



**547397 EN (07/04/2025)**

80 VJR / 80 VJR EVOLUTION  
100 VJR / 100 VJR EVOLUTION

**OPERATOR'S MANUAL**  
**(ORIGINAL INSTRUCTIONS)**



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UPDATED	27/01/2009	CHAPTERS
	28/08/2009	SECTION 3; REMOVAL OF SECTION 4
	31/08/2010	1-4 <-> 1-19; 2-4; 2-5; 2-8; 2-9; 3-5
	22/11/2010	2-33
	01/02/2015	EVOLUTION OF EN280
	13/04/2016	2-4; 2-10 <-> 2-13; SECTION 3
	29/06/2016	1-22; 1-23; 1-29; 1-30; 2-3; 2-18; 2-19; 2-26 <-> 2-36; 3-7; 3-12; 3-13
	01/03/2017	SECTION 1; SECTION 2; SECTION 3
	06/10/2017	1-22 <-> 1-24; 2-32; 3-20
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## FOREWORD

### **ABOUT THIS OPERATOR'S MANUAL**

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This operator's manual forms an integral part of this machine and must be kept in the platform's storage compartment at all times.

MANITOU reserves the right to change its models and their equipment without notice. Contact MANITOU for up-to-date information.

This operator's manual provides operators with all the information relating to the safety precautions, usage instructions and maintenance procedures to ensure safe and reliable use of this machine.

Carefully read and understand this instruction manual before using this machine.

This manual has been produced based on the equipment list and technical specifications given at the time of its design. The level of equipment depends on the options chosen and the country of sale.

According to the options and the date of sale, certain items of equipment/functions described in this operator's manual may not be present on the machine.

Descriptions and illustrations are non binding.

### **ANTICIPATED USE**

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This machine is a mobile aerial work platform of the type 3b designed to transport and lift personnel and their tools and equipment to a workplace at height.

MANITOU has ensured that this machine is suitable for use in the standard operating conditions defined in this operator's manual.

### **TECHNICAL INFORMATION BULLETINS**

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The safety of the machine and personnel is essential for MANITOU. The technical information bulletins are written to communicate important safety information, intended for dealers, owners and users of the machine.

This machine must comply with all the relevant technical information bulletins. Contact MANITOU or your dealer to get information on the bulletins concerning your machine.

These technical information bulletins are sent to the owners of the machine. As a result, it is very important to register your machine and ensure that the information is accurate and up to date.

In the event of transfer of ownership of the machine, update the information to guarantee that the technical information bulletins are sent to the new owner.

## **CONTACT THE MANUFACTURER**

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You should contact MANITOU in the following scenarios:

- To report an accident.
- To update the information relating to the current owner.
- For questions about compliance with standards and regulations.
- For questions about machine use and safety.
- For questions about any special application or any modification of the product.

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## **WARNINGS AND SAFETY INSTRUCTIONS**

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The following safety alert is used in this manual to warn you of the risks during use or maintenance of this machine:



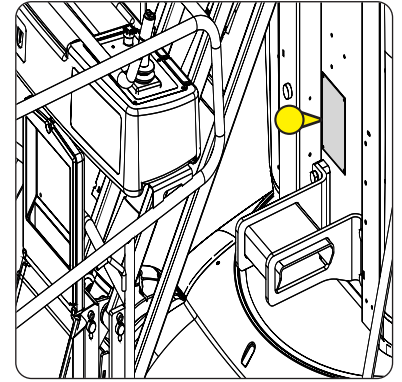
Follow the safety instructions following this warning to avoid any risk of injury, death or equipment damage.

## IDENTIFICATION OF THE MACHINE

The manufacturer's plate is located on the mast pillar.

### 1<sup>ST</sup> FITTING

"Model" Model	
"Serial no." Serial number	
"Year of manufacture" Year of manufacture	
"Empty weight" Unladen weight	
"Power" Power	
"Voltage" Voltage	
"Inside / Outside" Indoor / Outdoor	
"Max load" Maximum load	
"Maximum no. of persons" Maximum number of people	
"Equipment" Equipment	
"Manual forces" Manual forces	
"Max. tilt" Maximum tilt	
"Max. wind speed" Maximum wind speed	
"Ext electrical source" external electrical source	



### 2<sup>ND</sup> FITTING

"Designation" Designation	
"Year of manufacture" Year of manufacture	
"Model year" Model year	
"Unladen mass" Unladen weight	
"Nominal power" Nominal power	
"Voltage" Voltage	
"Inside / Outside" Indoor / Outdoor	
"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	

For any other technical information about your platform, <img alt="arrow icon" data-bbox="468 514 482 530"/> SPECIFICATIONS.

Note: commercial names are used in this operator's manual in order to make it easier to read.

## SECTIONS

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**2 - DESCRIPTION**

**3 - MAINTENANCE**

**80 VJR**  
**80 VJR Evolution**  
**100 VJR**  
**100 VJR Evolution**

Commercial name: 80 VJR

100 VJR





# ***1 - OPERATING AND SAFETY INSTRUCTIONS***

# 1 - OPERATING AND SAFETY INSTRUCTIONS

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## INSTRUCTIONS TO THE COMPANY MANAGER

### THE SITE

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

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

### THE OPERATOR

#### **⚠ IMPORTANT ⚠**

*Only qualified, authorised personnel can use this machine.*

*This authorisation is given in writing by the appropriate person in the establishment with respect to the use of machine 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 machine 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 machine.*
    - *Behaviour resulting from application of the "principle of least effort" when performing a task.*
- *The foreseeable behaviour of such persons as: apprentices, teenagers, handicapped persons, trainees tempted to drive a machine, operators tempted to operate a machine to win a bet, in competition or for their own personal experience.*
  - *The person in charge of the establishment 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).*

### THE MACHINE

#### **A - SUITABILITY OF THE MACHINE FOR THE TASK**

- MANITOU has ensured that this machine is suitable for use under the standard operating conditions defined in this operator's manual, with an **OVERLOAD TEST COEFFICIENT OF 1.25** and an **OPERATIONAL TEST COEFFICIENT OF 1.1**, as stipulated in harmonised standard **EN 280** for **MEWPs** (Mobile Elevating Work Platforms).
- Before commissioning, the company manager must make sure that machine is appropriate for the work to be done, and perform certain tests (in accordance with current legislation).

## B - ADAPTING THE MACHINE TO USUAL ENVIRONMENTAL CONDITIONS

### **⚠ 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.*

### **⚠ IMPORTANT ⚠**

*Machines with diesel engines are designed for outdoor use under normal atmospheric conditions and indoor use in suitably aerated and ventilated premises.*

*Electrical machines are designed for outdoor use under normal atmospheric conditions and for indoor use.*

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

*For use in these areas, specific equipment is available, consult your dealer.*

- In addition to standard equipment mounted on your machine, many options are available, such as: rotating beacon light, worklight, etc. Contact your dealer.
- Take the climate and atmospheric conditions of the site of use into account. Consult your dealer for adapting the lubricants and frost protection.
- Prevent fire risks associated with use in dusty and flammable conditions.
- A machine operating in an area without fire extinguishing equipment must be equipped with an individual extinguisher. Solutions are available, consult your dealer.

## C - MODIFYING THE MACHINE

### **⚠ IMPORTANT ⚠**

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

### **⚠ IMPORTANT ⚠**

*It is strictly forbidden to change the structure and settings of the various components of your machine (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 machine becoming unstable:*

- *Depending on the model, your machine may be supplied with standard wheels or all-terrain wheels. It is PROHIBITED to change from one type of wheel to the other.*
- *ELECTRICAL MACHINES: it is prohibited to replace the batteries with lighter batteries.*

## INSTRUCTIONS

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- The instruction manual should always be in good condition, in the operator's language and placed in the platform storage compartment.
- You must replace the instruction manual, as well as any plates or stickers, if they are no longer legible or are missing or damaged.

## MAINTENANCE

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### **⚠ IMPORTANT ⚠**

*Refer to chapter: MACHINE MAINTENANCE INSTRUCTIONS.*

### **⚠ IMPORTANT ⚠**

*Your machine must be periodically inspected to ensure its continued compliance.*

*The inspection frequency is defined by the legislation in force in the country in which the machine is used.*

- Maintenance or repairs other than those detailed in section 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.
- Example for France: the manager in charge of the establishment using a machine must open and maintain a maintenance log for each machine (order of 2 March 2004).

# INSTRUCTIONS FOR THE OPERATOR

## INTRODUCTION

### **⚠ IMPORTANT ⚠**

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

*Failure to respect the safety and operating instructions, or the instructions for repairing or servicing this machine 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 machine 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 machine itself when you use it.

## GENERAL INSTRUCTIONS

### A – OPERATOR'S MANUAL

#### **⚠ IMPORTANT ⚠**

*Carefully read and understand this instruction manual before using this machine.*

- The instruction manual should always be in good condition, in the operator's language and placed in the platform storage compartment.
- You must replace the instruction 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 forbidden.
- Follow the safety advice and the instructions on the machine's stickers.
- As a safety precaution, a user must be present on the ground when the machine is in use.
- Familiarise yourself with the machine on the terrain where it will be used.
- The machine must also be used in accordance with good engineering practice.
- Do not use the machine if the wind speed is over 45 km/h (12.5 m/s).
- Do not push or pull similar structures or elements off the platform. The maximum manual force is indicated in 2 - INSTRUCTIONS: SPECIFICATIONS and on 1 or more stickers located in the platform.
- Machines 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).*

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

## C - MAINTENANCE

### **⚠ IMPORTANT ⚠**

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

### **⚠ IMPORTANT ⚠**

*For electrical machines, 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.*

- The operator must carry out the daily maintenance (↖ 3 - MAINTENANCE) before using the machine in his place of work.
- The operator must immediately advise his superior if his machine 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 machine 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 machine 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.

