size and mass of the platform (◁ 2 - DESCRIPTION).
  - That the slope of the bridge is not greater than the platform's maximum authorised slope (◁ 2 - DESCRIPTION).
- Never move onto a foot bridge, floor or freight lift, without being certain that they are prescribed for the mass and size of the platform 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, manholes, etc.
- Make sure the ground is stable and firm under the wheels and/or stabilisers before lifting the basket. If necessary, add sufficient wedging under the stabilisers. Do not attempt to carry out operations that exceed the platform's capabilities.
- 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.

⚠ IMPORTANT ⚠

If the basket must remain stationary over a structure for a long period, there is a risk that the basket will descend and rest on this structure because of the oil cooling in the cylinders or a minor leak in the cylinder locking system. To eliminate this risk:
- Regularly check the distance between the basket and the structure and re-adjust if necessary.
- If possible use the platform at an oil temperature as close as possible to ambient temperature.

- In the case of work near aerial lines, ensure that the safety distance is sufficient between the working area of the platform and the aerial line.

⚠ IMPORTANT ⚠

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

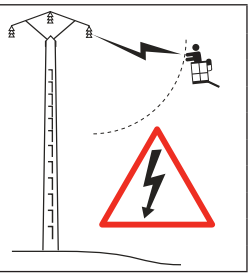
⚠ IMPORTANT ⚠

If the platform comes into contact with electric wires, press the Emergency Stop button.
Call for help, warn people on the ground not to touch the basket, and ask them to switch off the power supply to the wires or have it switched off.

⚠ IMPORTANT ⚠

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

RATED VOLTAGE (VOLTS)	SAFETY DISTANCE (METRES)
50 < U < 1000	2.30 M
1000 < U < 30000	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
400,000 < U < 750,000	7.90 M



⚠ IMPORTANT ⚠

Do not use this machine during lightning storms, snow storms, during frosty periods or in hazardous weather conditions. In case of strong wind exceeding 45 km/h, do not make any movement that may endanger the platform's stability.

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

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

D - VISIBILITY

- Ensure good visibility on your route at all times. To increase your visibility, you can move forwards with the jib arm slightly raised (beware of the risk of falls in the basket from knocking into a low doorway, overhead electric wires, travelling cranes, highway bridges, rail tracks or any obstacle in the area in front of the platform). In reverse, look directly behind you. At all events, avoid reversing long distances.
- If visibility of your road is inadequate, ask someone to help, standing outside the area in which the platform will be moving, and make sure you always have a good view of this person.

E - STARTING-UP THE ENGINE-POWERED PLATFORM

SAFETY INSTRUCTIONS

- If using an emergency battery for start-up, use a battery with the same characteristics and respect battery polarity when connecting it. Connect the positive terminal first, and then the negative terminal.

⚠ IMPORTANT ⚠

Failure to respect polarity between batteries can cause serious damage to the electrical circuit.

The electrolyte in the battery may produce an explosive gas.

Avoid flames and generation of sparks close to the batteries. Never disconnect a battery while it is being charged.

INSTRUCTIONS: ◁ 2 - DESCRIPTION.

E - STARTING UP THE ELECTRIC-POWERED PLATFORM

SAFETY INSTRUCTIONS

- Do not use the platform if the battery is discharged to the point that movements are slowed down. In certain cases, the platform may stop (◁ 2 - DESCRIPTION for the charge level not to be exceeded).

INSTRUCTIONS: ◁ 2 - DESCRIPTION.

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F - OPERATING THE PLATFORM

SAFETY INSTRUCTIONS

⚠ IMPORTANT ⚠

Operators should be aware of the risks connected with using the platform, notably:
- Risk of losing control.
- Risk of losing lateral and frontal stability of the platform.
The operator must remain in control of the platform.

- Do not carry out operations which exceed the capacities of your platform.
- Familiarise yourself with the platform on the terrain where it will be used.
- Ensure that the brakes work efficiently when stopping a travelling movement, taking into account the braking distances.
- Drive smoothly and adapt the platform speed to the operating conditions (site configuration, load in the basket).
- In all circumstances make sure you are in control of your speed.
- Take extreme care when manoeuvring the platform with the basket in the high position. Ensure that there is sufficient visibility.
- Take bends slowly.
- Look where you are going and always make sure you have good visibility along the route.
- Drive round obstacles.
- Never drive on the edge of a ditch or steep slope.
- Travel slowly on damp, slippery or uneven terrain or on truck ramps.
- Always remember that the hydraulic steering is very sensitive to movements.
- Never leave the I.C. engine on when the platform is unattended.
- Whatever your travelling speed, you must reduce the speed as much as possible before stopping.
- The platform should be operated in an area free of any obstructions or danger when it is lowered to the ground.
- Pay attention to structures, objects and people when manoeuvring.
- The operator using the platform must be aided on the ground by a person with adequate training.
- Remain within the limits of the platform's diagram (◅ 2 - DESCRIPTION).
- Do not load the basket if the platform needs to travel on a steep slope.

INSTRUCTIONS

- When moving the platform a long distance, always travel in transport position or with the scissors in the low position (◅ 2 - DESCRIPTION).
- DIESEL PLATFORM: Engage the appropriate gear (◅ 2 - DESCRIPTION).

G - STOPPING THE PLATFORM

SAFETY INSTRUCTIONS

- Never leave the ignition key in the platform during the operator's absence.
- Make sure that the platform is not stopped in any position that will interfere with the traffic flow and in particular the platform should not be less than one metre from a railway track.
- In the event of prolonged parking on a site, protect the platform from bad weather, particularly from frost (DIESEL PLATFORM: Check the level of antifreeze), and close and lock all the platform cowlings (if applicable).
- Park the platform on level ground.

INSTRUCTIONS: ◅ 2 - DESCRIPTION.

DIESEL PLATFORM

- Before stopping the platform after a long working period, leave the I.C. engine idling for a few moments, to allow the coolant and oil to lower the temperature of the I.C. engine and transmission.

⚠ IMPORTANT ⚠

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.

INSTRUCTIONS FOR WELDING AND BLOW TORCH WORK ON AN EXTERNAL STRUCTURE

⚠ IMPORTANT ⚠

Ensure that there are no hydraulic or electrolyte leaks on the platform.

⚠ IMPORTANT ⚠

When welding, work in the opposite direction from the control console to avoid sparks damaging it.

Any welding and cutting (blow torch) work from the basket on a building's metallic structures requires the following precautions to be taken:

A - WITH AN ELECTRICAL WELDING SET

- It is essential that the machine has a discharge braid connecting the chassis of the platform to the ground.
- The external structure to be welded must, without fail, be grounded. If the above conditions are observed, the platform can, in this case, be in contact with the structure or the elements to be welded without damaging the electronic components.
- The power supply to the welding equipment must be via a grounded socked, including the extension lead if required.
- In all cases, make sure that there are no electric arcs in the basket or on the platform (contact between the rod or torch and ground plug of the welding equipment). For this the ground plug of the welding equipment must never be placed on the platform's basket; it must only be placed as close as possible to the part to be welded.
- Switch off the welding equipment before disconnecting the ground clamp from the element or elements to be welded.

B - WITH A BLOW TORCH

- Attach the blow torch's bottles to the basket's frame.
- Sparks and clippings must not be directed towards the batteries.
- Do not set the blow torch down on the floor of the basket while it is still operating or point it towards the control panel or its power supply harness.

PLATFORM MAINTENANCE INSTRUCTIONS

GENERAL INSTRUCTIONS

- Read the operator's manual carefully.
- Wear clothes suitable for the maintenance of the lift truck, avoid wearing jewellery and loose clothes. Tie and protect your hair, if necessary.
- DIESEL PLATFORM:
  - Make sure the area is adequately ventilated before starting up the platform.
  - Stop the engine before conducting any work on the platform, switch off the platform and turn the battery cut-off to the OFF position (according to model).
- ELECTRIC PLATFORM: Switch off the platform before carrying out any work on the platform and turn the battery cut-off to the OFF position.
- Carry out all repairs immediately, even if the repairs concerned are minor.
- Repair all leaks immediately, even if the leak concerned is minor.
- Ensure that process materials and of spare parts are disposed in all safely and in an ecological manner.
- Be careful of the risk of burning and splashing (exhaust, radiator, engine, etc.).

MAINTENANCE

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

MAINTENANCE LOGBOOK

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

LUBRICANT AND FUEL LEVELS

- Use the recommended lubricants (never use contaminated lubricants).

DIESEL PLATFORM

- 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 smoke or approach the platform with a flame, when the fuel tank is open or is being filled.

BATTERY ELECTROLYTE LEVEL (ELECTRIC PLATFORM)

- Check the electrolyte level of the battery or batteries.

⚠ IMPORTANT ⚠

Ensure you take all the safety precautions when performing this operation (◁ 3 - MAINTENANCE).

HYDRAULICS

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

⚠ IMPORTANT ⚠

COUNTERBALANCE VALVE: It is dangerous to change the setting or remove the counterbalance valves or safety valves which may be fitted to your platform cylinders. These operations must only be performed by approved personnel (consult your dealer).

HYDRAULIC ACCUMULATOR (according to model): dismantling hydraulic accumulators and their pipes that may be fitted on your platform is dangerous. These operations must only be performed by approved personnel (consult your dealer).

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ELECTRICITY

- Do not drop metallic items on the battery (between the positive and negative terminal(s)).
- Disconnect the battery or batteries before working on the electrical circuit.
- The control panels on the ground and in the basket and all other electrical control boxes must only be opened by authorised personnel.

TILT SENSOR

⚠ IMPORTANT ⚠

Some platforms are fitted with a tilt sensor attached to the turn table (◁ 2 - DESCRIPTION: CONTROL PANEL AND SAFETY DEVICES AT GROUND LEVEL); always carry out an initialisation after dismounting/refitting the tilt sensor. Refer to the platform repair manual.

Some platforms are fitted with a tilt sensor that is integrated in the ground level control panel (◁ 2 - DESCRIPTION: CONTROL PANEL AND SAFETY DEVICES AT GROUND LEVEL); always carry out a calibration of the tilt sensor after dismounting/refitting or loosening/tightening the ground level control panel, its mounting plates or fixing screws. Refer to the platform repair manual.

WELDING ON THE ACCESS PLATFORM

- Disconnect the battery or batteries before welding on the platform.
- When carrying out electric welding work on the platform, connect the negative cable from the welding equipment directly to the part being welded, so as to avoid high tension current passing through the alternator or the ring gear.
- If the platform is equipped with electronic controls, disconnect them before starting to weld, to avoid the risk of causing irreparable damage to electronic components.

⚠ IMPORTANT ⚠

Welding operations for the purposes of maintenance or repairs must only be carried out by persons authorised by MANITOU.

WASHING THE PLATFORM

- Clean the platform or at least the area concerned before any intervention.
- Remember to close and lock (if applicable) all the platform's cowlings.
- When cleaning with a high pressure cleaner, avoid air from entering the engine, the piston rod wiper seals, the hinges, the structural components and the electrical connections, etc.
- If necessary, protect components likely to be damaged, and in particular the electrical components (variable speed drive, charger) and electrical connections and the injection pump from penetration by water, steam or cleaning products.
- Dry the electrical components.
- Clean the platform of any fuel, oil or grease trace.
- Grease the axles, pins, ring gear, etc.

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IF THE PLATFORM IS NOT TO BE USED FOR A LONG TIME

INTRODUCTION

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

⚠ IMPORTANT ⚠

Procedures to follow if the platform 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.

PREPARING THE PLATFORM

- Clean the platform thoroughly.
- Check and repair any leaks of fuel, oil, water, etc.
- Replace or repair any worn or damaged parts.
- Touch up the paintwork if necessary.
- Make sure the cylinder rods are in the retracted position (if applicable).
- Shut down the platform.
- Release the pressure in the hydraulic circuits.

PROTECTING THE ENGINE (DIESEL PLATFORM)

- Fill the tank with fuel (◁ 3 - MAINTENANCE).
- Replace the engine oil and oil filter (◁ 3 - MAINTENANCE).
- Drain and replace the coolant (◁ 3 - MAINTENANCE).
- 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 belts and store them in a safe place.
- Disconnect the engine cut-off solenoid on the injection pump and carefully insulate the connection.

BATTERY CHARGING (ELECTRIC PLATFORM)

- In order to preserve battery life and capacity, check them periodically and keep the charge level constant (◁ 2 - DESCRIPTION).
- Do not leave the battery charger connected during a lightning storm.

PROTECTING THE PLATFORM

- Protect cylinder rods which are not be retracted from corrosion.
- Wrap the wheels.

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

BRINGING THE PLATFORM BACK INTO SERVICE

DIESEL PLATFORM

- Remove the protection from the cylinder rods and wheels.
- Refit and reconnect the battery.
- Remove the waterproof adhesive tape from the exhaust outlet.
- Empty and replace the fuel and replace the fuel filter (◁ 3 - MAINTENANCE).
- Refit the belts and adjust their tension (◁ 3 - MAINTENANCE).
- Reconnect the engine cut-off solenoid.

⚠ IMPORTANT ⚠

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

- Start up the platform, following the safety instructions and regulations.
- Perform the daily maintenance operations (◁ 3 - MAINTENANCE).

DIESEL AND ELECTRIC PLATFORM

- Lubricate the platform completely (◁ 3 - MAINTENANCE).
- Carry out all the lifting system's hydraulic movements right up to the limit switches for each cylinder.

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DISPOSING OF THE PLATFORM

⚠ IMPORTANT ⚠

Consult your dealer before disposing of your platform.

RECYCLING OF MATERIALS

METALS

- Metals are 100 % recoverable and recyclable.

PLASTICS

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

RUBBER

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

GLASS

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

ENVIRONMENTAL PROTECTION

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

WORN OR DAMAGED PARTS

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

USED OIL

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

USED BATTERIES

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

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

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2 - DESCRIPTION

2 - DESCRIPTION

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DECLARATION "CE" DE CONFORMITE (originale)

"EC" DECLARATION OF CONFORMITY (original) *(1)*

(2) Constructeur, ***manufacturer***: Manitou BF
(3) Adresse, ***Address***: 430, RUE DE L'AUBINIERE - B.P 10249
44158 - ANCENIS - CEDEX - FRANCE
(4) Titulaire du dossier technique, ***Holder of the technical file***: Manitou BF
(3) Adresse, ***Address***: 430, RUE DE L'AUBINIERE - B.P 10249
44158 - ANCENIS - CEDEX - FRANCE
(5) Le constructeur déclare que la machine décrite ci-après, ***The manufacturer declares that the machine described below:*** **200 ATJ**

☐ *(6)* - Est conforme aux directives suivantes et à leurs transpositions en droit national (si applicables), ***Complies with the following directives and their transpositions into national law (if applicable)***:

2006/42/CE

(7) - Pour les machines annexe IV, ***For annex IV machines***:
(8) - Numéro d'attestation, ***Certificate number***: 0526 5131 xxx xx xx xxxx
(9) - Organisme notifié, ***Notified body***: CETIM - 52 AVENUE FELIX LOUAT
BP 80067 - 60304 SENLIS CEDEX

2000/14/CE + 2005/88/CE

(10) - Procédure appliquée, ***Applied procedure***:
(9) - Organisme notifié, ***Notified body***: SNCH - 11 ROUTE DU LUXEMBOURG
5201 SANDWEILER

(11) - Niveau de puissance acoustique, ***Sound power level***:

(12) Mesuré, ***Measured***: dB (A)

(13) Garanti, ***Guaranteed***: dB (A)

2004/108/CE jusqu'au 19/04/2016 et 2014/30/UE à partir du 20/04/2016

☐ *(14)* - Normes harmonisées utilisées, ***Harmonised standards used***:
EN12895

☐ *(15)* - Normes ou dispositions techniques utilisées, ***Standards or technical provisions used***:

(16) - Fait à, ***Done at***: *(17)* - Date, ***Date***:
(18) - Nom du signataire, ***Name of signatory***:
(19) - Fonction, ***Function***:
(20) - Société, ***Company***:

(21) - Signature, ***Signature***:

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bg : (2) Производител, (3) Адрес, (4) Притежател на техническото досие, (5) Производителят декларира, че описаната по-долу машина, (6) Е в съответствие със следните директиви и тяхното транспониране в националното законодателство (ако е приложимо), (7) Приложение IV относно машините, (8) Номер на сертификат, (9) Нотифициран орган, (10) Приложена процедура, (11) Ниво на силата на звука, (12) Измерено, (13) Гарантирано, (14) Използвани хармонизирани стандарти, (15) Използвани стандарти или технически разпоредби, (16) Изработено в, (17) Дата, (18) Име на подписаното лице, (19) Длъжност, (20) Фирма, (21) Подпис

cs : (2) Výrobce , (3) Adresa, (4) Držitel technické dokumentace, (5) Výrobce prohlašuje , že zařízení popsané níže, (6) Je v souladu s následujícími směrnicemi a směrnicemi transponovanými do vnitrostátního práva (je-li relevantní), (7) Pro stroje v příloze IV(8) Číslo certifikátu, (9) Notifikační orgán, (10) Použitý postup, (11) Úroveň hluku (12) Naměřená, (13) Zaručená, (14) Použité harmonizované normy , (15) Použité normy nebo technické předpisy(16) Místo (17) Datum (18) Jméno podepsaného, (19) Funkce, (20) Společnost, (21) Podpis

da : (2) Producent, (3) Adresse, (4) Indehaver af det tekniske dossier, (5) Producenten erklærer, at maskinen, der er beskrevet nedenfor, (6) overholder nedenstående direktiver og disses gennemførelse til national ret (hvis det er relevant), (7) For maskiner under bilag IV, (8) Certifikat nummer, (9) Bemyndigede organ, (10) Anvendt procedure, (11) Lydeffektniveau, (12) Målt, (13) Garanti, (14) Anvendte harmoniserede standarder, (15) Standarder eller tekniske regler, (16) Udfærdiget i, (17) Dato, (18) Underskrivers navn, (19) Funktion, (20) Firma, (21) Underskrift.

de : (2) Hersteller, (3) Adresse, (4) Inhaber des technischen Dossiers, (5) Der Hersteller erklärt, dass die nachstehend beschriebene Maschine (6) den folgenden Richtlinien und deren Umsetzung in die nationale Gesetzgebung entspricht (falls anwendbar), (7) Für die Maschinen laut Anhang IV, (8) Bescheinigungsnummer, (9) Benannte Stelle, (10) Angewandtes Verfahren, (11) Schallleistungspegel, (12) Gemessen, (13) Gewährleistet, (14) angewandte harmonisierte Normen, (15) angewandte sonstige technische Normen und Bestimmungen, (16) Ausgestellt in, (17) Datum, (18) Name des Unterzeichners, (19) Funktion, (20) Gesellschaft, (21) Unterschrift.

el : (2) Κατασκευαστής, (3) Διεύθυνση, (4) Κάτοχος του τεχνικού φακέλου, (5) Ο κατασκευαστής δηλώνει ότι το μηχάνημα που περιγράφεται παρακάτω, (6) Συμμορφώνεται με τις εξής οδηγίες και τις προσαρμογές τους στο εθνικό δίκαιο (κατά περίπτωση), (7) Για τα μηχανήματα του παραρτήματος IV, (8) Αριθμός πιστοποιητικού, (9) Διακοινωμένος φορέας, (10) Εφαρμοζόμενη διαδικασία, (11) Στάθμη ηχητικής ισχύος, (12) Καταμετρημένη, (13) Εγγυημένη, (14) Εναρμονισμένα πρότυπα που χρησιμοποιούνται, (15) Πρότυπα ή τεχνικοί κανόνες που χρησιμοποιούνται, (16) Τόπος, (17) Ημερομηνία, (18) Όνομα του υπογράφοντος, (19) Ιδιότητα, (20) Εταιρεία, (21) Υπογραφή

es : (2) Fabricante, (3) Dirección, (4) Titular del expediente técnico, (5) El fabricante declara que la máquina que se describe a continuación, (6) Cumple con las siguientes directivas y sus transposiciones a la legislación nacional (en caso oportuno), (7) Para las máquinas anexo IV, (8) Número de certificación, (9) Organismo notificado, (10) Procedimiento aplicado, (11) Nivel de potencia acústica, (12) Medido, (13) Garantizado, (14) Normas armonizadas utilizadas, (15) Otras normas o especificaciones técnicas utilizadas, (16) Hecho en, (17) Fecha, (18) Nombre del signatario, (19) Cargo, (20) Empresa, (21) Firma.

et : (2) Tootja, (3) Aadress, (4) Tehnilise dokumentatsiooni valdaja, (5) Tootja kinnitab, et allpool kirjeldatud seade, (6) On vastavuses järgmiste direktiivide ja nende riigisisesesse õigusesse ülevõtmiseks vastuvõetud õigusaktidega (kui on kohaldatav), (7) IV lisas loetletud seadmete puhul, (8) Tunnistuse number, (9) Sertifitseerimisasutus, (10) Kohaldatav menetlus, (11) Akustilise võimsuse tase, (12) Mõõdetud, (13) Tagatud, (14) Vastab kehtivatele ühtlustatud standarditele, (15) Vastab muudele kehtivatele standarditele ja tehnilistele normidele, (16) Väljaandmise koht, (17) Väljaandmise aeg, (18) Allkirjastaja nimi, (19) Amet, (20) Ettevõte, (21) Allkiri

fi : (2) Valmistaja, (3) Osoite, (4) Teknisten asiakirjojen haltija, (5) Valmistaja ilmoittaa, että alla kuvailtu laite, (6) Täyttää seuraavien direktiivien sekä niitä vastaavien kansallisten säännösten vaatimukset (tarvittaessa), (7) Liitteen IV laitteiden osalta, (8) Todistusnumero, (9) Ilmoitettu laitos, (10) Käytetty menettelytapa, (11) Äänen tehotaso, (12) Mitattu, (13) Taattu, (14) Käytetyt yhdenmukaistetut standardit, (15) Käytetyt tekniset standardit tai säännökset, (16) Paikka, (17) Aika, (18) Allekirjoittajan nimi, (19) Toimi, (20) Yritys, (21) Allekirjoitus.

ga : (2) Déantóir, (3) Seoladh, (4) Sealbhóir an chomhaid theicniúil, (5) Dearbhaíonn an déantóir go ndéanann an t-inneall ar a bhfuil cur síos thíos, (6) Cloíonn sé le na treoracha seo a leanas agus iena dtrasuí isteach i ndlí náisiúnta (más cuí), (7) Le haghaidh innill an aguisín IV, (8) Uimhir teastais, (9) Comhlacht a dtugtar fógra dó, (10) Nós imeachta a cuireadh i bhfeidhm, (11) Leibhéal cumhachta na fuaime, (12) Tomhaista, (13) Ráthaithe, (14) Caighdeáin chomhchuibhithe a úsáideadh, (15) Caighdeáin nó forálacha teicniúla a úsáideadh, (16) Arna dhéanamh ag, (17) Dáta, (18) Ainm an tsínitheora, (19) Feidhmeannas, (20) Comhlacht (21) Síniú.

hr : (2) Proizvođač, (3) Adresa (4) Nositelj tehničke dokumentacije, (5) Proizvođač izjavljuje da stroj opisan u nastavku, (6) Ispunjava sljedeće direktive i njihovom prijenosu u nacionalno zakonodavstvo (ako je primjenjivo), (7) Za dodatak IV o strojevima, (8) Broj certifikata, (9) Ovlašteno tijelo, (10) Primijenjeni postupak, (11) Razina snage zvuka, (12) Izmjereno, (13) Zajamčeno, (14) Primijenjeni standardi o harmoniziranju, (15) Primijenjeni standardi ili tehničke pričuve, (16) Uređeno u, (17) Datum, (18) Ime potpisnika, (19) Funkcija, (20) Tvrtka, (21) Potpis.

hu : (2) Gyártó, (3) Cím, (4) A műszaki dokumentáció birtokosa, (5) A gyártó kijelenti, hogy az alábbi termék, (6) Megfelel az alábbi irányelveknek valamint azok honosított előírásainak (ha vannak ilyenek), (7) A IV. melléklet gépeihez (adott esetben), (8) Bizonylati szám, (9) Értesített szervezet, (10) Alkalmazott eljárás, (11) Akusztikus hang szint, (12) Mért, (13) Garantált, (14) felhasznált harmonizált szabványok, (15) egyéb felhasznált műszaki szabványok és előírások hivatkozásai, (16) Kelt (hely), (17) Dátum, (18) Aláíró neve, (19) Funkció, (20) Vállalat, (21) Aláírás

is : (2) Framleiðandi, (3) Aðsetur, (4) Handhafi tækniskrár, (5) Framleiðandi staðfestir að vélin sem lýst er hér, (6) Samrannsist eftirfarandi stöðlum og staðfestu þeirra með hliðsjón af þjóðarétti (ef við á), (7) Fyrir tækjabúnað í IV. viðauka, (8) Númer vottorðs, (9) Tilkynnt til, (10) Aðferð beitt, (11) Hljóðstyrkur, (12) Mældist, (13) Ábyrgð, (14) Samhæfðir staðlar sem notaðir voru, (15) Aðrar staðlar eða tæknilegar forskriftir, (16) Staður, (17) Dagsetning, (18) Nafn undirritaðs, (19) Staða, (20) Fyrirtæki, (21) Undirskrift.

it : (2) Costruttore, (3) Indirizzo, (4) Titolare del fascicolo tecnico, (5) Il costruttore dichiara che la macchina descritta di seguito, (6) È conforme alle direttive seguenti e al relativo recepimento nella normativa nazionale (se applicabile), (7) Per le macchine Allegato IV, (8) Numero di Attestazione, (9) Organismo destinatario della notifica, (10) Procedura applicata, (11) Livello di potenza acustica, (12) Misurato, (13) Garantito, (14) Norme armonizzate applicate, (15) Norme e specifiche tecniche applicate, (16) Luogo, (17) Data, (18) Nome del firmatario, (19) Funzione, (20) Società, (21) Firma,

lt : (2) Gamintojas, (3) Adresas, (4) Techninės bylos turėtojas, (5) Gamintojas nurodo, kad mašina, aprašyta žemiau, (6) atitinka toliau nurodytas direktyvas ir į nacionalinius teisės aktus perkeltas jų nuostatas (jei taikytina), (7) IV priedas dėl mašinų, (8) Sertifikato Nr., (9) Notifikuotoji įstaiga, (10) Taikyta procedūra, (11) Garso stiprumo lygis, (12) Išmatuotas, (13) Garantuojamas, (14) Naudoti darnieji standartai (15) Kiti naudoti standartai ir techninės specifikacijos, (16) Pasirašyta, (17) Data, (18) Pasirašiusio asmens vardas ir pavardė, (19) Pareigos, (20) Bendrovė, (21) Parašas

lv : (2) Ražotāja, (3) Adrese, (4) Tehniskās dokumentācijas turētāja, (5) Ražotājs apliecina, ka turpmāk aprakstītā mašīna, (6) Atbilst tālāk norādītajām direktīvām un to iekļaušanai nacionālajā likumdošanā (ja piemērojama), (7) IV pielikuma iekārtām, (8) Sertifikāta numurs, (9) Pilnvarotā iestāde, (10) Piemērotā procedūra, (11) Skaņas jaudas līmenis, (12) Izmērīta, (13) Garantēta, (14) Piemērojamie saskaņotie standarti, (15) Piemērojamie tehniskie standarti un noteikumi, (16) Sastādīts, (17) Datums, (18) Parakstītāja vārds, (19) Amats, (20) Uzņēmums, (21) Paraksts

mt : (2) Manifattur, (3) Indirizz, (4) Detentur tal-fajl tekniku, (5) Il-manifattur jiddikjara li l-magna deskritta hawn taht, (6) Hija konformi mja konformi mad-Direttivi segwenti u l-liġijet li implimentawhom fil-liġi nazzjonali (jekk applikabbli), (7) Għall-magni fi-Anness IV, (8) Numru tac-ċertifikat, (9) Entità notifikata, (10) Proċedura applikata, (11) Livell ta' qawwa akustika, (12) Imkejjel, (13) Garantit, (14) l-istandards armonizzati użati, (15) standards tekniċi u speċifikazzjonijiet oħra użati, (16) Magħmul f', (17) Data, (18) Isem il-firmatarju, (19) Kariga, (20) Kumpanija (21) Firma.

nl : (2) Fabrikant, (3) Adres, (4) Houder van het technisch dossier, (5) De fabrikant verklaart dat de hieronder beschreven machine, (6) In overeenstemming is met de volgende richtlijnen en hun omzettingen in het nationale recht (indien van toepassing), (7) Voor de machines in bijlage IV, (8) Certificaatnummer, (9) Aangemelde instantie, (10) Toegepaste procedure, (11) Geluidsvermogensniveau, (12) Gemeten, (13) Gegarandeerd, (14) gehanteerde geharmoniseerde normen, (15) andere gehanteerde technische normen en specificaties, (16) Opgemaakt te, (17) Datum, (18) Naam van ondergetekende, (19) Functie, (20) Onderneming, (21) Handtekening.

no : (2) Produsent, (3) Adresse, (4) Innehaveren av den tekniske dokumentasjonen, (5) Produsenten sier at maskinen beskrevet nedenfor, (6) Oppfyller kravene i følgende direktiver og ved nasjonale gjennomføringsbestemmelser (hvis aktuelt), (7) For maskinene i bilag IV, (8) Attestnummer, (9) Teknisk kontrollorgan, (10) Anvendt prosedyre, (11) Akustisk støy, (12) Målt, (13) Garantert, (14) harmoniserte standarder som brukes, (15) Andre standarder og spesifikasjoner som brukes, (16) Utstedt, (17) Dato, (18) Undertegnedes navn, (19) Stilling, (20) Firma (21) Underskrift

pl : (2) Producent, (3) Adres, (4) Posiadacz dokumentacji technicznej, (5) Producent oświadcza, że opisana poniżej maszyna, (6) Jest zgodna z następującymi dyrektywami i odpowiadającymi im przepisami prawa krajowego (jeśli dotyczy), (7) Dla maszyn załącznik IV, (8) Numer certyfikatu, (9) Jednostka certyfikująca, (10) Procedura stosowana, (11) Poziom mocy akustycznej, (12) Zmierzony, (13) Gwarantowany, (14) zastosowane normy zharmonizowane, (15) Zastosowane normy lub przepisy techniczne, (16) Sporządzono w, (17) Data, (18) Nazwisko podpisującego, (19) Stanowisko, (20) Firma (21) Podpis

pt : (2) Fabricante, (3) Morada, (4) Titular do processo técnico, (5) O fabricante afirma que a máquina descrita abaixo, (6) Está em conformidade com as seguintes diretivas e as suas transposições para o direito nacional (se for o caso), (7) Para as máquinas no anexo IV, (8) Número de certificado, (9) Entidade notificada, (10) Procedimento aplicado, (11) Nível de potência acústica, (12) Medida, (13) Garantida, (14) normas harmonizadas utilizadas, (15) outras normas e especificações técnicas utilizadas, (16) Elaborado em, (17) Data, (18) Nome do signatário, (19) Cargo, (20) Empresa, (21) Assinatura

ro : (2) Producător, (3) Adresa, (4) Titularul din dosarul tehnic, (5) Producătorul afirmă că aparatul descris mai jos, (6) Este conform cu directivele următoare și cu transpunerea lor în dreptul național (dacă este cazul), (7) Pentru mașinile din anexa IV, (8) Număr de atestare, (9) Organism notificat, (10) Procedura aplicată, (11) Nivel de putere acustică, (12) Măsurat, (13) Garantat, (14) standardele armonizate utilizate, (15) alte standarde și specificații tehnice utilizate, (16) Întocmit la, (17) Data, (18) Numele persoanei care semnează, (19) Funcția, (20) Firma, (21) Semnătura

sk : (2) Výrobca, (3) Adresa, (4) Držiteľ technickej dokumentácie, (5) Výrobca vyhlasuje, že nižšie popísaný stroj, (6) Je v súlade s nasledujúcimi smernicami a smernicami transponovanými do vnútroštátneho práva (v prípade potreby), (7) Pre stroje v prílohe IV, (8) Číslo certifikátu, (9) Notifikovaný orgán, (10) Použitý postup, (11) Akustická úroveň hluku, (12) Nameraná, (13) Zaručená, (14) Použité harmonizované normy, (15) Iné použité normy a technické predpisy, (16) Miesto vydania, (17) Dátum vydania, (18) Meno podpísanej osoby, (19) Funkcia, (20) Spoločnosť, (21) Podpis

sl : (2) Proizvajalec, (3) Naslov, (4) Imetnik tehnične dokumentacije, (5) Proizvajalec izjavlja, da naprava, opisana v nadaljevanju, (6) Ustreza naslednjim direktivam in nacionalni zakonodaji (če ta velja), (7) Za stroje v skladu s prilogo IV, (8) Številka potrdila, (9) Priglašen organ, (10) Uporabljen postopek, (11) Raven akustične moči, (12) Izmerjena, (13) Zajamčena, (14) Uporabljeni usklajeni standardi, (15) Drugi uporabljeni tehnični standardi in specifikacije, (16) V, (17) Datum, (18) Ime podpisnika, (19) Funkcija, (20) Podjetje, (21) Podpis.

sv : (2) Tillverkare, (3) Adress. (4) Ägaren av det tekniska underlaget, (5) Tillverkaren försäkrar att den maskin som beskrivs nedan, (6) Överensstämmer med nedanstående direktiv och införlivandet av dem i nationell rätt (om tillämpligt), (7) För maskinerna i bilaga IV, (8) Nummer för godkännande, (9) Anmält organ, (10) Förfarande som tillämpats, (11) Ljudtrycksnivå, (12) Uppmätt, (13) Garanterad (14) Harmoniserade standarder som använts, (15) andra tekniska standarder och specifikationer som använts, (16) Upprättat i, (17) Datum, (18) Namn på den som undertecknat, (19) Befattning, (20) Företag (21) Namnteckning

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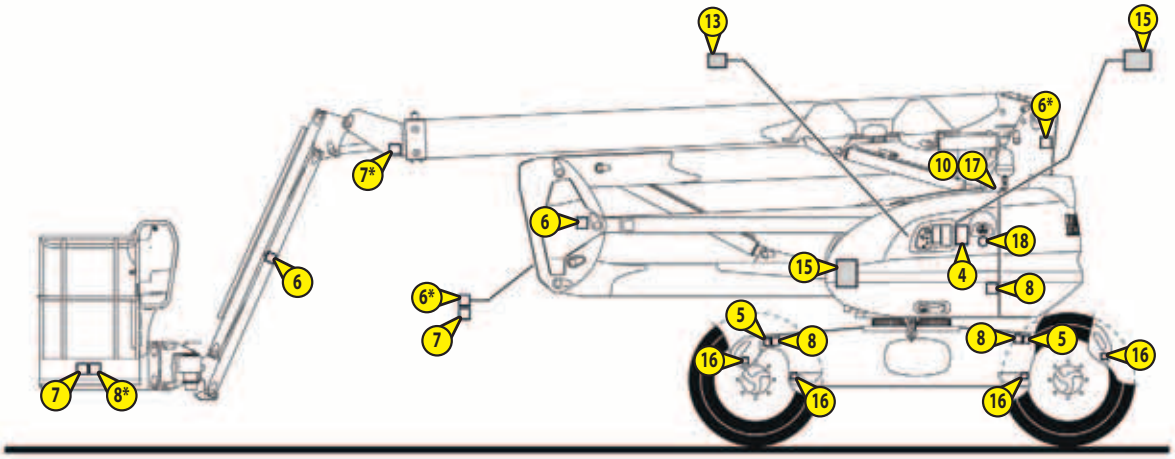
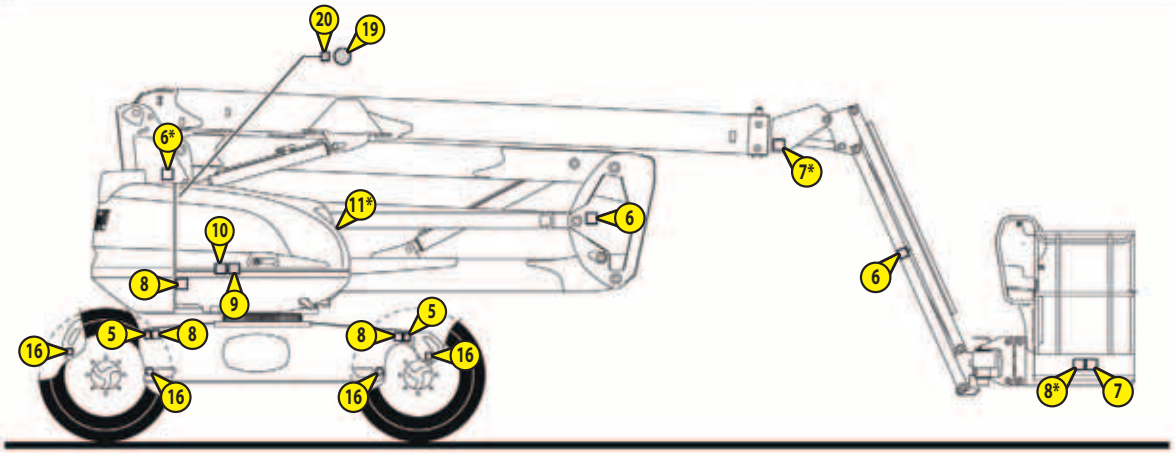
STICKERS

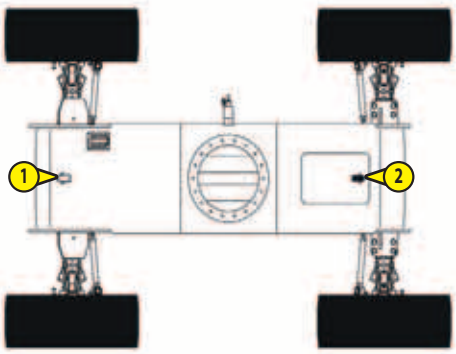
⚠ IMPORTANT ⚠

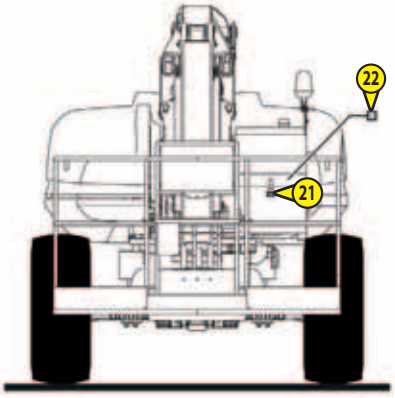
Clean all stickers so that they are legible.
Any stickers which are illegible or damaged must be replaced.
Check that the stickers are present after replacing any spare parts.

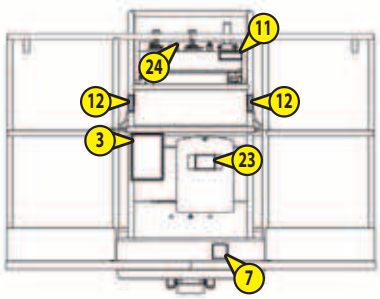
N.B.: (1) = 1st version. (2) = 2nd version. The reference (1) must be replaced by reference (2) for spare parts orders.











*: Depending on version

NOTE: Stickers with a grey background are hidden (under covers for example).

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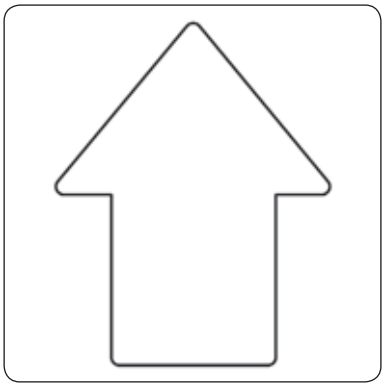
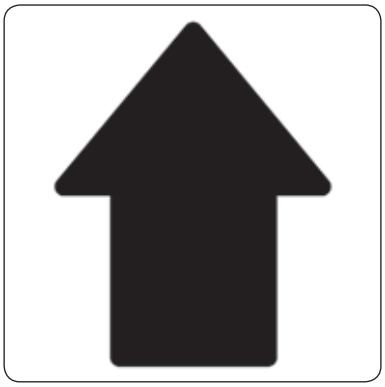
1 - WHITE ARROW — Part No. 489327

Indicates forward driving direction, ◁ PLATFORM OPERATION: TRANSPORT/WORKING POSITION.