## D - MODIFYING THE MACHINE

- ↖ INSTRUCTIONS TO SITE MANAGER: ↖ C - MODIFYING THE MACHINE.

## E - GROUND LINK

- MACHINES WITHOUT OSCILLATING AXLE (ACCORDING TO MODEL)

### **⚠ IMPORTANT ⚠**

*The frame is rigid, so the machine can bear on only three wheels.*

- MACHINES WITH OSCILLATING AXLE (ACCORDING TO MODEL)

### **⚠ IMPORTANT ⚠**

*The oscillating axle enables the machine to bear on four wheels when in transport position (within the limits of the axle's oscillation).*

*When moving in the working position, the oscillating axle is locked (the frame is stiff) so the machine may bear 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):
  - Excessive load in the platform.
  - Tilting of the frame beyond the authorised limits.
  - Blocking of the oscillating axle (according to model).
  - Slack or broken telescope cable (according to model).

### A - BEFORE USING THE MACHINE

- Perform the daily maintenance (☞ 3 - MAINTENANCE).

### B - DRIVER'S CAB LAYOUT

- Whatever their experience, operators are advised to familiarise themselves with the position and operation of the control panels before putting the machine into operation.
- Do not get into or out of the platform until it is fully lowered.
- Always get into and out of the platform through the gate or using the sliding mid-rails (depending on the model).
- Always get in and out of the platform facing into the platform.
- Always use both hands and one foot or both feet and one hand to get in and out of the platform.
- Make sure that the sliding mid-rails (depending on the model) are in the low position and that the gate is closed properly (depending on the model) before using this machine.
- Do not attach the sliding mid-rails in the high position.
- MANITOU strongly recommends wearing a safety harness attached to a lashing point in the platform, ☞ 2 - DESCRIPTION. Wearing a safety harness or other personal fall protection may be mandatory, comply with the local, government and national regulations in force, the employer's safety rules and the rules for work sites.
- The safety harness or other personal fall protection must comply with the local, government and national regulations in force. They must be inspected in accordance with the regulations in force.
- Safety helmets must be worn.
- Wear suitable clothing for driving the machine; do not wear baggy clothes.
- Never operate the machine 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 machine. 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 platform.
- The control units must never in any event be used for any other than their intended purposes (e.g. for getting in or out of the platform, as a coat hook, etc.).
- The machine must not be fitted with unauthorised attachments that increase the unit's wind load.
- Do not use ladders or improvised structures in the platform to gain extra height.
- Do not climb onto the platform railings to gain extra height.

## C - ENVIRONMENT

### **⚠ IMPORTANT ⚠**

*If the platform must remain stationary over a structure for a long period, there is a risk that the platform 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 platform and the structure and readjust if necessary.*
- *If possible use the machine at an oil temperature as close as possible to ambient temperature.*

### **⚠ IMPORTANT ⚠**

*It is forbidden to use the machine close to electricity cables. Maintain the specified safe distances.  
You must consult your local electrical agency.*

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

*If the machine comes into contact with electrical cables, press the Emergency Stop button.*

*Call for help, warn people on the ground not to touch the machine, and ask them to switch off or get somebody to switch off the power supply to the cables.*

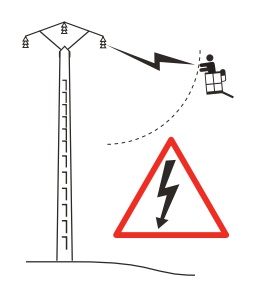
### **⚠ IMPORTANT ⚠**

*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 machine's stability.*

- Comply with site safety regulations.
- The machine can be manoeuvred from the ground: ensure that you forbid access.
- If you have to use the machine in a dark area or at night, make sure it is equipped with working lights.
- The machines 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 platform or on any part of the lifting apparatus is strictly forbidden.
- When operating, ensure that there is no one or anything impeding the machine's progress and operation.
- When raising the platform, ensure that nothing/nobody is impeding the machine's operation and do not perform any inappropriate manoeuvres.
- Do not allow anybody to come near the working area of the machine or pass beneath the lifting structure or beneath the platform. To ensure this, mark out your working area.
- Driving on a slope:
  - Adjust the machine speed with the proportional control handle.
  - Make sure that the slope is not steeper than the maximum slope for the machine (↙ 2 - DESCRIPTION).
- Take into account the machine's dimensions and its load before trying to negotiate a narrow or low passageway.
- Never move onto loading ramps without having first checked:
  - That they are suitably positioned and made fast.
  - That the vehicle to which it is connected (trailer, wagon, etc.) cannot move.
  - That they are suitable for the size and weight of the machine (↙ 2 - DESCRIPTION).
  - That the slope is not steeper than the maximum slope for the machine (↙ 2 - DESCRIPTION).
- Never move onto a foot bridge, floor or freight lift without being certain that they are suitable for the size and weight of the machine 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 platform. If necessary, add sufficient wedging under the stabilisers.
- Do not attempt any operations outside the machine's capabilities.
- Ensure that any equipment and materials loaded onto the platform (pipes, cables, containers, etc.) cannot fall out. Do not pile this equipment and these materials to the point where it is necessary to step over them.

- Keep all body parts, conductive objects or parts of the machine a safe distance from power lines or live components, unless the local, government and national regulations in force, the employer's safety rules or the rules for work sites are stricter in terms of the distance required.
- Take into account the movement of the platform and the swinging or sagging of the power lines.

U = RATED VOLTAGE (KILOVOLTS)	SAFETY DISTANCE (METRES)
U < 50	3
50 < U < 200	5
200 < U < 350	6
350 < U < 500	8
500 < U < 750	11
750 < U < 1,000	14



The diagram illustrates a worker on a platform near a power line. A lightning bolt symbol indicates a warning of electrical hazard. A red triangle with a lightning bolt inside is a standard warning sign for high voltage.

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

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

## E - STARTING MACHINES WITH A DIESEL ENGINE

### **⚠ 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: <img alt="document icon" data-bbox="218 128 232 142"/> 2 - DESCRIPTION.
- 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.

## F - SWITCHING ON ELECTRICAL MACHINES

- INSTRUCTIONS: <img alt="document icon" data-bbox="218 202 232 216"/> 2 - DESCRIPTION
- Do not use the machine if the battery or batteries are discharged to the point that movements are slowed down. In certain cases, the machine may stop (<img alt="document icon" data-bbox="362 236 376 250"/> 2 - DESCRIPTION for the charge level not to be exceeded).

## G - DRIVING THE MACHINE

### **⚠ IMPORTANT ⚠**

*Operators should be aware of the risks connected with using this machine, notably:*

*- Risk of losing control.*

*- Risk of the machine becoming unstable.*

*The operator must remain in control of the machine at all times.*

- Do not attempt any operations outside the machine's capabilities.
- Familiarise yourself with the machine on the terrain where it will be used.
- Driving long distances should always be done with the machine in the transport position (<img alt="document icon" data-bbox="728 388 742 402"/> 2 - DESCRIPTION).
- Drive smoothly and adapt the machine's speed to the usage conditions (ground configuration, load in the platform, etc.). Depending on the machine model, select the appropriate speed for the usage conditions (<img alt="document icon" data-bbox="788 422 802 436"/> 2 - DESCRIPTION).
- Keep control of the speed in all circumstances.
- Ensure that the brakes work efficiently, taking into account the braking distances.
- Take extreme care when manoeuvring the machine with the platform raised. 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 loading ramps.
- Machines with a diesel engine: never leave the engine running when the machine is unattended.
- Never leave the machine switched on during the operator's absence.
- Whatever your operating speed, you must reduce the speed as much as possible before stopping.
- The machine should be operated in an area free of any obstructions or danger when the platform is lowered to the ground.
- Pay attention to structures, objects and people when manoeuvring.
- The operator using the machine must be aided on the ground by a person with adequate training.
- Remain within the limits of the machine's movement amplitude (<img alt="document icon" data-bbox="562 712 576 726"/> 2 - DESCRIPTION).
- Do not load the platform if the machine needs to travel on a steep slope.

## H - SHUTTING DOWN THE MACHINE

### **⚠ IMPORTANT ⚠**

*Machines with a diesel engine: before stopping the engine after intensive use, leave the engine idling for a few moments to allow the coolant and oil to gradually lower the temperature of the engine and prevent damage.*

- INSTRUCTIONS: <img alt="arrow icon" data-bbox="218 111 235 125"/> 2 - DESCRIPTION.
- Park the machine on a flat surface.
- Make sure that the machine is not stopped in any position that will interfere with the traffic flow and in particular the machine should not be less than one metre from a railway track.
- Never leave the ignition key in the machine during the operator's absence.
- Close and lock (if applicable) all the machine's covers.
- In the event of prolonged parking on a site, protect the machine from bad weather, particularly from frost. Machines with a diesel engine: check the antifreeze protection level.

## **INSTRUCTIONS FOR WELDING AND BLOW TORCH WORK ON AN EXTERNAL STRUCTURE**

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### **⚠ IMPORTANT ⚠**

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

### **⚠ IMPORTANT ⚠**

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

- Any welding and cutting (blowtorch) work from the platform 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 machine to the ground.
- It is also essential that the external structure to be welded is connected to the earth.
- If the above conditions are observed, the machine 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 socket, including the extension lead if required.
- In all cases, make sure that there are no electric arcs in the platform or on the machine (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 machine's platform; 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 platform's vertical posts.
- Sparks and clippings must not be directed towards the battery or batteries.
- Do not set the blow torch down on the floor of the platform while it is still operating or point it towards the control panel or its power supply harness.

# MACHINE MAINTENANCE INSTRUCTIONS

## GENERAL INSTRUCTIONS

### **⚠ IMPORTANT ⚠**

*Carefully read and understand this instruction manual before working on this machine.*

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

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

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

- Wear clothes suitable for the maintenance of the machine, avoid wearing jewellery and loose clothes. Tie and protect your hair, if necessary.
- Ensure that process materials and of spare parts are disposed in all safely and in an ecological manner.
- Machines with a diesel engine:
  - Make sure the area is adequately ventilated before starting the engine.
  - Before working on the machine: turn off the engine and power down the machine (↖ 2 - DESCRIPTION).
- Electrical machines:
  - Before working on the machine: power down the machine (↖ 2 - DESCRIPTION).

## MAINTENANCE

- Perform the periodic service (↖ 3 - MAINTENANCE) to keep your machine in good working condition. Failure to perform the periodic service may annul the contractual guarantee.

### MAINTENANCE LOGBOOK

- The maintenance operations carried out in accordance with the recommendations given in section 3 - MAINTENANCE and the other inspection, servicing or repair operations or modifications performed on the machine must 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 machine items replaced shall also be indicated.

## LUBRICANT AND FUEL LEVELS

- Use the recommended lubricants and never use contaminated lubricants.
- Machines with a diesel engine:
  - 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 machine with a flame, when the fuel tank is open or is being filled.

## HYDRAULICS

### **⚠ IMPORTANT ⚠**

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

*These operations must only be performed by approved personnel (consult your dealer).*

*HYDRAULIC ACCUMULATOR (depending on the model): it is dangerous to disassemble the hydraulic accumulators and their pipes that may be on your machine. These operations must only be performed by approved personnel (consult your dealer).*

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

## ELECTRICITY

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### **⚠ IMPORTANT ⚠**

*Certain maintenance operations may need electrical accreditation: comply with local, government and national regulations in force.  
After each job, make sure that electrical component protection is put back in place (caps, covers, terminal covers, etc.).*

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

## TILT SENSOR

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### **⚠ IMPORTANT ⚠**

*Some machines are fitted with a tilt sensor attached to the turntable (↖ 2 - DESCRIPTION: CONTROL PANEL AND SAFETY DEVICES ON THE GROUND), always carry out an initialisation after removing/refitting the tilt sensor. Refer to the machine repair manual.*

*Some platforms are fitted with a tilt sensor that is integrated into the ground level control panel (↖ 2 - DESCRIPTION: CONTROL PANEL AND SAFETY DEVICES ON THE GROUND), always calibrate the tilt sensor after removing/refitting or loosening/tightening the ground level control panel, its mounting plates or fixing screws. Refer to the machine repair manual.*

## WELDING ON THE MACHINE

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### **⚠ IMPORTANT ⚠**

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

- Disconnect the battery or batteries before doing any welding on the machine.
- When carrying out electric welding work on the machine, 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 machine is equipped with electronic controls, disconnect them before starting to weld, to avoid the risk of causing irreparable damage to electronic components.

## WASHING THE MACHINE

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### **⚠ IMPORTANT ⚠**

*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.*

- Clean the machine or at least the area concerned before any intervention.
- Close and lock (if applicable) all the machine's covers.
- 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.
- Clean the machine of any traces of fuel, oil or grease.
- After washing:
  - Dry the electrical components.
  - Grease the axles, pins, ring gear, etc.

## IF THE MACHINE IS NOT TO BE USED FOR A LONG TIME

### INTRODUCTION

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#### **⚠ IMPORTANT ⚠**

*Procedures to follow if the machine 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.*

- The recommendations below are intended to prevent the machine from being damaged when it is withdrawn from service for a period longer than 6 months.

### PREPARATION OF THE MACHINE

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- Clean the machine thoroughly.
- Check and repair any leaks of fuel, oil, 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 machine.
- Release the pressure in the hydraulic circuits.

### MACHINES WITH A DIESEL ENGINE: ENGINE PROTECTION

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- Fill the fuel tank (↩ 3 - MAINTENANCE).
- Replace the engine oil and oil filter (↩ 3 - MAINTENANCE).
- 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 belt and store it in a safe place.
- Disconnect the engine cut-off solenoid on the injection pump and carefully insulate the connection.

### ELECTRICAL MACHINES: BATTERY CHARGE

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- 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 MACHINE

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- Protect cylinder rods that will not be retracted from corrosion.
- Wrap the wheels.

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

**⚠ IMPORTANT ⚠**

*Make sure the area is adequately ventilated before starting machines with a diesel engine.*

- Remove the protection from the cylinder rods and wheels.
- Check the hydraulic oil (↖ 3 - MAINTENANCE).
- Machines with a diesel engine:
  - Refit and reconnect the battery.
  - Remove the waterproof adhesive tape from the exhaust outlet.
  - Clean the fuel tank (replace the fuel), replace the fuel filter(s) (↖ 3 - MAINTENANCE).
  - Refit the belt and adjust its tension (↖ 3 - MAINTENANCE).
  - Reconnect the engine cut-off solenoid.
  - Start the engine, following the safety instructions and regulations.
- Perform the daily maintenance (↖ 3 - MAINTENANCE).
- Lubricate the machine completely (↖ 3 - MAINTENANCE).
- Carry out all the lifting system's hydraulic movements right up to the limit switches for each cylinder.

## DISPOSING OF THE MACHINE



*Consult your dealer before disposing of the machine.*

### RECYCLING OF MATERIALS

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#### METALS

- Metals are 100% recoverable and recyclable.

#### PLASTICS

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

#### RUBBER

- 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

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

#### WORN OR DAMAGED PARTS

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

#### USED OIL

- The MANITOU network 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 machines that provide the best performance and limit polluting emissions.

# ***2 - DESCRIPTION***

## 2 - DESCRIPTION

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## CE DECLARATION OF CONFORMITY

This document is a specimen of the CE Declaration of Conformity and includes the contents of the original declaration supplied with the machine.

This specimen and the original document may contain fields that are not applicable to your machine. These fields are left blank if not applicable.

Refer to the original Declaration of Conformity for all data applicable to your machine.

VERSION 1 — 02/2017 EXCLUDING MACHINE N° 965688

### 1) **DÉCLARATION «CE» DE CONFORMITÉ (originale)** **«EC» DECLARATION OF CONFORMITY (original)**

2) Constructeur, *Manufacturer* : **MANITOU BF**

3) Adresse, *Address* : **430, RUE DE L'AUBINIÈRE - 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'AUBINIÈRE - 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* :

**80 VJR EVOLUTION**

**100 VJR EVOLUTION**

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 - LUXEMBOURG**

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* :

**EN 12895**

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* :

1) **DÉCLARATION «CE» DE CONFORMITÉ (originale)**  
**«EC» DECLARATION OF CONFORMITY (original)**

2) Constructeur, *Manufacturer* : **MANITOU BF**

3) Adresse, *Address* : **430, RUE DE L'AUBINIÈRE - 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'AUBINIÈRE - 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* :

**80 VJR EVOLUTION  
100 VJR EVOLUTION**

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* : 2681/5131/XXX/XX/XX/XXXX

9) Organisme notifié, *Notified body* : **BUREAU VERITAS INTERNATIONAL  
61-71- BD DU CHATEAU  
92200 NEUILLY-SUR-SEINE**

**2000/14/CE + 2005/88/CE**

10) Procédure appliquée, *Applied procedure* :

9) Organisme notifié, *Notified body* : **SNCH  
11 ROUTE DU LUXEMBOURG  
5201 SANDWEILER - LUXEMBOURG**

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

12) Mesuré, *Measured* : dB (A)

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

**2014/30/UE**

14) Normes harmonisées utilisées, *Harmonised standards used* :

**EN 12895**

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* :

1) **DÉCLARATION «CE» DE CONFORMITÉ (originale)**  
**«EC» DECLARATION OF CONFORMITY (original)**

2) Constructeur, *Manufacturer* : **MANITOU BF**

3) Adresse, *Address* : **430, RUE DE L'AUBINIÈRE - 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'AUBINIÈRE - 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* :

**80 VJR**

**100 VJR**

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* : 2681/5131/XXX/XX/XX/XXXX

9) Organisme notifié, *Notified body* : **BUREAU VERITAS INTERNATIONAL  
61-71- BD DU CHATEAU  
92200 NEUILLY-SUR-SEINE**

**2000/14/CE + 2005/88/CE**

10) Procédure appliquée, *Applied procedure* :

9) Organisme notifié, *Notified body* : **SNCH  
11 ROUTE DU LUXEMBOURG  
5201 SANDWEILER - LUXEMBOURG**

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

12) Mesuré, *Measured* : dB (A)