2 - BLACK ARROW — Part No. 489326

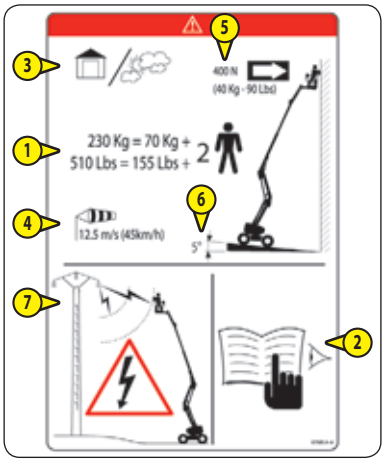
Indicates reverse driving direction, ◁ PLATFORM OPERATION: TRANSPORT/WORKING POSITION.



3 - BASKET SAFETY INSTRUCTIONS — Part No. 676814

Indicates:

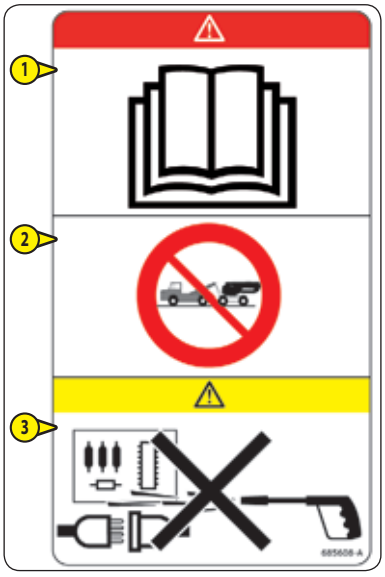
1. : Maximum load capacity for the basket.
2. : The safety and operating instructions must be read before starting the platform.
3. : Operating the platform outside and inside.
4. : Maximum wind speed when operating outside.
5. : Maximum manual force.
6. : Maximum tilt in the working position.
7. : The risk of electric shock.



4 - GROUND SAFETY INSTRUCTIONS — Part No. 685608

Indicates:

1. : The safety and operating instructions must be read before starting the platform.
2. : The platform must not be towed in the event of breakdown.
3. : It is strictly forbidden to direct a pressure washer nozzle over the control panels and electrical components.



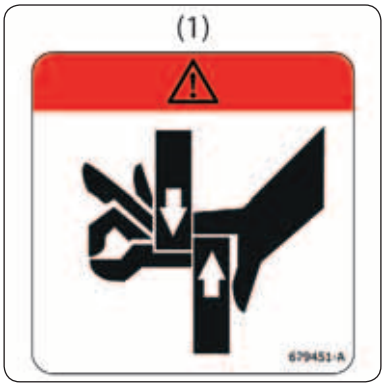
5 - WHEEL LOAD — Part no. 685626

Indicates the maximum ground load per wheel.

6 - HAND CRUSHING HAZARD — Part No. 679451 (1) / 676988 (2)

Indicates that it is strictly forbidden to place your hands or any other part of the body in the lifting mechanism components (arms, jib, basket, etc.).

N.B.: (1) = 1st version. (2) = 2nd version. The reference (1) must be replaced by reference (2) for spare parts orders.



7 - DANGER KEEP AWAY — Part No. 679450

Indicates that it is strictly forbidden to stand under the lifting mechanism (arms, jib, basket, etc.) or within the access platform's operating area.

8 - DANGER OF CRUSHING — Part No. 679452

Indicates that it is strictly prohibited to stand in this area when the platform is moving. The components on which the stickers are present could crush you.

9 - ROTATING ELEMENT HAZARD (depending on version) *Part No. 683108*

Indicates that there is a high risk of severing fingers with the radiator fan.

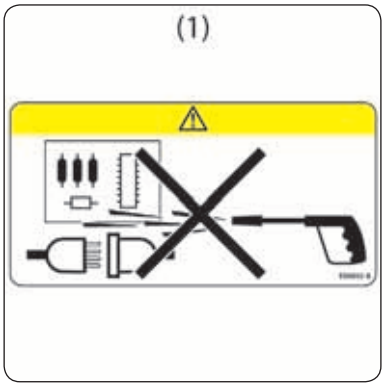
10 - HOT ELEMENT HAZARD (depending on version) *Part No. 683112*

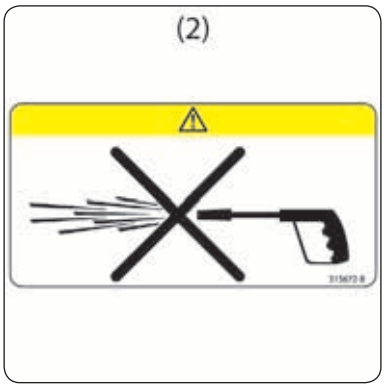
Indicates that there is a high risk of burns in the vicinity (silent engine, internal combustion engine, etc.).

11 - WASHING INSTRUCTION *Part No. 598892 (1) / 313672 (2)*

Indicates that it is strictly forbidden to direct a high pressure cleaner nozzle over the control panels and electrical components or on the engine air intake.

N.B.: (1) = 1st version. (2) = 2nd version. The reference (1) must be replaced by reference (2) for spare parts orders.





12 - HARNESS ATTACHMENT POINT — Part No. 684503 (1) / 834438 (2)

Indicates the location of safety harness attachment points, ◁ SAFETY COMPONENTS: HARNESS ATTACHMENT POINTS.

N.B.: (1) = 1st version. (2) = 2nd version. The reference (1) must be replaced by reference (2) for spare parts orders.

13 - BACKUP PUMP — Part No. 676992

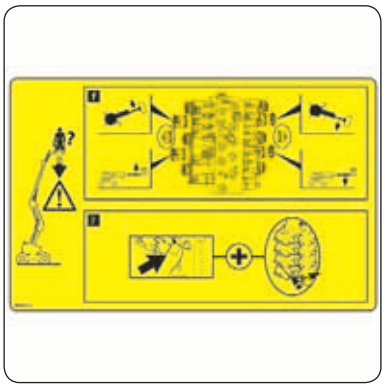
Indicates the procedure to be followed for using the backup pump, ◁RESCUE PROCEDURE.

14 - EMERGENCY CONTROL PROCEDURE — Part No. 685625

Indicates the procedure to be followed for using the emergency controls for proportional distributor, ◁ RESCUE PROCEDURE.

15 - EMERGENCY CONTROL PROCEDURE — Part No. 685612

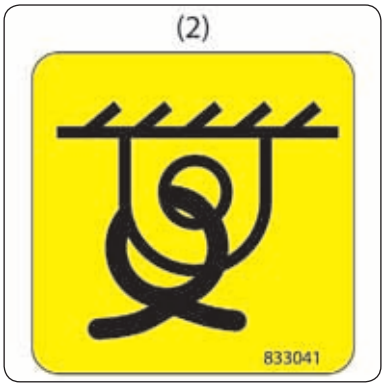
Indicates the procedure to be followed for using the emergency controls for secondary distributor, ◁ RESCUE PROCEDURE.



16 - LASHING POINT — Part No. 598895 (1) / 833041 (2)

Indicates the location of the platform's anchoring points, ◁ OPERATING THE PLATFORM: TRANSPORTING THE PLATFORM.

N.B.: (1) = 1st version. (2) = 2nd version. The reference (1) must be replaced by reference (2) for spare parts orders.



17 - HYDRAULIC OIL — Part No. 597652

This indicates that the tank is intended to contain only hydraulic oil.

18 - DIESEL — Part No. 683437

This indicates that the tank is intended to contain only vehicle diesel fuel.

19 - ANTIFREEZE (first version) — Part No. 597649

This indicates that there is antifreeze in the IC engine.

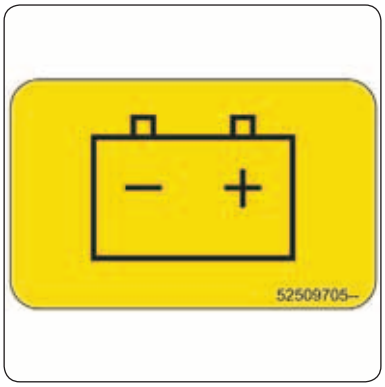
- Tick -30 °C (-22 °F) or -40 °C (-40 °F) box if the antifreeze protection has different characteristics from the original product.

20 - ANTIFREEZE (second version) *Part No. 52501046*

This indicates that there is antifreeze in the IC engine.

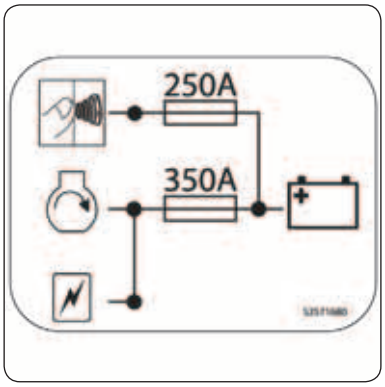
21 - BATTERY HOUSING (depending on version) *Part No. 52509705*

Indicates location of battery.



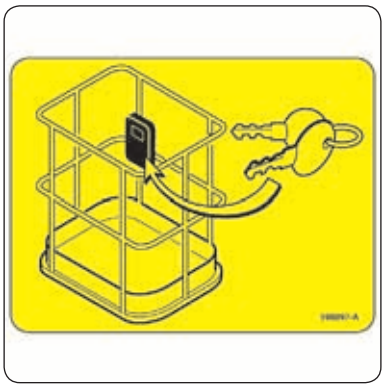
22 - POWER FUSE (depending on version) *Part No. 52571680*

Indicates the location, amperage and allocation of power fuses.



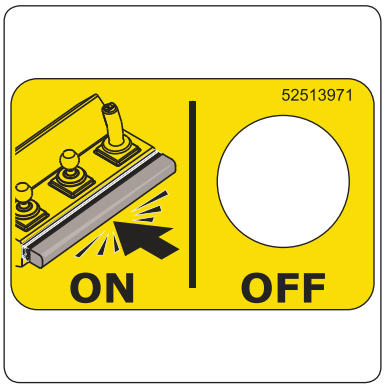
23 - PLATFORM KEY LOCATION (depending on version) *Part No. 598897*

Indicates the location of the platform's spare keys.



24 - RESET BUTTON (OPTION) *Part No. 52513971*

Indicates the location of the reset button of the "SECONDARY PROTECTION SYSTEM option. "SafeManSystem"



IDENTIFICATION OF THE PLATFORM

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

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

NOTE: In order to have all these numbers on hand when needed, it is recommended that they are noted in the spaces provided, at the time of the delivery of the access platform.

PLATFORM MANUFACTURER'S PLATE

The manufacturer's plate is riveted to the left side of the turntable or on the back of the chassis.

FIRST VERSION:

"Model" Model	
"Serial no." Serial No.	
"Year of manufacture" Year of manufacture	
"Empty weight" Unladen weight	
"Power" Power	
"Voltage" Voltage	
"Inside / Outside" Interior/Exterior	
"Maximum load" Maximum load	
"Maximum no of persons" Maximum number of persons	
"Attachment" Equipment	
"Manual forces" Manual forces	
"Max. tilt" Maximum tilt	
"Max. wind speed" Maximum wind speed	
"Ext. electrical source" External power source	

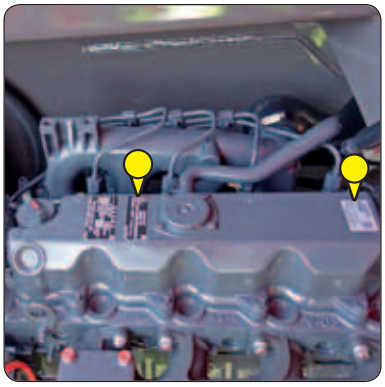
SECOND VERSION:

"Designation" Designation	
"Year of manufacture" Year of manufacture	
"Model year" Model year	
"Unladen mass" Unladen weight	
"Nominal power" Rated power	
"Voltage" Voltage	
"Inside / Outside" Interior/Exterior	
"Maximum load" Maximum load	
"Maximum number of persons" Maximum number of people	
"Mass of equipment" Equipment weight	
"Manual forces" Manual forces	
"Maximum inclination" Maximum tilt	
"Maximum wind speed" Maximum wind speed	
"Serial Number" Serial number	

All other technical information for your platform is listed in the chapter: CHARACTERISTICS.

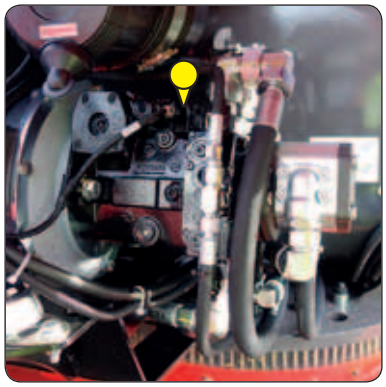
ENGINE

"Model" Model	
"Serial No." Serial number	
"Code No." Code number	
"Type" Type	
"Family" Family	
"Approval number" Approval number	



HYDROSTATIC PUMP

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



FRONT AXLE

"Type" Type	
"Serial No." Serial number	
"Model" Model	

REAR AXLE

"Type" Type	
"Serial No." Serial number	
"Model" Model	

CHARACTERISTICS

LOAD SPECIFICATIONS			±
Platform			
- Maximum capacity of basket	kg (lbs)	230 (510)	-
- Maximum wind speed when operating outside	km/h	45	-
- Maximum number of people in the basket (indoor use / outdoor use)		2/2	-
- Unladen platform weight	kg (lbs)	10,050 (22,160)	-
- Authorised maximum tilt	°	5	-
- Traversable slope (+100 kg)	%	40	-
- Maximum authorised lateral manual force	N	400	-
Wheels SOLIDEAL MPT (first version)			
- Load on one front wheel (transport position)	kg (lbs)	2,192 (4,832)	5
- Load on one rear wheel (transport position)	kg (lbs)	2,825 (6,228)	5
- Maximum load on one wheel (working position)	kg (lbs)	6,261 (13,803)	5
- Bearing surface on ground (hard / soft)	cm^2	487/1,530	3
- Punching on ground (hard / soft)	daN/cm^2	12.85/4.09	-
Wheels SOLIDEAL SOLIDAIR AWP (second version)			
- Load on one front wheel (transport position)	kg (lbs)	2,365 (5,214)	5
- Load on one rear wheel (transport position)	kg (lbs)	2,885 (6,360)	5
- Maximum load on one wheel (working position)	kg (lbs)	6,261 (13,803)	5
- Bearing surface on ground (hard/soft)	cm^2	303.2 - 1,003	3
- Punching on ground (hard/soft)	daN/cm^2	20.65 - 6.24	-

SPEEDS AND MOVEMENTS			±
Driving speed			
- WORKING POSITION speed	km/h	0.8	0.1
- TORTOISE speed	km/h	2.5	0.2
- RAMP speed	km/h	2.5	0.2
- HARE speed	km/h	4.7	0.2
Main arm (telescope extended)			
- Unladen/laden lifting	s	31/31	1
- Unladen/laden lowering	s	31/31	1
Main arm (telescope retracted)			
- Unladen/laden lifting	s	22/22	1
- Unladen/laden lowering	s	22/22	1
Secondary arm			
- Unladen/laden lifting	s	23/23	1
- Unladen/laden lowering	s	23/23	1
Telescope			
- Unladen/laden extension	s	23/23	1
- Unladen/laden retraction	s	23/23	1
Jib			
- Unladen/laden lifting	s	24/24	1
- Unladen/laden lowering	s	24/24	1
Turntable			
- 350° rotation (telescope extended/retracted)	s	132/92	1
Basket			
- Left / right rotation	s	12/12	2

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ENGINE			±
Type		KUBOTA V2403-M	-
Fuel		Diesel	-
Number of cylinders		4	-
Cubic capacity	cm^3	2434	-
Idling speed unladen	rpm	1285	25
Maximum speed unladen	rpm	2525	25
Power at 3,000 rpm	kW	34.1	-
Maximum torque at 1,600 rpm	N.m	162.5	-
Unladen weight	kg (lbs)	184 (406)	-
Type of cooling		Water	-
Fan		Puller	-
Emissions			
- CO (carbon monoxide)	g/kWh	1.14	-
- HC + Nox (hydrocarbons + nitrogen dioxide)	g/kWh	5.065	-
- PT (particles)	g/kWh	0.311	-

TRANSMISSION			±
Hydrostatic pump			
- Type		BOSCH REXROTH A10VG45	-
- Cubic capacity	cm^3	46	-
- Maximum unladen flow rate	L/min	115	-
- Maximum pressure	bar	335	-
Hydrostatic motor			
- Type		BOSCH REXROTH	-
- Cubic capacity	cm^3	107	-
Axles			
- Type		DANA SPICER	-
- Reduction ratio		43.33	-
- Pulling force	daN	3944	-
- Front axle differential		45% limited slip	-
- Rear axle differential		Hydraulic locking 100%	-
Number of front/rear steering/directional wheels		2/2	-
Number of front/rear drive wheels		2/2	-
Wheels (first version)			
- Type		SOLIDEAL MPT	-
- Dimensions (external Ø x width)	mm	1092 x 432	-
- Inflation		Foam	-
Wheels (second version)			
- Type		SOLIDEAL SOLIDAIR AWP	-
- Dimensions (external Ø x width)	mm	1,025 x 365	-
- Inflation		Solid tyre	-

BRAKE SYSTEM (parking brake)			±
Type of brake		Negative	-
Type of control		Hydraulics	-
Braked wheels front/rear		0/2	-
Release (freewheel mode)		Yes, manual	-
Braking torque	daN.m	2110 on wheel	5%

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HYDRAULIC CIRCUIT			±
Auxiliary hydraulic pump			
- Type		BOSCH REXROTH	-
- Cubic capacity	cm^3	22.5	-
- Maximum unladen flow rate	L/min	56	-
Distributor			
- Type		DANFOSS	-
- Maximum pressure	bar	200	5
Filtration			
- Suction	µm	125	-
- Pressure	µm	10	-
- Operation	µm	10	-

ELECTRIC CIRCUIT			±
Battery			
- Type		EXIDE	-
- Capacity C5	Ah	110	-
- Capacity C20	Ah	-	-
- Rated voltage	V	12	-
Alternator			
- Type		-	-
- Maximum current	A	60	-
- Rated voltage	V	12	-
Starter			
- Type		Electric	-
- Power	kW	1.4	-
- Voltage	V	12	-

BACKUP PUMP			±
- Type		Electric	-
- Cubic capacity	cm^3	2	-
- Power	kW	1.3	-
- Voltage	V	12	-
- Pressure 150 bars	A	-	-

DIMENSIONS			±
Basket			
- External dimensions (length x width)	mm	2,100 x 800	1%
- Floor dimensions (length x width)	mm	2,090 x 760	1%
- Rotation angle right/left	°	180/180	1%
Jib displacement angle up/down	°	69/66	1%
Turntable rotation angle (depending on model)	°	355 or continuous rotation	-
Other dimensions: ◁ DIMENSIONS AND DIAGRAM			

SOUND AND VIBRATION			±
Acoustic power level LwA (first version / second version)	dB	102/103	-
Vibrations affecting body in the basket			
- Average quadratic values for the body	m/s^2	< 0.5	-

EQUIPMENT		±
Orange rotating beacon light	Standard	-
Hour meter	Standard	-
Proportional diesel level display	Standard	-
Fuel/battery low level alarm	Standard	-
Tool box in basket	Standard	-
User interface (diagnostic aid)	Standard	-
Oscillating front axle	Option	-
Key-locked fuel tank cap	Option	-
Permanent orange rotating beacon light	Option (2)	-
All movements alarm	Option (1) (2)	-
Driving/steering alarm	Option (1) (2)	-
Battery cut-off	Option	-
230 V outlet in basket	Option	-
Generator 110 V/3.5 kW (electric power socket UK)	Option	-
Generator 220 V/3.5 kW	Option	-
Generator 220 V/5 kW	Option	-
Working light	Option	-
Secondary protection system "SafeManSystem"	Option	-
Automatic retraction of telescope (for option "SafeManSystem")	Option (3)	-

(1): Up to machine no. 949266, ◁ REPAIR MANUAL.

(2): From machine no. 949267, ◁ SUB-MENU DEFINITIONS FROM MACHINE No. 949267.

(3): Depending on version, ◁ SUB-MENU DEFINITIONS FROM MACHINE No. 949267.

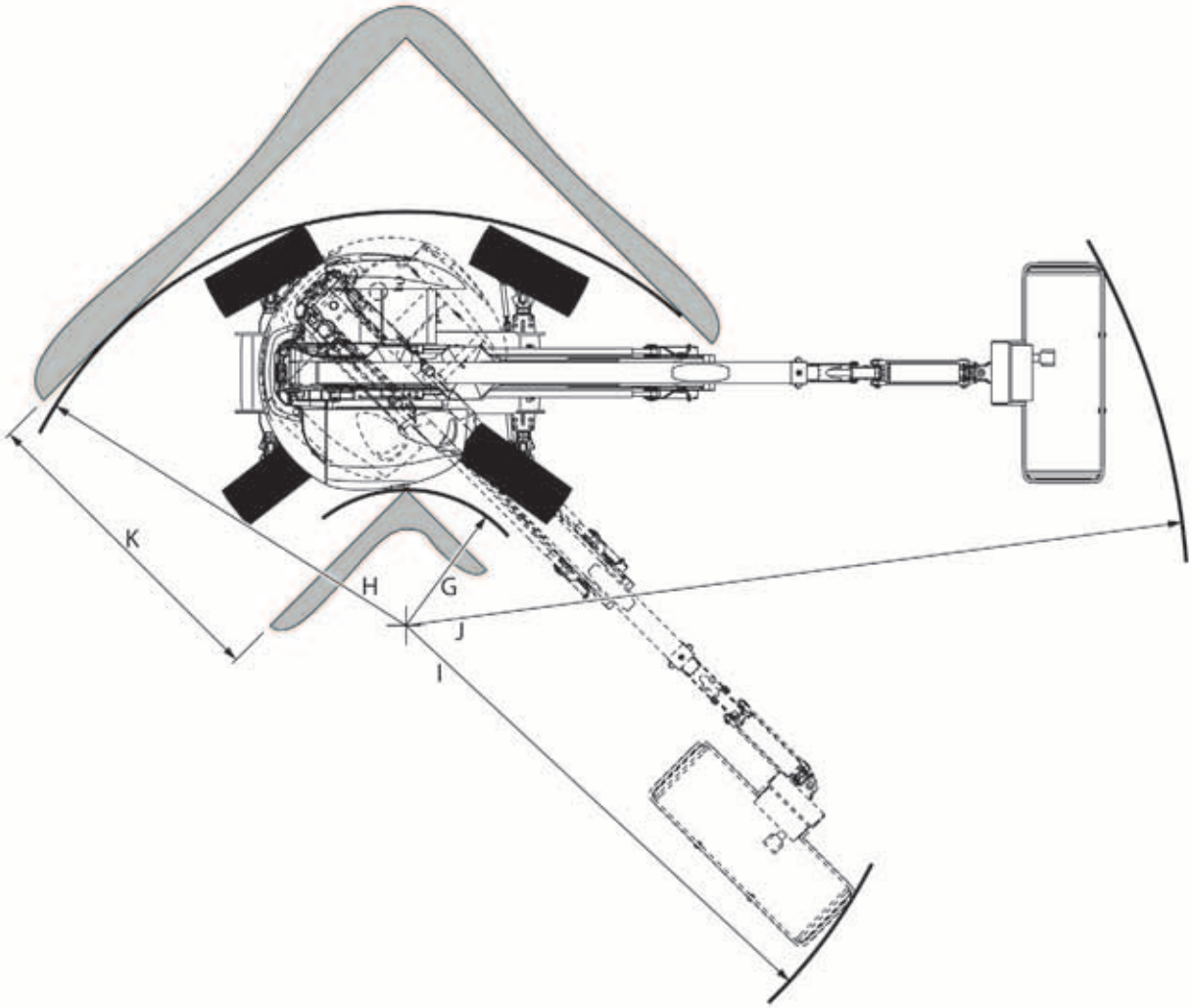
DIMENSIONS AND DIAGRAM

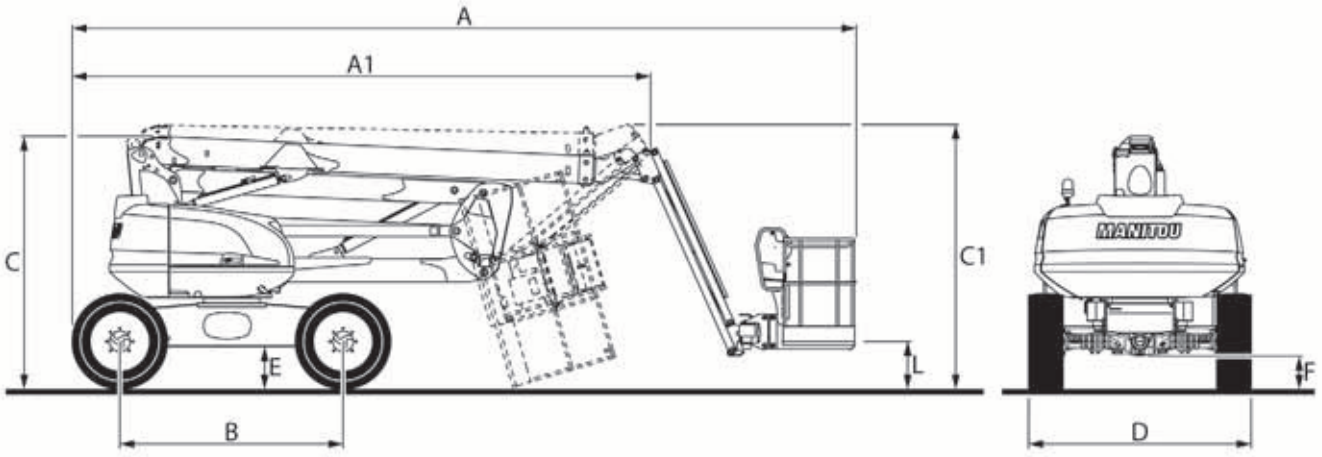
A	mm	8,475 (1)	8,430 (2)
A1	mm	6,260 (1)	6,215 (2)
B	mm	2400	
C	mm	2,700 (1)	2,715 (2)
C1	mm	2,840 (1)	2,855 (2)
D	mm	2400	
E	mm	430 (1)	440 (2)

F	mm	340	
G	mm	1300	
H	mm	3950	
I	mm	5000	
J	mm	7450	
K	mm	3030	
L	mm	495 (1)	505 (2)

(1): Wheels SOLIDEAL MPT (first version).

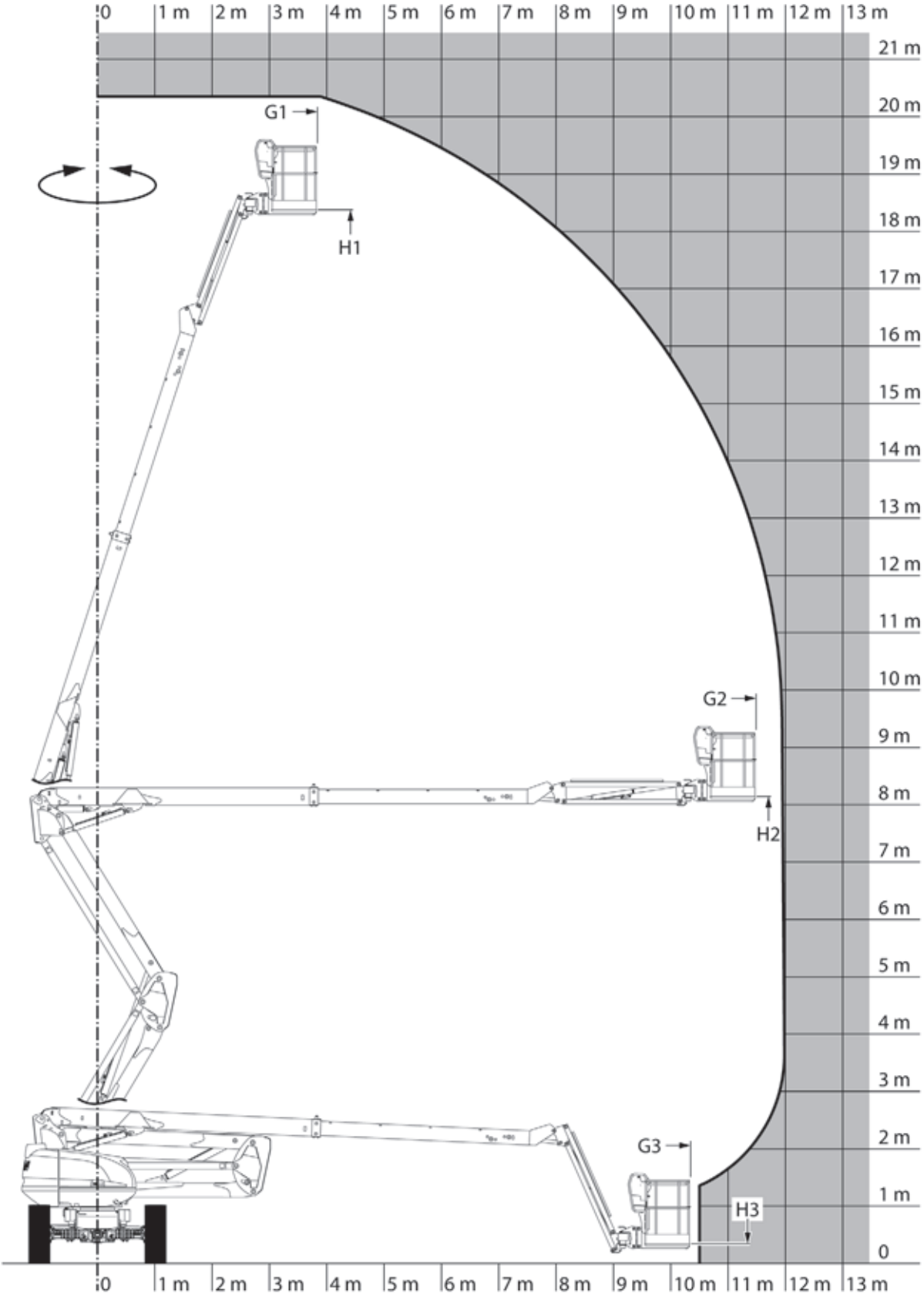
(2): Wheels SOLIDEAL SOLIDAIR AWP (second version).





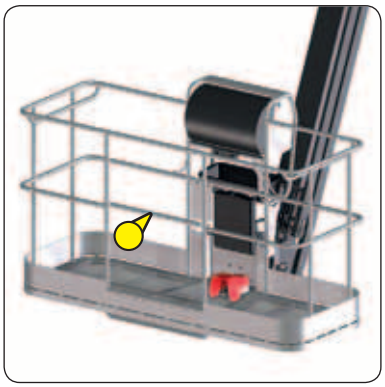
G1	mm	3820	
H1	mm	18,375 (1)	18,360 (2)
G2	mm	11470	
H2	mm	8,145 (1)	8,130 (2)
G3	mm	10330	
H3	mm	335 (1)	320 (2)

(1): Wheels SOLIDEAL MPT (first version).
(2): Wheels SOLIDEAL SOLIDAIR AWP (second version).



SAFETY COMPONENTS

GUARDRAIL



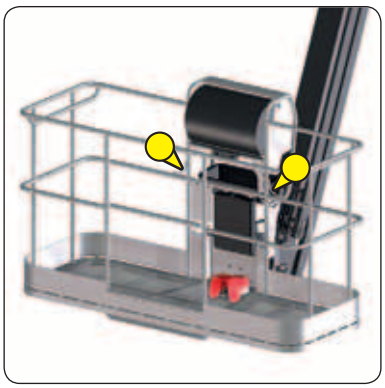
⚠ IMPORTANT ⚠

Do not attach the guardrail with a clamp, twine or any device that could prevent it from functioning properly.

- Raise the guardrail and keep it raised to get in and out of the basket.

NOTE: 1 guardrail at the rear of the basket.

HARNESS ATTACHMENT POINTS



⚠ IMPORTANT ⚠

Only one operator is permitted to use each attachment point.

- Attach security harnesses to attachment points in the basket.

NOTE: 2 attachment points, ◁ STICKERS: HARNESS ATTACHMENT POINTS.

TURNTABLE LOCKING PIN

Locking the turntable prevents it from rotating.

Position (1A): The turntable is unlocked.

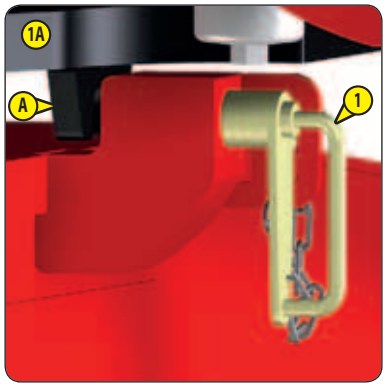
Position (1B): The turntable is locked.

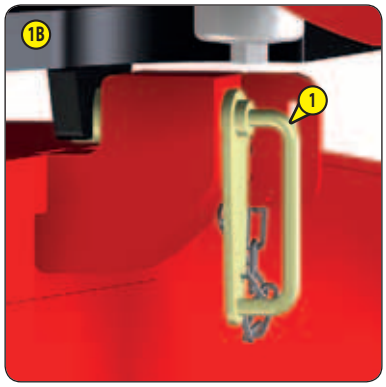
LOCK THE TURNTABLE

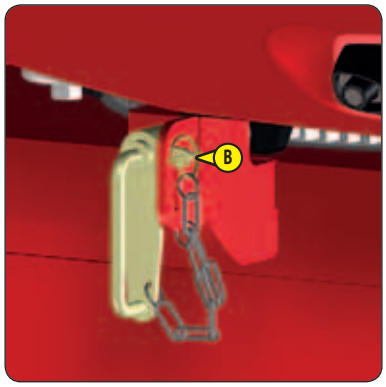
- Line the locking pin (1) up with the notch (A) on the chassis by putting the turntable in the neutral position, ◁ OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.
- Remove the securing pin (B).
- Turn the locking pin to the left and push it into the notch on the chassis.
- Turn the locking pin to the right and put the securing pin back in place (position (1B)).

UNLOCK THE TURNTABLE

- Remove the securing pin (B).
- Turn the locking pin to the left and pull it out of the notch on the chassis.
- Turn the locking pin to the right and put the securing pin back in place (position (1A)).





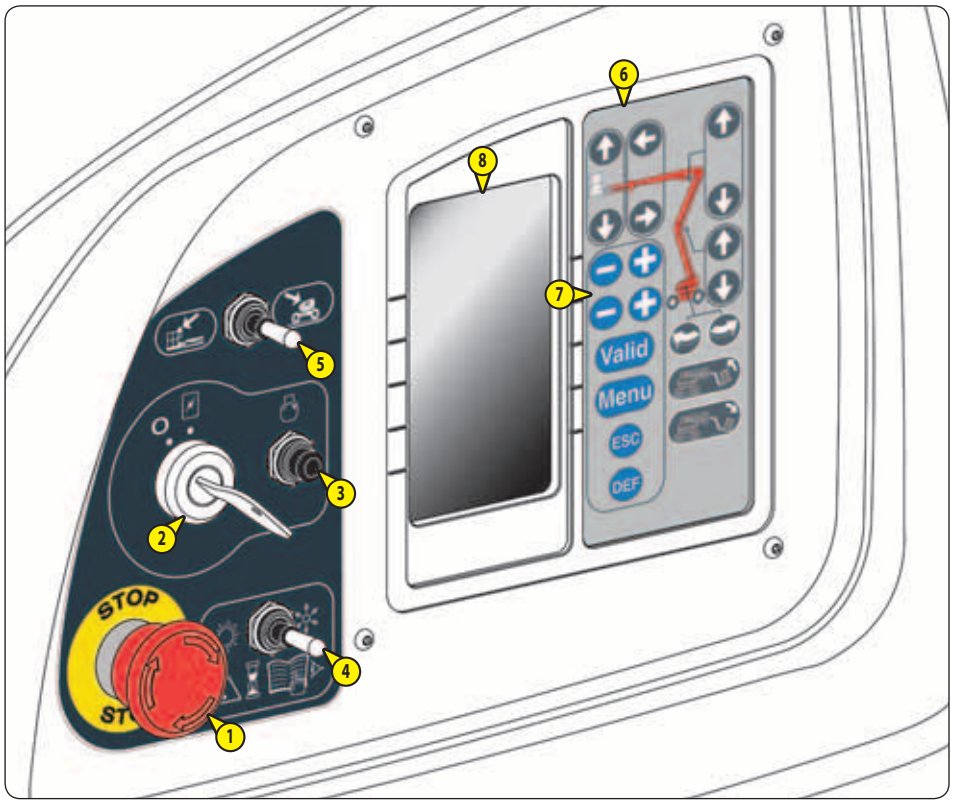


CONTROL PANEL AND SAFETY DEVICES AT GROUND LEVEL

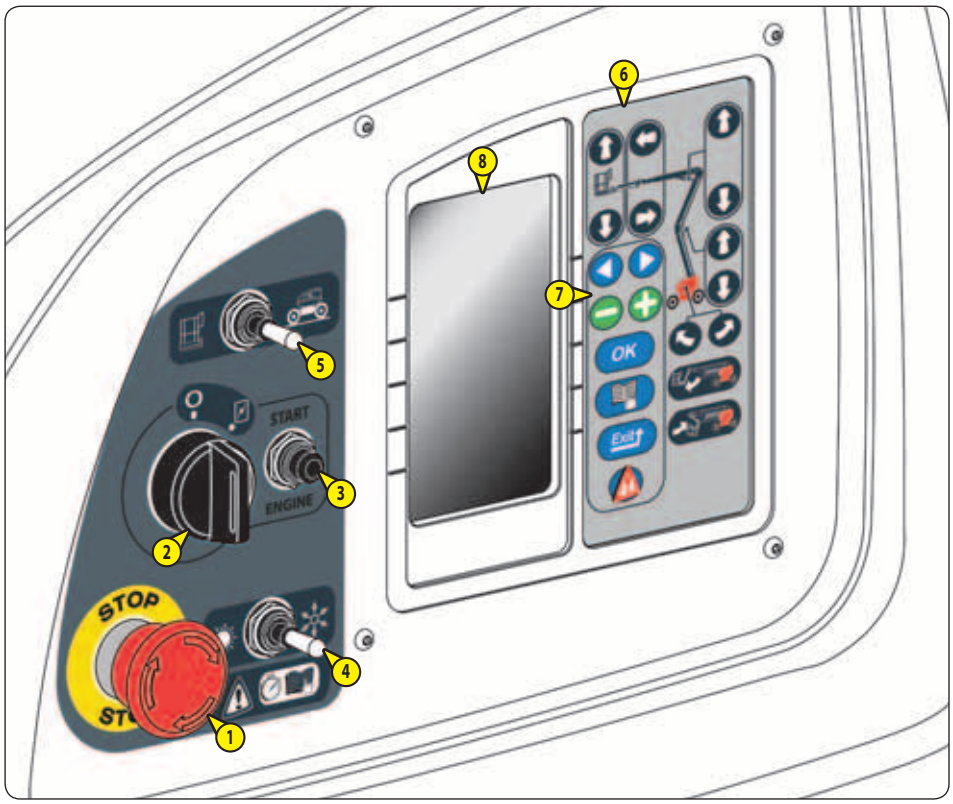
⚠ IMPORTANT ⚠

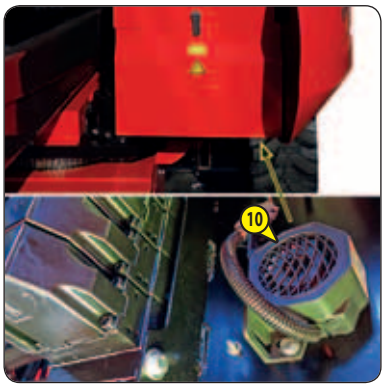
The left and right are defined in OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.

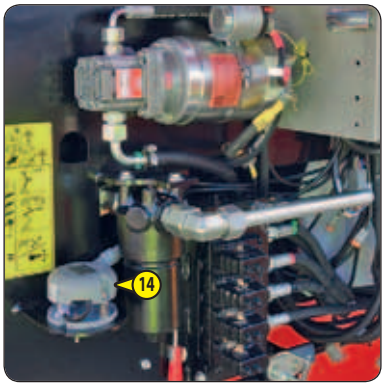
First version



Second version





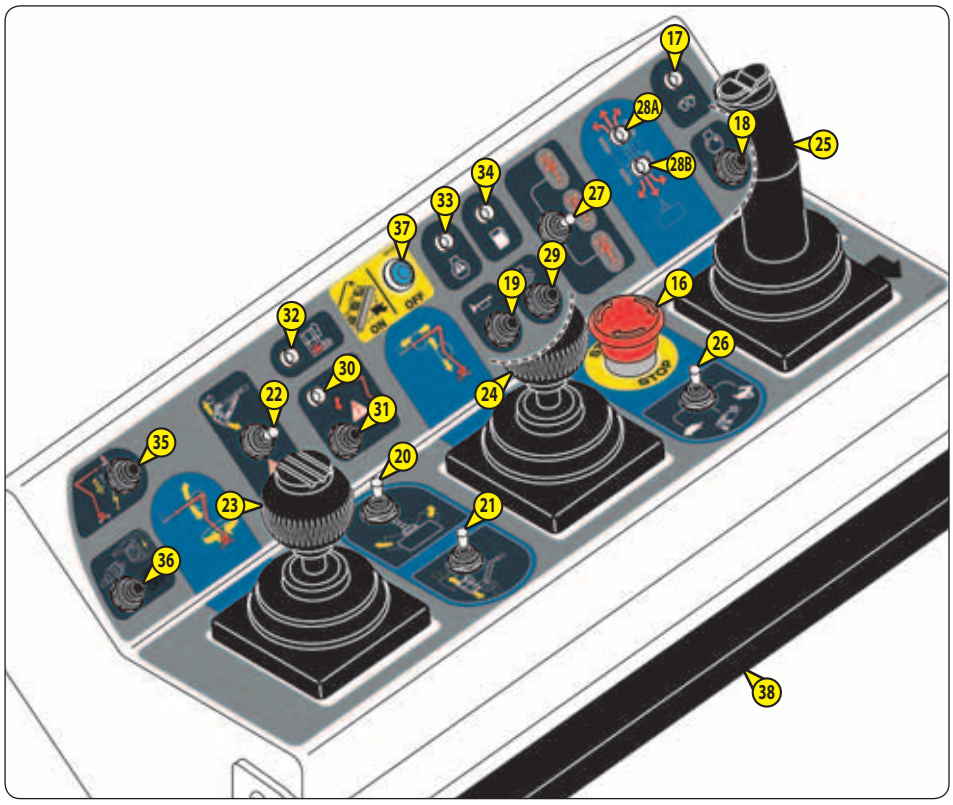


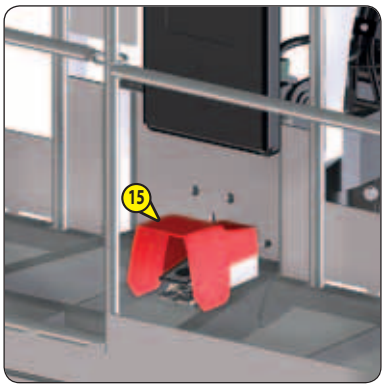
CONTROL PANEL AND SAFETY DEVICES IN THE BASKET

⚠ IMPORTANT ⚠

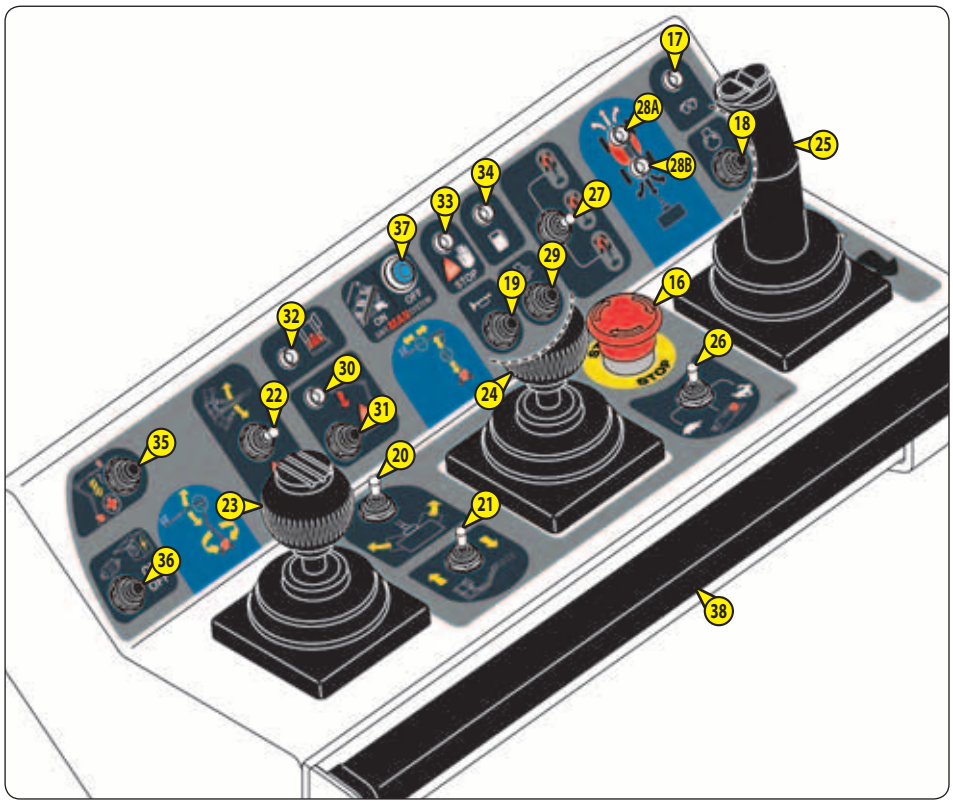
The front, rear, left and right are defined in OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.

First version





Second version



1 - EMERGENCY STOP BUTTON

Illustration = second version.

⚠ IMPORTANT ⚠

In all cases this control takes priority, even if the movements are executed from the basket control panel.
Movements may stop suddenly if the emergency stop is activated.

2 positions:

- OFF (locked): Press the button to cut off movement and to stop the engine.
- ON position (unlocked): Turn the button a quarter turn to the right and release it.

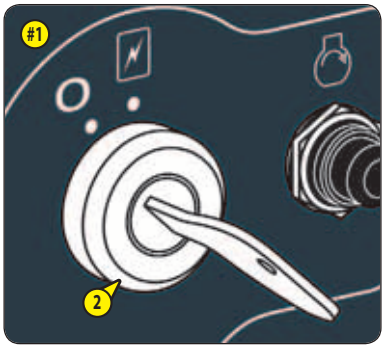
2 - IGNITION SWITCH

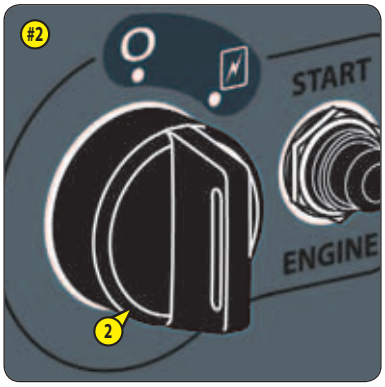
Illustrations: (#1) = first version, (#2) = second version.

2 positions:

Power down platform and stop engine. The key can be removed.

Power up platform and start the engine preheat cycle. The key cannot be removed.





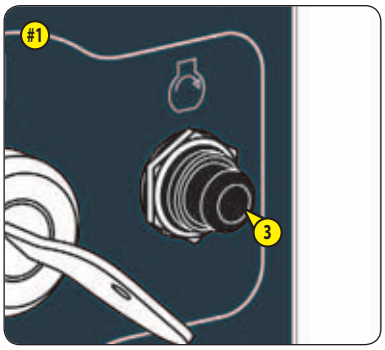
3 - ENGINE STARTER BUTTON

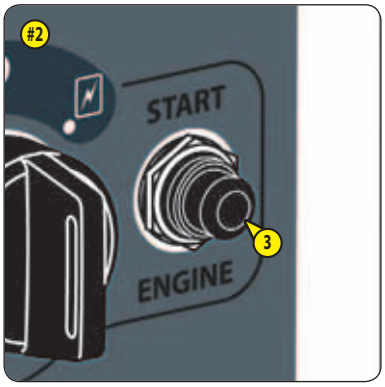
Illustrations: (#1) = first version, (#2) = second version.

⚠ IMPORTANT ⚠

Do not keep the button pressed for more than 15 seconds.

- Press and hold down the button to start the engine.
- Release button once the engine has started.





4 - ENGINE STARTING MODE SWITCH

Illustrations: #1 = first version, #2 = second version.

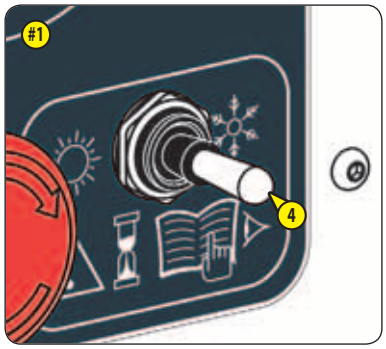
2 positions:



SUN POSITION: For an outside temperature higher than -10 °C.


SNOW POSITION: For an outside temperature lower than -10 °C:

- Put the switch on the SNOW POSITION.
- Switch on the engine.
- Wait for 30 to 60 seconds depending on the outside temperature without using the platform controls.
- Put the switch on the SUN POSITION to restore standard idling.



5 - CONTROL SELECTION SWITCH ON THE GROUND/IN THE BASKET

Illustrations: #1 = first version, #2 = second version.

2 positions:



CONTROLS IN THE BASKET when the switch is released:

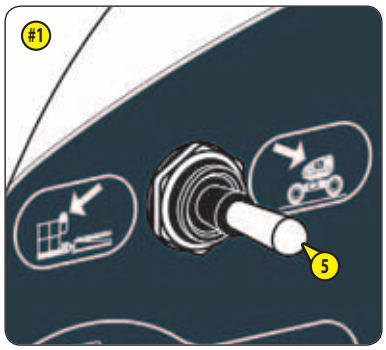
- The controls in the basket are activated.



GROUND CONTROLS:

- Push and hold the switch to the right to activate the ground level controls.

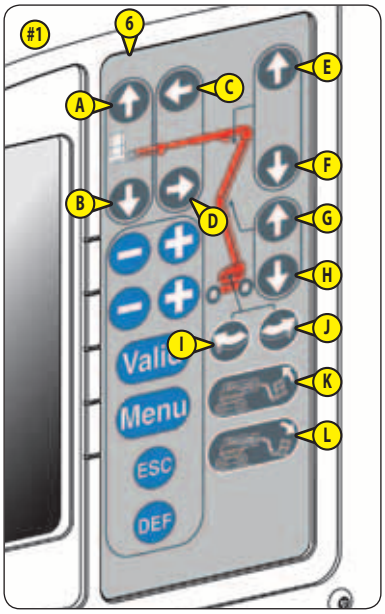
NOTE: This operating mode is called the "dead man" function.

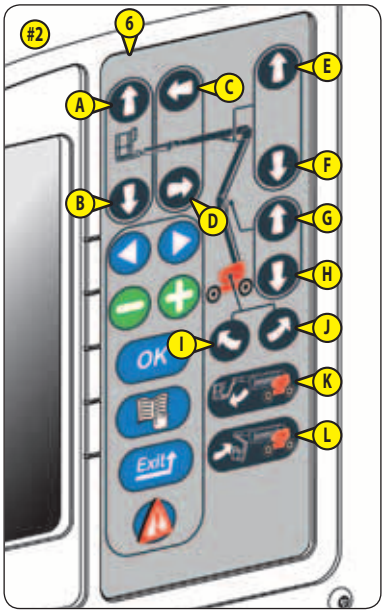


6 - CONTROL KEYS

Illustrations: (#1) = first version, (#2) = second version.

- Press and hold down the selector switch for the ground/basket controls to the right or (depending on version).
- Press and hold down the appropriate keys to activate platform controls:
  - **(A) RAISE THE JIB.**
  - **(B) LOWER THE JIB.**
  - **(C) EXTEND THE TELESCOPE.**
  - **(D) RETRACT THE TELESCOPE.**
  - **(E) RAISE THE MAIN ARM.**
  - **(F) LOWER THE MAIN ARM.**
  - **(G) RAISE THE SECONDARY ARM.**
  - **(H) LOWER THE SECONDARY ARM.**
  - **(I) TURN THE TURNTABLE TO THE LEFT.**
  - **(J) TURN THE TURNTABLE TO THE RIGHT.**
  - **(K) TILT BASKET UPWARDS.**
  - **(L) TILT BASKET DOWN.**
- Release the keys or the selection switch to stop.

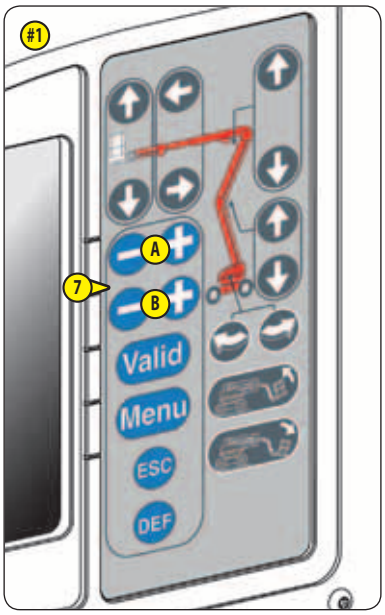




7 - NAVIGATION SCREEN INTERFACE KEYS

Illustration (#1) = first version.

- Press the appropriate keys:



PLUS/MINUS (A):
• Navigate through the menu/sub-menu pages.

PLUS/MINUS (B):
• Navigate through the menu pages or change the parameters.

VALID:
• Confirm a selection or a parameter.

MENU:
• Display the MENU PAGE.
• Exit a men/sub-menu and return to WORK PAGE.

ESC:
• Cancel a parameter change.
• Return to the previous sub-menu level.

DEF:
• Display the FAULT PAGE.

NOTE: ◁ SCREEN DISPLAY - DESCRIPTION OF PAGES.

Illustration (#2) = second version.

- Press the appropriate keys:

ARROWS:
• Navigate through the menu/sub-menu pages.

PLUS/MINUS:
• Navigate through the menu pages or change the parameters.

OK:
• Confirm a selection or a parameter.

MENU:
• Display the MENU PAGE.
• Exit a men/sub-menu and return to WORK PAGE.

EXIT:
• Cancel a parameter change.
• Return to the previous sub-menu level.

FAULT:
• Display the FAULT CODE/ALARM PAGE.

NOTE: ◁ SCREEN DISPLAY - DESCRIPTION OF PAGES.

8 - INTERFACE SCREEN

The interface screen displays all the start-up steps and the settings, and gives access to specific sub-menus, such as:

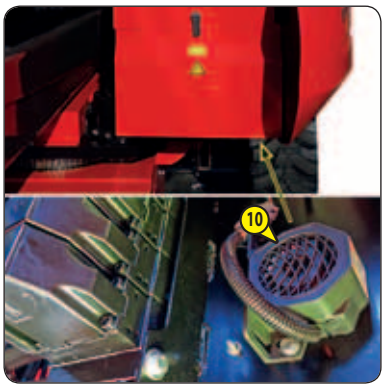
- Platform maintenance.
- Fault log.
- Hour meters (engine operation hours counter, daily usage hour counter, etc.).

NOTE: ◁ SCREEN DISPLAY - DESCRIPTION OF PAGES.

9 - BACKUP PUMP BUTTON

◁ RESCUE PROCEDURE.

10 - HORN



Up to machine no. 949266

The horn sounds:

- When the horn button is pressed.

ALL MOVEMENTS ALARM option: This sounds intermittently when the controls are activated and when driving/steering the platform.

DRIVING/STEERING ALARM option: This sounds intermittently when driving/steering the platform.

From machine no. 949267

The horn sounds:

- When the horn button is pressed.
- Depending on version, twice when the machine is turned on without starting the engine in the next 10 seconds, ◁ SCREEN DISPLAY - DESCRIPTION OF PAGES FROM MACHINE No. 949267: ALARM PAGE.

ALL MOVEMENTS ALARM option: This sounds intermittently when the controls are activated and when driving/steering the platform, ◁ SUB-MENU DEFINITIONS FROM MACHINE No. 949267: USER OPTIONS: HORN MODE.

DRIVING/STEERING ALARM option: This sounds intermittently when driving/steering the platform, ◁ SUB-MENU DEFINITIONS FROM MACHINE No. 949267: USER OPTIONS: HORN MODE.

Option "SafeManSystem": It sounds intermittently when the system is in alarm mode, ◁ OPTIONS.

11 - ORANGE ROTATING BEACON LIGHT

Up to machine no. 949266

The orange rotating beacon light is lit when the controls are activated and when driving/steering the platform.

From machine no. 949267

PERMANENT ORANGE ROTATING BEACON LIGHT option deactivated: The orange rotating beacon light is lit when the controls are activated and when driving/steering the platform, ◁ SUB-MENU DEFINITIONS FROM MACHINE No. 949267: USER OPTIONS: PERMANENT ORANGE ROTATING BEACON LIGHT.

PERMANENT ORANGE ROTATING BEACON LIGHT option activated: The orange rotating beacon light is lit when the controls are activated and when driving/steering the platform, ◁ SUB-MENU DEFINITIONS FROM MACHINE No. 949267: USER OPTIONS: PERMANENT ORANGE ROTATING BEACON LIGHT.

12 - BLUE FLASHING LIGHT (OPTION: "SAFEMANSYSTEM")

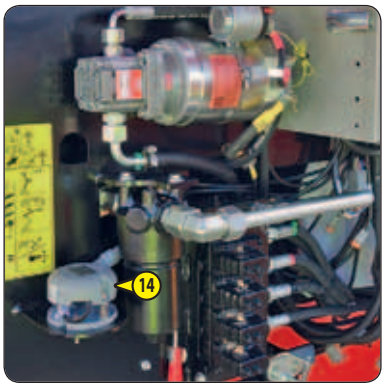
◁ OPTIONS.

13 - LEVELLING SENSOR (first version)

2 Two indicator lights under the levelling sensor indicate its status:

	RED LIGHT	YELLOW LIGHT	HORN
Maximum authorised slope not reached	Lit	Unlit	Stop
Maximum authorised slope reached	Lit	Lit	Sounds intermittently

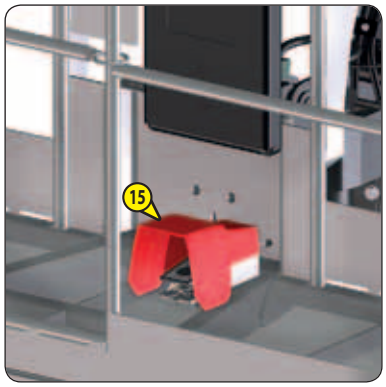
14 - LEVELLING SENSOR (second version)



1°An indicator light on the levelling sensor indicates its status:

	INDICATOR LIGHT	HORN
Maximum authorised slope not reached	Lit	Stop
Maximum authorised slope reached	Unlit	Sounds intermittently

15 - PEDAL SWITCH



⚠ IMPORTANT ⚠

Do not press the pedal switch when starting the engine.

- Press and hold down the foot switch to activate the controls from the basket control panel.

NOTE: This operating mode is called the "dead man" function.

NOTE: No controls can be activated if the foot switch is released.

16 - EMERGENCY STOP BUTTON

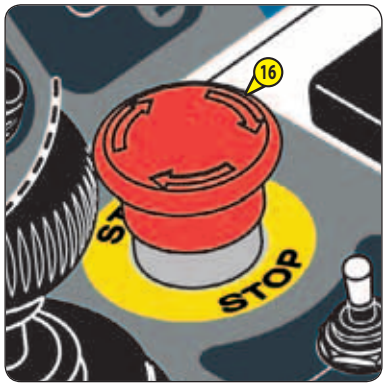


Illustration = second version.

⚠ IMPORTANT ⚠

Up to machine no. 949266: In all cases, this control takes priority, even when movements are controlled from the ground control panel.

From machine no. 949267: In all cases, this control takes priority, even when movements are controlled from the ground control panel.

Movements may stop suddenly if the emergency stop is activated.

2 positions:

- OFF (locked): Press the button to cut off movement and to stop the engine.
- ON position (unlocked): Turn the button a quarter turn to the right and release it.

17 - PREHEAT INDICATOR LAMP

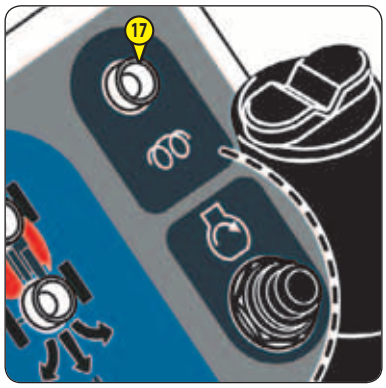


Illustration = second version.

The indicator light is lit during the engine preheat cycle.

It switches off when the preheat cycle is completed.

18 - ENGINE STARTER BUTTON

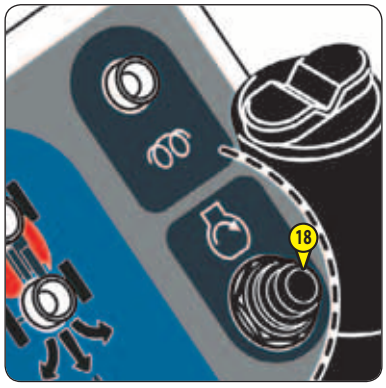


Illustration = second version.

⚠ IMPORTANT ⚠

Do not keep the button pressed for more than 15 seconds.

- Press and hold down the button to start the engine.
- Release button once the engine has started.

19 - HORN BUTTON

Illustration = second version.

- Press and hold down the button to sound the horn. Release to stop it.

20 - BASKET ROTATION SWITCH

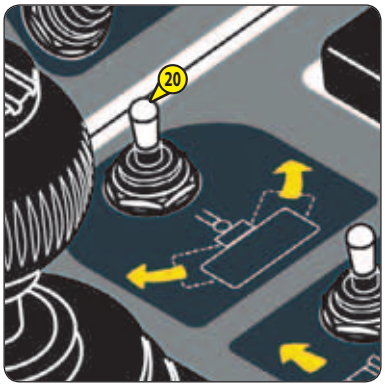


Illustration = second version.

- Press and hold down the foot switch.

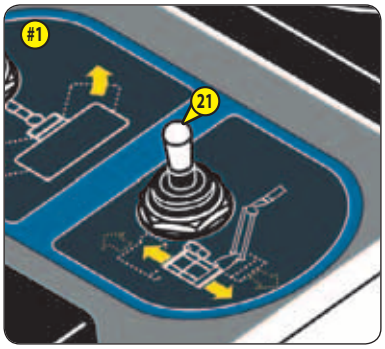
TURN BASKET TO THE LEFT

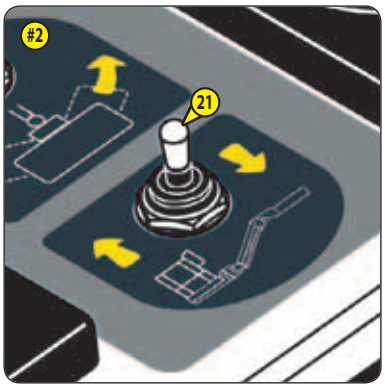
- Push and hold the switch to the left. Release to stop.

TURN BASKET TO THE RIGHT

- Push and hold the switch to the right. Release to stop.

21 - JIB SWITCH





Illustrations: (#1) = first version, (#2) = second version.

- Press and hold down the foot switch.

RAISE THE JIB

- Push the switch forwards and hold it there. Release to stop.

LOWER THE JIB

- Pull the switch backwards and hold it there. Release to stop.

22 - BASKET TILT SWITCH

Illustrations: (#1) = first version, (#2) = second version.

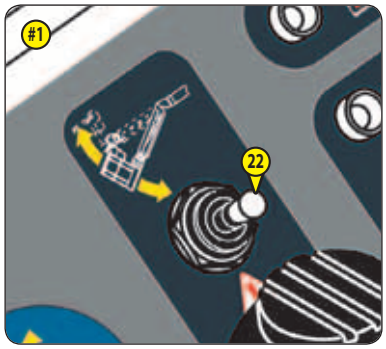
- Press and hold down the foot switch.

TILT BASKET UPWARDS

- Push and hold the switch upwards. Release to stop.

TILT BASKET DOWN

- Push and hold the switch downwards. Release to stop.



23 - MAIN ARM AND TURNTABLE CONTROL HANDLE

Illustration = second version.

- Press and hold down the foot switch.

RAISE THE MAIN ARM

- Push and hold the control handle forward. Release to stop.

LOWER THE MAIN ARM

- Pull and hold the control handle back. Release to stop.

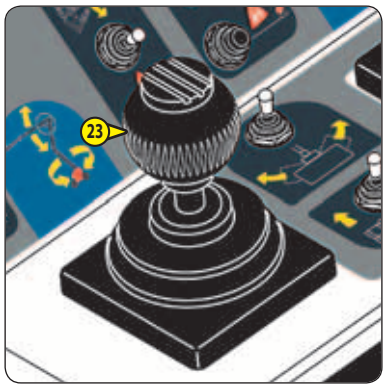
TURN THE TURNTABLE TO THE LEFT

- Push and hold the control handle to the left. Release to stop.

TURN THE TURNTABLE TO THE RIGHT

- Push and hold the control handle to the right. Release to stop.

NOTE: The proportional control handle must be operated smoothly, without jerking.



24 - SECONDARY ARM AND TELESCOPE CONTROL HANDLE

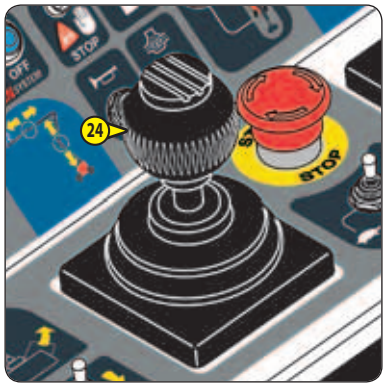


Illustration = second version.

- Press and hold down the foot switch.

RAISE THE SECONDARY ARM

- Push and hold the control handle forward. Release to stop.

LOWER THE SECONDARY ARM

- Pull and hold the control handle back. Release to stop.

EXTEND THE TELESCOPE

- Push and hold the control handle to the left. Release to stop.

RETRACT THE TELESCOPE

- Push and hold the control handle to the right. Release to stop.

NOTE: The proportional control handle must be operated smoothly, without jerking.

25 - DRIVING/STEERING CONTROL HANDLE

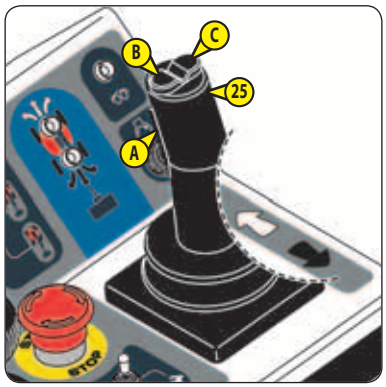


Illustration = second version.

⚠ IMPORTANT ⚠

Always refer to the arrow colours on the chassis and on the control panel in the basket before driving/steering the platform.

- Press and hold down the foot switch. Press and hold down the (A) trigger.

NOTE: The driving/steering controls cannot be activated if the trigger and/or the pedal switch are released.

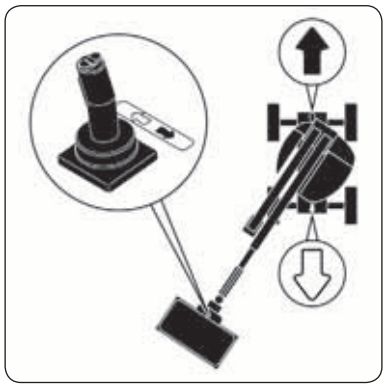
DRIVE FORWARDS

- Push and hold the control handle forward. Release to brake.

DRIVE BACKWARDS

- Pull and hold the control handle back. Release to brake.

NOTE: The proportional control handle must be operated smoothly, without jerking.



BRAKE

- Release the control handle in the neutral position to action the brakes.

NOTE: The brakes are also actioned when the trigger and/or the pedal switch are released.

STEER TO THE LEFT

- Press and hold down button (B). Release to stop.

STEER TO THE RIGHT

- Press and hold down button (C). Release to stop.

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26 - DRIVING SPEED SELECTION SWITCH

Illustrations: (#1) = first version, (#2) = second version.

⚠ IMPORTANT ⚠

Always brake the platform before selecting the driving speed.

3 positions:

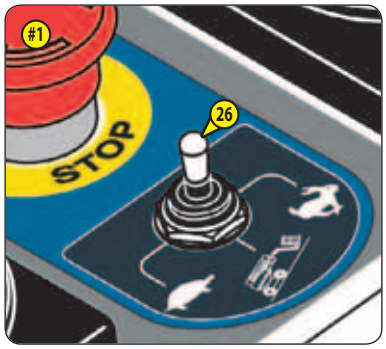

TORTOISE speed for driving the platform at slow speed.

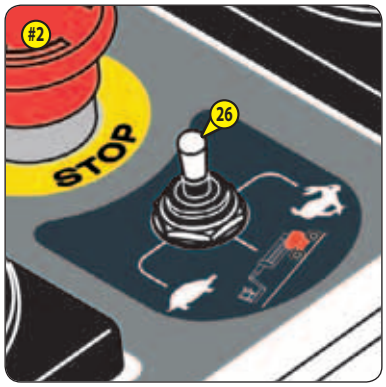

RAMP speed for driving the platform at slow speed with full power.


HARE speed for driving the platform at high speed.

NOTE: Driving speed selection only works in the transport position, ◁ OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.

NOTE: Depending on conditions, restrictions may apply to the speed activated, ◁ OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.





27 - STEERING MODE SELECTION SWITCH

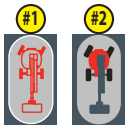
Illustrations: (#1) = first version, (#2) = second version.

⚠ IMPORTANT ⚠

The front and rear wheels must be correctly aligned with the platform axis before changing the steering mode, ◁ WHEEL ALIGNMENT INDICATOR LIGHT. If the wheels are not correctly aligned:
- Select the 4-WHEEL DRIVE steering mode and align the rear wheels.
- Select the 2-WHEEL DRIVE steering mode and align the front wheels.

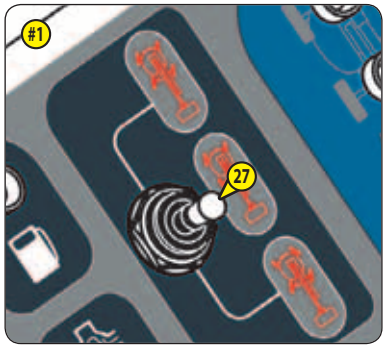
3 positions:

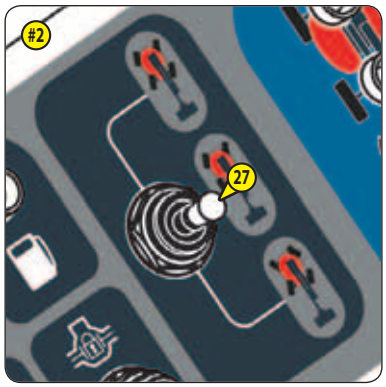

CRAB steering mode: Front and rear steering wheels in the same direction.


2-WHEEL DRIVE steering mode: Front steering wheels.


4-WHEEL DRIVE steering mode: Front and rear steering wheels in opposite directions.

NOTE: Depending on conditions, restrictions may apply to the speed activated, ◁ OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.





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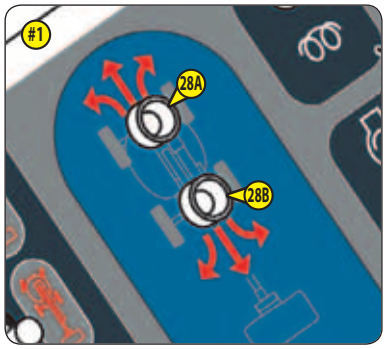
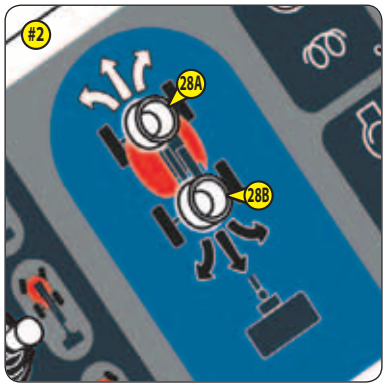
28 - WHEEL ALIGNMENT INDICATOR LIGHTS

Illustrations: (#1) = first version, (#2) = second version.

The Indicator light (28A) comes on when the front wheels are correctly aligned with the platform axis.

The indicator light (28B) is on when the rear wheels are correctly aligned with the platform axis.





29 - DIFFERENTIAL LOCKING BUTTON

Illustration = second version.

⚠ IMPORTANT ⚠

It is recommended that differential locking is only used when the wheels are correctly aligned with the platform axis.

- Press and hold down the button to activate the differential locking when the platform is being driven.
- Release the button and brake the platform to deactivate the differential locking.

30 - TILTING/OSCILLATION ALARM LIGHT

Illustration = second version.

The tilt alarm is activated when the platform is on a steep slope:

- The indicator light flashes (On = 0.6 seconds, Off = 0.4 seconds) and the audible alarm sounds intermittently (On = 1 seconds, Off = 1 seconds).
- Some controls are locked, ◅ OPERATING THE PLATFORM: LOCKED CONTROLS.

To stop the levelling alarm and unlock the controls:

- Fully retract the telescope.
- Fully lower the main arm.
- Fully lower the secondary arm.
- Move platform to a level surface.

From machine no. 949267:

The oscillation alarm is activated when an oscillating axle locking fault is detected:

⚠ IMPORTANT ⚠

If the fault persists, consult your dealer.

- The indicator light flashes (On = 0.4 seconds, Off = 0.4 seconds) and the audible alarm sounds intermittently (On = 0.4 seconds, Off = 0.4 seconds).
- Some controls are locked, ◅ OPERATING THE PLATFORM: LOCKED CONTROLS.

To stop the oscillation alarm and unlock the controls:

- Fully retract the telescope.
- Fully lower the main arm.
- Fully lower the secondary arm.
- Fully lower the jib.
- Move platform to a level surface.
- Press the key OK OK on the ground control panel so that the oscillation alarm is no longer displayed. This action is recorded in the faults history.

31 - USE ON SLOPE BUTTON

Illustration = second version.

⚠ IMPORTANT ⚠

The platform could tip over when this function is used. Use with extreme caution.

- Press the button and hold it down to action the locked controls (except driving forward and backwards) when the tilt alarm is activated. ◅ TILT/OSCILLATION ALARM INDICATOR LIGHT.

32 - OVERLOAD ALARM LIGHT

Illustration = second version.

The overload alarm is activated when the load in the basket has reached maximum capacity:

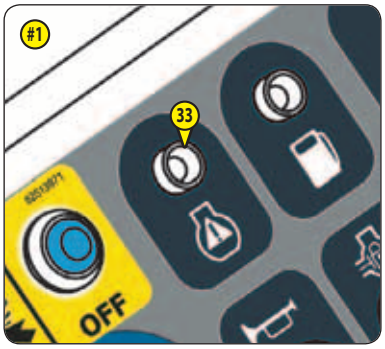
- The light flashes and the audible warning sounds continuously.
- All controls are locked, ◅ OPERATING THE PLATFORM: LOCKED CONTROLS.

To stop the overload alarm and unlock the controls:

• Remove excessive load.

33 - FAULT ALARM INDICATOR LIGHT

Illustrations: #1 = first version, #2 = second version.
Up to machine no. 949266:



⚠ IMPORTANT ⚠

Refer to the maintenance personnel if there is a fault.

The indicator light flashes when a fault is detected.

- Switch off the engine immediately.

From machine no. 949267:

⚠ IMPORTANT ⚠

Refer to the maintenance personnel if there is a fault.

The indicator light flashes when a fault is detected:

- Minor fault: on = 0.6 seconds, off = 0.4 seconds.
- Major fault: on = 0.3 seconds, off = 0.2 seconds.

MINOR FAULTS	HORN	
The pedal switch or control selection switch on the ground/ in the basket is blocked	1 beep	Stop using the platform.
The driving/steering control handle trigger is locked		
The sensitive edge or the reset button is blocked (OPTION: "SAFEMANSYSTEM")	3 beeps repeated every 8 seconds	
Other minor faults	Stop	

MAJOR FAULTS	HORN	
CAN Communication	Stop	All the controls are locked
Low engine oil pressure	Sounds intermittently	Stop the engine immediately. NOTE: The engine stops after 90 seconds.
High coolant temperature		
Engine overspeed	Stop	The engine stops after 2 seconds.
Hydrostatic pump	Stop	The driving functions are locked.
Proportional distributor	Sounds intermittently	Stop using the platform.
Overload sensor inconsistency		
Oscillating axle locked (1)		
Engine oil pressure sensor		
Fuel level very low (level 3)	◁ LOW FUEL LEVEL ALARM LIGHT	

(1): The LEVELLING/OSCILLATION ALARM LIGHT flashes at the same time.

34 - LOW FUEL LEVEL ALARM LIGHT

Illustration = second version.

Up to machine no. 949266:

The indicator light is lit when the fuel level is low and the audible alarm sounds: 3 beeps every 10 minutes.

NOTE: There are approximately 8 litres of fuel left when the light comes on.

From machine no. 949267:

The light flashes and the audible alarm sounds when the fuel level is low.

3 alarm levels:

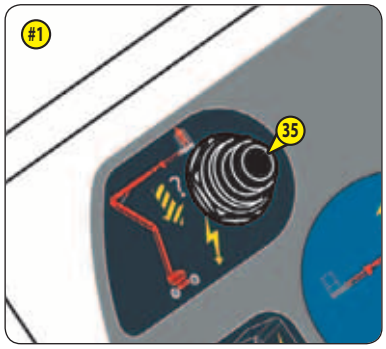
	LOW FUEL LEVEL ALARM LIGHT	HORN
Level 1	On = 0.8 seconds Off = 0.4 seconds	3 beeps (ON = 0.6 seconds, OFF = 0.4 seconds) repeated every 10 minutes
Level 2	On = 0.4 seconds Off = 0.4 seconds	3 beeps (ON = 0.4 seconds, OFF = 0.4 seconds) repeated every minute
Level 3*	On = 0.3 seconds Off = 0.2 seconds	3 beeps (ON = 0.4 seconds, OFF = 0.4 seconds) repeated every 10 seconds

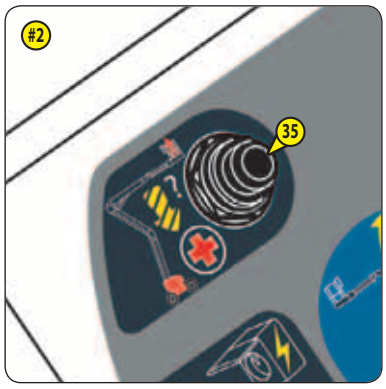
*: It is no longer possible to raise the main/secondary arms, extend the telescope, raise the jib, tilt the basket upwards/downwards, turn the turntable and turn the basket for more than 2 seconds at a time.

35 - BACKUP PUMP BUTTON

Illustrations: (#1) = first version, (#2) = second version.

◁ RESCUE PROCEDURE.





36 - GENERATOR BUTTON (OPTION: GENERATOR)

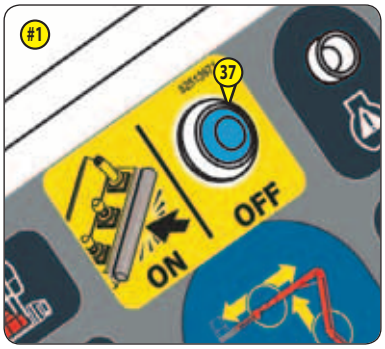
Illustration = second version.

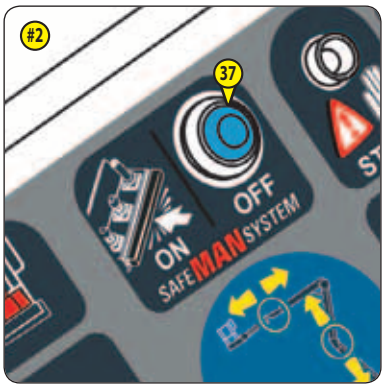
◁ OPTIONS.