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

**2014/30/UE**

14) Normes harmonisées utilisées, *Harmonised standards used* :

**EN 12895**

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* :

1) **DÉCLARATION «CE» DE CONFORMITÉ (originale)**  
**«EC» DECLARATION OF CONFORMITY (original)**

2) Constructeur, *Manufacturer* : **MANITOU BF**

3) Adresse, *Address* : **430, RUE DE L'AUBINIÈRE - 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'AUBINIÈRE - 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* :

**Mobile elevating work platform**

**80 VJR**

**100 VJR**

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* : 2681/5131/XXX/XX/XX/XXXX

9) Organisme notifié, *Notified body* : **BUREAU VERITAS INTERNATIONAL  
8 COURS DU TRIANGLE  
92800 PUTEAUX - FRANCE**

**2000/14/CE + 2005/88/CE**

10) Procédure appliquée, *Applied procedure* : **ANNEXE V**

9) Organisme notifié, *Notified body* :

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

12) Mesuré, *Measured* : dB (A)

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

**2014/30/UE**

14) Normes harmonisées utilisées, *Harmonised standards used* :

15) Normes ou dispositions techniques utilisées, *Standards or technical provisions used* :  
**EN 12895 ; EN ISO 3744**

16) Fait à, *Done at* :

17) Date, *Date* :

18) Nom du signataire, *Name of signatory* :

19) Fonction, *Function* :

20) Société, *Company* :

21) Signature, *Signature* :

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

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

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

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

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

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

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

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

**ga :** 1) « CE » dearbhú comhréireachta (bunaidh), 2) An comhlacht, 3) Seoladh, 4) comhad teicniúil, 5) Déantóir an innill a thuariscítear thíos, 6) Dearbhaionn sé go bhfuil an t-inneall, 7) Go gcoinnn sé le na teoracha seo a leanas agus a trasuimh isteach i ndlí náisiúnta, 8) Le haghaidh innill an agusín IV, 9) Uimhir teastais, 10) Comhlacht a chuireadh i bhfios, 15) caighdeán comhchuíbhíne a úsáidtear, 16) caighdeán eile nó sonraíochtaí teicniúla a úsáidtear, 17) Déanta ag, 18) Dáta, 19) Ainm an tsinitheora, 20) Feidhm, 21) Síniú.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## UKCA DECLARATION OF CONFORMITY

This document is a specimen of the UKCA Declaration of Conformity and includes the contents of the original declaration supplied with the machine.

This specimen and the original document may contain fields that are not applicable to your machine. These fields are left blank if not applicable.

Refer to the original Declaration of Conformity for all data applicable to your machine.

### UKCA DECLARATION OF CONFORMITY

Manufacturer: **MANITOU BF**  
Address: **430, RUE DE L'AUBINIÈRE - BP 10249  
44158 ANCENIS CEDEX - FRANCE**  
Authorized representative: **MANITOU UK  
Ebbleke Industrial Estate - Dorset BH 31 6BB  
Verwood - United Kingdom**

The manufacturer declares that the below described machinery:

**Mobile elevating work platform**

**80 VJR  
100 VJR**

Complies with the following legislation:

**The supply of Machinery (Safety) Regulations 2008, as amended**

The machine is designed for the lifting of persons:

Applied procedure: Type examination by notified/approved body  
Certificate number: 2681/5131/XXX/XX/XX/XXXX  
Dated:  
Approved body: BUREAU VERITAS INTERNATIONAL  
8 COURS DU TRIANGLE  
92800 PUTEAUX - FRANCE

**Noise Emission in the Environment by Equipment  
for use Outdoors Regulations 2001, as amended**

Applied procedure: Schedule 8  
Approved body:

Sound power level:

Measured: dB (A)  
Guaranteed: dB (A)

**Electromagnetic Compatibility Regulations 2016, as amended**

The following designated standards have been addressed:

The following standards or technical guidance have been addressed:

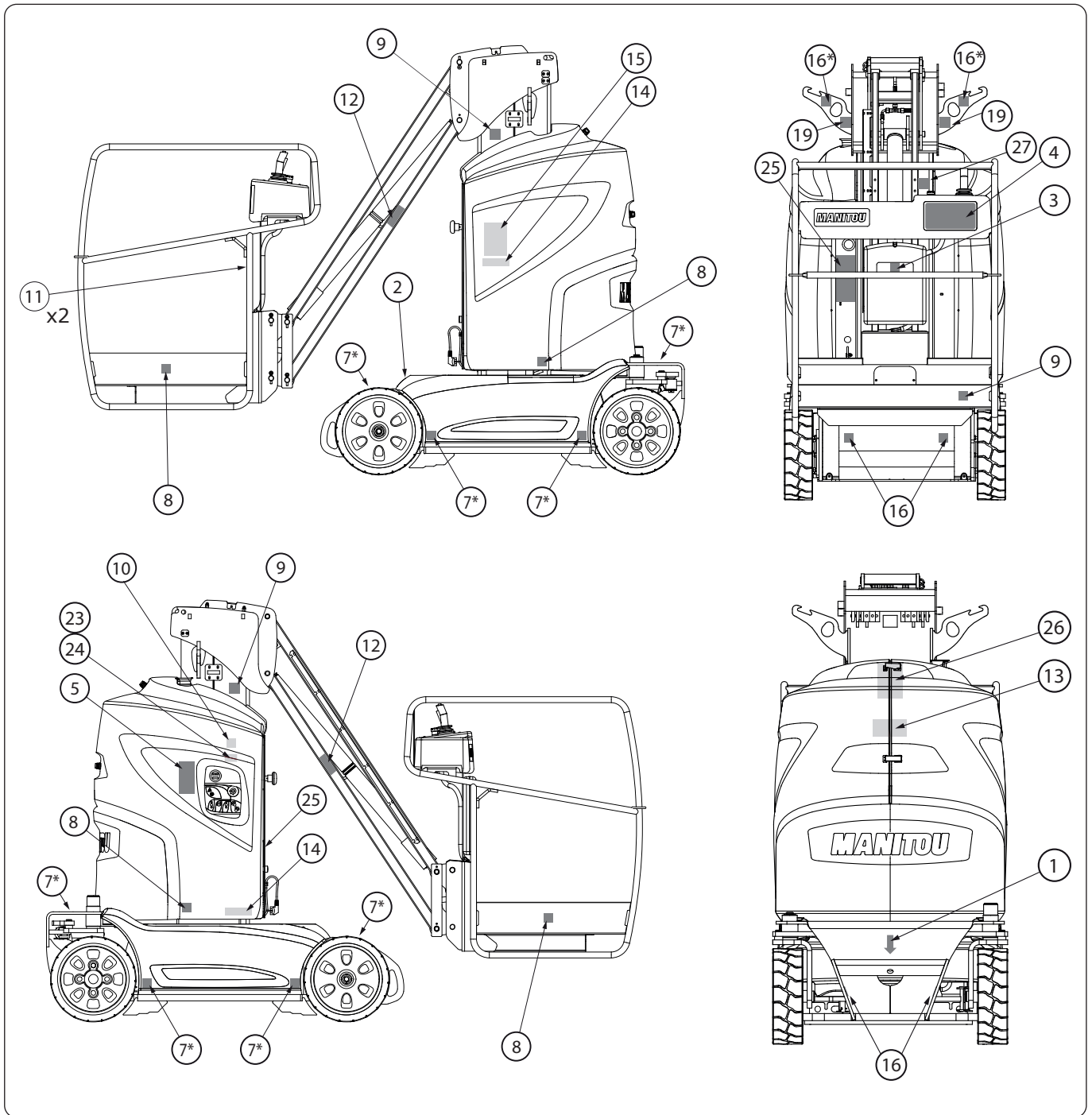
EN 12895 ; EN ISO 3744

At: Date:  
Name of signatory:  
Position:  
Company:  
Signature:

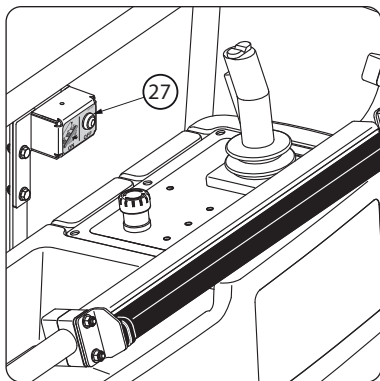
## STICKERS

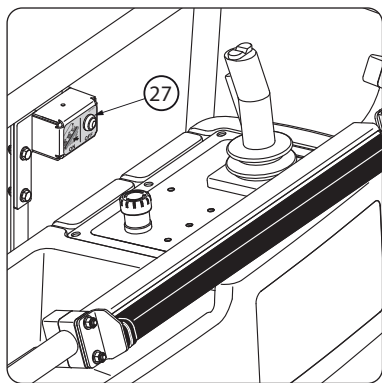
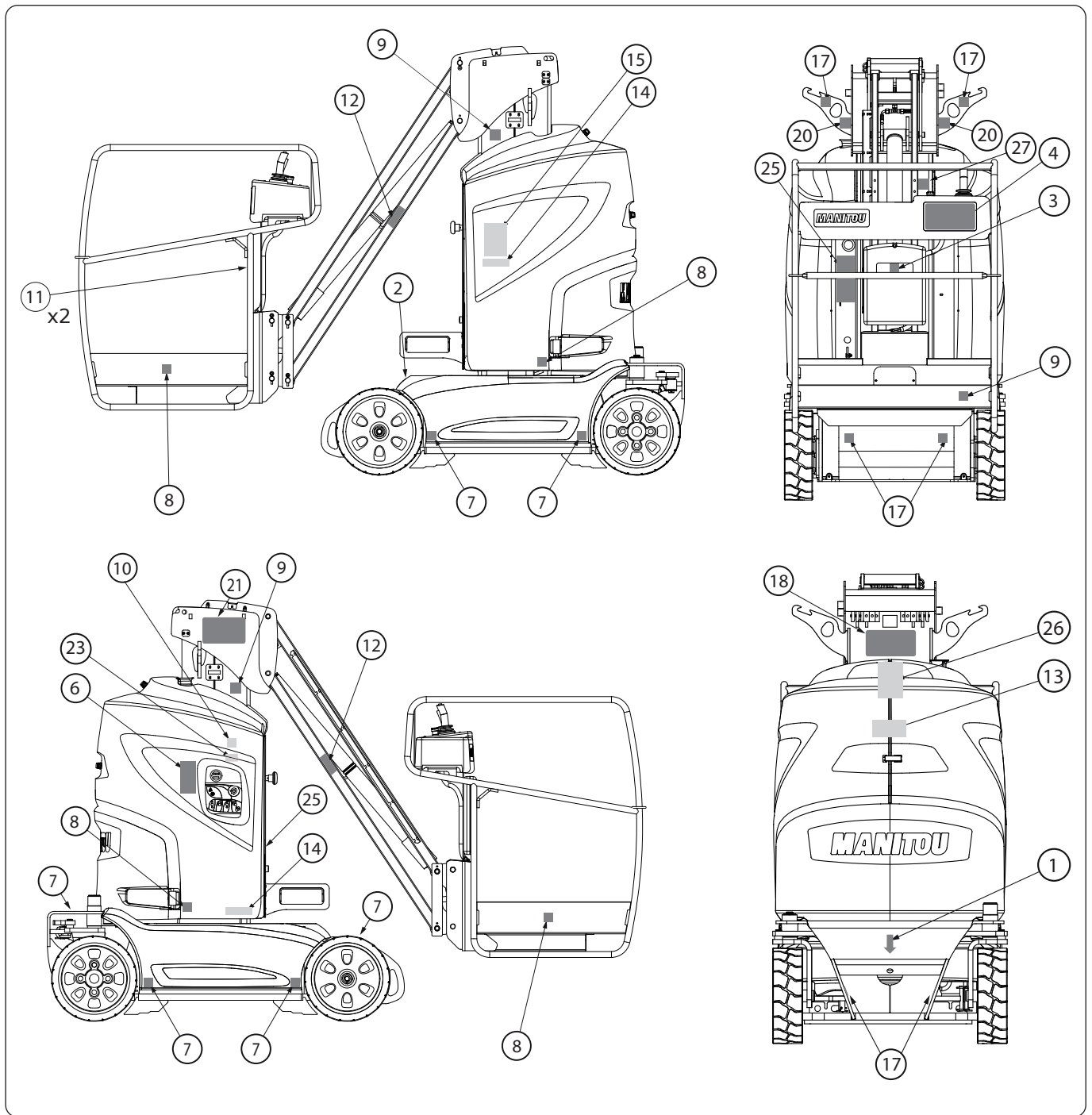
1 - WHITE ARROW .....	Part No. 498327 .....	2-14
2 - BLACK ARROW .....	Part No. 498326 .....	2-14
3 - INSTRUCTIONS LOCATION DEPENDING ON FITTING .....	Part No. 52562839 .....	2-14
4 - BASKET INSTRUCTIONS AND LOAD CAPACITY .....	Part No. 830096 .....	2-14
5 - GROUND SAFETY INSTRUCTIONS 1 <sup>ST</sup> VERSION .....	Part No. 830102 .....	2-15
6 - GROUND SAFETY INSTRUCTIONS 2 <sup>ND</sup> VERSION .....	Part No. 685608 .....	2-15
7 - WHEEL LOAD .....	Part no. 830884 .....	2-15
8 - DANGER OF CRUSHING .....	Part No. 679452 .....	2-15
9 - DANGER - KEEP AWAY .....	Part No. 679450 .....	2-15
10 - DANGER WARNING .....	Part No. 830871 .....	2-16
11 - HARNESS ATTACHMENT POINT .....	Part No. 834438 .....	2-16
12 - SAFETY VALVE .....	Part No. 830123 .....	2-16
13 - MANUAL PUMP LEVER .....	Part No. 830286 .....	2-16
14 - MANUAL MAST CONTROL PROCEDURE .....	Part No. 830100 .....	2-16
15 - MANUAL CONTROL PROCEDURE .....	Part No. 830099 .....	2-17
16 - ANCHORING POINT 1 <sup>ST</sup> VERSION .....	Part No. 598895 .....	2-17
17 - ANCHORING POINT 2 <sup>ND</sup> VERSION .....	Part No. 833041 .....	2-17
18 - ANCHORING .....	Part No. 52613450 .....	2-17
19 - LIFTING POINT 1 <sup>ST</sup> VERSION .....	Part No. 830203 .....	2-17
20 - LIFTING POINT 2 <sup>ND</sup> VERSION .....	Part No. 833291 .....	2-18
21 - LIFTING .....	Part No. 52613466 .....	2-18
22 - FREEWHEEL HAZARD DEPENDING ON VERSION .....	Part No. 52683547 .....	2-18
23 - FREEWHEEL MODE 1 <sup>ST</sup> VERSION .....	Part No. 830104 .....	2-18
24 - FREEWHEEL MODE 2 <sup>ND</sup> VERSION .....	Part No. 52523260 .....	2-18
25 - BATTERY SAFETY .....	Part No. 830119 .....	2-19
26 - REPLACING THE BATTERY .....	Part No. 677856 .....	2-19
27 - RESET BUTTON - FIRST VERSION (OPTION) .....	Part No. 52513971 .....	2-19
28 - RESET BUTTON - SECOND VERSION (OPTION) .....	Part No. 52636871 .....	2-19