37 - RESET BUTTON (OPTION: "SAFEMANSYSTEM")

Illustrations: #1 = first version, #2 = second version.

◁ OPTIONS.

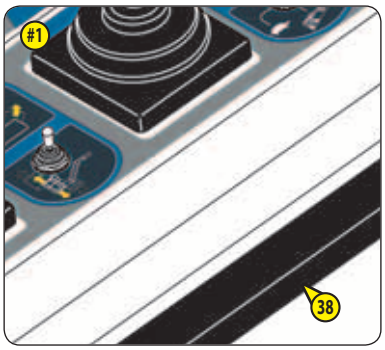


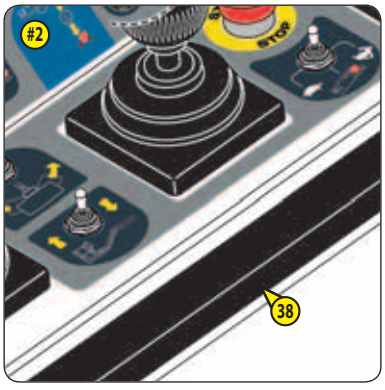


38 - PRESSURE SENSITIVE BAR (OPTION: "SAFEMANSYSTEM")

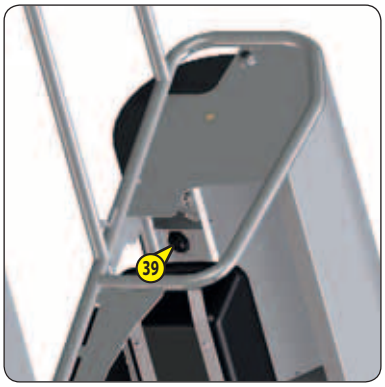
Illustrations: #1 = first version, #2 = second version.

◁ OPTIONS.





39 - AUDIBLE ALARM



The audible alarm sounds:

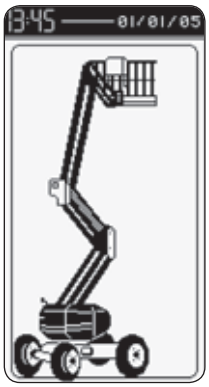
- Once after the platform has been powered up.
- Intermittently when the platform is on a steep slope, ◁ LEVELLING/OSCILLATION WARNING LIGHT.
- Continuously when the basket load has reached maximum capacity, ◁ OVERLOAD ALARM INDICATOR LIGHT.
- When the fuel level is low, ◁ LOW FUEL LEVEL ALARM INDICATOR LIGHT.

From machine no. 949267:

- Intermittently when a locking fault in the oscillating axle is detected, ◁ LEVELLING/OSCILLATION WARNING LIGHT.
- When a fault is detected, ◁ FAULT ALARM INDICATOR LIGHT.
- Twice when the controls cannot be operated simultaneously, ◁ OPERATING THE PLATFORM: SIMULTANEOUS CONTROLS.

SCREEN DISPLAY - DESCRIPTION OF PAGES UP TO MACHINE NO. 949266

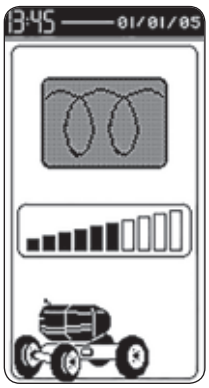
START-UP PAGE



Once the platform is powered up, the start-up page is displayed briefly, then the PREHEAT PAGE is displayed.

NOTE: The current date and time are displayed at the top of each page.

PREHEAT PAGE



The preheat page is displayed during the engine preheat cycle. The bar graph increases in proportion to the preheat cycle time that has elapsed.

The preheat cycle is completed when the bar graph is full.

Troubleshooting is automatically performed then the ENGINE START PAGE is displayed.

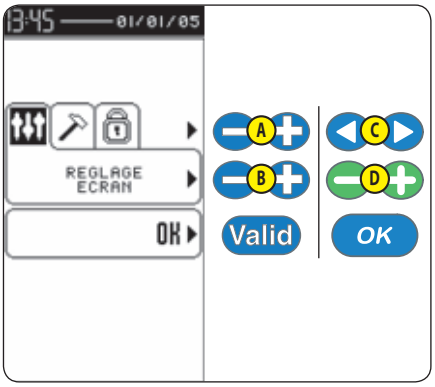
ENGINE START PAGE

The engine can be started when OK is displayed.

To access the menu page, refer to MENU PAGE.

The WORK PAGE is displayed when the engine is started.

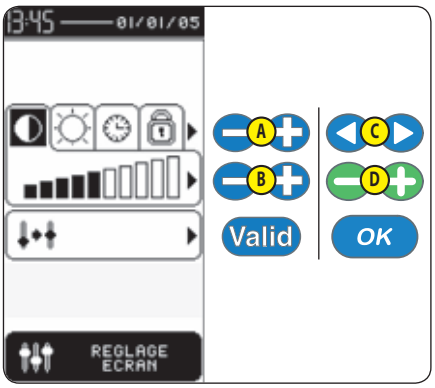
MENU PAGE



- Press the MENU Menu or MENU button (depending on version) to display the MENU PAGE.
- Select a menu by pressing the PLUS/MINUS A or ARROW buttons C (depending on version).
- Confirm by pressing the VALID Valid or OK OK button (depending on version).
- Select a sub-menu (if applicable) by pressing the PLUS/MINUS B or PLUS/MINUS buttons D (depending on version).
- Confirm by pressing the VALID Valid or OK OK button (depending on version).
- Return to the WORK PAGE by pressing the MENU Menu or MENU button (depending on version).

NOTE: ◅ SUB-MENU DEFINITIONS UP TO MACHINE No. 949266.

EDITING A SUB-MENU



- After selecting a menu, select the required sub-menu (if applicable) using the PLUS/MINUS A or ARROW C buttons (depending on version).
- Press the PLUS/MINUS B or PLUS/MINUS D buttons (depending on version) to change the settings.
- Confirm by pressing the VALID Valid or OK OK button (depending on version). A confirmation message appears.
- Press the VALID Valid or OK OK button again (depending on version) to confirm.
- Return to the previous page by pressing the ESC ESC or EXIT Exit button (depending on version).
- Return to the MENU PAGE by pressing the MENU Menu or MENU button (depending on version).

NOTE: ◅ SUB-MENU DEFINITIONS UP TO MACHINE No. 949266.

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WORK PAGE

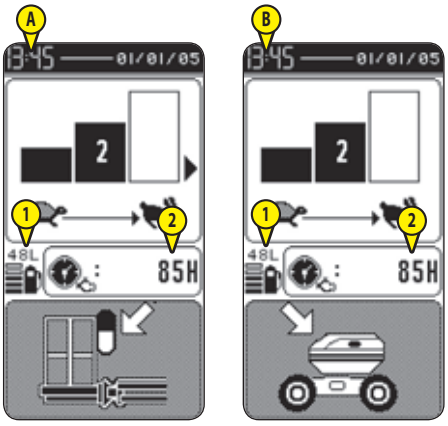
The WORK PAGE (A) is displayed by default, and the basket controls are activated.

The WORK PAGE (B) is displayed when the ground controls are activated.

NOTE: ◁ CONTROL PANEL AND SAFETY DEVICES ON THE GROUND.

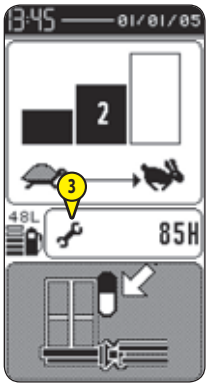
The icon (1) flashes when the fuel level is low.

The number of hours of engine operation is displayed in the zone (2).



FAULT PAGE

MAINTENANCE FAULT

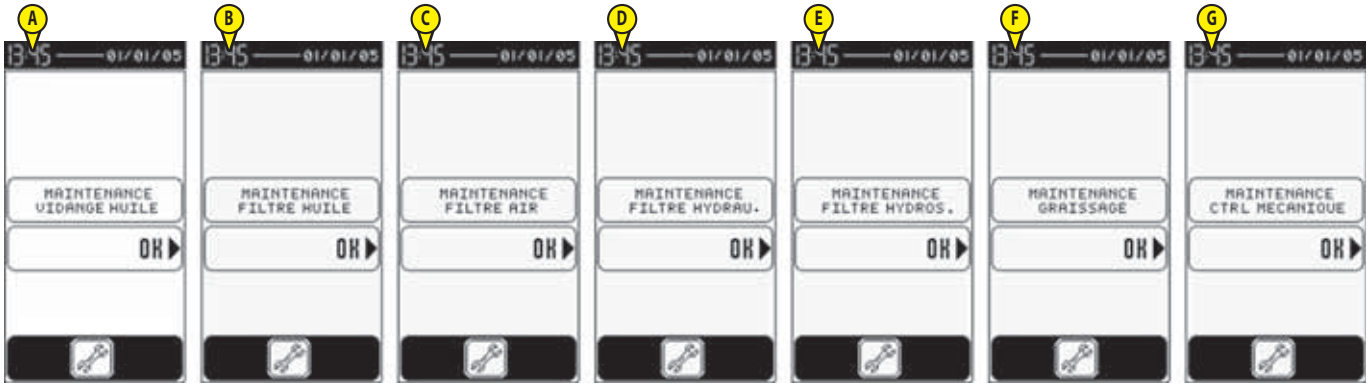


⚠ IMPORTANT ⚠

A maintenance operation could be necessary when the maintenance alert (3 spanner) flashes.
Refer to the maintenance personnel.

- Press the DEF or FAULT button (depending on version) to display the pages one after another:

(A) OIL CHANGE MAINTENANCE
(B) OIL FILTER MAINTENANCE
(C) AIR FILTER MAINTENANCE
(D) HYDRAULIC FILTER MAINTENANCE
(E) HYDROSTATIC FILTER MAINTENANCE
(F) LUBRICATION MAINTENANCE
(G) MECHANICAL CONTROL MAINTENANCE



DISPLAYABLE FAULT

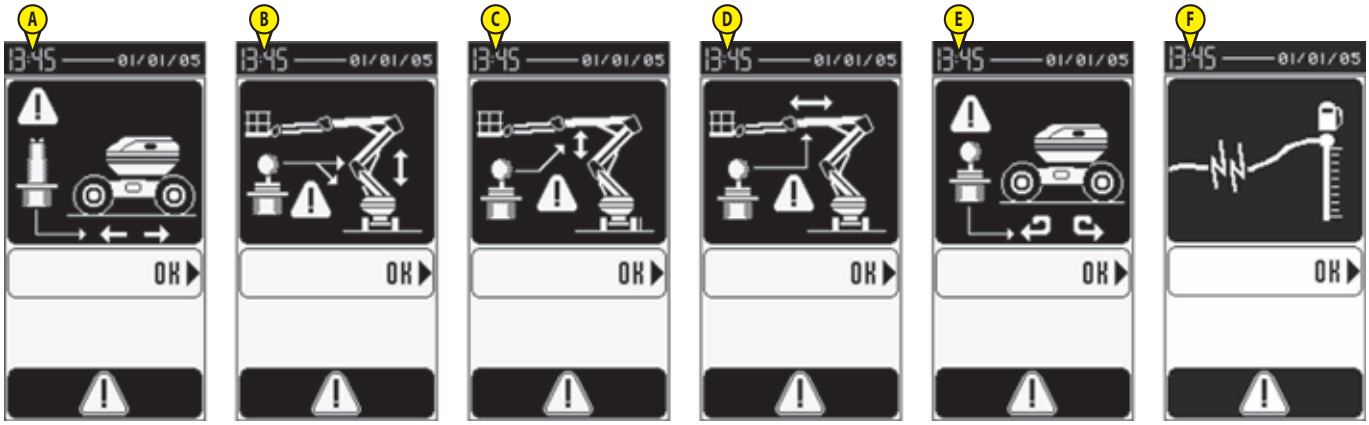
⚠ IMPORTANT ⚠

Certain controls may be locked depending on the fault.
Refer to the maintenance personnel if there is a fault.

An icon (4) is displayed when a displayable fault is detected.

- Press the DEF (DEF) or FAULT button (depending on version) to display the FAULT PAGE:

(A) FORWARD MOVEMENT JOYSTICK FAULT
(B) LOWER ARM JOYSTICK FAULT
(C) UPPER ARM JOYSTICK FAULT
(D) TELESCOPE JOYSTICK FAULT
(E) TURNTABLE ROTATION JOYSTICK FAULT
(F) FUEL LEVEL SENSOR FAULT



FAULT REQUIRING SPECIAL MANAGEMENT

⚠ IMPORTANT ⚠

Certain controls may be locked depending on the fault.
Refer to the maintenance personnel if there is a fault.

A page (A) is displayed instead of the WORK PAGE when a fault requiring special management is detected: An illustration is displayed in the zone (1) and an icon (2) appears.

Press the DEF (DEF) or FAULT (⚠) button (depending on version) to display the page (B) corresponding to the fault requiring special management.

NOTE: If several faults are detected, they are displayed one after another.

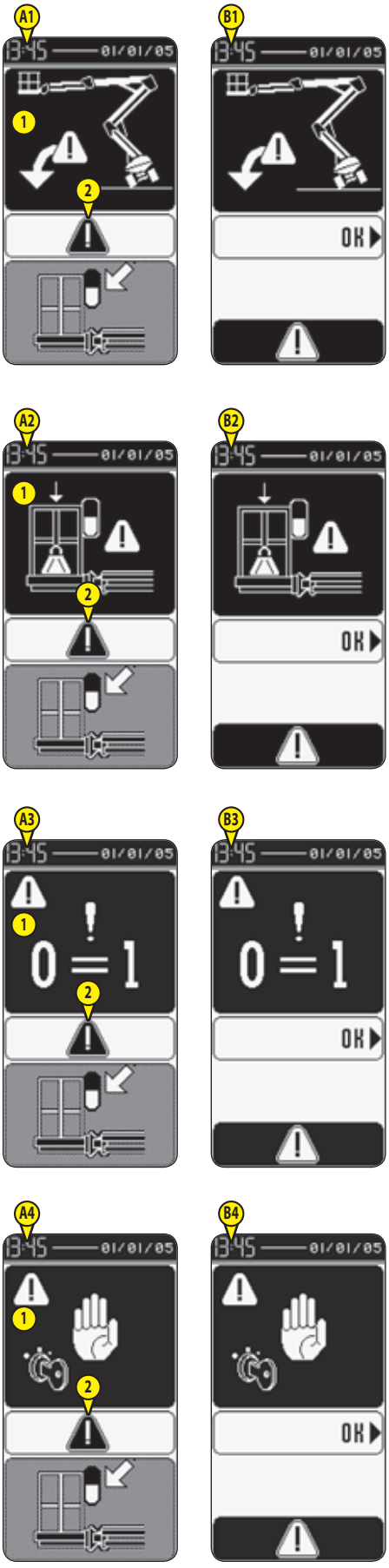
(A1) TILT FAULT PRESENCE > (DEF) or (⚠) > (B1) TILT FAULT PAGE

(A2) PLATFORM OVERLOAD FAULT PRESENCE > (DEF) or (⚠) > (B2) PLATFORM OVERLOAD FAULT PAGE

(A3) CONSISTENCY FAULT PRESENCE > (DEF) or (⚠) > (B3) CONSISTENCY FAULT PAGE

(A4) STARTING FAULT PRESENCE > (DEF) or (⚠) > (B4) STARTING FAULT PAGE

NOTE: The IC engine cannot be started when faults (A3) and (A4) are detected.



FAULT TO BE ACKNOWLEDGED

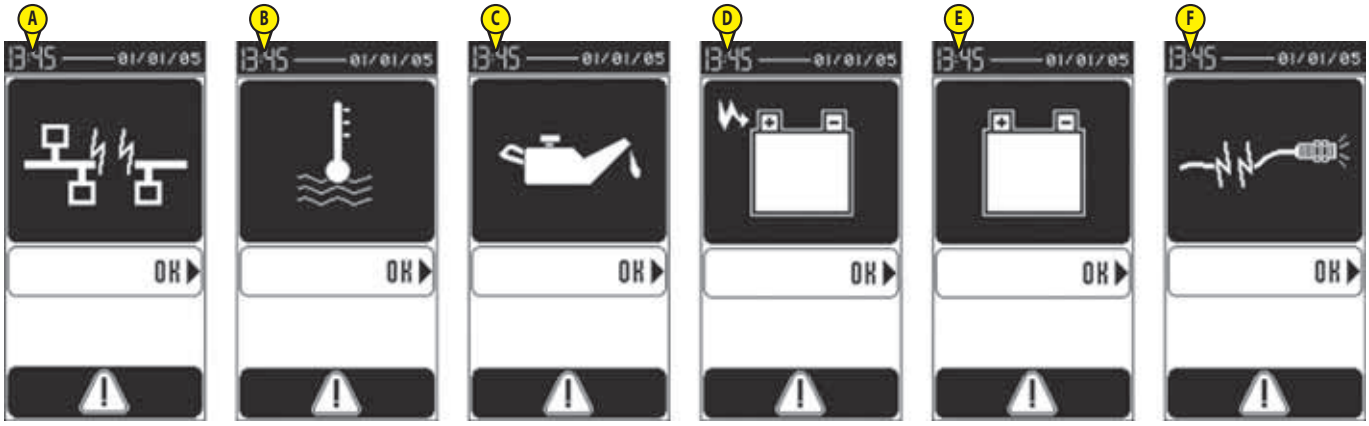
⚠ IMPORTANT ⚠

Certain controls may be locked depending on the fault.
Refer to the maintenance personnel if there is a fault.

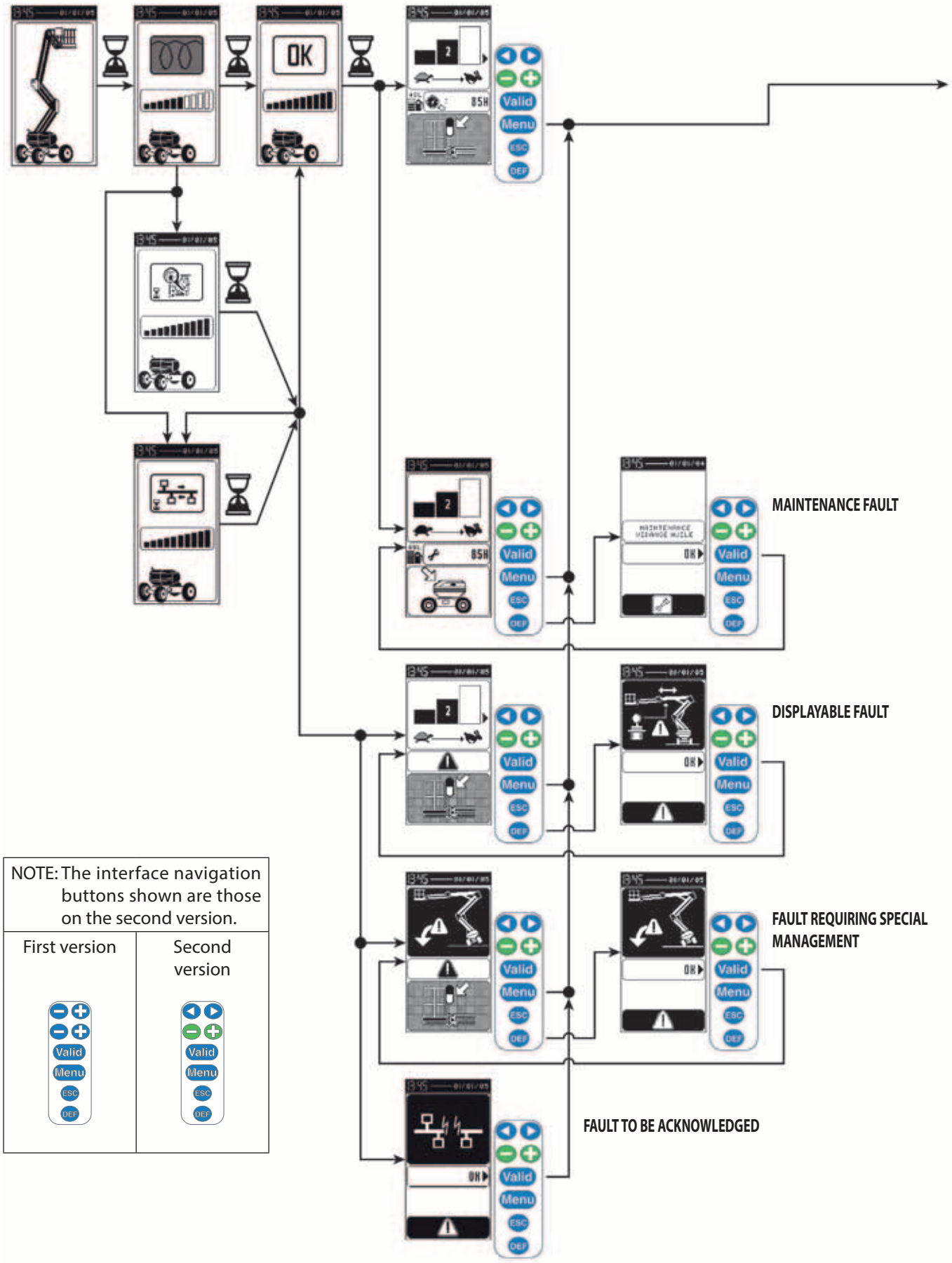
The following pages are displayed instead of the WORK PAGE when a fault requiring acknowledgement is detected.

Clear them by pressing the VALID Valid or OK OK button (depending on version)

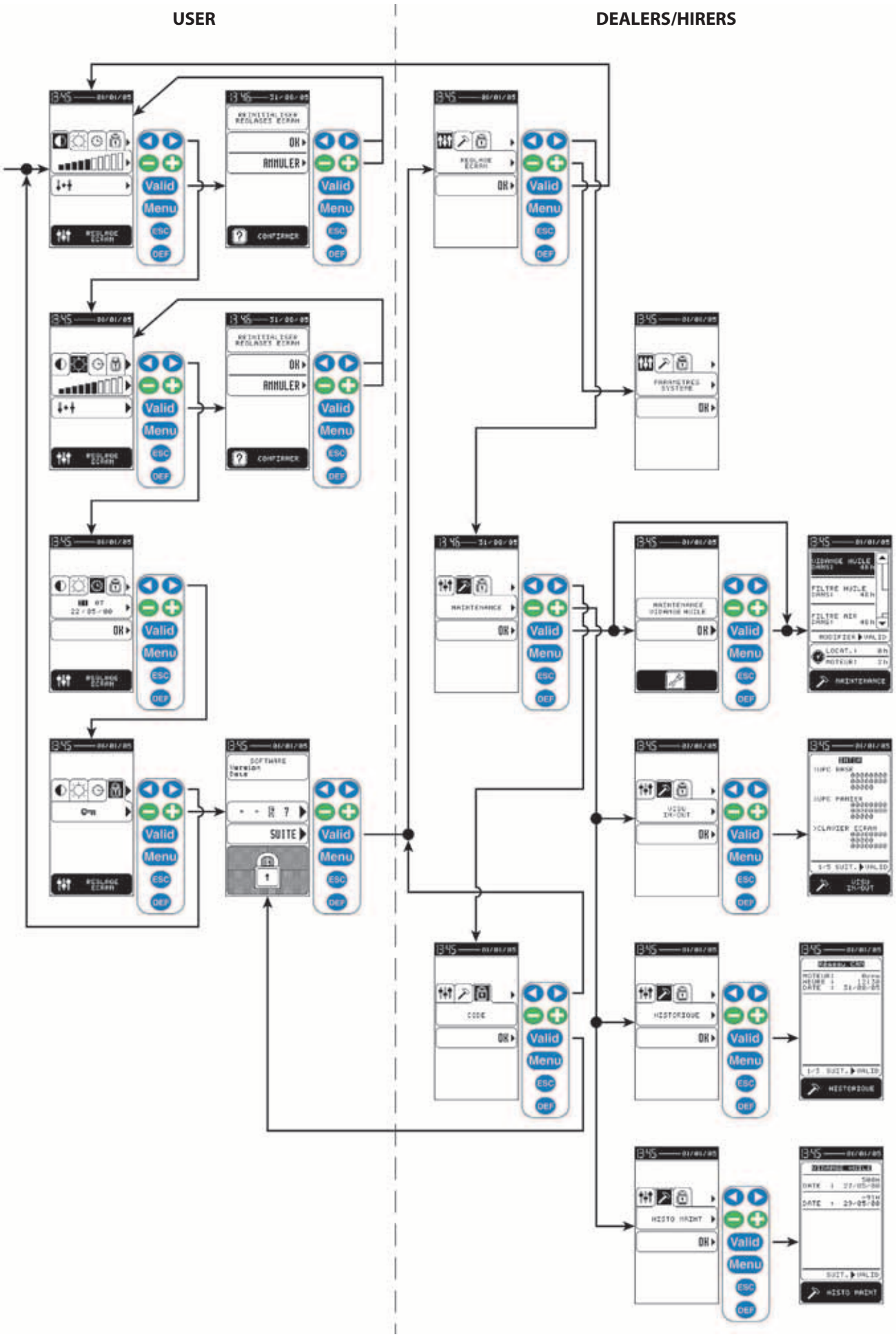
- (A) CAN NETWORK
- (B) ENGINE WATER TEMPERATURE
- (C) ENGINE OIL PRESSURE
- (D) BATTERY CHARGE
- (E) HIGH/LOW POWER SUPPLY
- (F) INDUCTIVE SENSORS



USER



NOTE: The interface navigation buttons shown are those on the second version.	
First version	Second version



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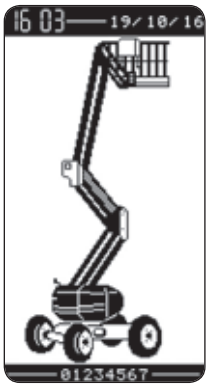
SCREEN DISPLAY - DESCRIPTION OF PAGES FROM MACHINE NO. 949267

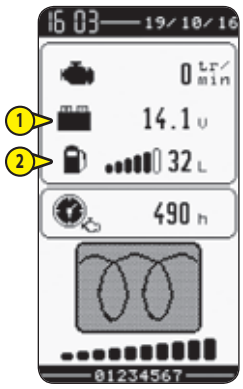
START-UP PAGE



Once the platform is powered up, the start-up page is displayed briefly, then the PREHEAT PAGE is displayed.

NOTE: The current time is displayed at the top of each page. The platform serial number is displayed at the bottom of each page.

PREHEAT PAGE



The preheat page is displayed during the engine preheat cycle. The bar graph increases in proportion to the preheat cycle time that has elapsed.

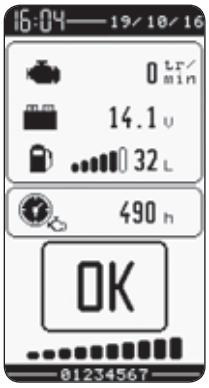
The preheat cycle is completed when the bar graph is full.

A search for faults/alarms is carried out automatically:

- If no fault is detected and no alarm is triggered:
  - The ENGINE STARTING PAGE is displayed.
  - The audible alarm sounds once.
- If a fault is detected: A FAULT PAGE is displayed.
- If an alarm is triggered: An ALARM PAGE is displayed.

NOTE: The battery voltage (1) and the fuel level (2) are displayed on the PREHEAT PAGE, the ENGINE STARTING PAGE, the WORK PAGE and the FAULT PAGE.

ENGINE START PAGE

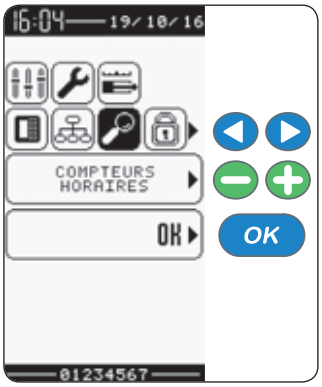


The engine can be started when OK is displayed.

To access the menu page, refer to MENU PAGE.

The WORK PAGE is displayed when the engine is started.

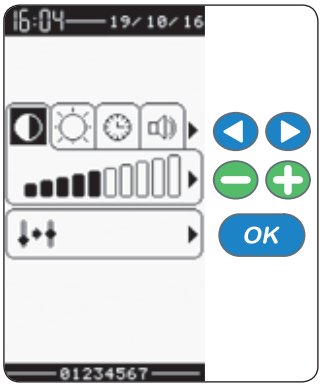
MENU PAGE



- Press the MENU key to display the MENU PAGE.
- Select a menu by pressing the ARROW keys and confirm by pressing the key OK (OK).
- Select a sub-menu (if necessary) by pressing the MINUS/PLUS keys and confirm by pressing the key OK (OK).
- Return to the WORK PAGE by pressing the MENU key.

NOTE: ◁ SUB-MENU DEFINITIONS FROM MACHINE No. 949267.

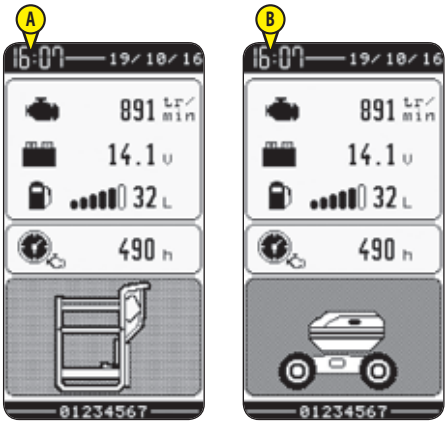
EDITING A SUB-MENU



- After selecting a menu, select the required sub-menu (if necessary) using the ARROW keys ◀ ▶ .
- Press the MINUS/PLUS keys ⊖ ⊕ to change the settings.
- Confirm by pressing the key OK OK . A confirmation message is displayed.
- Press the key OK OK again to confirm.
- Return to previous page by pressing the key EXIT Exit .
- Return to the MENU PAGE by pressing the MENU key .

NOTE: ◅ SUB-MENU DEFINITIONS FROM MACHINE No. 949267.

WORK PAGE



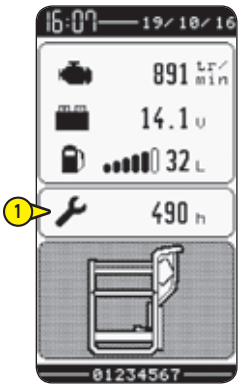
The WORK PAGE (A) is displayed by default, and the basket controls are activated.

The WORK PAGE (B) is displayed when the ground controls are activated.

NOTE: ◅ CONTROL PANEL AND SAFETY DEVICES ON THE GROUND.

⚠ IMPORTANT ⚠

A maintenance operation could be necessary when the maintenance alert (1 spanner) is displayed.
Refer to the maintenance personnel.



FAULT PAGE

⚠ IMPORTANT ⚠

Certain controls may be locked depending on the fault.
Refer to the maintenance personnel if there is a fault.

A FAULT PAGE is displayed when a fault is detected.

- Press the FAULT key to display the FAULT CODE/ALARM PAGE.

ALARM PAGE

An ALARM PAGE is displayed intermittently with the FAULT PAGE or the WORK PAGE when an alarm is triggered.

- Resolve the problem to return to the WORK PAGE.

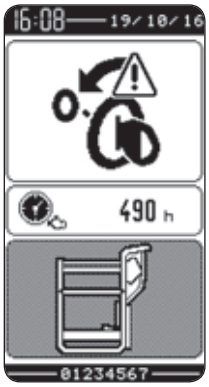
NOTE: Depending on the type of alarm press the FAULT key to display the FAULT CODE/ALARM PAGE.

NOTE: The illustrations show 2 examples of alarms.

This ALARM PAGE is displayed when the platform is powered up without starting the engine in the next 10 seconds.

To cancel this alarm page:

- Turn the ignition switch to position .
- Turn the ignition switch to position .
- Wait for the preheat cycle to finish and start up the engine.

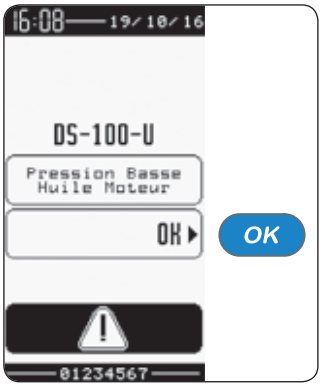


FAULT/ALARM CODE PAGE

The fault/alarm code and its description are displayed on this page.

- Press the key OK OK so that the fault or alarm is no longer displayed. This action is recorded in the faults/alarm history.

NOTE: The illustration shows an example of a fault code.



SUB-MENU DEFINITIONS FROM MACHINE No. 949267

	Menus/sub-menus		User		Dealers/Rental companies	
			Access code not required		Access code required	
			Display	Adjustment of parameters	Display	Adjustment of parameters
	"Code" Code			⊙		⊙
	"Options" Options	"Klaxon mode" Horn mode (1)		⊙		⊙
		"Always flash. light" Permanent rotating beacon light (2)		⊙		⊙
		"Locking telescop" Telescope locking				⊙
		"Drive in working mode" Travel when working				⊙
		"Tilt in working mode" Tilting when working				⊙
		"Auto straight wheel" Wheel realignment				⊙
		"Safe Man System"				⊙
		"Auto retract tel. (SMS)" Automatic telescope retraction (SMS) (3)				⊙
		"Reduce speed fast + bkwd" Reversing speed + hare reduction				⊙
		"Easy manager"				⊙
		"Box config Easy manager" Box configuration Easy manager				⊙
	"Language" Language	English				⊙
		Deustch				⊙
		Nederlands				⊙
		Français				⊙
	"System parameters" System parameters	"Engine management" Engine management				⊙
		"Arm 1/2 management" Arm management 1/2				⊙
		"Arm 3 management" Arm management 3				⊙
		"Telescop management" Telescope management				⊙
		"Telescop bumper" Telescope stop				⊙
		"Jib management" Jib management				⊙
		"Turret management" Turntable management				⊙
		"Bskt levell mgmt" Basket tilting management				⊙
		"Bskt rotation mgmt" Basket rotation management				⊙
		"Steering management" Steering management				⊙
		"Generator" Generator				⊙
		"Maint periods" Maintenance periods				⊙
		"USB download" Transfer USB				⊙

(1): "NONE" = NONE, "AVCT" = DRIVING/STEERING ALARM, "MVT" = ALL MOVEMENTS ALARM.

(2): PERMANENT ORANGE ROTATING BEACON LIGHT: "OFF" = deactivated, "ON" = activated.

(3): AUTOMATIC TELESCOPE RETRACTION: "OFF" = deactivated, "ON" = activated.

NOTE: The texts in inverted commas are displayed when the language "English" (English) is selected.

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	Menus/sub-menus		User		Dealers/Rental companies	
			Access code not required		Access code required	
			Display	Adjustment of parameters	Display	Adjustment of parameters
	"Maintenance" Maintenance	"Oil change" Oil change (4)	⊙			⊙
		"Oil filter" Oil filter (4)	⊙			⊙
		"Air filter" Air filter (4)	⊙			⊙
		"Fuel filter" Diesel filter (4)	⊙			⊙
		"Hydraulic filter" Hydraulic filter (4)	⊙			⊙
		"Hydrostat filter" Hydrostatic filter (4)	⊙			⊙
		"Lubrication" Lubrication (4)	⊙			⊙
		"Mechanical check" Mechanics inspection (4)	⊙			⊙
	"Maintenance History" Maintenance history				⊙	
	"Speed calibration" Speed calibration	"Arm 1/2 lifting up" Arm up 1/2				⊙
		"Arm 1/2 lifting down" Arm down 1/2				⊙
		"Arm 3 lifting up" Arm up 3				⊙
		"Arm 3 lifting down" Arm down 3				⊙
		"Extend telescop" Telescope extension				⊙
		"Retract telescop" Telescope retraction				⊙
		"Jib lifting up" Jib up				⊙
		"Jib lifting down" Jib down				⊙
		"Right rotating turret" Right turntable rotation				⊙
		"Left rotating turret" Left turntable rotation				⊙
		"Basket tilting up" Basket tilting up				⊙
		"Basket tilting down" Basket tilting down				⊙
		"Basket right rotation" Right basket rotation				⊙
		"Basket left rotation" Left basket rotation				⊙
		"Forward drive working mode" Work forward travel			⊙	
		"Backward drive working mode" Working reverse travel			⊙	
	"Overload calibration" Overload calibration					⊙
	"Generator calibration" Generator calibration					⊙
	"Pressure setting" Pressure adjustments					⊙
	"Parameters setting" Parameter management	"Mach parameters restoration" Restore machine parameters				⊙
		"Mach parameters saving" Save machine parameters				⊙
		"Raw factory prm restoration" Restore basic factory values				⊙
	"Engine accel calibration" Engine acceleration calibration					⊙
	"Joysticks calibration" Joystick calibration					⊙

(4): "at / to do in / urgent" = in / to do / urgent.

NOTE: The texts in inverted commas are displayed when the language "English" (English) is selected.

	Menus/sub-menus		User		Dealers/Rental companies	
			Access code not required		Access code required	
			Display	Adjustment of parameters	Display	Adjustment of parameters
	"Screen settings" Screen adjustments	"Contrast" Contrast		⊙		⊙
		"Brightness" Light level		⊙		⊙
		"Date and time" Date and time		⊙		⊙
		"Button tones" Key beeps		⊙		⊙
	"Codification" Codification		⊙		⊙	
	"Machine selection" Machine selection					⊙
	"Hour counters" Hour counter	"Rental" Rental	⊙			⊙
		"Engine" Engine	⊙		⊙	
	"Day hours" Daily hours		⊙		⊙	
	"Input/output visualisation" Input/ output display	"Power supply" Power supplies	⊙		⊙	
		INTOR UPC30	⊙		⊙	
		INANA UPC30	⊙		⊙	
		HSCE UPC30	⊙		⊙	
		OUTTOR UPC30	⊙		⊙	
		OUTANA UPC30	⊙		⊙	
		OUTPWM UPC30	⊙		⊙	
		"Option UPU-S" Option UPU-S	⊙		⊙	
	"Diagnostic" Diagnostics	"Lifting arm 1/2" Arm up 1/2	⊙		⊙	
		"Lifting arm 3" Arm up 3	⊙		⊙	
		"Lowering arm 1/2" Arm down 1/2	⊙		⊙	
		"Lowering arm 3" Arm down 3	⊙		⊙	
		"Telescop extend" Telescope extension	⊙		⊙	
		"Telescop retract" Telescope retraction	⊙		⊙	
		"Lifting jib" Jib up	⊙		⊙	
		"Lowering jib" Jib down	⊙		⊙	
		"Turret rotation" Turntable rotation	⊙		⊙	
		"Basket rotation" Basket rotation	⊙		⊙	
		"Lifting basket tilt" Basket tilting up	⊙		⊙	
		"Lowering basket tilt" Basket tilting down	⊙		⊙	
		"Driving" Platform travel	⊙		⊙	
		"Steering" Platform steering	⊙		⊙	
		"Generator activation" Generator activation	⊙		⊙	
		"Engine starter" Engine starting	⊙		⊙	
	"Defaults history" Fault history		⊙		⊙	

NOTE: The texts in inverted commas are displayed when the language "English" (English) is selected.

⚠ IMPORTANT ⚠

Part 1 - INSTRUCTIONS AND SAFETY INSTRUCTIONS must be read and understood before operating the platform.

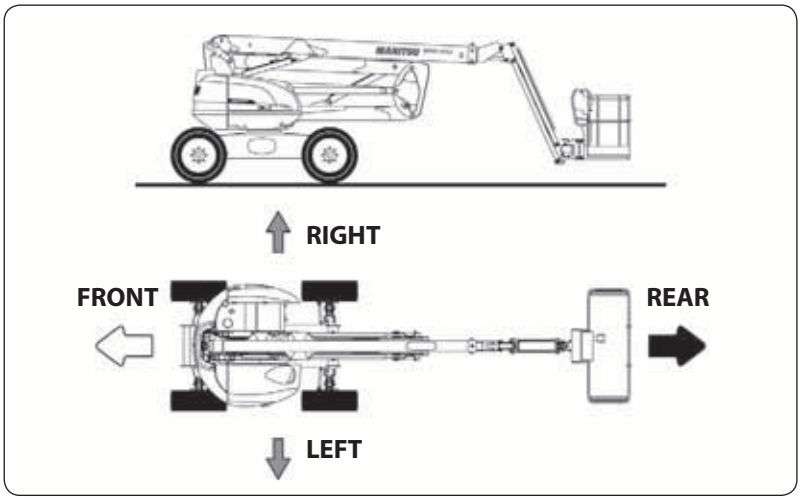
TRANSPORT/WORKING POSITION

TRANSPORT POSITION

The platform in the transport position when:

- The main arm is completely lowered.
- The secondary arm is completely lowered.
- The telescope is completely retracted.