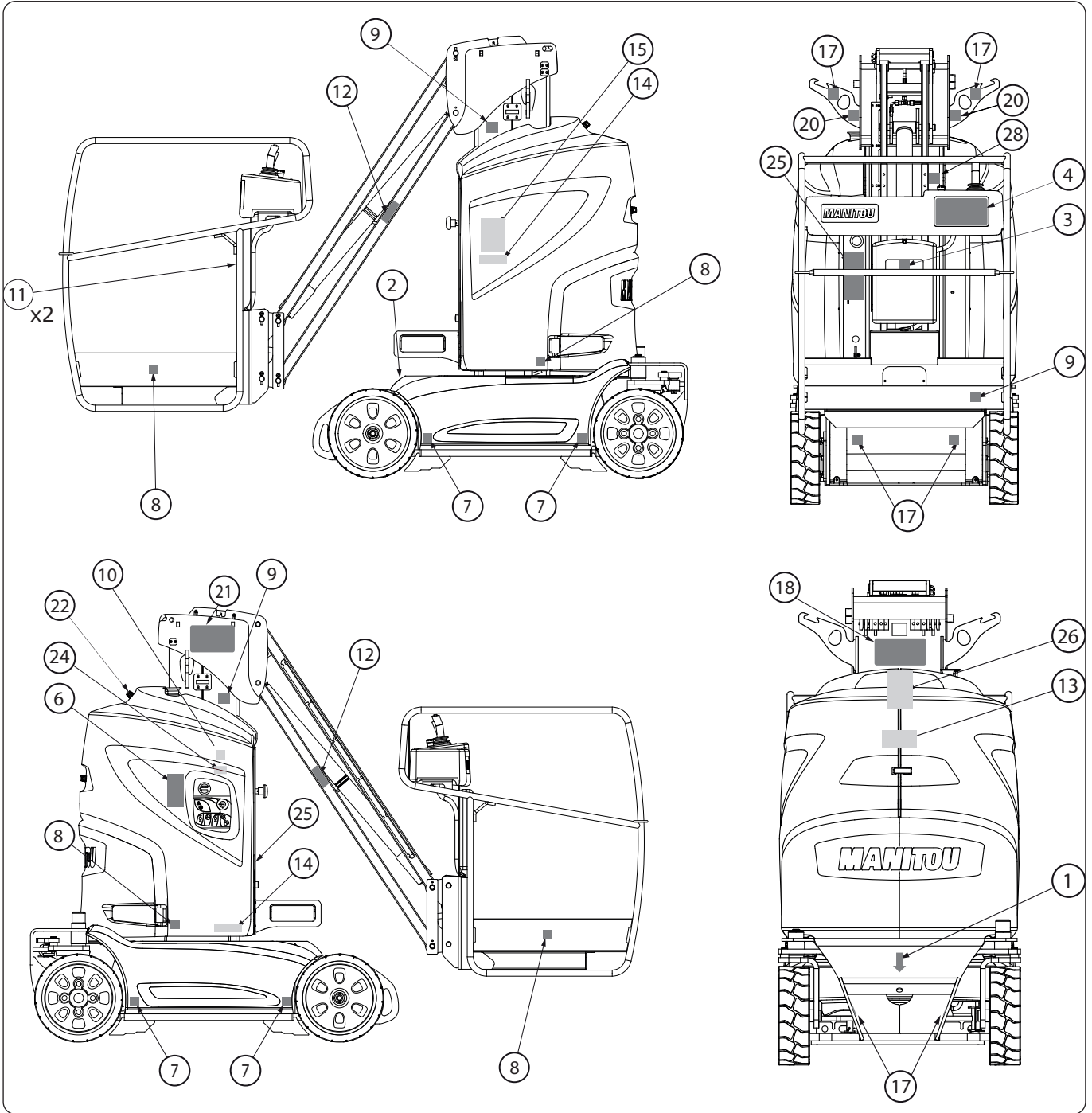
VERSION 1



\*: DEPENDING ON FITTING




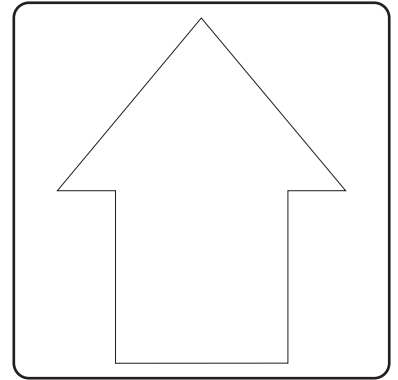




### **1 - WHITE ARROW**


**Part No. 498327**

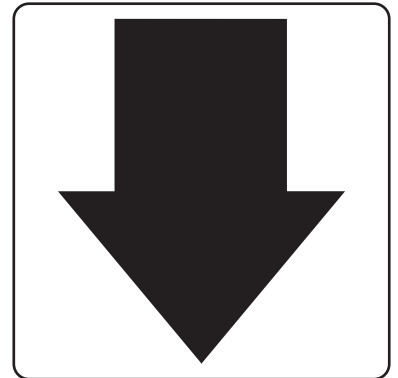
Indicates forward driving direction,  PLATFORM OPERATION: TRANSPORT/WORKING POSITION.



### **2 - BLACK ARROW**

**Part No. 498326**

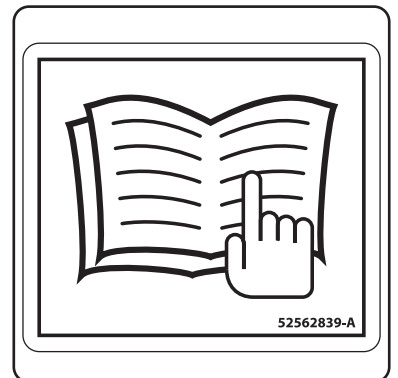
Indicates reverse driving direction,  PLATFORM OPERATION: TRANSPORT/WORKING POSITION.



### **3 - INSTRUCTIONS LOCATION** DEPENDENT ON FITTING

**Part No. 52562839**

Indicates location of the instructions for use.

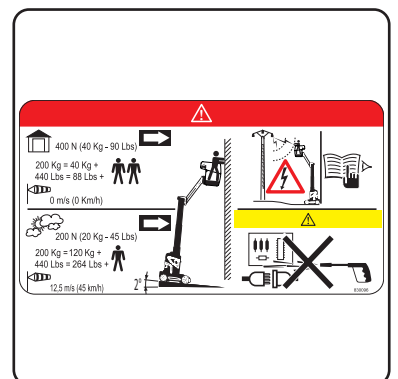


### **4 - BASKET INSTRUCTIONS AND LOAD CAPACITY**

**Part No. 830096**

Indicates:

- Operating the platform outside and inside.
- Maximum manual force.
- Maximum load capacity for the basket.
- Maximum wind speed when operating outside.
- Maximum tilt in working position.
- The risk of electric shock.
- The safety and operating instructions must be read before starting the platform.
- It is strictly forbidden to direct a pressure washer nozzle over the control panels and electrical components.

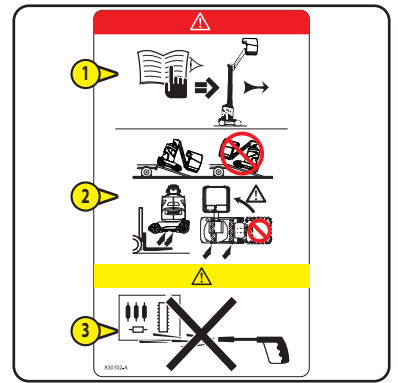


**5 - GROUND SAFETY INSTRUCTIONS 1<sup>ST</sup> VERSION**

**Part No. 830102**

Indicates:

- ①: The safety and operating instructions must be read before starting the platform.
- ②: Platform transportation procedures.
- ③: It is strictly forbidden to direct a pressure washer nozzle over the control panels and electrical components.

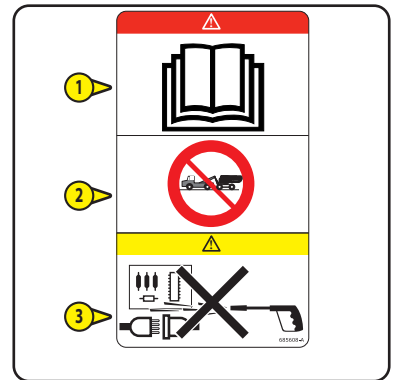


**6 - GROUND SAFETY INSTRUCTIONS 2<sup>ND</sup> VERSION**

**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.

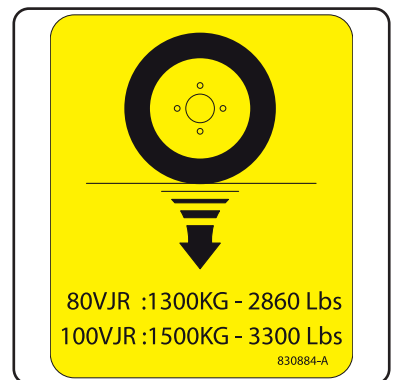


**7 - WHEEL LOAD**

**Part no. 830884**

Indicates the maximum ground load per wheel.

N.B.: Each access platform has its own specific wheel load. Please refer to this sticker to find out the value.



**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 - 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.



**10 - DANGER WARNING**

**Part No. 830871**

Indicates a nearby hazard.



**11 - HARNESS ATTACHMENT POINT**

**Part No. 834438**

Indicates the location of safety harness attachment points, <img alt="arrow icon" data-bbox="485 255 500 265"/> SAFETY COMPONENTS: HARNESS ATTACHMENT POINTS.



**12 - SAFETY VALVE**

**Part No. 830123**

Indicates the location of the jib safety valve.

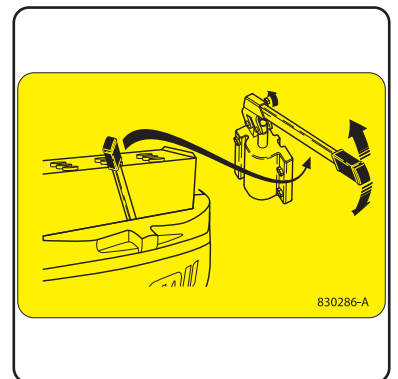
<img alt="arrow icon" data-bbox="72 460 87 470"/> RESCUE PROCEDURE.



**13 - MANUAL PUMP LEVER**

**Part No. 830286**

Indicates the location of the manual backup pump lever.

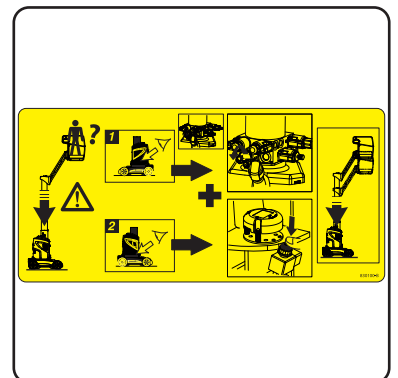


**14 - MANUAL MAST CONTROL PROCEDURE**

**Part No. 830100**

Indicates the procedure to be followed for using the emergency controls for the mast,

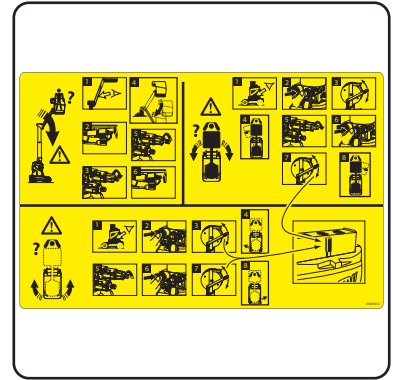
<img alt="arrow icon" data-bbox="72 824 87 834"/> RESCUE PROCEDURE.



**15 - MANUAL CONTROL PROCEDURE**

**Part No. 830099**

Indicates the procedure to be followed for using the emergency controls for the jib, turntable and steering, RESCUE PROCEDURE.



**16 - ANCHORING POINT 1<sup>ST</sup> VERSION**

**Part No. 598895**

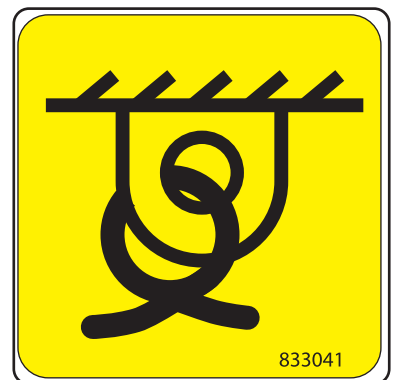
Indicates the location of the platform's anchoring points, PLATFORM OPERATION: TRANSPORTING THE PLATFORM.



**17 - ANCHORING POINT 2<sup>ND</sup> VERSION**

**Part No. 833041**

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

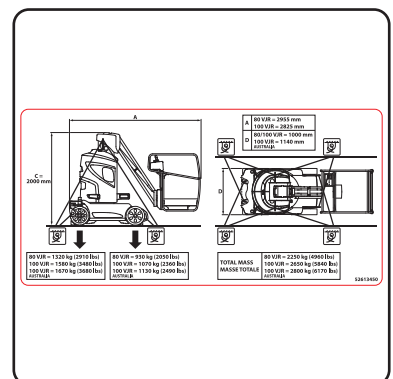


**18 - ANCHORING**

**Part No. 52613450**

Indicates the main features that are useful when anchoring the platform, PLATFORM OPERATION: TRANSPORTING THE PLATFORM.

N.B.: Transport anchoring is different for each platform; refer to this sticker to see the values.



**19 - LIFTING POINT 1<sup>ST</sup> VERSION**


**Part No. 830203**

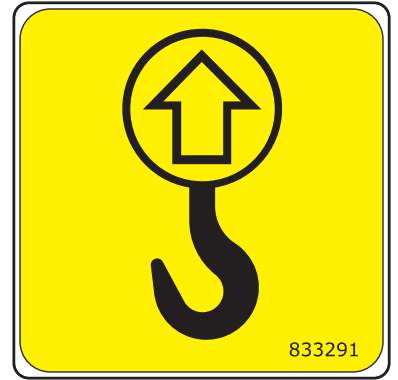
Indicates the location of the platform's lifting points, 3 - MAINTENANCE: OCCASIONAL OPERATION.



**20 - LIFTING POINT 2<sup>ND</sup> VERSION**


**Part No. 833291**

Indicates the location of the platform's lifting points,  3 - MAINTENANCE: OCCASIONAL OPERATION.

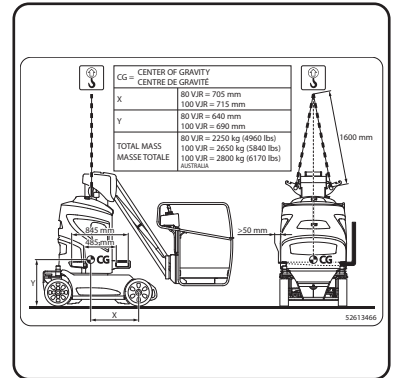


**21 - LIFTING**

**Part No. 52613466**

Indicates the main features that are useful when lifting the platform,  3 - MAINTENANCE: OCCASIONAL OPERATION.

N.B.: Each platform has its own lifting procedure; refer to this sticker to see the values.



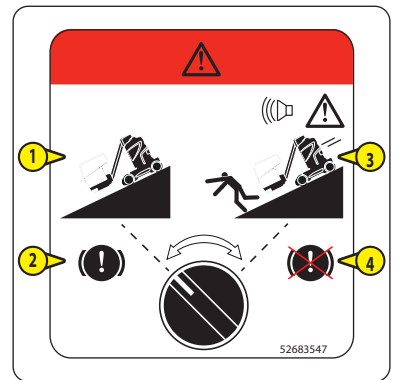
**22 - FREEWHEEL HAZARD DEPENDING ON VERSION**

**Part No. 52683547**

Indicates:

- 1 That the brakes must be active when the platform is on a slope.
- 2 The position of the switch when the platform's brakes are active.
- 3 That it is strictly forbidden to put the platform in freewheel when it is on a slope.
- 4 The position of the switch when the platform is in freewheel

NB:  3 - MAINTENANCE: OCCASIONAL OPERATION: TOW/WINCH



**23 - FREEWHEEL MODE 1<sup>ST</sup> VERSION**

**Part No. 830104**

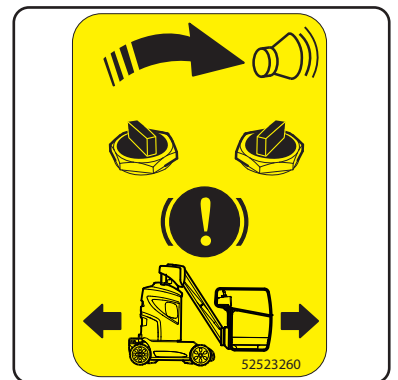
Indicates the procedure for setting freewheel mode.



**24 - FREEWHEEL MODE 2<sup>ND</sup> VERSION**

**Part No. 52523260**

Indicates the procedure for setting freewheel mode.

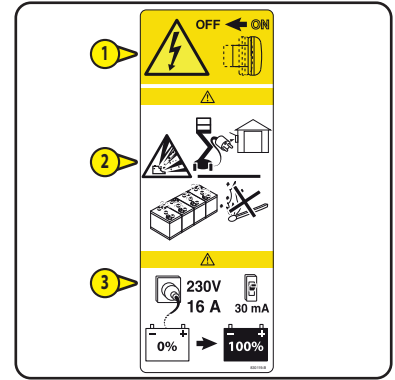


**25 - BATTERY SAFETY**

**Part No. 830119**

Indicates:

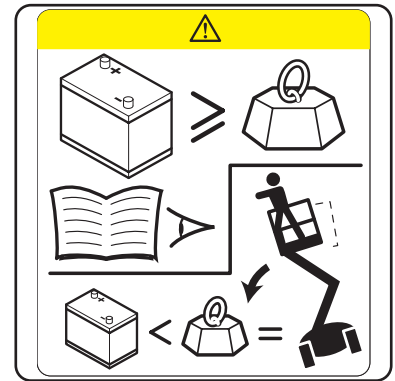
- ①: The "OFF" off position of the emergency stop/battery cut-off button.
- ②: The following hazards:
  - Explosion when charging.
  - Possibility of explosion caused by a flame, spark or short-circuit.
  - Risk of gas emissions. Charge the battery in a well-ventilated area.
- ③: The type of socket required when recharging the battery.



**26 - REPLACING THE BATTERY**

**Part No. 677856**

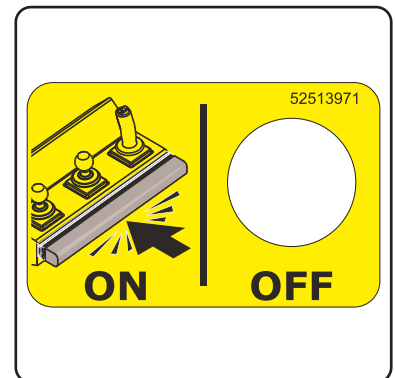
Indicates that the mass of the new battery must be equal to or more than that of the one being replaced.



**27 - RESET BUTTON SPS - FIRST VERSION (OPTION)**

**Part No. 52513971**

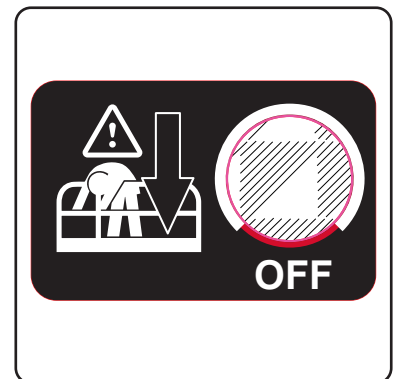
Indicates the location of the reset button SPS of the SECONDARY PROTECTION SYSTEM option SPS - FIRST VERSION "SafeManSystem".



**28 - RESET BUTTON SPS - SECOND VERSION (OPTION)**

**Part No. 52636871**

Indicates the location of the reset button SPS of the SECONDARY PROTECTION SYSTEM option SPS - SECOND VERSION.



## FEATURES

LOAD SPECIFICATIONS		80 VJR / 80 VJR EVOLUTION	100 VJR / 100 VJR EVOLUTION	±
<b>Platform</b>				
- Maximum load capacity of the basket	kg	200		-
- Maximum wind speed when operating outside	km/h	45		-
- Number of people in the basket in indoor use		2		-
- Number of people in the basket in outdoor use		1		-
- Unladen platform weight	kg	2250	2650	20
- Authorized maximum tilt	°	2		0.1%
- Maximum slope accessible (+80 kg)	%	25		2%
- Maximum slope accessible (+200 kg)	%	25		2%
- Maximum authorized force for indoor use	N	400		-
- Maximum authorized force for outdoor use	N	200		-
<b>Wheels</b>				
- Front wheel loaded radius (transport)		197		
- Rear wheel loaded radius (transport)		199	200	
- Load on one front wheel (transport position)	kg (lbs)	680	830	5%
- Load on one rear wheel (transport position)	kg (lbs)	480	570	2%
- Maximum load on one wheel (working position)	kg (lbs)	1272	1490	2%
- Bearing surface on ground (hard / soft)	cm <sup>2</sup>	114 / 150	126.4 / 161.2	5%
- Ground bearing pressure (hard / loose)	daN/cm <sup>2</sup>	11.1 / 8.5	11.8 / 9.2	5%
<b>SPEEDS AND MOVEMENTS</b>				
<b>Driving speed</b>				
- WORKING POSITION speed	km/h	0.65		0.1
- TRANSPORT POSITION speed	km/h	4.5		0.5
<b>Telescope</b>				
First version (2.2 kW electric pump)*				
- Unladen / laden extension	s	23 / 24	52 / 54	5
- Unladen / laden retraction	s	26 / 19	42 / 40	5
Second version (3 kW electric pump)*				
- Unladen / laden extension	s	21 / 23	36 / 40	5
- Unladen / laden retraction	s	26 / 19	42 / 40	5
<b>Jib</b>				
- Unladen / laden lifting	s	12 / 21	12 / 25	5
- Unladen / laden lowering	s	21 / 19	21 / 17	5
<b>Turntable</b>				
- 350° rotation (telescope extended/retracted)	s	32		5
<b>TRANSMISSION</b>				
<b>Wheel motor</b>				
- Type		Electric - ISD		-
- Power	kW	2 x 1.5		-
<b>Wheel reduction gear</b>				
- Type		SUMITOMO		-
- Reduction ratio		59:1		-
Number of front / rear steerable wheels		2 / 0		-
Number of front / rear drive wheels		0 / 2		-
<b>Wheels</b>				
- Type		CAMSO		-
- Tire		Direct vulcanization 16-5-11 1/4		-
- Inflation		Solid tire		-
<b>BRAKE SYSTEM (parking brake)</b>				
Type of brake		Zero current		-
Type of control		Electric on the 2 rear wheels		-
Braked wheels front / rear		0 / 2		-
Release (freewheel mode)		Electrical control		-
Braking torque	daN.m	1.5 on brake		5%