NOTE: The jib may or may not be raised. The turntable and basket may or may not be turned.



The turntable and the basket are in the neutral position when the main arm and the basket are parallel to the platform chassis, with the basket between the 2 rear wheels.

Front, rear, left and right are defined as follows:

- The platform is in transport position.
- The turntable and basket are in the neutral position.
- The operator is in the basket facing the direction of the front wheels.

The driving speeds, TORTOISE, RAMP and HARE, can only be selected in the transport position.

	TORTOISE speed selected	RAMP speed selected	HARE speed selected
Drive forwards	TORTOISE speed activated	RAMP speed activated	HARE speed activated*
Drive backwards	TORTOISE speed activated	RAMP speed activated	RAMP speed activated

* RAMP speed is automatically activated in the 4-WHEEL DRIVE steering mode.

Use RAMP speed (slow speed with full power) to travel on steep slopes, move over very rough terrain or go up/down transport truck loading ramps.

It is recommended that the turntable and basket are put in the neutral position to drive the platform at HARE speed.

WORKING POSITION

⚠ IMPORTANT ⚠

Travelling over rough terrain, on unstable ground, on slopes that are steeper than those authorised, (◁ CHARACTERISTICS) or in any other conditions likely to cause the platform to tip up or become destabilised, is PROHIBITED.

The platform is in the transport position when:

- The main arm is not completely lowered.
- The secondary arm is not completely lowered.
- The telescope is not completely retracted.

NOTE: The jib may or may not be raised. The turntable and basket may or may not be turned.

WORKING POSITION driving speed is automatically activated when the platform is in working position.

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OPERATION FROM THE GROUND LEVEL CONTROL PANEL

⚠ IMPORTANT ⚠

◅ CONTROL PANEL AND SAFETY DEVICES ON THE GROUND for detailed information about the ground controls.

SWITCH THE PLATFORM ON

- Ensure that the emergency stop buttons on the ground level and basket control panels are in the ON position.
- BATTERY CUT-OFF option: Turn the battery cut-off to the ON position.
- Turn the ignition switch to position  .

Result:

• The interface screen lights up, ◅ SCREEN DISPLAY: DESCRIPTION OF PAGES.

NOTE: SECONDARY PROTECTION SYSTEM option "SAFEMANSYSTEM", ◅ OPTIONS.

NOTE: The horn sounds twice and one specific alarm page is displayed when the platform is turned on without starting the engine in the next 10 seconds, ◅ SCREEN DISPLAY - DESCRIPTION OF PAGES FROM MACHINE No. 949267: ALARM PAGES.

TURN THE PLATFORM OFF

- Turn the ignition switch to position  .
- BATTERY CUT-OFF option: Turn the battery cut-off to the OFF position.

START THE ENGINE

- Switch on the access platform.
- Wait for the preheat cycle to finish, ◅ SCREEN DISPLAY - DESCRIPTION OF PAGES.
- Start the engine, ◅ ENGINE STARTER BUTTON and ◅ ENGINE STARTING MODE BUTTON if the outside temperature is lower than -10 °C.
- If the engine does not start:
  - • Turn the ignition switch to position  , turn it to position  .
  - • Wait for the preheat cycle to finish and try to start the engine again.

NOTE: Consult the maintenance staff if the engine fails to start after several attempts.

SWITCH OFF THE ENGINE

⚠ IMPORTANT ⚠

Wait several minutes for the engine to cool down before stopping it after intensive use.

- Turn ignition key to position  or press the emergency stop button (OFF position).

POSITION THE BASKET

- Ensure that the turntable is unlocked, ◅ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.

NOTE: It is essential that the turntable is locked when the platform is being transported, ◅ TRANSPORTING THE PLATFORM.

- Press and hold down the selector switch for the ground/basket controls to the right  or  (depending on version).
- Press the appropriate control keys to activate the platform controls.
- Release the keys or the switch to stop activated controls.

NOTE: Use key combinations to operate the simultaneous controls, ◅ SIMULTANEOUS CONTROLS.

EMERGENCY STOP

- Press the emergency stop button (OFF position).

OPERATION FROM THE BASKET CONTROL PANEL

⚠ IMPORTANT ⚠

◁ CONTROL PANEL AND SAFETY DEVICES IN THE BASKET for detailed information about the controls in the basket.

TURN THE PLATFORM ON/OFF

◁ OPERATION FROM THE GROUND LEVEL CONTROL PANEL.

START THE ENGINE

- Switch on the access platform.
- Wait for the preheat cycle to finish, ◁ PREHEAT INDICATOR LIGHT.
- Start the engine, ◁ ENGINE STARTER BUTTON.

NOTE: ◁ OPERATING FROM THE GROUND CONTROL PANEL if the outside temperature is lower than -10 °C.

- If the engine does not start:
  - Press the emergency stop button (OFF position), turn it a quarter turn to the right and release it (ON position).
  - Wait for the preheat cycle to finish and try to start the engine again.

NOTE: Consult the maintenance staff if the engine fails to start after several attempts.

SWITCH OFF THE ENGINE

⚠ IMPORTANT ⚠

Wait several minutes for the engine to cool down before stopping it after intensive use.

- Press the emergency stop button (OFF position).

DRIVE AND STEER

⚠ IMPORTANT ⚠

Always refer to the arrow colours on the chassis and on the control panel in the basket before driving/steering the platform.

- Ensure that the turntable is unlocked, ◁ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.

NOTE: It is essential that the turntable is locked when the platform is being transported, ◁ TRANSPORTING THE PLATFORM.

- Put the driving speed selection switch into the desired speed position.
- Put the driving speed selection switch into the desired steering position.
- Press and hold down the foot switch.
- Use the appropriate control handle to drive, steer and brake.

POSITION THE BASKET

- Ensure that the turntable is unlocked, ◁ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.

NOTE: It is essential that the turntable is locked when the platform is being transported, ◁ TRANSPORTING THE PLATFORM.

- Press and hold down the foot switch.
- Use the appropriate buttons, switches and/or control handles to operate the platform controls.
- Release the buttons, switches and/or control handles or the foot switch to stop controls that have been activated.

NOTE: Use key combinations to operate the simultaneous controls, ◁ SIMULTANEOUS CONTROLS.

EMERGENCY STOP

- Press the emergency stop button (OFF position).

SIMULTANEOUS CONTROLS

NOTE: From machine no. 949267, the audible alarm sounds twice when controls cannot be used at the same time.

GROUND CONTROL PANEL

In the transport/working position: a maximum of 2 controls can be operated simultaneously.

CONTROL PANEL IN THE BASKET

In the transport/working position: a maximum of 4 controls can be operated simultaneously.

CONTROLS LOCKED

Some controls are locked (refer to the tables below):

- When the basket load has reached maximum capacity (OVERLOAD ALARM).
- When the platform is on a steep slope (LEVELLING/OSCILLATION ALARM).
- From machine no. 949267: when a locking fault in the oscillating axle is detected (TILTING/OSCILLATION ALARM).

TRANSPORT POSITION

GROUND CONTROLS	OVERLOAD ALARM	TILT/OSCILLATION ALARM
RAISE THE MAIN ARM	LOCKED	
RAISE THE SECONDARY ARM	LOCKED	
EXTEND THE TELESCOPE	LOCKED	
RAISE/LOWER THE JIB	LOCKED	
TILT THE BASKET (UPWARDS/DOWNWARDS)	LOCKED	
TURN THE TURNTABLE (LEFT/RIGHT)	LOCKED	

CONTROLS IN THE BASKET	OVERLOAD ALARM	TILT/OSCILLATION ALARM
RAISE THE MAIN ARM	LOCKED	LOCKED
RAISE THE SECONDARY ARM	LOCKED	LOCKED
EXTEND THE TELESCOPE	LOCKED	LOCKED
RAISE/LOWER THE JIB	LOCKED	
TILT THE BASKET (UPWARDS/DOWNWARDS)	LOCKED	
TURN THE BASKET (LEFT/RIGHT)	LOCKED	
TURN THE TURNTABLE (LEFT/RIGHT)	LOCKED	
DRIVE (FORWARD/BACKWARD)	LOCKED	
STEER (LEFT/RIGHT)	LOCKED	

WORKING POSITION

GROUND CONTROLS	OVERLOAD ALARM	TILT/OSCILLATION ALARM
RAISE/LOWER THE MAIN ARM	LOCKED	
RAISE/LOWER THE SECONDARY ARM	LOCKED	
EXTEND/RETRACT THE TELESCOPE	LOCKED	
RAISE/LOWER THE JIB	LOCKED	
TILT THE BASKET (UPWARDS/DOWNWARDS)	LOCKED	
TURN THE TURNTABLE (LEFT/RIGHT)	LOCKED	

CONTROLS IN THE BASKET	OVERLOAD ALARM	TILT/OSCILLATION ALARM
RAISE THE MAIN ARM	LOCKED	LOCKED
LOWER THE MAIN ARM	LOCKED	
RAISE THE SECONDARY ARM	LOCKED	LOCKED
LOWER THE SECONDARY ARM	LOCKED	
EXTEND THE TELESCOPE	LOCKED	LOCKED
RETRACT THE TELESCOPE	LOCKED	
RAISE/LOWER THE JIB	LOCKED	
TILT THE BASKET (UPWARDS/DOWNWARDS)	LOCKED	LOCKED
TURN THE BASKET (LEFT/RIGHT)	LOCKED	
TURN THE TURNTABLE (LEFT/RIGHT)	LOCKED	
DRIVE (FORWARD/BACKWARD)	LOCKED	LOCKED
STEER (LEFT/RIGHT)	LOCKED	LOCKED

TRANSPORTING THE PLATFORM

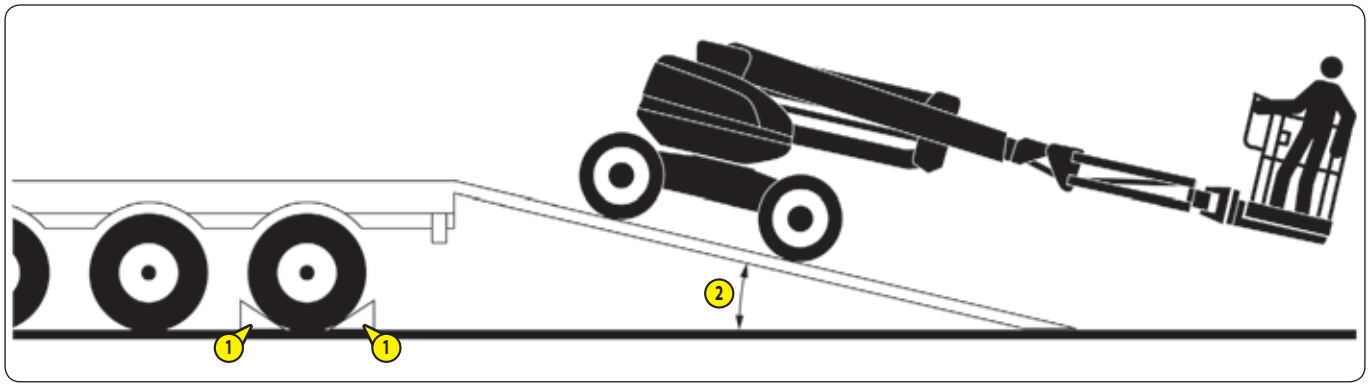
⚠ IMPORTANT ⚠

Check that the safety instructions associated with the flatbed have been correctly applied before loading the platform and ensure that the driver of the vehicle has been informed of the dimensional characteristics and total weight of the platform.
Ensure that the flatbed has adequate dimensions and load capacity for transporting the platform, ◁ CHARACTERISTICS and STICKERS.
It is essential that the turntable is locked when the platform is being transported, ◁ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
Covers must be closed and locked (if applicable) while the platform is being transported.

LOADING/UNLOADING THE PLATFORM

⚠ IMPORTANT ⚠

The flatbed must be parked on a level surface. The wheels must be blocked with shims (1).
The loading ramps must be attached to the flatbed so as to obtain as small an angle (2) as possible.
The turntable must be locked before loading the platform onto a transport flatbed or before unloading it, ◁ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
There is a risk of the platform losing grip (sliding or skidding) when going up and down the loading ramps if they are wet, muddy or show any signs of dampness. In this case it is necessary to winch the platform, ◁ 3 - MAINTENANCE: OCCASIONAL OPERATION: WINCHING.



LOADING THE PLATFORM ONTO THE FLATBED

- From the ground control panel:
  - Switch on the platform. Start the engine.
  - Put the platform should be in the transport position; put the turntable and the basket in the neutral position, ◁ OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.
  - Fully lower the jib.
- Lock the turntable (◁ SAFETY COMPONENTS: TURNTABLE LOCKING PIN).
- Enter the basket.
- Raise the jib slightly to prevent the basket hitting the ground or the loading ramps.
- Select RAMP speed  or  (depending on version).
- Drive the platform forwards slowly with the counterweight at the top of the ramp, see illustration above.

UNLOADING THE PLATFORM FROM THE FLATBED

NOTE: The platform is in TRANSPORT position (A), ◁ CONFIGURING THE PLATFORM FOR TRANSPORT.

- Ensure that the turntable is locked, ◁ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
- Turn on the power to the platform. Start the engine from the ground control panel.
- Enter the basket.
- Raise the jib slightly to prevent the basket hitting the ground or the loading ramps.
- Select RAMP speed  or  (depending on version).
- Drive the platform backwards slowly with the counterweight at the top of the ramp, see illustration above.

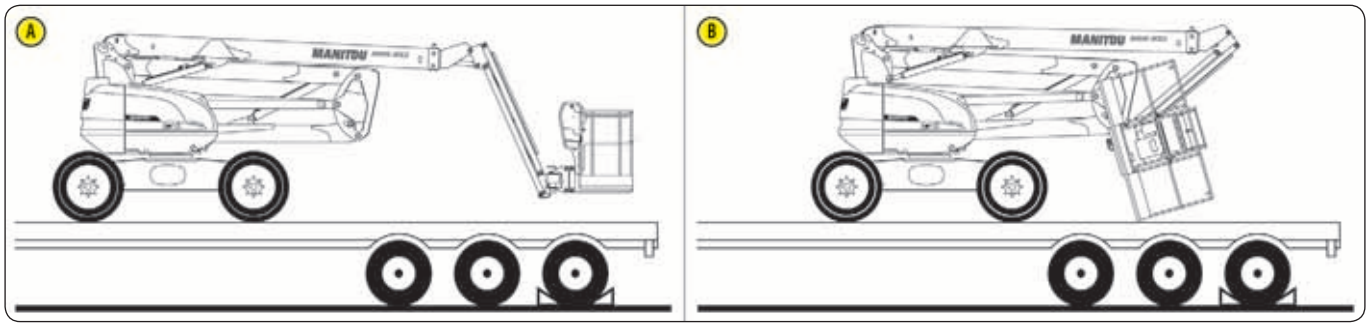
CONFIGURE THE PLATFORM FOR TRANSPORT

⚠ IMPORTANT ⚠

Turntable rotation is prohibited once on the flatbed.

It is essential that the turntable remains locked when the platform is on the flatbed, ◁ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.

The platform must be transported in TRANSPORT POSITION (A) or in FOLDED POSITION (B).



TRANSPORT POSITION (A)

NOTE: The engine has been started. The platform is in the transport position. The turntable and the basket are in neutral position. The turntable is locked.

- Fully lower the jib.
- Get out of the basket.
- Stop the engine. Power down the platform.

FOLDED POSITION (B)

NOTE: The engine has been started. The platform is in the transport position. The turntable and the basket are in neutral position. The turntable is locked.

- Fully lower the jib.
- Turn the basket to the left until it stops.
- Get out of the basket.
- From the ground control panel:
  - Raise the secondary arm slightly.
  - Tilt the basket fully downwards. Ensure that the basket cannot hit the flatbed
  - Lower the secondary arm so that the basket is about 10 cm from the flatbed.
  - Stop the engine. Power down the platform.

MOVE FROM THE FOLDED POSITION (B) TO THE TRANSPORT POSITION (A)

NOTE: The turntable is locked.

- From the ground control panel:
  - Switch on the platform. Start the engine.
  - Raise the secondary arm slightly.
  - Tilt the basket/jib upwards until the basket floor is horizontal. Ensure that the basket cannot hit the flatbed.
  - Fully lower the secondary arm.
- Enter the basket.
- Turn the basket to the right in the neutral position, ◁ OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.
- Get out of the basket.
- Stop the engine. Power down the platform.

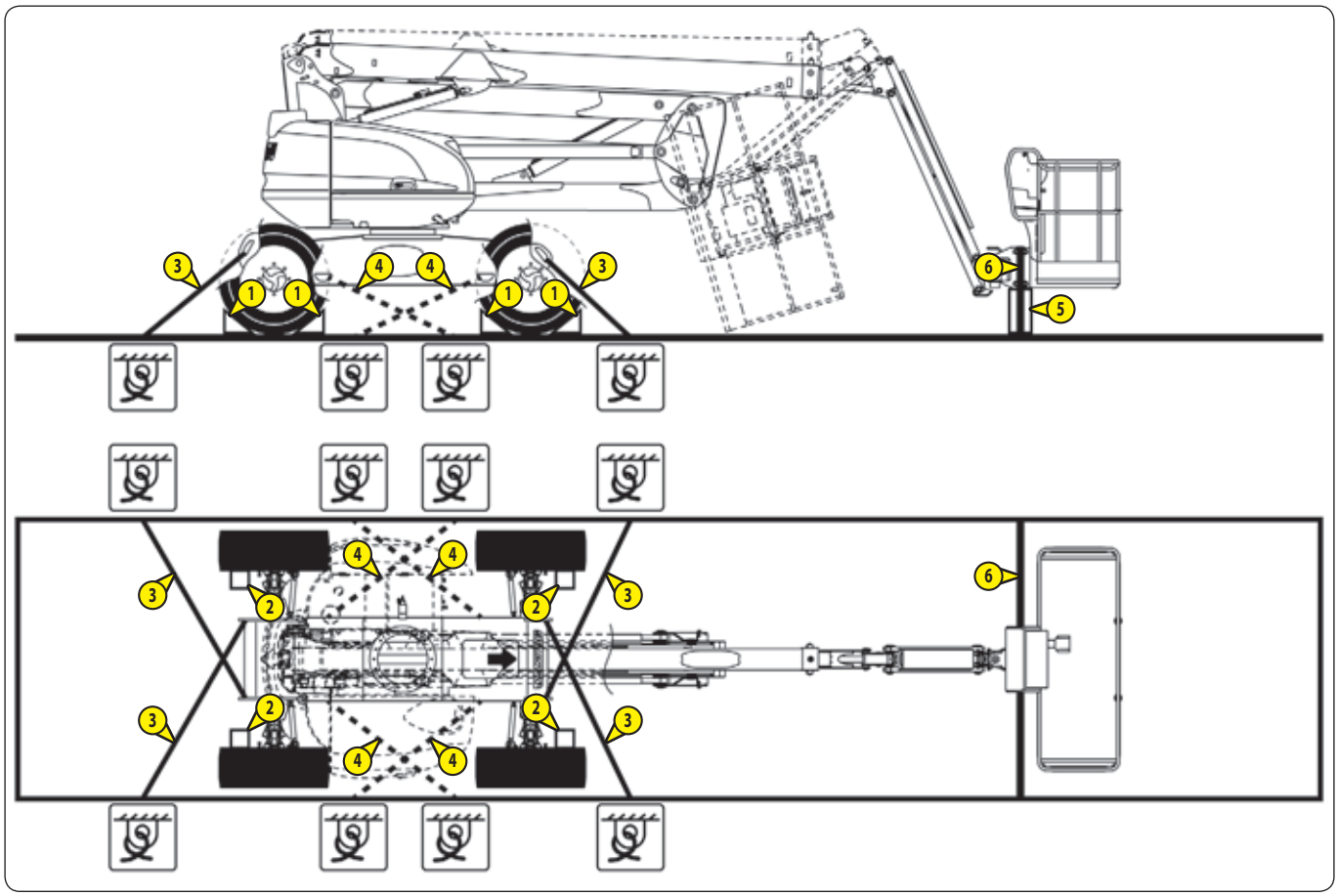
ANCHORING THE ACCESS PLATFORM

⚠ IMPORTANT ⚠

Turntable rotation is prohibited once on the flatbed.

It is essential that the turntable remains locked when the platform is on the flatbed, ◁ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.

The platform is equipped with 8 lashing points (◁ STICKERS: LASHING POINT); comply with the country's regulations concerning the minimum number of lashing points required when transporting a platform.



NOTE: The platform is powered down. The platform is in TRANSPORT position (A) or FOLDED (B) position, ◁ CONFIGURING THE PLATFORM FOR TRANSPORT. The turntable is locked.

- Fix chocks (1) to the flatbed truck at the front and rear of each of the platform's wheels.
- Fix chocks (2) to the flatbed on the inner side of each of the platform's wheels.
- Lash the platform to the flatbed truck with sufficiently robust straps or chains (3) and/or (4) (according to country regulations) attached to the platform's lashing points (◁ STICKERS: LASHING POINT).
- Only for TRANSPORT position (A):
  - Place a wooden shim (5) under the basket.
  - Strap the basket down (6).

RESCUE PROCEDURE

⚠ IMPORTANT ⚠

This procedure should be read and fully understood by the operator and any other persons likely to be involved with working on the platform in the event of a breakdown or a person getting trapped in the basket.

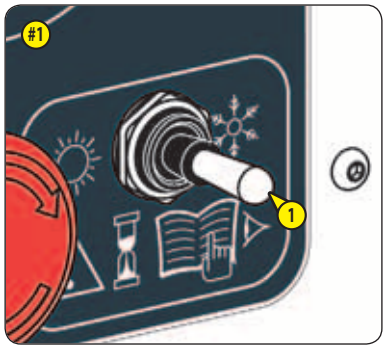
SHOULD THE USER FEEL ILL - PRIORITY CONTROLS

Illustrations: #1 = first version, #2 = second version.

If the operator in the basket should fall ill or find himself incapable of manoeuvring, the person present on the ground can take over the platform controls from the ground based control panel.

If the engine has been started:

- Press and hold the switch 1 to the right or (depending on version).
- Lower the basket using the appropriate control keys.
- Release the keys or the switch to stop activated controls.



If the engine has not been started and the emergency stop button in the basket is in the ON position (interface is turned on):

- Switch on the engine.
- Press and hold the switch 1 to the right or (depending on version).
- Lower the basket using the appropriate control keys.
- Release the keys or the switch to stop activated controls.

From machine no. 949267

If the engine has not been started and the emergency stop button in the basket is in the OFF position (interface screen is off):

- Press and hold the switch 1 to the right or (depending on version).
- Wait for the preheat cycle to finish and start up the engine.
- Lower the basket using the appropriate control keys.
- Release the keys or the switch to stop activated controls.

IF THERE IS A BREAKDOWN - EMERGENCY CONTROLS FROM THE BASKET

Illustrations: #1 = first version, #2 = second version.

⚠ IMPORTANT ⚠

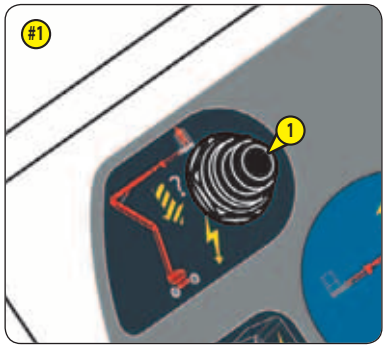
The backup pump should be activated for a maximum of 4 minutes, then wait 10 minutes before reactivating the pump for a new 4 minute cycle.

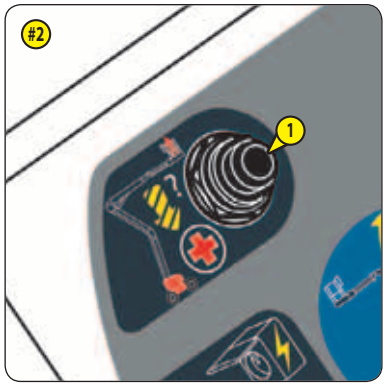
Do not try to use the controls simultaneously.

When a fault occurs in the engine, the platform has a backup pump, which can be activated from the basket control panel, allowing a return to the ground.

- Press and hold down the backup pump button 1 to activate the backup pump.
- Use the controls on the control panel in the basket.
- Release the switches and/or control handles to stop the control that has been activated.
- Release backup pump button.

NOTE: It is not possible to drive/steer the platform.





IF THERE IS AN ACCIDENT OR BREAKDOWN - EMERGENCY CONTROLS

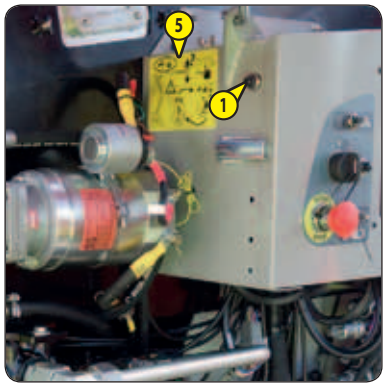
⚠ IMPORTANT ⚠

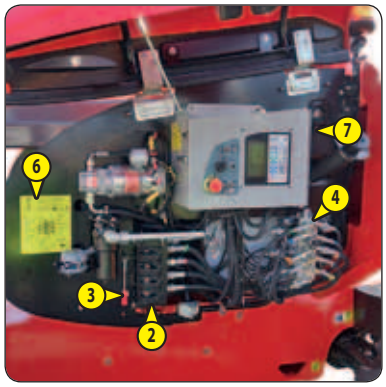
The tilt alarm and overload alarm may no longer be active while the emergency controls are in use.
The backup pump should be activated for a maximum of 4 minutes, then wait 10 minutes before reactivating the pump for a new 4 minute cycle.

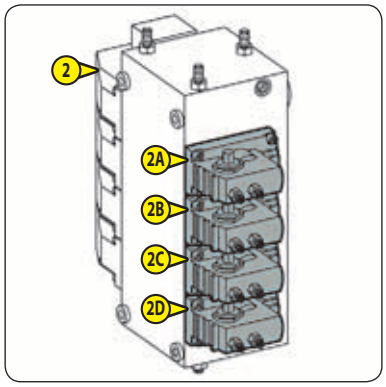
If an accident or breakdown occurs making the control panels at ground level and in the basket unusable, the platform is provided with emergency controls, which enable certain platform controls to be operated.

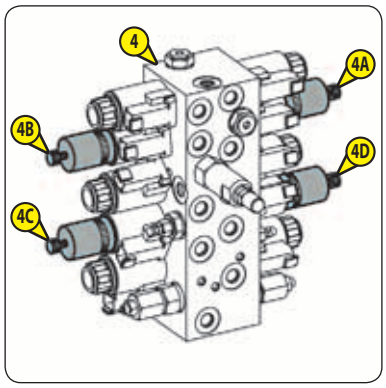
- Open the right-hand turntable cover.
- Locate the various components of the emergency controls:
  - Backup pump button (1).
  - Proportional distributor (2) and manual controls (2A) to (2D).
  - Lever (3).
  - Secondary distributor (4) and manual controls (4A) to (4D).
- Use the controls described in the following pages.

NOTE: Refer to the stickers BACKUP PUMP (5) and EMERGENCY CONTROL PROCEDURE (7) and (6), ⊲ STICKERS.









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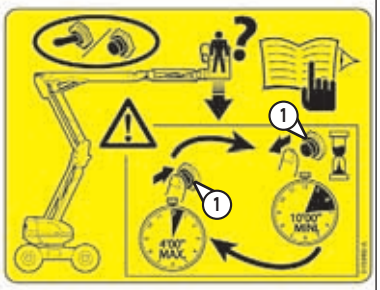

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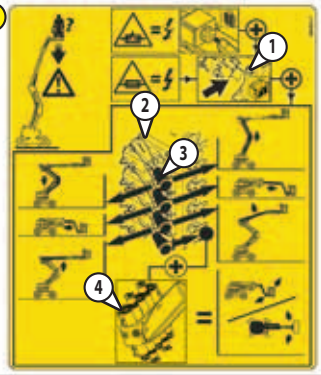

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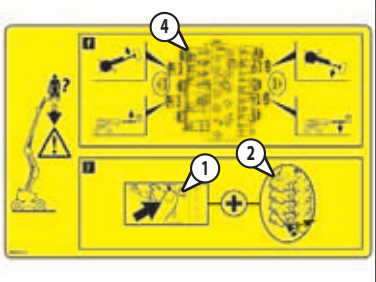

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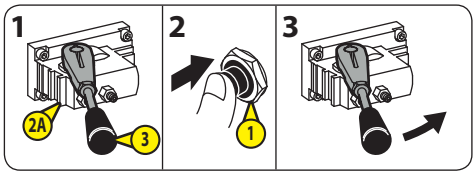
A- RAISE THE SECONDARY ARM

1 - Place the lever (3) on the manual control (2A).

2 - Press the backup pump button (1) and hold it down.

3 - Push the lever to the right to raise the secondary arm, stop when the desired position is reached. Release the backup pump button. Remove the lever.

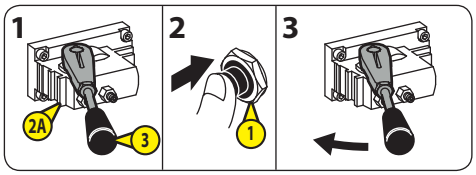


B- LOWER THE SECONDARY ARM

1 - Place the lever (3) on the manual control (2A).

2 - Press the backup pump button (1) and hold it down.

3 - Push the lever to the left to lower the secondary arm, stop when the desired position is reached. Release the backup pump button. Remove the lever.

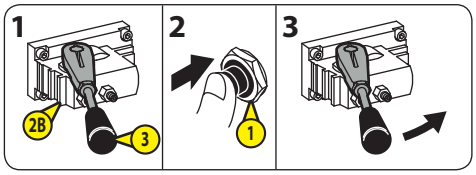


C - EXTEND THE TELESCOPE

1 - Place the lever (3) on the manual control (2B).

2 - Press the backup pump button (1) and hold it down.

3 - Push the lever to the right to extend the telescope, stop when the desired position is reached. Release the backup pump button. Remove the lever.

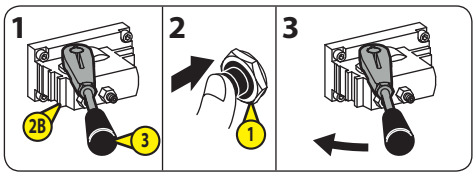


D - RETRACT THE TELESCOPE

1 - Place the lever (3) on the manual control (2B).

2 - Press the backup pump button (1) and hold it down.

3 - Push the lever to the left to retract the telescope, stop when the desired position is reached. Release the backup pump button. Remove the lever.

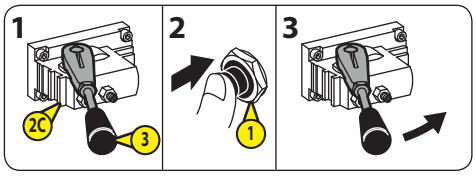


E- RAISE THE MAIN ARM

1 - Place the lever (3) on the manual control (2C).

2 - Press the backup pump button (1) and hold it down.

3 - Push the lever to the right to raise the main arm, stop when the desired position is reached. Release the backup pump button. Remove the lever.

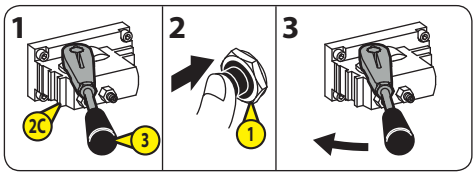


F- LOWER THE MAIN ARM

1 - Place the lever (3) on the manual control (2C).

2 - Press the backup pump button (1) and hold it down.

3 - Push the lever to the left to lower the main arm, stop when the desired position is reached. Release the backup pump button. Remove the lever.



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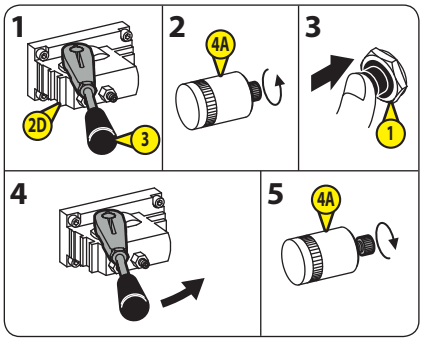
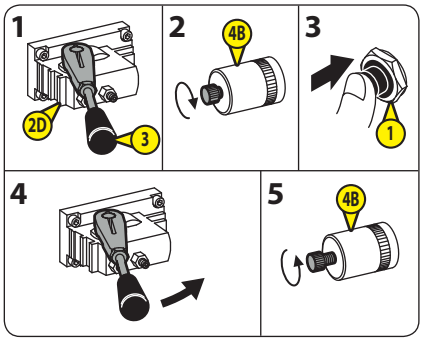
G- TURN THE TURNTABLE TO THE LEFT

1 - Place the lever (3) on the manual control (2D).
2 - Screw the thumbwheel (4A) until it stops.
3 - Press the backup pump button (1) and hold it down.
4 - Push the lever to the right to turn the turntable to the left, stop when the desired position is reached. Release the backup pump button. Remove the lever.
5 - Unscrew the thumbwheel (4A) until it stops.



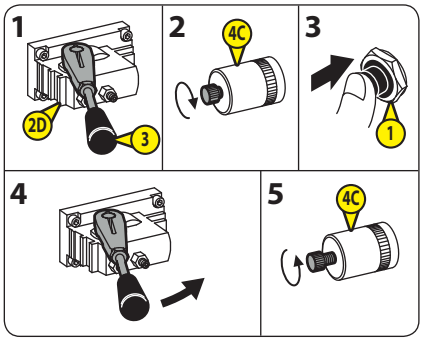
H- TURN THE TURNTABLE TO THE RIGHT

1 - Place the lever (3) on the manual control (2D).
2 - Screw the thumbwheel (4B) until it stops.
3 - Press the backup pump button (1) and hold it down.
4 - Push the lever to the right to turn the turntable to the right, stop when the desired position is reached. Release the backup pump button. Remove the lever.
5 - Unscrew the thumbwheel (4B) until it stops.



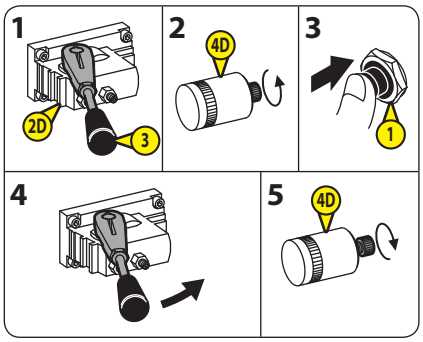
I- RAISE THE JIB

1 - Place the lever (3) on the manual control (2D).
2 - Screw the thumbwheel (4C) until it stops.
3 - Press the backup pump button (1) and hold it down.
4 - Push the lever to the right to raise the jib, stop when the desired position is reached. Release the backup pump button. Remove the lever.
5 - Unscrew the thumbwheel (4C) until it stops.



J- LOWER THE JIB

1 - Place the lever (3) on the manual control (2D).
2 - Screw the thumbwheel (4D) until it stops.
3 - Press the backup pump button (1) and hold it down.
4 - Push the lever to the right to lower the jib, stop when the desired position is reached. Release the backup pump button. Remove the lever.
5 - Unscrew the thumbwheel (4D) until it stops.



1 - GENERATOR

Illustration of the generator button (1) = second version.

⚠ IMPORTANT ⚠

Do not connect the cord extensions, power supply bars or plugs with multiple sockets to the electric power socket in the basket.

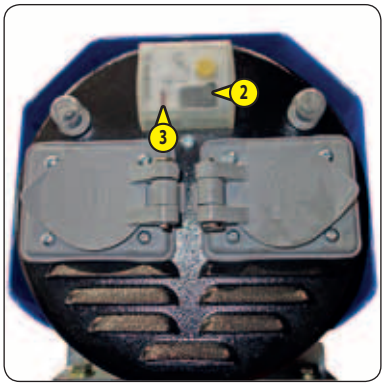
Overvoltages could occur when the generator is started.

The engine must be started to activate the generator.

- Press generator button (1) and release it to start the generator.
- Plug an electrical appliance into the electrical outlet in the basket.
- Press generator button and release it to stop the generator.

NOTE:

- Generator 110 V/3.5 kW: 1 electric power socket (UK) delivering 110 V/16 A maximum.
- Generator 220 V/3.5 kW: 1 electric power socket delivering 220 V/16 A maximum.
- Generator 220 V/5 kW: 2 electric power sockets delivering 220 V/16 A maximum.



The generator has a circuit breaker for resetting it:

- Press the generator button (1) and release it to stop the generator.
- Open the right-hand turntable cover.
- Locate the switch (2) on the generator
- Push it to the ON position.

Result:

- The switch must remain in the ON position, the indicator (3) should be green.

- Press the generator button and release it to start the generator.
- Check that the switch remains in the ON position and that the indicator is green.
- Close the right-hand turntable cover panel.

NOTE: Refer to the maintenance personnel if the circuit breaker is not working correctly.

2 - SECONDARY PROTECTION SYSTEM "SAFEMANSYSTEM"

Illustrations of the sensitive edge (2) and the reset button (3) = second version.

⚠ IMPORTANT ⚠

Operate the controls of the platform extremely carefully during attempts at clearance.

If the audible alarm sounds intermittently and rapidly and the blue flashing light (1) flashes rapidly: The platform can be used, but the secondary protection system "SafeManSystem" is deactivated; consult the maintenance personnel.

NOTE: The audible alarm sounds once and the blue flashing light (1) flashes several times when the platform is powered up. This indicates that the secondary protection system is operating correctly.

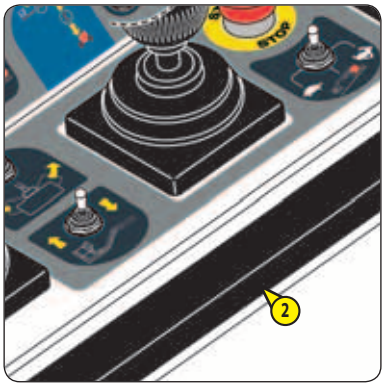
OPERATION DESCRIPTION

If you are trapped between the pressure sensitive bar (2) and a structure (A):

- All of the platform controls are stopped and locked.
- The horn sounds intermittently and the blue flashing light (1) flashes.
- AUTOMATIC TELESCOPE RETRACTION option: the telescope retracts automatically in less than 4 seconds.
- If you are still trapped between the pressure sensitive bar and the structure:
  - Press and release the reset button (3).

  Result:
  - The platform controls are unlocked, use them to get free.
  - The horn stops sounding and the blue flashing light stops flashing when you are no longer trapped.
- If you are no longer trapped between the pressure sensitive bar and the structure:
  - Press and release the reset button (3).

  Result:
  - The platform controls are unlocked.
  - The horn stops sounding and the blue flashing light stops flashing.



3 - MAINTENANCE

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3 - MAINTENANCE

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INTRODUCTION

MAINTENANCE OPERATIONS REQUIRE SPECIFIC PRECAUTIONS.

⚠ IMPORTANT ⚠

Unless specific instructions are given, during maintenance operations:
- The platform must be on a level surface. The wheels must be chocked.
- The platform should be in transport position; the turntable and the basket should be in neutral position, the jib should be completely lowered, ◁ 2 - DESCRIPTION: OPERATING THE PLATFORM: TRANSPORT/WORKING POSITION.
- It is essential that the turntable is locked, ◁ 2 - DESCRIPTION: SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
- The basket must be empty.

ORIGINAL MANITOU SPARE PARTS AND EQUIPMENT

OUR PLATFORMS MUST BE SERVICED USING ORIGINAL MANITOU PARTS.

BY ALLOWING THE USE OF NON ORIGINAL MANITOU PARTS, YOU RISK:

⚠ IMPORTANT ⚠

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

- Legally - to be held responsible in the event of an accident.
- Technically, causing operating malfunctions and reducing the access platform's service life.

USING ORIGINAL MANITOU PARTS FOR MAINTENANCE OPERATIONS MEANS THAT YOU BENEFIT FROM OUR KNOW-HOW

Through its network, MANITOU provides the user with,

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

⚠ IMPORTANT ⚠

ORIGINAL REPLACEMENT PARTS ARE DISTRIBUTED EXCLUSIVELY BY MANITOU AND ITS DEALER NETWORK.
The dealer network list is available on the MANITOU web site: www.manitou.com

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PLATFORM MAINTENANCE

DAILY AND MONTHLY MAINTENANCE

⚠ IMPORTANT ⚠

DAILY MAINTENANCE MUST BE CARRIED OUT BY THE OPERATOR BEFORE USING THE PLATFORM.
MONTHLY MAINTENANCE MUST BE CARRIED OUT BY THE QUALIFIED MAINTENANCE PERSONNEL.

COMPULSORY SERVICE AFTER FIRST 500 HOURS OR 6 MONTHS

⚠ IMPORTANT ⚠

THIS SERVICE MUST BE CARRIED OUT AFTER THE FIRST 500 HOURS OF SERVICE OR WITHIN THE 6 MONTHS FOLLOWING THE PLATFORM BEING PUT INTO SERVICE (WHICHEVER OCCURS FIRST) AND MUST BE PERFORMED BY AN APPROVED PROFESSIONAL FROM THE MANITOU NETWORK.

PERIODIC MAINTENANCE

⚠ IMPORTANT ⚠

THE PERIODIC MAINTENANCE MUST BE CARRIED OUT BY AN APPROVED PROFESSIONAL FROM THE MANITOU NETWORK.

MAINTENANCE SCHEDULE

This schedule enables the periodic maintenance on the platform to be kept up-to-date by reporting the total number of hours worked and the date of the service.

OCCASIONAL MAINTENANCE AND OPERATION

⚠ IMPORTANT ⚠

OCCASIONAL MAINTENANCE OR OPERATIONS MUST BE PERFORMED BY QUALIFIED MAINTENANCE PERSONNEL OR AN APPROVED PROFESSIONAL FROM THE MANITOU NETWORK.

These maintenance operations are to be carried out when needed for the safety and upkeep of the platform.

DAILY AND MONTHLY MAINTENANCE

10H - DAILY MAINTENANCE OR EVERY 10 HOURS OF SERVICE

50H - MONTHLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE

ALSO PERFORM THE DAILY MAINTENANCE.

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COMPULSORY SERVICE AFTER FIRST 500 HOURS OR 6 MONTHS

FIRST 500 HOURS BEFORE THE FIRST 6 MONTHS

- If the platform has reached the first 500 hours of service before the first 6 months have expired, perform both the compulsory service and periodic 500-hour maintenance (◁ ➲ ❷ 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR).

FIRST 6 MONTHS BEFORE THE FIRST 500 HOURS

- If the platform has not completed 500 hours of service in the first 6 months, carry out only the compulsory service.

➲ MANDATORY SERVICE

**** Consult your dealer.***

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PERIODIC SERVICE

MAINTENANCE SCHEDULE

		OR			
WHEN DUE ➲	250 H or 6 MONTHS	FIRST 6 MONTHS	FIRST 500 HOURS	500 H or 1 YEAR	750 H
PERIODIC MAINTENANCE ➲	❶	MANDATORY SERVICE	MANDATORY SERVICE + ❷	❶+❷	❶
MACHINE COUNTER ➲					
DATE OF SERVICING ➲					

WHEN DUE ➲	1000 H or 2 YEARS	1250 H	1500 H or 3 YEARS	1750 H	2000 H or 4 YEARS
PERIODIC SERVICE ➲	❶+❷+❸	❶	❶+❷	❶	❶+❷+❸+❹
MACHINE COUNTER ➲					
DATE OF SERVICING ➲					

WHEN DUE ➲	2250 H	2500 H or 5 YEARS	2750 H	3000 H or 6 YEARS	3250 H
PERIODIC SERVICE ➲	❶	❶+❷	❶	❶+❷+❸	❶
MACHINE COUNTER ➲					
DATE OF SERVICING ➲					

WHEN DUE ➲	3500 H or 7 YEARS	3750 H	4000 H or 8 YEARS	4250 H	4500 H or 9 YEARS
PERIODIC SERVICE ➲	❶+❷	❶	❶+❷+❸+❹	❶	❶+❷
MACHINE COUNTER ➲					
DATE OF SERVICING ➲					

WHEN DUE ➲	4750 H	5000 H or 10 YEARS	5250 H	5500 H or 11 YEARS	5750 H
PERIODIC SERVICE ➲	❶	❶+❷+❸	❶	❶+❷	❶
MACHINE COUNTER ➲					
DATE OF SERVICING ➲					

WHEN DUE ➲	6000 H or 12 YEARS	6250 H	6500 H or 13 YEARS	6750 H	7000 H or 14 YEARS
PERIODIC SERVICE ➲	❶+❷+❸+❹	❶	❶+❷	❶	❶+❷+❸
MACHINE COUNTER ➲					
DATE OF SERVICING ➲					

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➲ ❶ 250H - PERIODIC MAINTENANCE - EVERY 250 HOURS OF SERVICE OR 6 MONTHS

ALSO PERFORM THE DAILY MAINTENANCE.

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

ALSO PERFORM THE DAILY SERVICE AND THE PERIODIC SERVICE AT 250 HOURS OF SERVICE.

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➲ ❸ 1000H - PERIODIC SERVICE - EVERY 1,000 HOURS OF SERVICE OR 2 YEARS

ALSO PERFORM THE DAILY SERVICE AND THE PERIODIC SERVICES AT 250 HOURS AND 500 HOURS OF SERVICE.

**** Consult your dealer.***

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

ALSO PERFORM THE DAILY SERVICE AND THE PERIODIC SERVICES AT 250 HOURS, 500 HOURS AND 1,000 HOURS OF SERVICE.

**** Consult your dealer.***

OCCASIONAL MAINTENANCE AND OPERATION

➲ OCCASIONAL MAINTENANCE

➲ OCCASIONAL OPERATION

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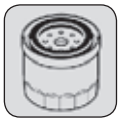
FILTERING ELEMENTS AND BELTS

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



ENGINE OIL FILTER

Part number: 749613

ALTERNATOR/FAN BELT

Part number: 749605

FUEL PRE-FILTER

Part number: 734146

From machine no. 905990

HYDROSTATIC TRANSMISSION FILTER CARTRIDGE

Part number: 518251

DRY AIR FILTER CARTRIDGE

Part number: 227959

FUEL FILTER CARTRIDGE

Part number: 748087

PRESSURE HYDRAULIC FILTER CARTRIDGE

Part number: 518251

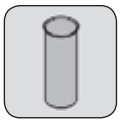
➲ ❸ 1000H - PERIODIC SERVICE - EVERY 1,000 HOURS OF SERVICE OR 2 YEARS

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

SAFETY DRY AIR FILTER CARTRIDGE

Part number: 227960

➲ OCCASIONAL MAINTENANCE



HYDRAULIC OIL TANK FILTER

Part number: 703041

HYDRAULIC OIL TANK SUCTION STRAINER

Part number: 19910

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⚠ IMPORTANT ⚠

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

DIAGNOSTIC ANALYSIS OF OILS

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

(*) REQUIRED FUEL SPECIFICATION

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

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

RECOMMENDATION

ENGINE

DESCRIPTION	CAPACITY	RECOMMENDATION
ENGINE OIL	9.5 L	10W30 / 10W40 / MANITOU OIL 15W40 API CH4
COOLING CIRCUIT	9 L	COOLANT -35°C
FUEL TANK	78 L	DIESEL OIL *

HYDRAULICS

DESCRIPTION	CAPACITY	RECOMMENDATION
HYDRAULIC OIL TANK	80 L	ISO VG 100 / ISO VG 68 / MANITOU HYDRAULIC OIL ISO VG 46 / ISO VG 37 / ISO VG 32

TRANSMISSION

DESCRIPTION	CAPACITY	RECOMMENDATION
REDUCTION GEAR BOX	1.10 L	MANITOU MECHANICAL TRANSMISSION OIL SAE80W90

FRONT AXLE

DESCRIPTION	CAPACITY	RECOMMENDATION
DIFFERENTIAL **Up to machine no. 945951**	7.8 L	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
DIFFERENTIAL **From machine no. 945952**	7.5 L	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
WHEEL GEAR REDUCER	2x0.85 L	MANITOU MECHANICAL TRANSMISSION OIL SAE80W90
STEERING PIVOT PINS		MANITOU BLACK MULTI-PURPOSE LUBRICANT
OSCILLATION BEARINGS		MANITOU BLACK MULTI-PURPOSE LUBRICANT

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REAR AXLE		
DESCRIPTION	CAPACITY	RECOMMENDATION
DIFFERENTIAL	6.5 L	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
WHEEL GEAR REDUCER	2x0.85 L	MANITOU MECHANICAL TRANSMISSION OIL SAE80W90
STEERING PIVOT PINS		MANITOU BLACK MULTI-PURPOSE LUBRICANT

LIFTING STRUCTURE		
DESCRIPTION	CAPACITY	RECOMMENDATION
GENERAL GREASING		MANITOU BLACK MULTI-PURPOSE LUBRICANT
TELESCOPE LUBRICATION		MANITOU BLACK MULTI-PURPOSE LUBRICANT
CROWN GEAR BEARINGS		MANITOU BLACK MULTI-PURPOSE LUBRICANT
CROWN GEAR TEETH		MANITOU MULTI-PURPOSE EXTREME PRESSURE LUBRICANT
TURNTABLE ROTATION MOTOR (REGGIANI RIDUTTORI) **Up to machine no. 01003551**	1.5 L	MANITOU HYDRAULIC OIL ISO VG 46
TURNTABLE ROTATION MOTOR (BONFIGLIOLI) **From machine no. 01003552**	0.85 L	MANITOU MECHANICAL TRANSMISSION OIL SAE80W90

PACKAGING

OIL						
PRODUCT	PACKAGING - PART NO.					
	1 LITRE	2 LITRES	5 LITRES	20 LITRES	55 LITRES	209 LITRES
- MANITOU OIL 15W40 API CH4			661706	582357	582358	582359
- MANITOU HYDRAULIC OIL ISO VG 46			545500	582297	546108	546109
- SPECIAL MANITOU OIL FOR IMMERSED BRAKES			545976	582391		894257
- MANITOU MECHANICAL TRANSMISSION OIL SAE80W90		499237	720184	546330	546221	546220

GREASE						
PRODUCT	PACKAGING - PART NO.					
	400 ML	400 GR	1 KG	5 KG	20 KG	50 KG
- MANITOU MULTI-PURPOSE EXTREME PRESSURE LUBRICANT	947765					
- MANITOU BLACK MULTI-PURPOSE LUBRICANT		947766	161590			499235

LIQUID						
PRODUCT	PACKAGING - PART NO.					
	1 LITRE	2 LITRES	5 LITRES	20 LITRES	55 LITRES	210 LITRES
- COOLANT -35°C			894967	894968		894969

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CHECK — General inspection

⚠ IMPORTANT ⚠

Consult the maintenance personnel if there is doubt about the condition of the platform.

NOTE: The turntable covers must be open and the battery cover (1) must be removed to carry out the general inspection of the platform. They must be put back in place and closed once finished.

The operator must perform a visual and physical inspection of the platform:

- Check that the instructions for use are clean and complete.
- Check the stickers and make sure they are all present, clean and legible, ◁ 2 - DESCRIPTION: STICKERS.
- Check for the absence of leaks: fuel, engine oil, coolant, battery liquid, hydraulic oil, lubricants, etc.
- Check the condition of the structure: absence of impacts, damage, cracked welding, corrosion, excessive mechanical play, wear, etc.
- Check the condition of the basket: structure, floor, safety rail, harness attachment points, etc.
- Check the condition of the hydraulic components: pumps, distributors, valves, motors, cylinders, hoses, etc.
- Check the condition of the mechanical components: wheels, tyres, tie rods, crown gear, shafts, etc.
- Check the condition of the electrical components: control panels, pedal switch, control handles, switches, buttons, indicator lights, battery, fuses, cables, harnesses, rotating beacon light, etc.
- Check the condition of covers, handles, locks, plugs, etc.
- Check there are no parts missing or loose: screws, nuts, pins, etc.
- Check that no parts are missing or have had unauthorised modifications.
- Check the general cleanliness of the platform: basket floor, motor compartment, etc.

CHECK — Fuel level

CHECK — Battery voltage

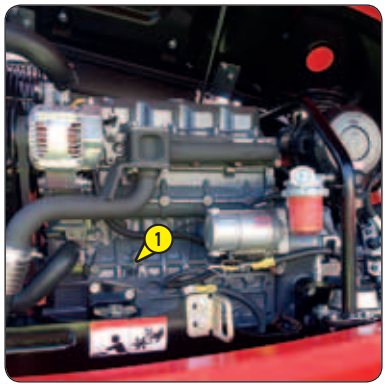
⚠ IMPORTANT ⚠

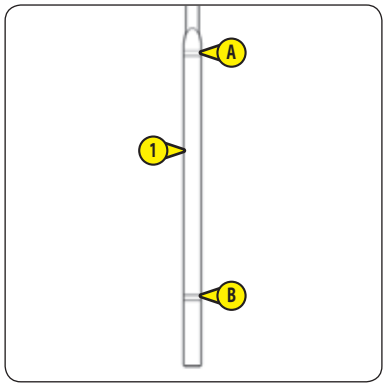
Never smoke or approach with a flame when filling with fuel or when the tank cap has been removed.
Never fill up with fuel while engine is running.
If there is doubt about the battery voltage, refer to the maintenance personnel.

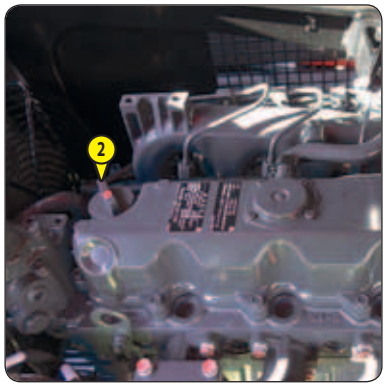
- Switch on the access platform.
- Check the fuel level displayed on the interface screen.
- If the level is low:
  - Remove the cap from the tank (1).
  - Add fuel until the maximum level is reached, ◁ LUBRICANTS AND FUEL.
  - Refit the tank cap.
- If the level is correct:
  - Ensure that the tank cap (1) is correctly closed.
- Check the battery voltage displayed on the interface screen. Refer to the maintenance personnel if the voltage is low.
- Switch off the power to the access platform.

CHECK — Engine oil level

- Open the left-hand turntable cover.
- Remove the dipstick (1). Clean it with a clean cloth and put it back in place.
- Remove the dipstick. The level is correct when the engine oil is between the 2 marks (A) and (B).
- If the level is low:
  - Put the dipstick back in place.
  - Remove the filler plug (2).
  - Add engine oil, ◁ LUBRICANTS AND FUEL.
  - Refit the filler cap.
  - Wait for 5 minutes for the oil to settle in the crankcase.
  - Remove the dipstick . Clean it with a clean cloth and put it back in place.
  - Remove the dipstick. The level is correct when the engine oil is between the 2 marks (A) and (B).
  - Put the dipstick back in place.
- If the level is correct:
  - Put the dipstick back in place.
  - Ensure that the filler cap (2) is correctly closed.







CHECK — Coolant level

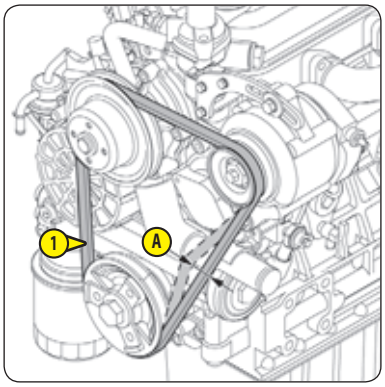
⚠ IMPORTANT ⚠

Wait until the engine cools if it has been running for a while.
Do not remove the radiator cap until the engine is completely cooled.

NOTE: The left turntable cover is open.

- Remove the radiator plug (1). The level is correct when the coolant reaches the top of the filling hole.
- If the level is low, add coolant until the correct level is reached, ◁ LUBRICANTS AND FUEL.
- Refit the radiator cap.

CHECK — Alternator/fan belt



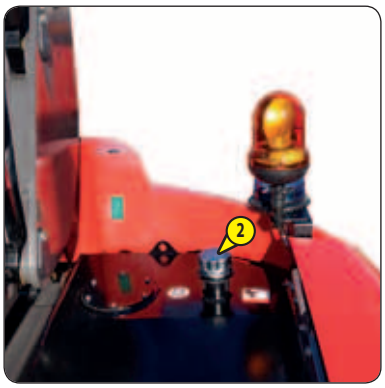
⚠ IMPORTANT ⚠

If there is doubt about the condition of the belt, refer to the maintenance personnel.

NOTE: The left turntable cover is open.

- Check the condition of the belt (1). Ensure there are no cracks or signs of wear.
- Check the belt tension between the crankshaft pulley and the alternator pulley:
  - Apply pressure with the thumb = 98 N. The clearance (A) must be between 7 mm and 9 mm to be correct.
- Adjust if necessary:
  - Refer to the maintenance personnel.
- Close the left-hand turntable cover.

CHECK — Hydraulic oil level



⚠ IMPORTANT ⚠

The platform must be in transport position with the jib lowered completely.

There can be a difference in level of 10 mm to 20 mm between hot and cold oil. It is recommended the level is checked again when the hydraulic oil is hot.

Clean the oil can before adding oil to the hydraulic oil tank.

Use a clean funnel to add oil to the hydraulic oil tank.

- Open the right-hand turntable cover.
- Locate the level indicator (1). The level is correct when the oil reaches the red dot on the level indicator.
- If the level is low:
  - Remove the cap from the tank (2).
  - Add hydraulic oil until the correct level is reached, ◁ LUBRICANTS AND FUEL.
  - Refit the tank cap.
- If the level is correct:
  - Ensure that the tank cap (2) is correctly closed.
- Close the right-hand turntable cover panel.

⚠ IMPORTANT ⚠

◁ 2 - DESCRIPTION for more information on the control panels on the ground and in the basket.
Select a test area on a firm, level surface that is free of any obstacles.
Look around and above you when manoeuvring the platform (lifting, rotation, etc.).
Pay particular attention to electric lines and any object that may be within the platform's field of operation.
Shut the platform down if a malfunction is detected.

STARTING THE ENGINE AND EMERGENCY STOP

GROUND LEVEL CONTROL PANEL:

- Switch on the access platform.

Result:

- The start-up page, then the preheat page should be displayed on the user interface screen.
- The audible alarm should sound once.

- Wait for the preheat cycle to finish and start up the engine.

Result:

- The engine should start.

- Press the emergency stop button.

Result:

- The emergency stop button should be locked in the OFF position.
- The engine should stop.
- It should not be possible to activate the controls.

- Turn the emergency stop button a quarter turn to the right and release it.

Result:

- The emergency stop button should be unlocked (in the ON position).
- The start-up page, then the preheat page should be displayed on the user interface screen.

- Wait for the preheat cycle to finish and start up the engine.

Result:

- The engine should start.

CONTROL PANEL IN THE BASKET:

- Turn the basket to the right or left, at the same time pressing the emergency stop button.

Result:

- The emergency stop button should be locked in the OFF position.
- The basket rotation should stop.
- The engine should stop.
- It should not be possible to activate the controls.

- Turn the emergency stop button a quarter turn to the right and release it.

Result:

- The emergency stop button should be unlocked (in the ON position).
- The preheat light should light up.

- Wait for the preheat cycle to finish and start up the engine.

Result:

- The engine should start.

HORN

NOTE: The engine has been started.

CONTROL PANEL IN THE BASKET:

- Press horn button.and release it.

Result:

- The horn should sound.

OVERLOAD ALARM

NOTE: The engine has been started. TORTOISE speed  is selected.

CONTROL PANEL ON THE GROUND AND IN THE BASKET:

- Place between 253 kg and 283 kg evenly distributed in the basket:

Result:

• The overload alarm should go off.

- Try to activate the platform controls.

Result:

• It should not be possible to activate the controls.

- Remove the whole load.

Result:

• The overload alarm should stop.

CONTROLS: ROTATION OF TURNTABLE, MAIN ARM, SECONDARY ARM, TELESCOPE, JIB, BASKET TILT AND BASKET ROTATION

NOTE: The engine has been started.

GROUND LEVEL CONTROL PANEL:

- Do not touch the selector switch on the controls at ground level/in the basket. Test the controls one by one.

Result:

• It should not be possible to activate any of the controls.

- Press and hold down the selector switch for the ground/basket controls to the right  or  (depending on version). Test the controls one by one.

Result:

• It should be possible to activate all the controls.

- Put the platform in the transport position. Put the turntable and basket in the neutral position. Lower the jib completely.

CONTROL PANEL IN THE BASKET:

- Do not touch the foot switch. Test the controls one by one.

Result:

• It should not be possible to activate any of the controls.

- Press and hold down the foot switch. Test the controls one by one.

Result:

• It should be possible to activate all the controls.

- Put the machine in transport position. Put the turntable and basket in neutral position.

CONTROLS: DRIVING/BRAKING/STEERING (TRANSPORT POSITION)

NOTE: The engine has been started.

CONTROL PANEL IN THE BASKET:

- Raise the jib slightly for good visibility.
- Select TORTOISE speed  .
- Do not touch the foot switch. Do not touch the control handle trigger. Try to drive and steer the platform.
- Do not touch the foot switch. Press and hold down the control handle trigger. Try to drive and steer the platform.
- Press and hold down the foot switch. Do not touch the control handle trigger. Try to drive and steer the platform.

Result:

- It should not be possible to activate the controls.

- Press and hold down the foot switch. Press and hold down the control handle trigger.
- Drive the platform forward, steer left/right and brake. Reverse the platform and brake.
- Select RAMP speed  or  (depending on version) and perform the test again.
- Select HARE speed  and perform the test again.

Result:

- Driving and steering should function properly.
- Brakes should function properly.

- Test 4-WHEEL, 2-WHEEL and CRAB steering modes, at TORTOISE speed  .

Result:

- The steering modes should function properly.
- The wheel alignment indicator lights should function properly.

UPPER ARM, SECONDARY ARM AND TELESCOPE POSITION SENSORS

NOTE: The engine has been started.

CONTROL PANEL IN THE BASKET:

- Select TORTOISE speed  .
- Drive the platform forward for a short distance. Assess and remember the speed of the platform.
- Raise the main arm for 3 seconds.
- Drive the platform forward for a short distance.

Result:

• The driving speed must be the WORKING POSITION speed. Assess and remember the speed of the platform.

- Fully lower the main arm.
- Drive the platform forward for a short distance.

Result:

• The driving speed must be TORTOISE speed  .

- Raise the secondary arm for 3 seconds.
- Drive the platform forward for a short distance.

Result:

• The driving speed must be WORKING POSITION speed.

- Fully lower the secondary arm.
- Drive the platform forward for a short distance.

Result:

• The driving speed must be TORTOISE speed  .

- Extend the telescope for 3 seconds.
- Drive the platform forward for a short distance.

Result:

• The driving speed must be WORKING POSITION speed.

- Fully retract the telescope.
- Drive the platform forward for a short distance.

Result:

• The driving speed must be TORTOISE speed  .

- Fully lower the jib.

SLOPE ALARM

NOTE: The engine has been started.

GROUND LEVEL CONTROL PANEL:

- Open the right-hand turntable cover.
- Locate the levelling sensor ① (first version) or ② (second version).
- Press the levelling sensor so that it is tilted and hold it down.

Result:

- The tilt alarm should go off.
- Levelling sensor ① (first version): the yellow light must come on.

NOTE: The red light must stay on.

- Levelling sensor ② (second version): the light must go out.

- Release the levelling sensor.

Result:

- The tilt alarm should stop.
- Levelling sensor ① (first version): the yellow light must go off.

NOTE: The red light must stay on.

- Levelling sensor ② (second version): the light must come on.

- Close the right-hand turntable cover panel.

CONTROL PANEL IN THE BASKET:

- Raise the main arm for 3 seconds.
- Select RAMP speed  or  (depending on version).
- Select a slope between 15% (8.5°) and 25% (14°).
- Drive the platform forwards slowly on the slope, facing it, with the basket at the bottom of the slope.

Result:

- The platform should brake automatically.
- The tilt alarm should go off.

- Try to raise the main arm and the secondary arm, extend the telescope, tilt the basket upwards/downwards and drive/steer.

Result:

- It should not be possible to activate the controls.

- Fully lower the main arm.

Result:

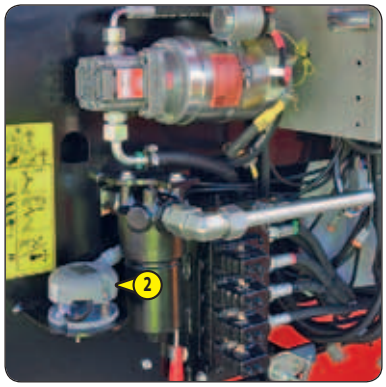
- It should be possible to activate the control.

- Drive the platform off the slope to a level surface.

Result:

- The tilt alarm should stop.

- Stop the engine. Power down the platform.



Illustrations of the sensitive edge (2) and the reset button (3) = second version.

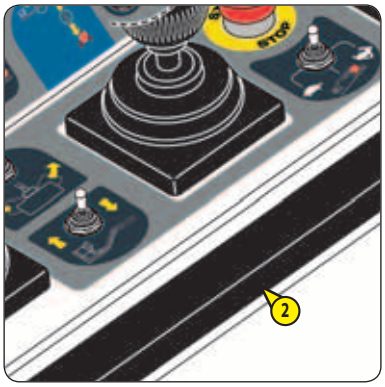
⚠ IMPORTANT ⚠

Select a test area on a firm, level surface that is free of any obstacles.
Shut the platform down if a malfunction is detected.

- Switch on the access platform.

Result:
- The audible alarm should sound once.
- The blue flashing light (1) should flash several times and stop.

NOTE: If the safety edge (2) is defective, the blue flashing light (1) flashes rapidly and the audible alarm sounds intermittently. The platform can function normally, but the "SafeManSystem" option is deactivated.



- Get into the basket and start the engine.
- Extend the telescope for 5 seconds.
- Turn the basket to the right or left, at the same time pressing the safety edge (2) and release it.

Result:
- The basket rotation should stop.
- The horn should sound intermittently and the blue flashing light should flash.
- It should not be possible to activate the controls.
- AUTOMATIC TELESCOPE RETRACTION option: the telescope should retract automatically in less than 4 seconds.

- Press and release the reset button (3).

Result:
- The horn should stop sounding and the blue flashing light should stop flashing.
- It should be possible to activate the controls.

- Extend the telescope for 5 seconds.
- Turn the basket to the right or left, at the same time pressing the safety edge (2) and hold it down.

Result:
- The basket rotation should stop.
- The horn should sound intermittently and the blue flashing light should flash.
- It should not be possible to activate the controls.
- AUTOMATIC TELESCOPE RETRACTION option: the telescope should retract automatically in less than 4 seconds.

- Hold the safety edge (2) down, press the reset button (3) and release it.

Result:
- The horn and the blue flashing light should continue to operate.
- It should be possible to activate the controls.

- Release the safety edge.

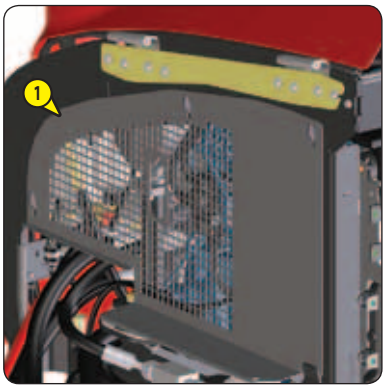
Result:
- The horn should stop sounding and the blue flashing light should stop flashing.

- Put the platform in the transport position. Put the turntable and basket in the neutral position. Lower the jib completely.
- Get out of the basket.
- Stop the engine. Power down the platform.

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

ALSO PERFORM THE DAILY MAINTENANCE.

CHECK — Injection pipes, fuel hoses and the hose clamps



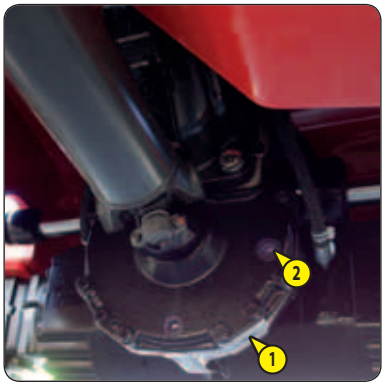
⚠ IMPORTANT ⚠

Never smoke or approach with a flame during this check.

If there is doubt about the condition of the injection pipes, fuel hoses and hose clamps, have them replaced by an authorised professional from the Manitou network.

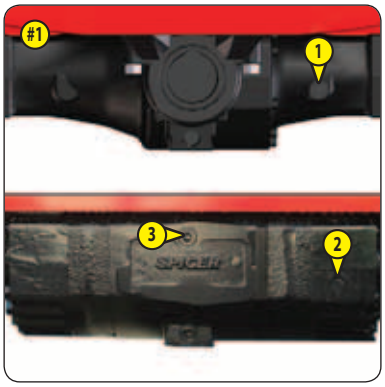
- Open the left-hand turntable cover.
- Open the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Remove the engine grille (1).
- Check the condition of all the injection pipes, fuel hoses and the tightening clamps.
- Check for fuel leaks.
- Put the engine grille back in place.
- Close the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Close the left-hand turntable cover.

CHECK — Reduction gearbox impermeability



- Locate the reduction gearbox (1) on the rear axle.
- Check no oil is leaking from the reduction gearbox and plugs.
- If a leak is detected:
  - Clean the outside of the reduction gearbox with a clean cloth.
  - Remove the filler plug (2).
  - Check that the oil reaches the filling hole.
  - Add oil if necessary, ◁ LUBRICANTS AND FUEL.
  - Refit the filler cap.

CHECK *Impermeability of the front and rear axle differentials*



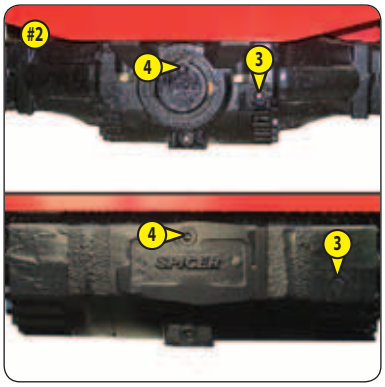
Up to machine no. 945951: Illustration #1

FRONT AXLE

- Check no oil is leaking from the differential and plugs.
- If a leak is detected:
  - Clean the outside of the axle differential with a clean cloth.
  - Remove the filler plug 1.
  - Check that the oil reaches the filling hole.
  - Add oil if necessary, ◁ LUBRICANTS AND FUEL.
  - Refit the filler cap.

REAR AXLE

- Check no oil is leaking from the differential and plugs.
- If a leak is detected:
  - Clean the outside of the axle differential with a clean cloth.
  - Remove the level plug 2.
  - Check that the oil reaches the hole.
  - Remove the filler cap 3 and add oil if necessary, ◁ LUBRICANTS AND FUEL.
  - Refit the level plugs and filler cap.



From machine no. 945952: Illustration #2

FRONT AND REAR AXLES

- Check no oil is leaking from the differentials and plugs.
- If a leak is detected:
  - Clean the outside of the axle differential with a clean cloth.
  - Remove the level plug 3.
  - Check that the oil reaches the hole.
  - Remove the filler cap 4 and add oil if necessary, ◁ LUBRICANTS AND FUEL.
  - Refit the level plugs and filler cap.

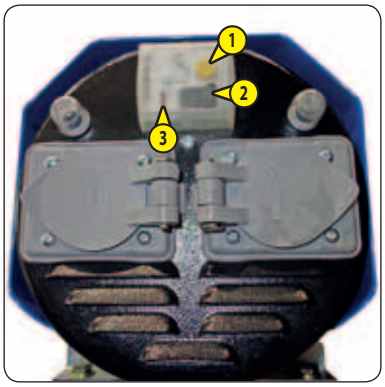
CHECK *Impermeability of the front and rear gear reducers*

NOTE: Check the gear reducers one by one.

- Check no oil is leaking from the gear reducers and plugs.
- If a leak is detected:
  - Turn the wheel to put the drain/filler plug 1 in the horizontal position.
  - Clean the outside of the gear reducer with a clean cloth.
  - Remove the drain/filler plug .
  - Check that the oil reaches the filling hole.
  - Add oil if necessary, ◁ LUBRICANTS AND FUEL.
  - Refit the drain/filler plug:

  Tightening torque = 42 Nm ± 7 Nm

CHECK — Generator (OPTION)



NOTE: Refer to the sticker in the basket for the voltage and intensity supplied by the electric power socket.

- Switch on the platform. Start the engine.
- Start the generator.
- Plug an electrical appliance into the electric power socket in the basket.

Result:

• The electrical appliance should operate.

- Open the right-hand turntable cover.
- Locate the test button (1) on the generator and press it.

Result:

• The switch (2) must move from the ON position to the OFF position, the indicator (3) should be red.

• The electrical appliance should not operate.

- Push the switch to the ON position.

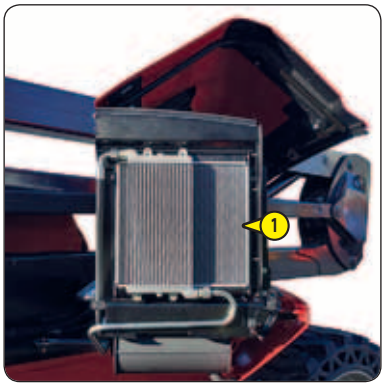
Result:

• The switch must remain in the ON position, the indicator should be green.

• The electrical appliance should operate.

- Disconnect the electrical appliance.
- Stop the generator.
- Close the right-hand turntable cover panel.
- Stop the engine. Power down the platform.

CLEAN — Coolant, air and oil radiators



⚠ IMPORTANT ⚠

Clean the radiators more often when the platform is operating in a dusty environment.
If there is doubt about the condition of the hoses and hose clamps for the coolant and air radiators, it is essential to have them replaced by an authorised professional from the Manitou network.

- Open the left-hand turntable cover.
- Open the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Clean the radiators (1) with a small brush to remove the dust.
- Clean them with compressed air, from the inside out.
- Check the condition of the hoses and tightening clamps for the coolant and air radiators.
- Check the condition of the oil radiator.
- Close the swivelling engine plate, ◁ OCCASIONAL OPERATION.

547399 (01/03/2019)
200 ATJ

⚠ IMPORTANT ⚠

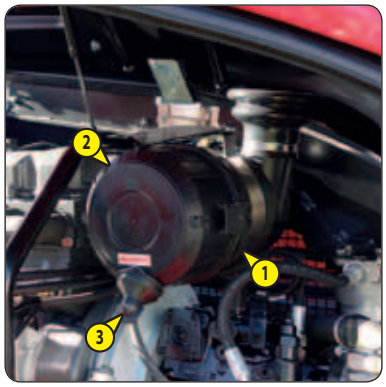
Clean the dry air filter cartridge more often when the platform is operating in a dusty environment. If there is doubt about its condition, have it replaced by an approved professional from the Manitou network.

Never use the platform with a damaged air filter unit. If there is doubt about its condition, have it replaced by an approved professional from the Manitou network.

Never use the platform without a dry air filter cartridge or if it is damaged. If there is doubt about its condition, have it replaced by an approved professional from the Manitou network.

Never use the platform without a dry air filter safety cartridge or if it is damaged. If there is doubt about its condition, have it replaced by an approved professional from the Manitou network.

If there is doubt about the condition of the air intake line, the air suction outlet hose and hose clamps, have them replaced by an authorised professional from the Manitou network.

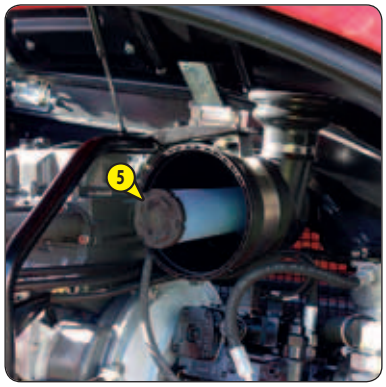


NOTE: The left turntable cover is open.

- Clean the outside of the air filter unit (1) with a clean, slightly damp cloth.
- Unlock and remove the cover of the air filter unit (2).
- Clean the inside of the air filter unit cover with a clean, slightly damp cloth.
- Remove the valve (3) and clean it.
- Check the condition of the valve and replace it if it is damaged.
- Put the valve back in place.
- Remove the dry air filter cartridge (4) pulling it gently to prevent dust dispersion.

NOTE: Do not press the centre of the dry air filter cartridge.

- Check the condition of the dry air filter safety cartridge (5) without taking it out.
- Check the condition of the air filter unit, the air intake line, the air suction outlet hose and the tightening clamps.
- Clean the dry air filter cartridge (4) by tapping it gently.



NOTE: If necessary clean it with dry compressed air, from the inside out:

- Maximum pressure = 2 bars. Minimum distance = 30 mm.

- Check its condition and clean its seal with a clean cloth.
- Refit it pushing gently.

NOTE: Do not press the centre of the dry air filter cartridge.

- Refit the air filter unit cover (2), the valve (3) facing downwards, the marking "TOP" facing upwards.
- Close the left-hand turntable cover.

547399 (01/03/2019)
200 ATJ

⚠ IMPORTANT ⚠

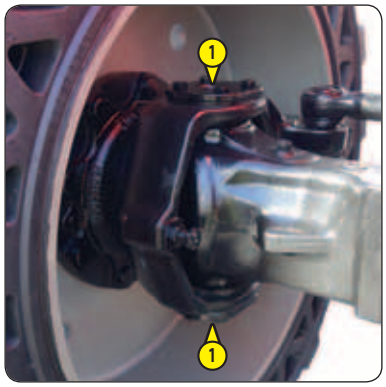
Lubricate the axles more often when the platform is operating in a dusty environment.

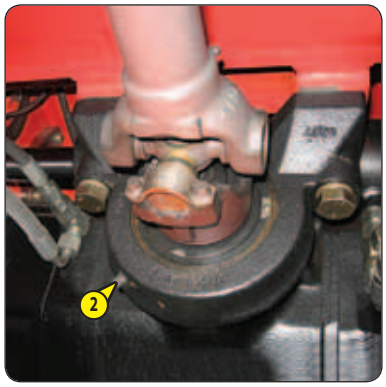
STEERING PIVOT PINS

- Remove the caps from the lubrication connectors (1) on the steering pivots of the front and rear axles, on the right and left-hand sides.
- Inject the lubricant into the lubrication connectors, ◁ LUBRICANTS AND FUEL.
- Refit the caps.

OSCILLATING FRONT AXLE OPTION:

- Remove the caps from the lubrication connectors (2) on the front axle oscillating bearings.
- Inject the lubricant into the lubrication connectors, ◁ LUBRICANTS AND FUEL.
- Refit the caps.





Up to machine no. 949266

- Switch on the access platform.
- 2 - DESCRIPTION: SUB-MENU DEFINITIONS UP TO MACHINE No. 949266:
  - Enter in the menu, CODE  .
  - Enter the access code.
  - Enter in the menu, MAINTENANCE  .
  - Zero the corresponding maintenance alerts.
  - Press the MENU  or MENU  button (depending on version) twice to return to the WORK PAGE.
- Switch off the power to the access platform

From machine no. 949267

- Switch on the access platform.
- 2 - DESCRIPTION: SUB-MENU DEFINITIONS FROM MACHINE No. 949267:
  - Enter in the menu, CODE  .
  - Enter the access code.
  - Enter in the menu, MAINTENANCE  .
  - Zero the corresponding maintenance alerts.
  - Press the MENU key  twice to return to the WORK PAGE.
- Switch off the power to the access platform.

➲ ❶ 250H - PERIODIC MAINTENANCE - EVERY 250 HOURS OF SERVICE OR 6 MONTHS

ALSO PERFORM THE DAILY MAINTENANCE.

CHECK — Injection pipes, fuel hoses and the hose clamps

◅ 50H: MONTHLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE.

CHECK — Reduction gearbox impermeability

◅ 50H: MONTHLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE.

CHECK — Impermeability of the front and rear axle differentials

◅ 50H: MONTHLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE.

CHECK — Impermeability of the front and rear gear reducers

◅ 50H: MONTHLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE.

CHECK — Generator (OPTION)

◅ 50H: MONTHLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE.

CHECK — Wheel nut tightening

⚠ IMPORTANT ⚠

Failure to follow this instruction may result in the machine tipping over.

The tightening of the wheel nuts should be checked at the latest after the first 50 hours of service, then every 250 hours of service.

- Check all the wheel nut tightening torques:

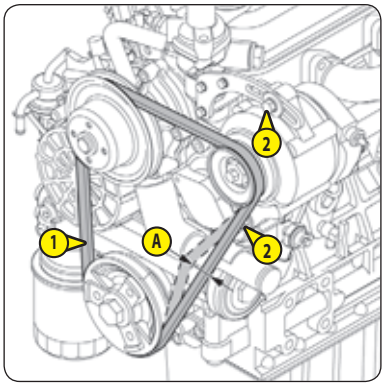
550 N.m ±55 N.m

CHECK — Alternator/fan belt

⚠ IMPORTANT ⚠

If there is doubt about the condition of the belt, ◅ 500H: REPLACE: ALTERNATOR/FAN BELT.

- Open the left-hand turntable cover.
- Check the condition of the belt (1). Ensure there are no cracks or signs of wear.
- Check the belt tension between the crankshaft pulley and the alternator pulley:
  - Apply pressure with the thumb = 98 N. The clearance (A) must be between 7 mm and 9 mm to be correct.
- Adjust if necessary:
  - Loosen the screws (2).
  - Adjust the belt tension by swivelling the alternator.
  - Tighten the screws (2).
  - Check the belt tension again.
- Close the left-hand turntable cover.



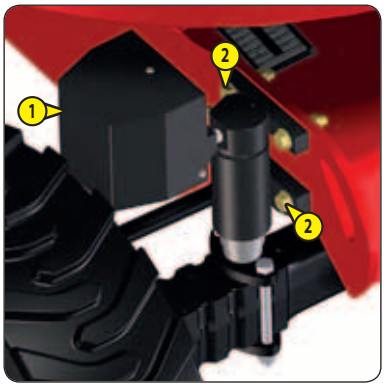
CHECK — Tightening of the fixing screws for the oscillating cylinders (OPTION)

⚠ IMPORTANT ⚠

Failure to follow this instruction may result in the machine tipping over.

The tightening of the screws should be checked at the latest after the first 50 hours of service, then every 250 hours of service.

- Remove the right and left covers (1).
- Check the tightening torques for all the screws (2), left and right-hand sides:
  - 341 N ± 68 N
- Refit the right and left covers.



CHECK — Tightening of the fixing screws for the axles

⚠ IMPORTANT ⚠

Failure to follow this instruction may result in the machine tipping over.

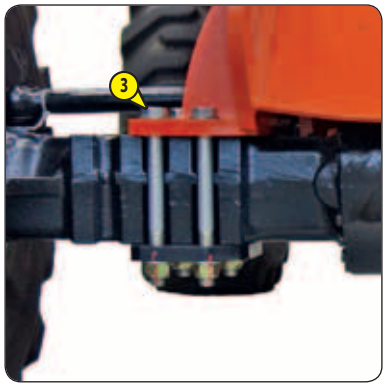
The tightening of the screws should be checked at the latest after the first 50 hours of service, then every 250 hours of service.

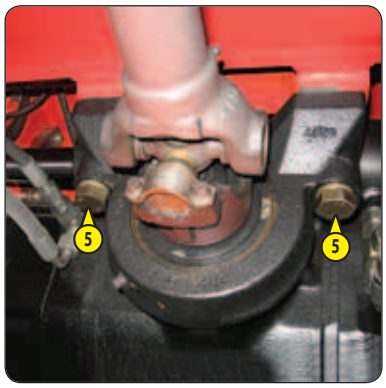
WITHOUT OSCILLATING FRONT AXLE OPTION:

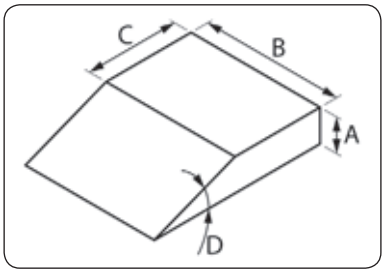
- Check all the fixing screw tightening torques:
  - (1) (Front axle, left and right sides) = 341 N ±68 N
  - (2) (Front axle, left and right sides) = 341 N ±68 N
  - (3) (Rear axle, left and right sides) = 341 N ±68 N

WITH OSCILLATING FRONT AXLE OPTION:

- Check all the fixing screw tightening torques:
  - (3) (Rear axle, left and right sides) = 341 N ±68 N
  - (4) (Front axle, left and right sides) = 341 N ±68 N
  - (5) (Front axle oscillating bearings) = 375 N ±75 N







- Place a sufficiently solid ramp in front of the right front wheel:
  - A = 7.5 cm minimum, 9 cm maximum.
  - B = 60 cm maximum.
  - C = 75 cm minimum, 100 cm maximum.
  - D = 10° minimum, 25° maximum.
- Switch on the platform. Start the engine.
- Enter the basket.
- Raise the jib slightly.
- Drive the platform slowly forwards until the right front wheel is at the top of the ramp. Brake the platform.
- Turn the turntable 90° to the left.
- Extend the telescope for 2 seconds.
- Drive the platform slowly backwards until the wheel is off the ramp. Brake the platform.
- Ask someone on the ground to check the right front wheel and the oscillating cylinders.

Result:

- The right front wheel should be in the upper position and not in contact with the ground.
- The right oscillating cylinder should be retracted and the left one extended.

- Ask the person on the ground to move away.
- Fully retract the telescope.
- As the person on the ground to check the front wheels.

Result:

- The two front wheels must be in contact with the ground.

- Place the turntable in the neutral position.
- Fully lower the jib.
- Get out of the basket.
- Place the same ramp in front of the left front wheel.
- Enter the basket.
- Raise the jib slightly.
- Drive the platform slowly forwards until the left front wheel is at the top of the ramp. Brake the platform.
- Turn the turntable 90° to the right.
- Extend the telescope for 2 seconds.
- Drive the platform slowly backwards until the wheel is off the slope. Brake the platform.
- Ask the person on the ground to check the left front wheel and the oscillating cylinders.

Result:

- The left front wheel should be in the upper position and not in contact with the ground.
- The left oscillating cylinder should be retracted and the right one extended.

- Ask the person on the ground to move away.
- Fully retract the telescope.
- As the person on the ground to check the front wheels.

Result:

- The two front wheels must be in contact with the ground.

- Place the turntable in the neutral position.
- Fully lower the jib.
- Get out of the basket.
- Stop the engine. Power down the platform.

⚠ IMPORTANT ⚠

Refer to the platform repair manual if the overload alarm is not correctly calibrated.

NOTE: The platform is in the transport position. The turntable and the basket should be in the neutral position. The jib is completely lowered.

- Switch on the platform. Start the engine.
- Place a uniformly distributed 253 kg weight in the basket.

Result:

- The overload alarm should go off.
- It must not be possible for the controls to be actioned by the control panels on the ground and in the basket.

- Remove 23 kg to obtain a load of 230 kg in the basket.

Result:

- The overload alarm should stop.
- It should be possible to activate the controls.

- Remove the entire load from the basket.

CHECK Braking

NOTE: The engine has been started. The platform is in the transport position. The turntable and the basket are in neutral position. The jib is completely lowered.

PLACING IN FREEWHEEL MODE

- Perform the freewheel and brake function restoration procedure, ◁ OCCASIONAL OPERATION: PLATFORM WINCHING.

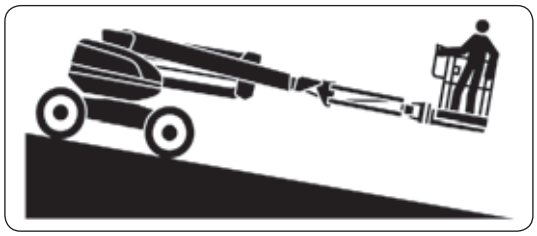
STOPPING DISTANCE ON LEVEL GROUND

- Place a uniformly distributed weight in the basket:
  - Place 230 kg less the operator's weight.
- Drive the platform forward, reach maximum speed and then release the joystick to stop the platform.

Required results:

	Stopping distance
Transport position: HARE speed 	1,400 mm ± 300 mm
Working position: WORKING POSITION speed	200 mm ± 50 mm

CHECKING THE BRAKES ON A SLOPE



NOTE: A load of 230 kg less the weight of the operator is in the basket.

- Place the platform in the transport position.
- Raise the jib slightly.
- Select RAMP speed  or  (depending on version).
- Drive the platform forwards slowly on a 25% (14°) slope, facing it, with the basket at the bottom of the slope.
- Brake the platform on the slope. Stop the engine.

Result:

- The platform must not have moved back after one minute.

- Switch on the engine.
- Drive the platform off the slope to a level surface.
- Fully lower the jib.
- Remove the entire load from the basket.
- Stop the engine. Power down the platform.

⚠ IMPORTANT ⚠

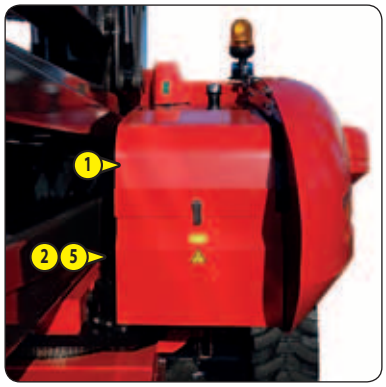
Always secure the raised secondary arm using a suitable lifting device.

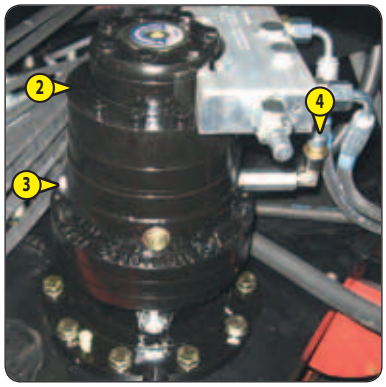
Up to machine no. 01003551 (REGGIANI RIDUTTORI)

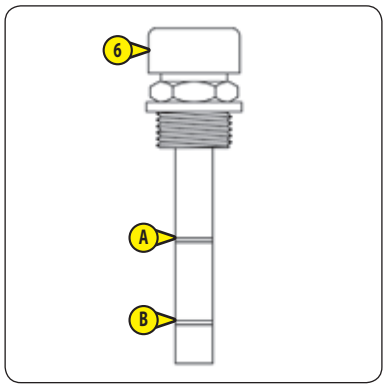
- Switch on the platform. Start the engine.
- Raise the secondary arm as far as possible and secure it using a suitable lifting device.
- Stop the engine. Power down the platform.
- Remove the battery cover (1).
- Locate the turntable rotation motor (2).
- Check no oil is leaking from the turntable rotation motor.
- Locate the level indicator (3). The level is correct when the oil reaches the mark on the level indicator.
- If the level is low:
  - Remove the filler plug (4).
  - Add oil until the correct level is reached, ◁ LUBRICANTS AND FUEL.
  - Refit the filler cap.
- Put the battery cover back on.
- Switch on the platform. Start the engine.
- Fully lower the secondary arm.
- Stop the engine. Power down the platform.

From machine no. 01003552 (BONFIGLIOLI)

- Switch on the platform. Start the engine.
- Raise the secondary arm as far as possible and secure it using a suitable lifting device.
- Stop the engine. Power down the platform.
- Remove the battery cover (1).
- Locate the turntable rotation motor (5).
- Check no oil is leaking from the turntable rotation motor.
- Remove the filler plug (6).
- Clean the gauge on the filler cap with a clean cloth and put it back in place.
- Remove the filler cap. The level is correct when the oil is between the 2 marks (A) and (B).
- If the level is low, add oil until the correct oil level is reached, ◁ LUBRICANTS AND FUEL.
- Refit the filler cap.
- Put the battery cover back on.
- Switch on the platform. Start the engine.
- Fully lower the secondary arm.
- Stop the engine. Power down the platform.







⚠ IMPORTANT ⚠

Use of the platform if there is a malfunction is prohibited.

- Check that the emergency controls are working, ◁ 2 - DESCRIPTION: RESCUE PROCEDURE.

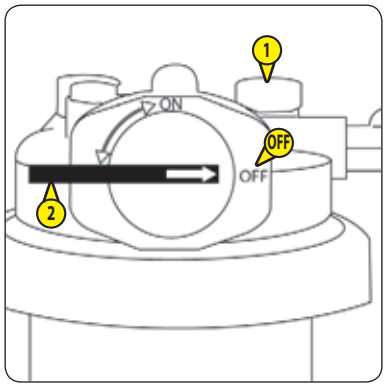
CLEAN Fuel filter cartridge

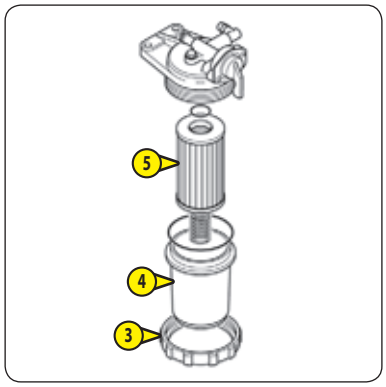
⚠ IMPORTANT ⚠

Never smoke or approach with a flame when the fuel filter cartridge is being cleaned.

Never use the platform without the fuel filter cartridge or if it is damaged. If there is doubt about its condition, ◁ *500H: REPLACE: FUEL FILTER CARTRIDGE.*

- Open the left-hand turntable cover.
- Clean the outside of the fuel filter (1) with a clean cloth.
- Turn the tap (2) to the position (OFF).
- Unscrew the retaining ring (3).
- Remove the tank (4) and the fuel filter cartridge (5). Clean them with clean fuel, ◁ LUBRICANTS AND FUEL.
- Check their condition.
- Check the condition of the fuel hoses and the hose clamps.
- Refit the fuel filter cartridge, tank and retaining ring.
- Bleed the fuel supply circuit ◁ OCCASIONAL MAINTENANCE.
- Close the left-hand turntable cover.



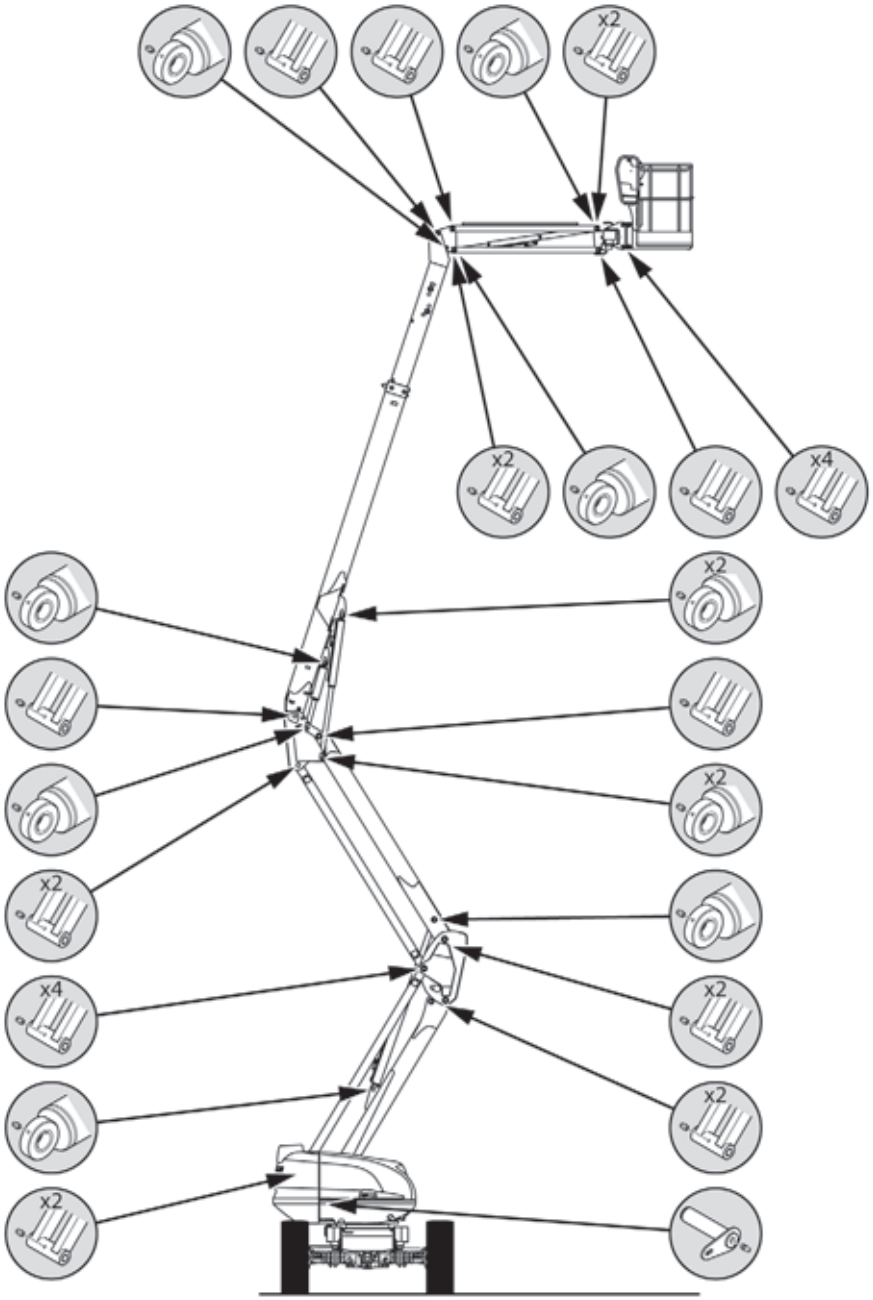


⚠ IMPORTANT ⚠

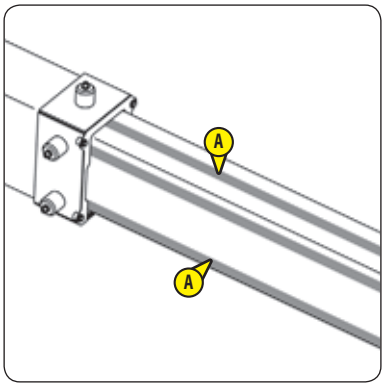
Always secure the raised arms and jib using a suitable lifting device.

- Open the left-hand turntable cover.
- Open the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Switch on the platform. Start the engine.
- Move the main/secondary arms and the jib and tilt the basket to access the various lubricators. Secure the raised arms and the raised jib using a suitable lifting device.
- Remove the caps of the lubrication connectors.
- Inject the lubricant into each lubrication connector, ◁ LUBRICANTS AND FUEL.
- Refit the caps of the lubrication connectors.
- Tilt the basket upwards and downwards until the basket floor is horizontal. Fully lower the main/secondary arms and the jib.
- Stop the engine. Power down the platform.
- Close the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Close the left-hand turntable cover.

KEY
SHAFT 
HUB 
CYLINDER RING 



LUBRICATE — Telescope



⚠ IMPORTANT ⚠

Lubricate the telescope more often when the platform is operating in a dusty environment.

- Switch on the platform. Start the engine.
- Raise the jib slightly.
- Fully extend the telescope.

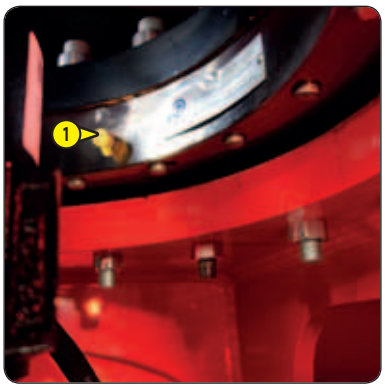
NOTE: Make sure that the basket does not hit the ground. Lift the jib again if necessary.

- Check the sliding surfaces (A) of the pads:
  - Surfaces must be smooth and free from corrosion.
- Lubricate the telescope if necessary, ◁ LUBRICANTS AND FUEL.

NOTE: Extend and retract the telescope several times to spread the lubricant. Remove the excess with a clean cloth.

- Fully retract the telescope.
- Fully lower the jib.
- Stop the engine. Power down the platform.

LUBRICATE — Crown gear



- Remove the right and left frame covers.
- Remove the caps of the 2 lubrication connectors (1) for the crown gear.
- Inject the lubricant into the lubrication connectors, ◁ LUBRICANTS AND FUEL.
- Switch on the platform. Start the engine.
- Turn the turntable 90° to the left or the right and inject lubricant again.
- Refit the caps of the lubrication connectors.
- Refit the right and left frame covers.
- Lubricate the teeth of the crown gear (2), ◁ LUBRICANTS AND FUEL.
- Turn the turntable a full turn to spread the lubricant.
- Place the turntable in the neutral position.
- Stop the engine. Power down the platform.

RESET — Maintenance warning

◁ 50H: RESET: MAINTENANCE WARNING.

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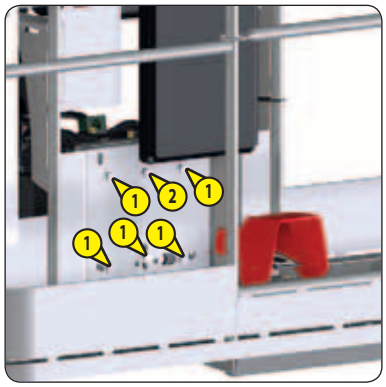
➲❷ 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR

ALSO PERFORM THE DAILY SERVICE AND THE PERIODIC SERVICE AT 250 HOURS OF SERVICE.

CHECK — Basket fixing screw tightening



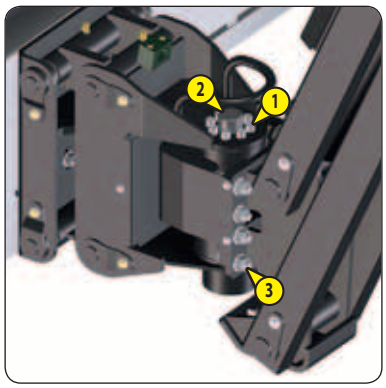
⚠ IMPORTANT ⚠

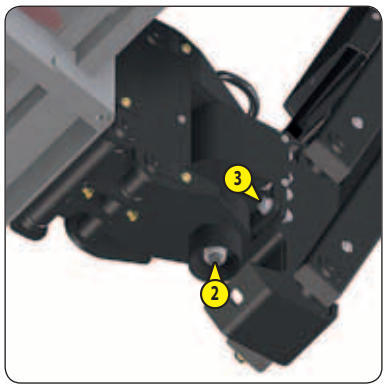
Failure to follow this instruction may result in the basket falling.

The tightening of the screws should be checked at the latest after the first 50 hours of service, then every 500 hours of service.

- Check all the fixing screw tightening torques (1):
  - First version, class 10.9 = 102 N.m ±20 N.m
  - Second version, class 8.8 = 69 N.m ±13.5 N.m
- Check the tightening torque of the fixing screw (2):
  - First version, class 10.9 = 112 N.m ±22 N.m
  - Second version, class 8.8 = 76 N.m ±15 N.m

CHECK — Tightening of the fixing screws on the basket rotation cylinder





⚠ IMPORTANT ⚠

Failure to follow this instruction may result in the basket falling.

The tightening of the screws should be checked at the latest after the first 50 hours of service, then every 500 hours of service.

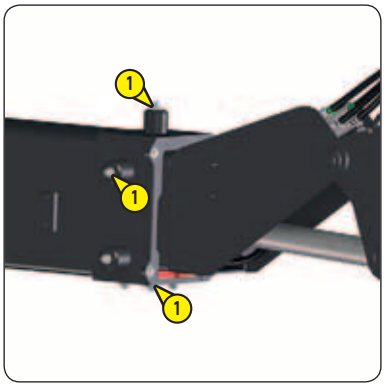
- Check all the fixing screw tightening torques (1):
  - 44 N ± 8.5 N
- Check the tightening torque of the pin (2):
  - 80 N ± 16 N
- Check all the fixing screw tightening torques (3):
  - 111 N ± 22 N

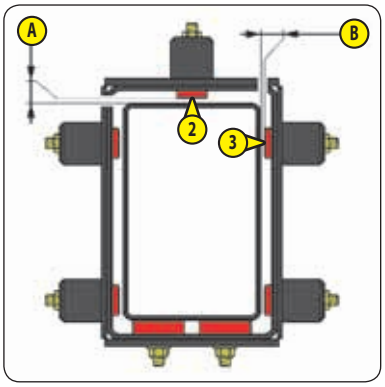
⚠ IMPORTANT ⚠

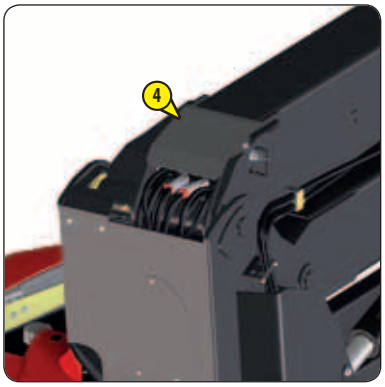
It is recommended that the telescope wedging is adjusted if the clearances are higher than the maximum values, ◁ REPAIR MANUAL.

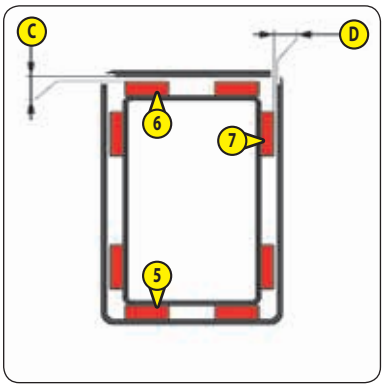
- Check all the wheel nut tightening torques (1):
  - 69 N ± 13.5 N
- Switch on the platform. Start the engine.
- Raise the jib slightly.
- Extend the telescope for 1 second.
- Check the clearances between the pads and the telescope:
  - (A) (upper pad (2)) should be between 1 mm and 1.5 mm.
  - (B) (Side pads (3)) must be between 0.5 mm and 0.75 mm on either side.
- Fully extend the telescope.

  NOTE: Make sure that the basket is not touching the ground. Raise the jib slightly if required.
- Check the clearances (A) and (B) again.
- Fully retract the telescope.
- Fully lower the jib.
- Take off the cover (4).
- Raise the main arm slightly.
- Place several pallets under the basket.
- Slowly lower the main arm until the pads (5) are in contact with the main arm.
- Check the clearances between the pads and the main arm:
  - (C) (Upper pads (6)) must be between 1 mm and 1.5 mm.
  - (D) (Side pads (7)) must be between 0.5 mm and 0.75 mm on either side.
- Raise the main arm slightly.
- Remove the pallets.
- Fully lower the main arm.
- Stop the engine. Power down the platform.
- Put the cover (4) back in place.









CHECK — Tightening of the fixing screws for the crown gear

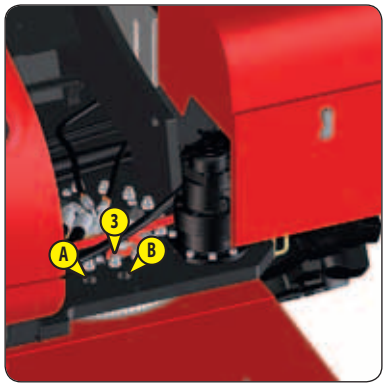
⚠ IMPORTANT ⚠

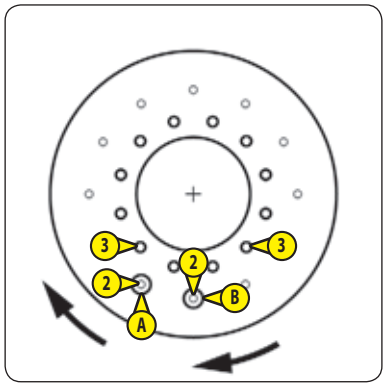
Failure to follow this instruction may result in the machine tipping over.

The tightening of the screws should be checked at the latest after the first 50 hours of service, then every 500 hours of service.

Always secure the raised secondary arm using a suitable lifting device.

- Remove the right and left frame covers.
- Switch on the platform. Start the engine.
- Raise the secondary arm as far as possible and secure it using a suitable lifting device.
- Remove the turntable cover (1).
- Locate the holes (A) and (B).
- Turn the turntable to align the drill holes (A) and (B) with 2 fixing screws (2).
- Check the tightening torque for the first 2 fixing screws (2):
  - 215 N ± 21.5 N
- Turn the turntable to align the drill holes (A) and (B) with the 2 following fixing screws (2) to check their tightening torques.
- Repeat the steps until the tightening torque for each fixing screw (2) has been checked.
- Check the tightening torque for the fixing screws (3):
  - 215 N ± 21.5 N
- Place the turntable in the neutral position.
- Stop the engine. Power down the platform.





CHECK *Tightening of the fixing screws on the turntable rotation motor*

⚠ IMPORTANT ⚠

Failure to follow this instruction may result in involuntary movement of the turntable.
Always secure the raised secondary arm using a suitable lifting device.

NOTE: The left and right chassis covers are removed. The secondary arm is raised and secured. The turntable cover is removed.

Up to machine no. 01003551 (REGGIANI RIDUTTORI)

- Remove the battery cover (1).
- Locate the turntable rotation motor (2).
- Check all the fixing screw tightening torques (3):
  - 70 N ± 10 N
- Put the battery cover back in place.

From machine no. 01003552 (BONFIGLIOLI)

- Remove the battery cover (1).
- Locate the turntable rotation motor (4).
- Check all the fixing screw tightening torques (5):
  - 70 N ± 10 N
- Put the battery cover back in place.

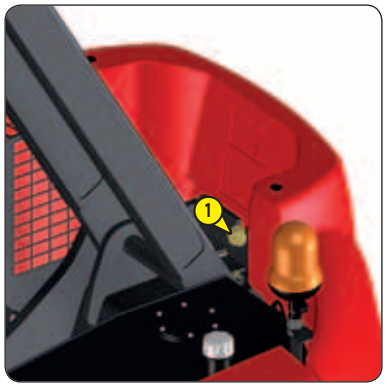
CHECK — Counterweight fixing screw tightening

⚠ IMPORTANT ⚠

Failure to follow this instruction may result in the machine tipping over.
Always secure the raised secondary arm using a suitable lifting device.

NOTE: The left and right chassis covers are removed. The secondary arm is raised and secured. The turntable cover is removed.

- Check the tightening torque of the fixing screw (1):
  - 300 N ± 30 N
- Open the left and right turntable covers.
- Open the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Check the tightening torque of the fixing screws (2), on the left and on the right:
  - 300 N ± 30 N



CHECK — Hydraulic hoses

⚠ IMPORTANT ⚠

Always use a piece of paper or cardboard to check there are no hydraulic oil leaks.
Replace any damaged hydraulic hoses.
Always secure the raised secondary arm using a suitable lifting device.

NOTE: The left and right chassis covers are removed. The secondary arm is raised and secured. The turntable cover is removed. The left and right turntable covers are open. The swivelling engine plate is open.

- Remove the rear chassis cover.
- Check the condition of all the hydraulic hoses and that there are no leaks.
- Refit the rearframe cover.
- Refit the right and left frame covers.
- Close the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Put the turntable cover (1) back in place.
- Switch on the platform. Start the engine.
- Fully lower the secondary arm.
- Check the condition of all the other hydraulic hoses and check that there are no leaks.
- Stop the engine. Power down the platform.

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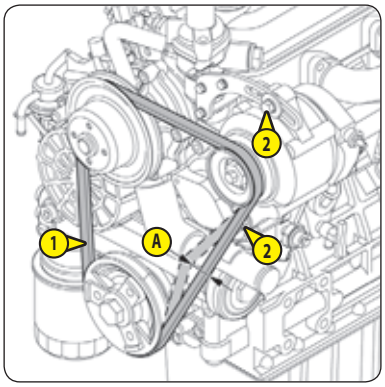
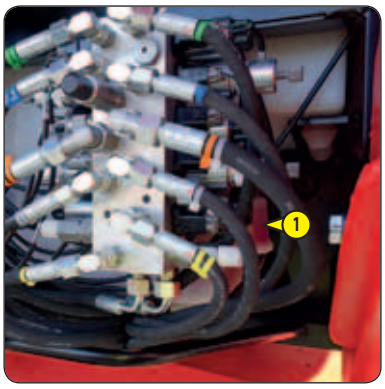
REPLACE — Alternator/fan belt



NOTE: The right and left turntable covers are open. The swivelling engine plate is open.

- Replace the belt (1), ◁ FILTERING ELEMENTS AND BELTS:
  - Loosen the screws (2).
  - Remove the used belt by swivelling the alternator.
  - Replace it with a new belt.
  - Tighten the screws (2).
- Check the belt tension between the crankshaft pulley and the alternator pulley:
  - Apply pressure with the thumb = 98 N. The clearance (A) must be between 7 mm and 9 mm to be correct.
- Adjust if necessary:
  - Loosen the screws (2).
  - Adjust the belt tension by swivelling the alternator.
  - Tighten the screws (2).
  - Check the belt tension again.

REPLACE — Fuel pre-filter from machine no. 905990



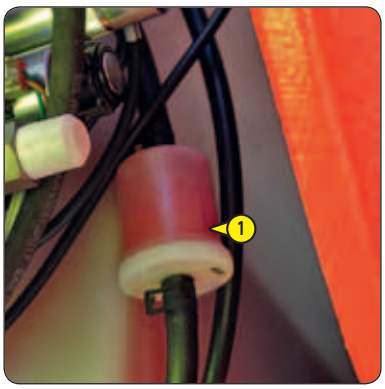
⚠ IMPORTANT ⚠

Never smoke or approach with a flame when the fuel pre-filter is being replaced.

NOTE: The right and left turntable covers are open. The swivelling engine plate is open.

- Locate the fuel pre-filter (1) and put a drain container underneath.
- Replace the fuel pre-filter, ◁ FILTERING ELEMENTS AND BELTS:
  - Remove the used fuel pre-filter.
  - Check the condition of the fuel hoses and the hose clamps.
  - Put the new fuel pre-filter in place. Make sure that the hose clamps are properly in place.

NOTE: Adhere to the fitting direction for the fuel pre-filter shown by an arrow.

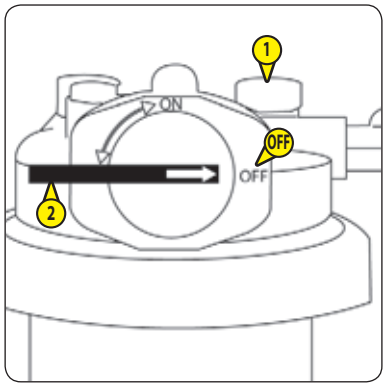


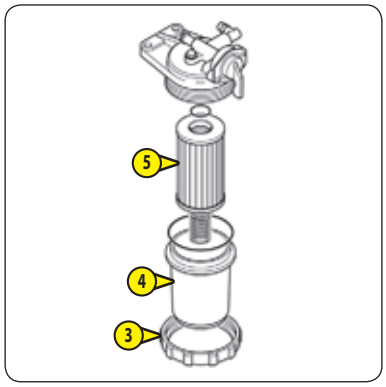
⚠ IMPORTANT ⚠

Never smoke or approach with a flame when the fuel filter cartridge is being replaced.
Never use the platform without the fuel filter cartridge or if it is damaged.

NOTE: The right and left turntable covers are open. The swivelling engine plate is open.

- Clean the outside of the fuel filter (1) with a clean cloth.
- Turn the tap (2) to the position (OFF).
- Replace the fuel filter cartridge (5), ◁ FILTERING ELEMENTS AND BELTS:
  - Unscrew the retaining ring (3).
  - Remove the tank (4) and the used fuel filter cartridge.
  - Clean the tank with clean fuel, ◁ LUBRICANTS AND FUEL.
  - Check its condition.
  - Refit the new fuel filter cartridge, tank and retaining ring.
- Check the condition of the fuel hoses and the hose clamps.
- Bleed the fuel supply circuit ◁ OCCASIONAL MAINTENANCE.





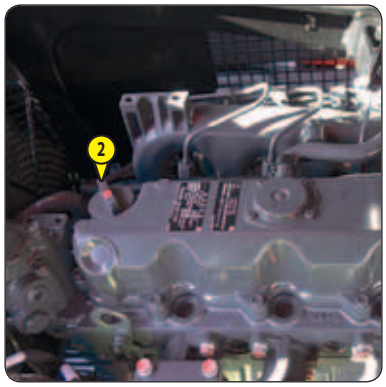
⚠ IMPORTANT ⚠

The replacement of the engine oil and the engine oil filter should be performed at the latest after the first 50 hours of service, then every 500 hours of service.

NOTE: The right and left turntable covers are open. The swivelling engine plate is open.

CHANGE THE OIL

- Switch on the platform. Start the engine.
- Allow it to run for 5 minutes.
- Stop the engine. Power down the platform.
- Locate the drain plug (1) and put a drain container underneath.
- Remove the drain plug and the filler plug (2).
- Wait until the crankcase is completely drained.



REPLACE THE ENGINE OIL FILTER

- Place a drain tank under the engine oil filter (3).
- Replace the engine oil filter, ◁ FILTERING ELEMENTS AND BELTS:
  - Unscrew the used engine oil filter.
  - Lubricate the seal of the new engine oil filter with clean engine oil, ◁ LUBRICANTS AND FUEL.
  - Screw up the new engine oil filter by hand and tighten it by a three-quarter turn using the oil filter spanner.

FILL THE ENGINE

- Clean around the drain hole with a clean cloth.
- Refit the drain plug.
- Fill the engine with new engine oil, ◁ LUBRICANTS AND FUEL.
- Wait for 5 minutes for the oil to settle in the crankcase.
- Refit the filler cap.
- Check the engine oil level, ◁ 10H: CHECK: ENGINE OIL LEVEL.
- Switch on the platform. Start the engine.
- Allow it to run for 5 minutes.
- Check for leaks.
- Stop the engine. Power down the platform.
- Wait for 5 minutes for the oil to settle in the crankcase.
- Check the engine oil level again and top up if necessary.
- Close the swivelling engine plate, ◁ OCCASIONAL OPERATION.

⚠ IMPORTANT ⚠

Never use the platform with a damaged air filter unit. Replace it if there is any doubt about its condition.
Never use the platform without the dry air filter cartridge or if it is damaged.
Never use the platform without the dry air filter safety cartridge or if it is damaged. If there is doubt about its condition, ◁ 1000H: REPLACE: DRY AIR FILTER SAFETY CARTRIDGE.
If there is doubt about the condition of the air intake line, the air suction outlet hose and hose clamps, ◁ 1000H: REPLACE: AIR INTAKE LINE AND AIR SUCTION OUTLET HOSE.

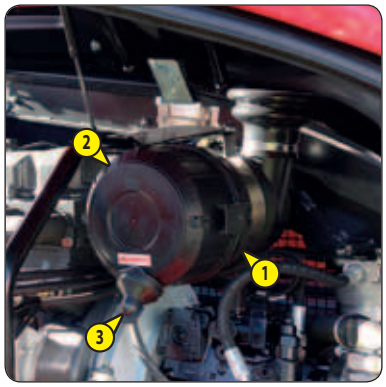
NOTE: The right and left turntable covers are open.

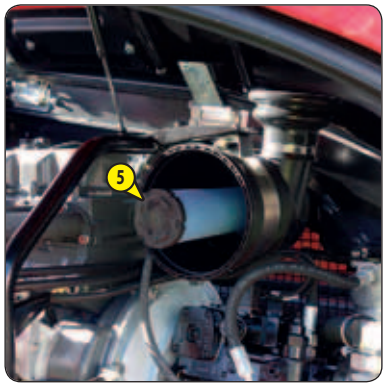
- Clean the outside of the air filter unit (1) with a clean, slightly damp cloth.
- Unlock and remove the cover of the air filter unit (2).
- Clean the inside of the air filter unit cover with a clean, slightly damp cloth.
- Remove the valve (3) and clean it.
- Check the condition of the valve and replace it if it is damaged.
- Put the valve back in place.
- Remove the used dry air filter cartridge (4) pulling it gently to prevent dust dispersion.

NOTE: Do not press the centre of the dry air filter cartridge.

- Check the condition of the dry air filter safety cartridge (5) without taking it out.
- Check the condition of the air filter unit, the air intake line, the air suction outlet hose and the tightening clamps.
- Replace the dry air filter cartridge (4), ◁ FILTERING ELEMENTS AND BELTS:
  - Clean the seal of the new dry air filter cartridge with a clean cloth.
  - Put it in place pushing gently.

  NOTE: Do not press the centre of the dry air filter cartridge.
- Refit the air filter unit cover (2), the valve (3) facing downwards, the marking "TOP" facing upwards.





547399 (01/03/2019)
200 ATJ

⚠ IMPORTANT ⚠

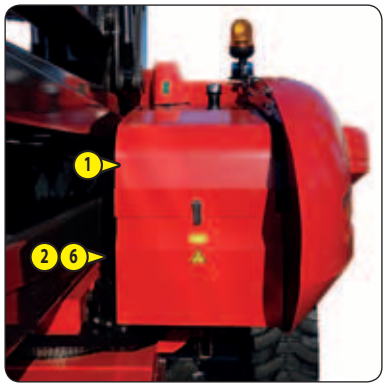
It is recommended that the oil is slightly warm before being changed.

NOTE: The right and left turntable covers are open.

Up to machine no. 01003551 (REGGIANI RIDUTTORI)

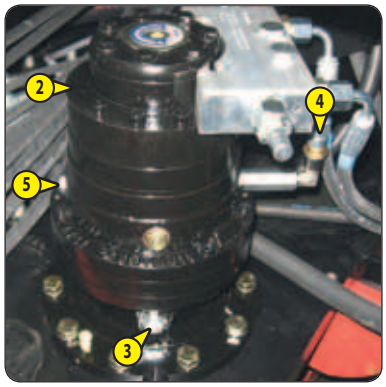
CHANGE THE OIL

- Remove the battery cover (1).
- Locate the turntable rotation motor (2).
- Place a drain tank under the drain plug (3).
- Remove the drain plug and the filler plug (4).
- Wait until the crankcase is completely drained.



FILL THE TURNTABLE ROTATION MOTOR

- Clean around the drain hole with a clean cloth.
- Refit the drain plug.
- Fill the turntable rotation motor with new oil, ◁ LUBRICANTS AND FUEL.
- Locate the level indicator (5). The level is correct when the oil reaches the mark on the level indicator.
- If the level is low, add oil until the correct oil level is reached, ◁ LUBRICANTS AND FUEL.
- Refit the filler cap.
- Put the battery cover back in place.



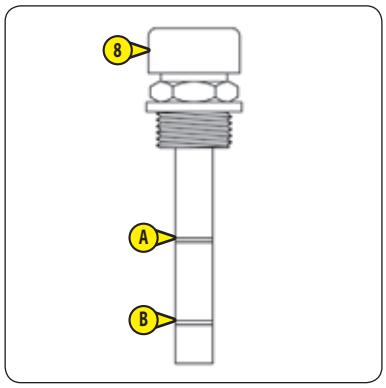
From machine no. 01003552 (BONFIGLIOLI)

CHANGE THE OIL

- Remove the battery cover (1).
- Locate the turntable rotation motor (6).
- Place a drain tank under the drain plug (7).
- Remove the drain plug and the filler plug (8).
- Wait until the crankcase is completely drained.

FILL THE TURNTABLE ROTATION MOTOR

- Clean around the drain hole with a clean cloth.
- Refit the drain plug.
- Fill the turntable rotation motor with new oil, ◁ LUBRICANTS AND FUEL.
- Clean the gauge on the filler cap with a clean cloth and put it back in place.
- Remove the filler cap. The level is correct when the oil is between the 2 marks (A) and (B).
- If the level is low, add oil until the correct oil level is reached, ◁ LUBRICANTS AND FUEL.
- Refit the filler cap.
- Put the battery cover back in place.



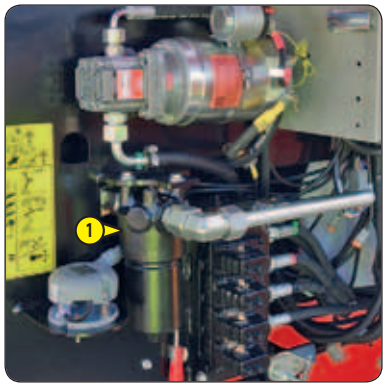
REPLACE — Hydraulic pressure filter cartridge

⚠ IMPORTANT ⚠

Never use the platform without the hydraulic pressure filter cartridge or if it is damaged.

NOTE: The right and left turntable covers are open.

- Clean the outside of the hydraulic pressure filter (1) with a clean cloth.
- Place a drain tank underneath.
- Replace the hydraulic pressure filter cartridge (2), ◁ FILTERING ELEMENTS AND BELTS:
  - Unscrew the hydraulic pressure filter tank.
  - Remove the used hydraulic pressure filter cartridge.
  - Replace it with the new hydraulic pressure filter cartridge.
  - Put the hydraulic pressure filter tank back in place.
- Switch on the platform. Start the engine.
- Lift/lower the main arm, the secondary arm and the jib for several minutes.
- Fully lower the main arm, the secondary arm and the jib.
- Check for leaks.
- Close the right-hand turntable cover panel.
- Stop the engine. Power down the platform.



REPLACE — Hydrostatic transmission filter cartridge

⚠ IMPORTANT ⚠

Never use the platform without the hydrostatic transmission filter cartridge or if it is damaged.

NOTE: The left turntable cover is open.

- Clean the outside of the hydrostatic transmission filter (1) with a clean cloth.
- Place a drain tank underneath.
- Replace the hydrostatic transmission filter cartridge (2), ◁ FILTERING ELEMENTS AND BELTS:
  - Unscrew the hydrostatic transmission filter tank.
  - Remove the used hydrostatic transmission filter cartridge.
  - Replace it with the new hydrostatic transmission filter cartridge.
  - Put the hydrostatic transmission filter tank back in place.
- Close the left-hand turntable cover.
- Switch on the platform. Start the engine.
- Drive the platform forwards and backwards for several minutes.
- Open the left-hand turntable cover.
- Check for leaks.
- Check the hydraulic oil level, ◁ 10H: CHECK: HYDRAULIC OIL LEVEL.
- Close the left-hand turntable cover.
- Stop the engine. Power down the platform.

RESET — Maintenance warning

◁ 50H: RESET: MAINTENANCE WARNING.

➲❸ 1000H - PERIODIC SERVICE - EVERY 1,000 HOURS OF SERVICE OR 2 YEARS

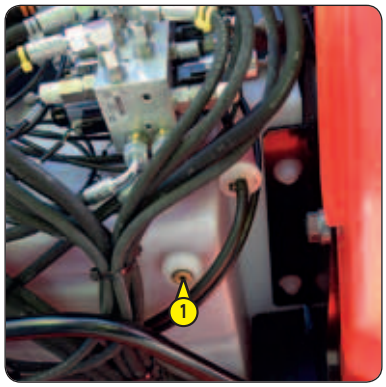
ALSO PERFORM THE DAILY SERVICE AND THE PERIODIC SERVICES AT 250 HOURS AND 500 HOURS OF SERVICE.

CLEAN — Fuel tank

⚠ IMPORTANT ⚠

Never smoke or approach with a flame when the fuel tank is being cleaned.

- Open the right-hand turntable cover.
- Locate the drain plug (1) and put a drain container underneath.
- Remove the drain plug and the tank plug (2).
- Wait until the tank is completely drained.
- Rinse the tank with 10 litres of clean fuel, ◁ LUBRICANTS AND FUEL.
- Clean around the drain hole with a clean cloth.
- Refit the drain plug.
- Fill the tank completely with clean fuel, ◁ 10H: CHECK: FUEL LEVEL.
- Refit the tank cap.
- Bleed the fuel supply circuit ◁ OCCASIONAL MAINTENANCE.
- Close the right-hand turntable cover panel.



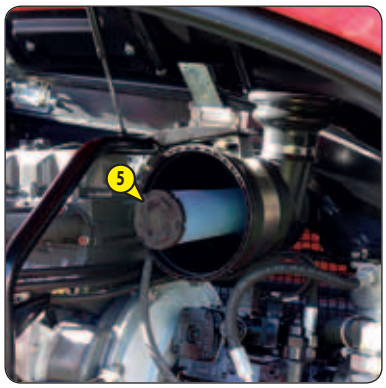
REPLACE — Dry air filter safety cartridge

⚠ IMPORTANT ⚠

Never use the platform without the dry air filter safety cartridge or if it is damaged.

- Open the left-hand turntable cover.
- Follow the instructions described in 500H: REPLACE: DRY AIR FILTER CARTRIDGE and replace the dry air filter safety cartridge (5), ◁ FILTER CARTRIDGES AND BELTS:
  - Remove the used dry air filter safety cartridge pulling it gently to prevent dust dispersion.
  - Block the outlet of the air filter unit with a clean cloth.
  - Clean the inside of the air filter unit with a clean, slightly damp cloth.
  - Remove the cloth from the air filter unit outlet.
  - Clean the seal of the new dry air filter safety cartridge with a clean cloth.
  - Put the new dry air filter safety cartridge in place by pushing it gently.

  NOTE: Do not press the centre of the dry air filter safety cartridge.



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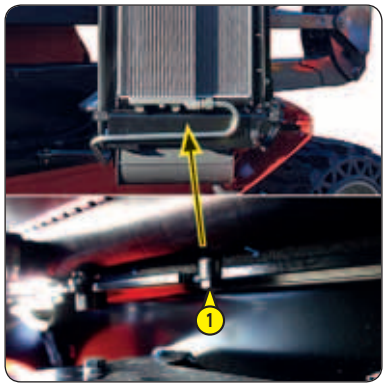
REPLACE — Coolant



⚠ IMPORTANT ⚠

Wait until the engine cools if it has been running for a while.
Do not remove the radiator cap until the engine is completely cooled.

NOTE: The left turntable cover is open.

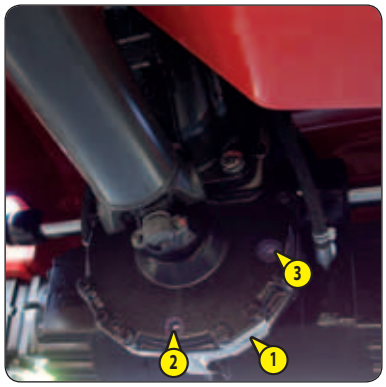
DRAIN THE COOLANT

- Open the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Locate the drain plug (1) under the coolant radiator and put a drain container underneath.
- Remove the drain plug and the radiator cap (2).
- Wait until the coolant has completely drained.

FILL THE COOLING CIRCUIT

- Clean around the drain hole with a clean cloth.
- Refit the drain plug.
- Fill the cooling circuit with new coolant, ◁ LUBRICANTS AND FUEL. The level is correct when the coolant reaches the top of the filling hole.
- Refit the radiator cap.
- Switch on the platform. Start the engine.
- Allow it to run for 5 minutes.
- Check for leaks.
- Stop the engine. Power down the platform.
- Wait until the engine cools.
- Remove the radiator plug .
- Check the coolant level and top up if necessary.
- Refit the radiator cap.
- Close the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Close the left-hand turntable cover.

REPLACE — Reduction gearbox oil



⚠ IMPORTANT ⚠

It is recommended that the oil is slightly warm before being changed.

CHANGE THE OIL

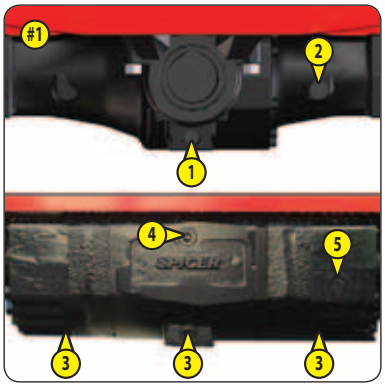
- Locate the reduction gearbox (1) on the rear axle.
- Clean the outside of the reduction gearbox with a clean cloth.
- Place a drain tank under the drain plug (2).
- Remove the drain plug and the filler plug (3).
- Wait until the reduction gearbox is completely drained.

FILL THE ENGINE REDUCTION GEARBOX

- Clean around the drain hole with a clean cloth.
- Refit the drain plug.
- Fill the reduction gearbox with new oil, ◁ LUBRICANTS AND FUEL. The level is correct when the oil reaches the rim of the filling hole.
- Refit the filler cap.

⚠ IMPORTANT ⚠

It is recommended that the oil is slightly warm before being changed.



Up to machine no. 945951: Illustration #1

CHANGE THE FRONT AXLE OIL

- Clean the outside of the axle differential with a clean cloth.
- Place a drain tank under the drain plug 1.
- Remove the drain plug and the filler plug 2.
- Wait until the axle differential is completely drained.

FILL THE FRONT AXLE DIFFERENTIAL

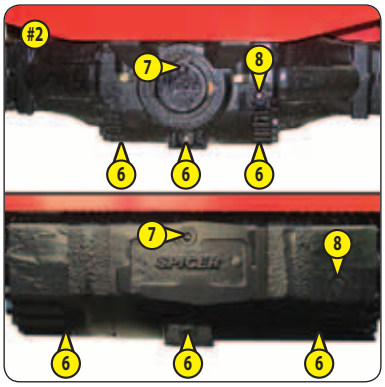
- Clean around the drain holes with a clean cloth.
- Refit the drain plug.
- Fill the axle differential with new oil, ◁ LUBRICANTS AND FUEL. The level is correct when the oil reaches the rim of the filling hole.
- Refit the filler cap.

CHANGE THE REAR AXLE OIL

- Clean the outside of the axle differential with a clean cloth.
- Place a drain tank under the 3 drain plugs 3.
- Remove the 3 drain plugs and the filler plug 4.
- Wait until the axle differential is completely drained.

FILL THE REAR AXLE DIFFERENTIAL

- Clean around the drain holes with a clean cloth.
- Refit the 3 drain plugs.
- Remove the level plug 5.
- Fill the axle differential with new oil, ◁ LUBRICANTS AND FUEL. The level is correct when the oil reaches the rim of the filling hole.
- Refit the level plugs and filler cap.



From machine no. 945952: Illustration #2

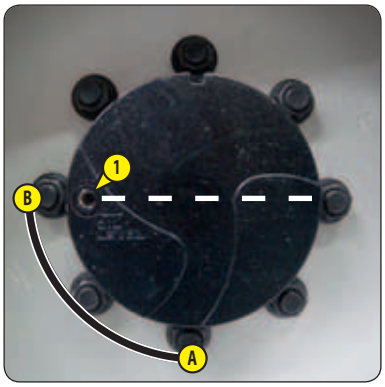
NOTE: Check the oil in the axle differentials one by one.

CHANGE THE OIL

- Clean the outside of the axle differential with a clean cloth.
- Place a drain tank under the 3 drain plugs 6.
- Remove the 3 drain plugs and the filler plug 7.
- Wait until the axle differential is completely drained.

FILL THE DIFFERENTIAL

- Clean around the drain holes with a clean cloth.
- Refit the 3 drain plugs.
- Remove the level plug 8.
- Fill the axle differential with new oil, ◁ LUBRICANTS AND FUEL. The level is correct when the oil reaches the rim of the filling hole.
- Refit the level plugs and filler cap.



⚠ IMPORTANT ⚠

It is recommended that the oil is slightly warm before being changed.

NOTE: Check the oil in the wheel reduction gears one by one.

CHANGE THE OIL

- Clean the outside of the gear reducer with a clean cloth.
- Turn the wheel to put the drain/filler plug (1) in position (A).
- Place a drain tank underneath.
- Remove the drain/filler plug .
- Wait until the wheel reduction gear has completely drained.

FILL THE WHEEL REDUCTION GEAR

- Clean around the drain/filler hole with a clean cloth.
- Turn the wheel to put the drain/filler plug (1) in position (B).
- Fill the wheel reduction gear with new oil, ◁ LUBRICANTS AND FUEL. The level is correct when the oil reaches the rim of the filling hole.
- Refit the drain/filler plug:
  - Tightening torque = 42 Nm ± 7 Nm

REPLACE Hydraulic oil

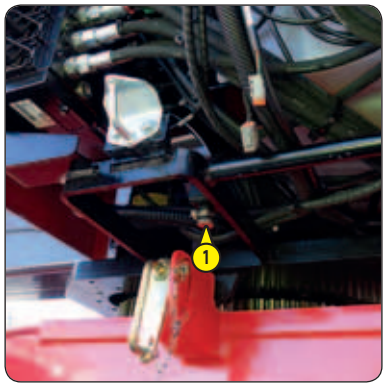
CLEAN Filling filter and suction strainer

⚠ IMPORTANT ⚠

It is recommended that the oil is slightly warm before being changed.
There can be a difference in level of 10 mm to 20 mm between hot and cold oil. It is recommended the level is checked again when the hydraulic oil is hot.
Clean the oil can before adding oil to the hydraulic oil tank.
Use a clean funnel to add oil to the hydraulic oil tank.

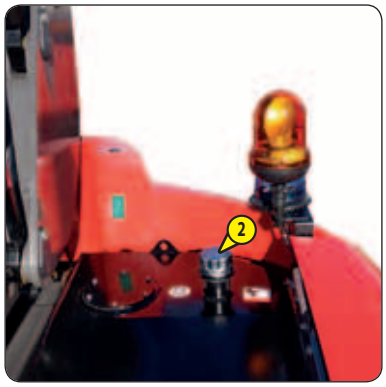
CHANGE THE OIL

- Open the right-hand turntable cover.
- Locate the drain plug (1) and put a drain container underneath.
- Remove the drain plug and the tank plug (2).
- Wait until the tank is completely drained.



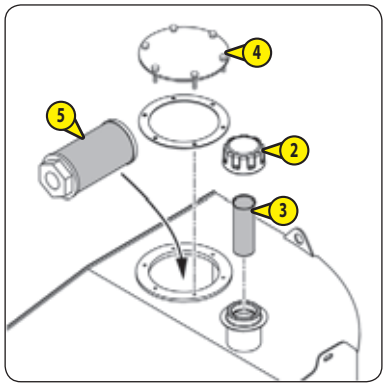
CLEAN THE FILLING FILTER AND SUCTION STRAINER

- Remove the filling filter (3).
- Clean it with compressed air, from the inside out:
  - Maximum pressure = 3 bars. Minimum distance = 30 mm.
- Check its condition and replace it if necessary, ◁ FILTERING ELEMENTS AND BELTS.
- Refit the filling filter.
- Remove the panel (4).
- Remove the suction strainer (5) located inside the tank.
- Clean the suction strainer with compressed air, from the inside out:
  - Maximum pressure = 3 bars. Minimum distance = 30 mm.
- Check its condition and replace it if necessary, ◁ FILTERING ELEMENTS AND BELTS.
- Put the suction strainer and the panel back in place.



FILL THE HYDRAULIC OIL TANK

- Refit the drain plug.
- Fill the tank with new hydraulic oil, ◁ LUBRICANTS AND FUEL. The level is correct when the oil reaches the red dot on the level indicator (6).
- Refit the tank cap.
- Switch on the platform. Start the engine.
- Use the platform controls for 10 minutes.
- Check for leaks.
- Put the platform in the transport position. Put the turntable and basket in the neutral position. Lower the jib completely.
- Check the hydraulic oil level. The level is correct when the oil reaches the red dot on the level indicator.
- Add hydraulic oil if necessary.
- Close the right-hand turntable cover panel.
- Stop the engine. Power down the platform.



CHECK	*Engine silent blocks **
CHECK	*Engine speeds **
CHECK	*Valve lash **
CHECK	*Injectors **
CHECK	*Hydrostatic transmission circuit pressure **
CHECK	*Speeds of hydraulic movements **
CHECK	*Condition of cylinders **
CHECK	*Condition of electric wiring **
REPLACE	*Air intake line and air suction hose **
REPLACE	*Hoses and hose clamps for the coolant radiator **
REPLACE	*Injection pipes, fuel hoses and the hose clamps **
RESET	*Maintenance warning*

◁ 50H: RESET: MAINTENANCE WARNING.

** Consult your dealer.*

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

ALSO PERFORM THE DAILY SERVICE AND THE PERIODIC SERVICES AT 250 HOURS, 500 HOURS AND 1,000 HOURS OF SERVICE.

CHECK	*Coolant and oil radiators **
CHECK	*Water pump and thermostat **
CHECK	*Injection pump **
CHECK	*Alternator and starter **
CHECK	*Turbocharger **
CHECK	*Hydraulic circuit pressures **
CHECK	*Hydraulic circuit flow rates **
CLEAN	*Hydraulic oil tank **
RESET	*Maintenance warning*

◅ 50H: RESET: MAINTENANCE WARNING.

** Consult your dealer.*

547399 (01/03/2019)
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REPLACE — Wheels

⚠ IMPORTANT ⚠

◁ 2 - DESCRIPTION: CHARACTERISTICS and refer to the applicable stickers for information about the total weight of the platform and wheel load.

When lifting the platform with a mechanical or hydraulic jack:

- Always use a suitable jack for lifting the platform.

- Make sure that the 2 wheels on the opposite side to the lift are chocked.

- Position the jack near the wheel to be raised.

- Always use suitable jack stands to secure the raised platform.

⚠ IMPORTANT ⚠

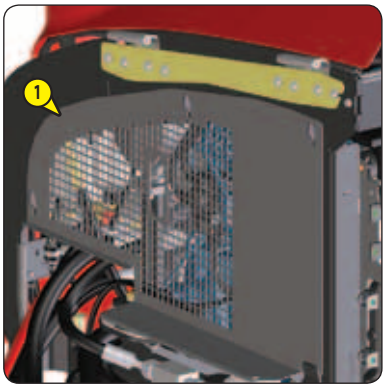
Weight of a wheel = 300 kg

NOTE: We recommend the use of the hydraulic jack (MANITOU Part No. 505507) and the safety jack stand MANITOU Part No. 554772.

- Loosen the wheel nuts slightly.
- Raise the platform.
- Remove the wheel nuts and the wheel.
- Put the new wheel in place.
- Refit the wheel nuts and tighten them slightly with a spanner.
- Lower the platform to the ground.
- Tighten the wheel nuts, ◁ 50H: CHECK: WHEEL NUT TIGHTENING.

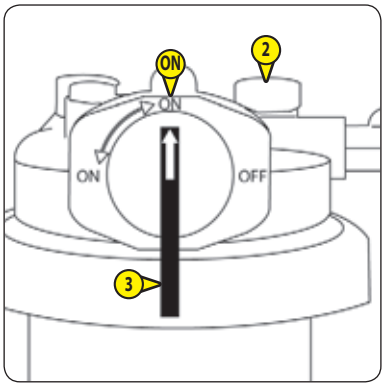
⚠ IMPORTANT ⚠

Never smoke or approach with a flame when the fuel supply circuit is being bled.
Always bleed the fuel supply circuit when:
- The fuel tank has been drained and then filled.
- There has been a fuel breakdown and then the fuel tank has been filled.
- A component of the fuel supply circuit has been cleaned or replaced.
If the engine runs irregularly or stops after bleeding the fuel supply circuit, check the condition of the entire fuel supply circuit.



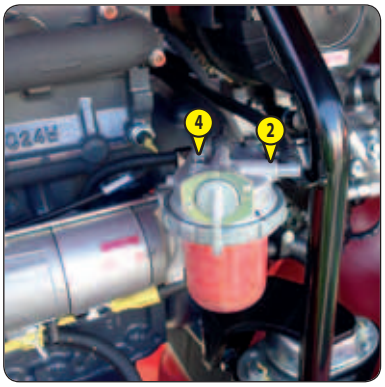
BLEED THE FUEL FILTER

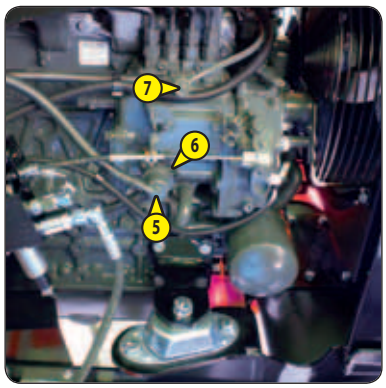
- Open the left-hand turntable cover.
- Open the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Remove the engine grille (1).
- Place a drain tank under the fuel filter (2).
- Turn the tap (3) to the position (ON).
- Unscrew the bleeder screw (4).
- Locate the fuel pump (5).
- Operate the manual pump (6) until fuel runs from the bleed screw. Continue pumping and tighten the bleed screw.



BLEED THE INJECTION PUMP

- Locate the bleeder screw (7) and put a drain container underneath.
- Unscrew bleeder screw.
- Action the manual pump (6) until fuel runs out of the bleeder screw.
- Continue pumping and tighten the bleeder screw.
- Switch on the platform. Start the engine.
- Allow it to run for 5 minutes.
- Check for leaks.
- Stop the engine. Power down the platform.
- Put the engine grille back in place.
- Close the swivelling engine plate, ◁ OCCASIONAL OPERATION.
- Close the left-hand turntable cover.



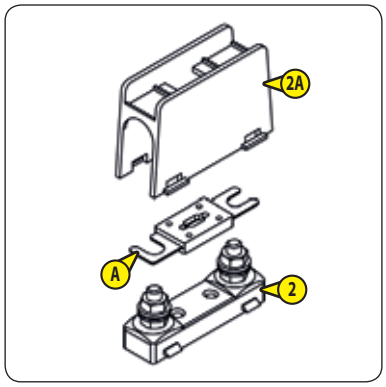


FUSE HOLDER

Up to machine no. 949266

- Remove the battery cover (1).
- Locate the main fuse holder (2).
- Remove the cover (2A).
- Replace the fuse.
- Put the cover back on.
- Put the battery cover back in place.

A	General power supply	250 A fuse



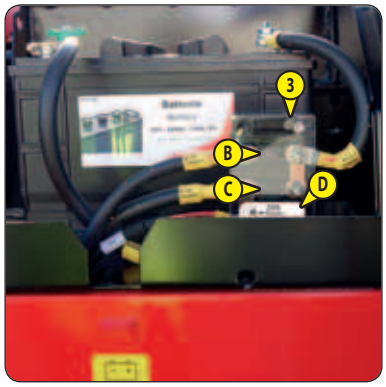
MAIN FUSE BOX

From machine no. 949267

- Remove the battery cover (1).
- Locate the main fuse box (3).
- Remove the cover of the box.
- Replace the appropriate fuse.
- Put the box cover.back in place.
- Put the battery cover back in place.

B	Backup pump	250 A fuse
C	General power supply - up to machine no. 976798	250 A fuse
C	General power supply - from machine no. 976799	350 A fuse

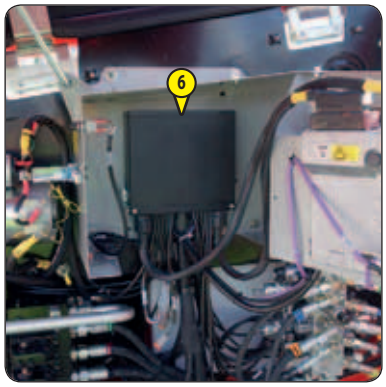
NOTE: Depending on version, ◁ STICKERS: POWER FUSES (D).

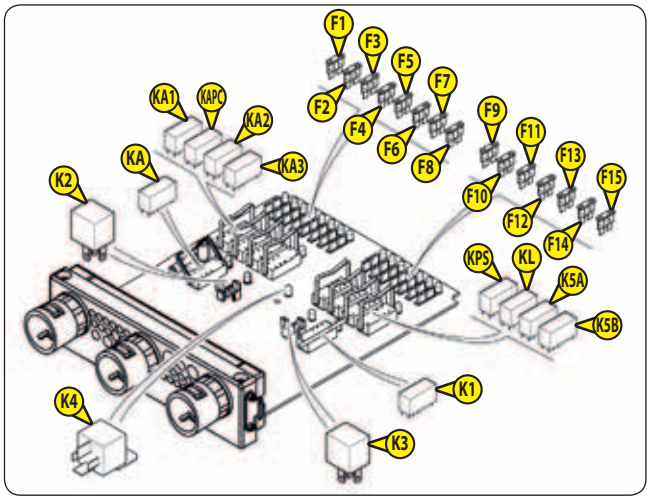


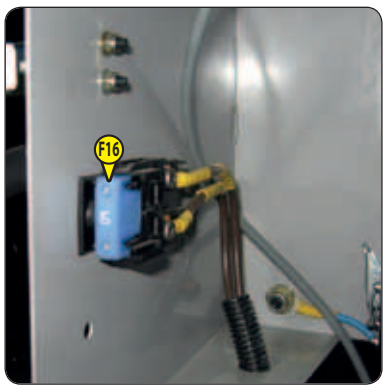
BRC CONNECTION BOX AND GROUND CONTROL PANEL FUSES/RELAYS

Up to machine no. 949266

- Open the right-hand turntable cover.
- Unlock and open the ground control panel (4).
- Remove the panel (5).
- Unlock and remove the connection box cover (6).
- Switch on the access platform. Lights over the fuses (F1) to (F15) indicate their status:
  - On = the fuse is OK.
  - Off = the fuse is blown.
- Switch off the power to the access platform.
- Replace the appropriate fuse/relay.
- Put the connection box cover and the panel back in place.
- Close the ground control panel.
- Close the right-hand turntable cover panel.







F1	ECU supply UPC 30	30 A fuse
F2	Timer relay power supply function PVPX	1 A fuse
F3	External power supply BRC	5 A fuse
F4	Basket control panel power supply	7.5 A fuse
F5	Interface screen power supply CEK 20	1 A fuse
F6	Ignition switch	1 A or 5 A fuse (depending on version)
F7	Engine speed electrovalve + starter relay control	30 A fuse
F8	Backup pump and electrovalve power supply PVPX	3 A fuse
F9	Ground protection BRC	30 A fuse
F10	Interface screen ground protection CEK 20	1 A fuse
F11	Basket control panel ground protection	5 A fuse
F12	ECU Computer ground protection UPC 30	5 A fuse
F13	Interface screen power supply CEK 20	1 A fuse
F14	Basket control panel power supply	1 A fuse
F15	ECU supply UPC 30	1 A fuse
F16	The preheat power supply	60 A fuse
K1	Engine immobiliser	12 V relay
K2	Engine speed	12 V relay
K3	Engine starter	12 V relay
K4	Engine preheat	12 V relay
KA	Engine shut-down	12 V relay
KA1	Electrovalve PVPX	12 V relay
KAPC	External power supply BRC	12 V relay
KA2	Overload safety	12 V relay
KA3	Overload safety	12 V relay
KPS	Backup pump	12 V relay
KL	Display indicator in the BRC	12 V relay
K5A	Emergency stop	12 V relay
K5B	Emergency stop	12 V relay

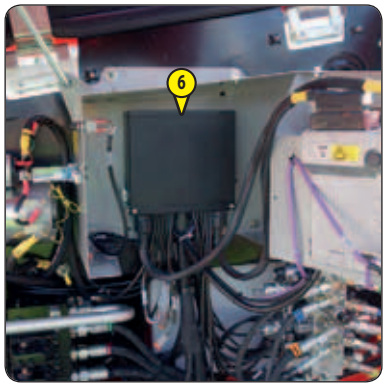
BRC CONNECTION BOX FUSES/RELAYS

From machine no. 949267

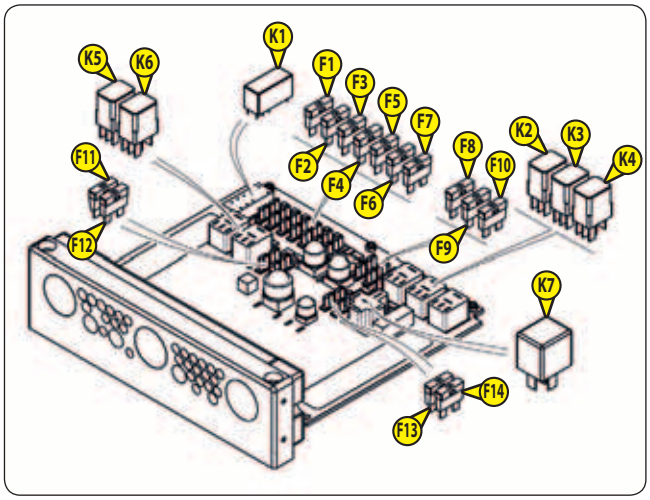
- Open the right-hand turntable cover.
- Unlock and open the ground control panel (4).
- Remove the panel (5).
- Unlock and remove the connection box cover (6).
- Switch on the access platform. Lights over the fuses (F1) to (F14) indicate their status:
  - On = the fuse is OK.
  - Off = the fuse is blown.

NOTE: A single light above the 2 fuses (F8) and (F9) indicate their status.

- Switch off the power to the access platform.
- Replace the appropriate fuse/relay.
- Put the connection box cover and the panel back in place.
- Close the ground control panel.
- Close the right-hand turntable cover panel.



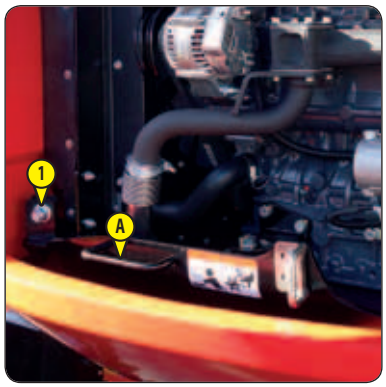
F1	Engine starter button	5 A fuse
F2	ECU supply UPC 30	30 A fuse
F3	ECU supply UPC 30	30 A fuse
F4	Ignition switch	10 A fuse
F5	Basket control panel power supply	10 A fuse
F6	Basket working light option	10 A fuse
F7	Interface screen power supply CEK 20	5 A fuse
F8	Glow plug	30 A fuse
F9	Glow plug	30 A fuse
F10	Engine starter	30 A fuse
F11	ECU supply UPC 30	10 A fuse
F12	Ground	30 A fuse
F13	Ground	30 A fuse
F14	External power supply	5 A fuse
K1	Overload safety	12 V relay
K2	Engine start control	12 V relay
K3	Engine shut-down	12 V relay
K4	Engine immobiliser	12 V relay
K5	Emergency stop	12 V relay
K6	Emergency stop	12 V relay
K7	Engine preheat	12 V relay



USE — Swivelling engine plate

⚠ IMPORTANT ⚠

Always use the handle (A) to open and close the swivelling engine plate.
Make sure that the guardrail is properly locked in position (III) before working on the platform.

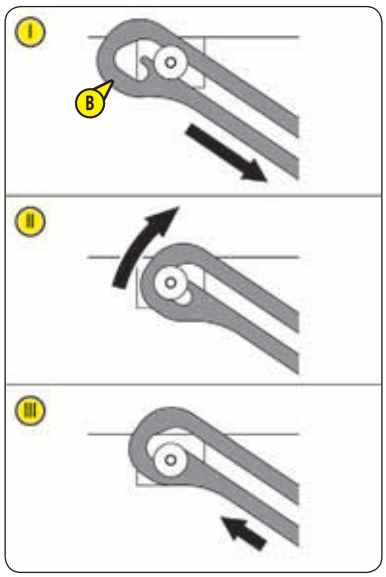


OPEN THE SWIVELLING ENGINE PLATE

- Open the left-hand turntable cover.
- Remove the screw, nut and washer (1).
- Pull on the handle (A) to open the engine plate.
- Locate the guardrail (B). Make sure that it is properly locked in position (III), refer to steps (I), (II) and (III) of the illustration.

CLOSE THE SWIVELLING ENGINE PLATE

- Unlock the safety slide (B) in the reverse order of the procedure for locking it.
- Push on the handle (A) to refit the swivelling engine plate.
- Refit the screw, nut and washer (1).
- Close the left-hand turntable cover.

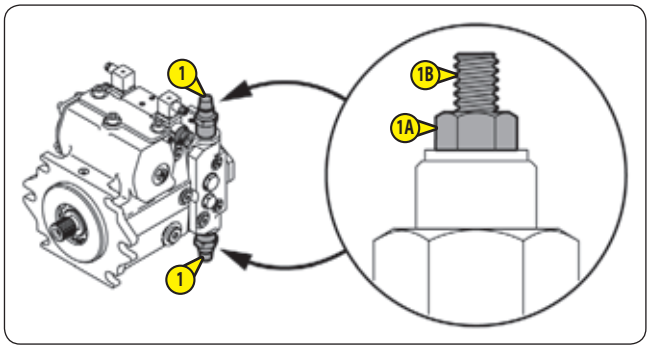


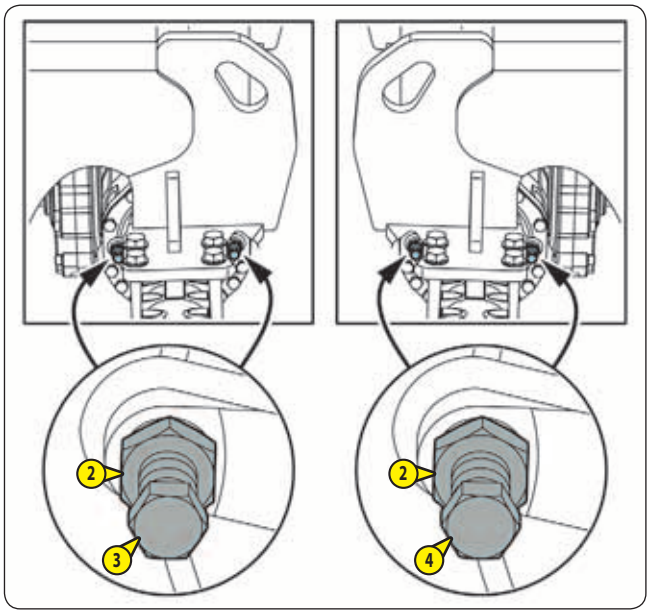
⚠ IMPORTANT ⚠

Before putting the platform into freewheel:
- The platform must be on a level surface.
- The wheels must be chocked.
The basket must be empty when the platform is being winched.

FREEWHEEL AND WINCH

- Attach the winch to the platform's lashing points, ◁ 2 - DESCRIPTION: STICKERS: LASHING POINTS.
- Bypass the hydrostatic circuit:
  - Open the left-hand turntable cover.
  - Locate the hydrostatic pump and the 2 pressure relief valves (1).
  - Loosen the nuts (1A). Tighten the screws (1B) to the hard spot and then tighten them a half turn more.
  - Tighten the nuts (1A): Tightening torque 22 Nm.
  - Close the left-hand turntable cover.
- Loosen the rear axle brakes:
  - Locate the 2 screws (3) and the 2 screws (4) to the left and right of the rear axle.
  - Loosen the 2 locknuts (2) by about 8 mm.
  - Tighten the screws (3) and (4) by hand to the hard spot.
  - Tighten the 2 screws alternately (3) by a quarter turn each time until you have gone all the way round.
  - Tighten the 2 screws alternately (4) by a quarter turn each time until you have gone all the way round.
- Make sure the route is free of any obstruction.
- Remove the chocks from the wheels.
- Winch the platform slowly.
- Chock the wheels when the platform is in the desired position.





PUT THE BRAKES BACK INTO ACTION

- Put the rear axle brakes back into action:
  - Loosen the 2 screws alternately (3) by a quarter turn each time until you have gone all the way round.
  - Loosen the 2 screws alternately (4) by a quarter turn each time until you have gone all the way round.
  - Unscrew the 4 screws (3) and (4) completely.
  - Change the 4 seals (5).
  - Lubricate the screws (3) and (4) with MANITOU BLACK MULTI-PURPOSE LUBRICANT (◁ LUBRICANTS AND FUEL) and put them back in place.
  - Adjust the distance between the body of the axles and the screw heads = 40 mm ±0.5 mm.
  - Tighten the 4 locknuts (2) and check the distances between the body of the axle and the screw heads.
- Put the hydrostatic circuit back into action:
  - Open the left-hand turntable cover.
  - Unscrew the nuts (1A). Loosen the screws (1B) up to the mechanical stop.
  - Tighten the nuts (1A): Tightening torque 22 Nm.
  - Close the left-hand turntable cover.
- Detach the winch and remove the wheel chocks.
- Test the brakes:
  - Remove the right frame cover.
  - Locate the coil (6) on the hydraulic block. Disconnect it.
  - Start the engine and try to drive the platform forwards and backwards.

  Result: The platform should remain stationary.
  - Reconnect the coil (6).
  - Refit the right frame cover.
- Stop the engine. Power down the platform.