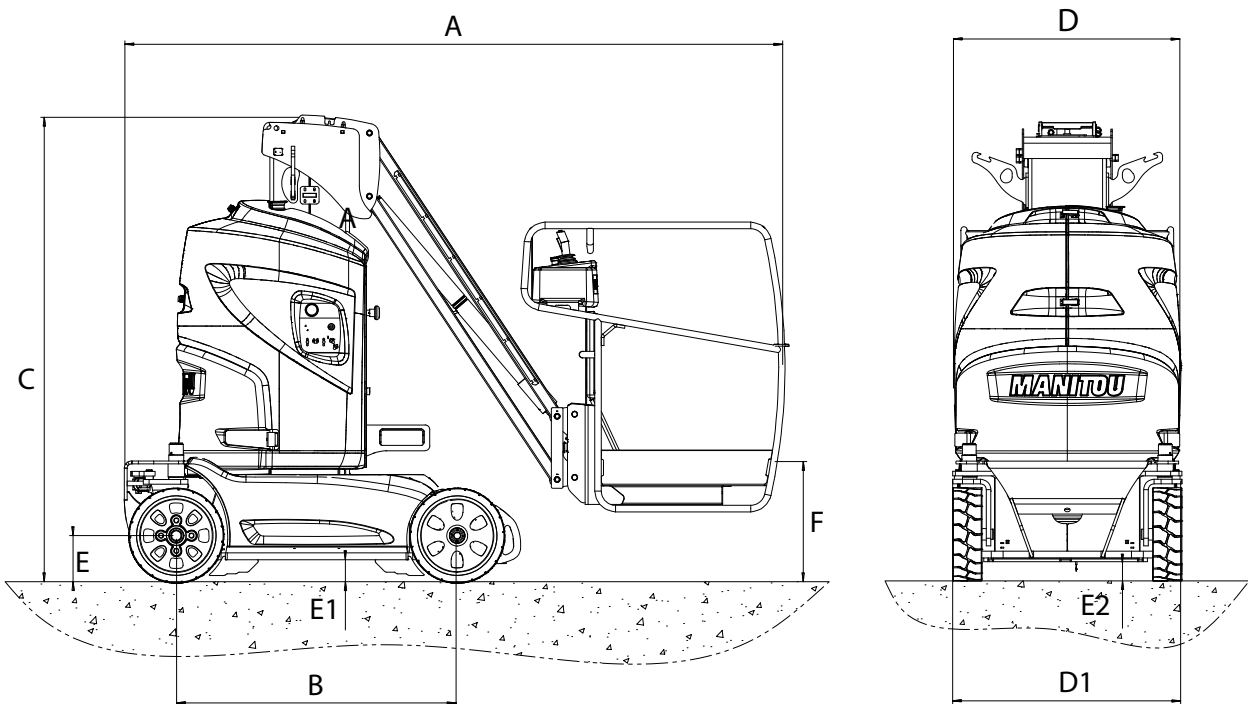
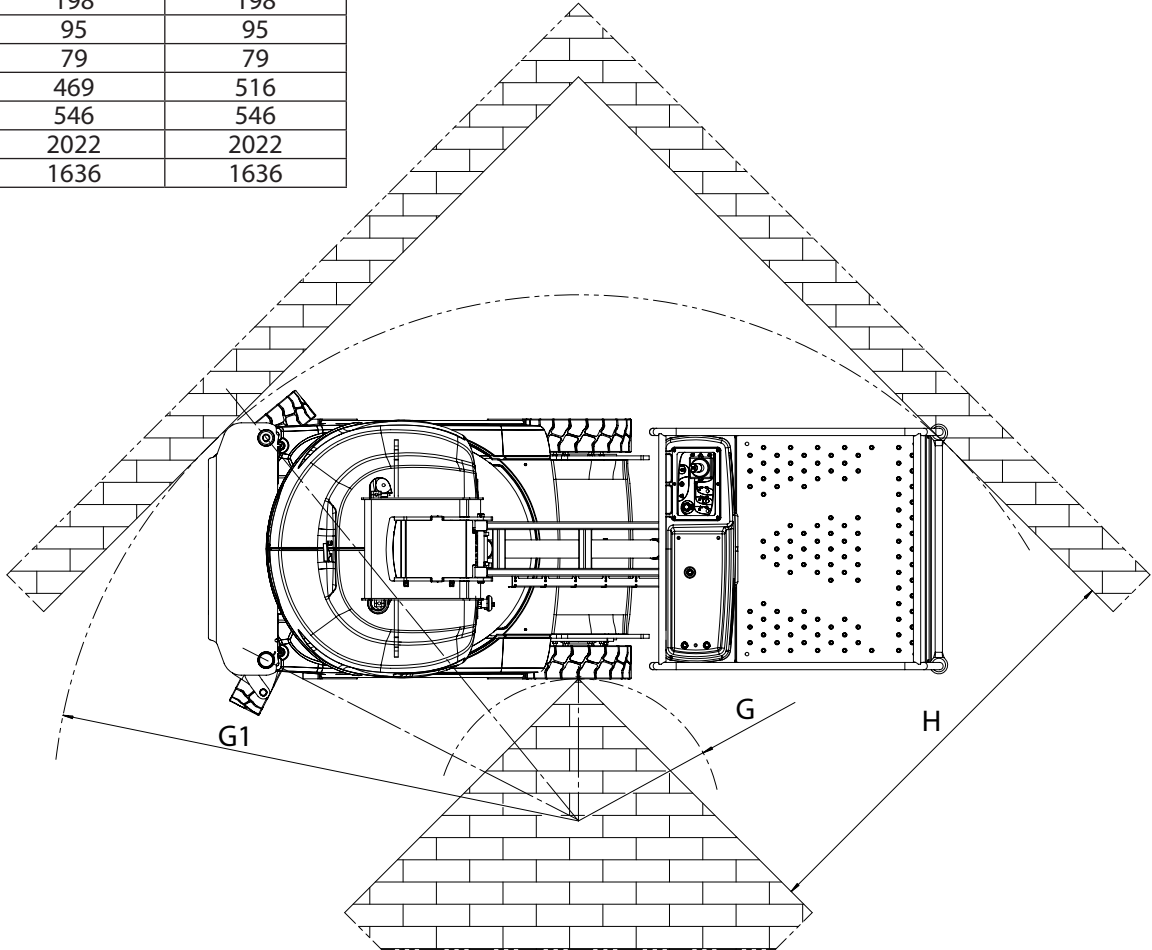
<b>HYDRAULIC CIRCUIT</b>		<b>80 VJR / 80 VJR EVOLUTION</b>	<b>100 VJR / 100 VJR EVOLUTION</b>	<b>±</b>
Hydraulic pump				
First version*				
- Type		Mini unit - HYDAC		-
- Maximum cylinder capacity	cm <sup>3</sup>	4.2		-
- Maximum unladen flow rate	L/min	18		-
Second version*				
- Type		Mini unit - HYDAC		-
- Maximum cylinder capacity	cm <sup>3</sup>	2 x 4.2		-
- Maximum unladen flow rate	L/min	23.5		-
Filtration				
- Suction	µm	100		-
<b>ELECTRIC CIRCUIT</b>				
		<b>80 VJR / 80 VJR EVOLUTION</b>	<b>100 VJR / 100 VJR EVOLUTION</b>	<b>±</b>
Battery				
- Type		EXIDE		-
- Capacity C5	Ah	250		-
- Capacity C20	Ah	270		-
- Rated voltage	V	24		-
Charger				
- Type		IES		-
- Maximum amperage	A	30		-
- Rated voltage	V	24		-
Electric pump				
First version*				
- Power	kW	2.2		-
Second version*				
- Power	kW	3		-
- Voltage	V/DC	24		-
- Current	A	190		-
- S2 (temporary operation)	min	6		-
- S3 (alternate operation)	%	15		-
<b>BACKUP PUMP</b>				
		<b>80 VJR / 80 VJR EVOLUTION</b>	<b>100 VJR / 100 VJR EVOLUTION</b>	<b>±</b>
- Type		Manual		-
<b>VIBRATION LEVEL</b>				
		<b>80 VJR / 80 VJR EVOLUTION</b>	<b>100 VJR / 100 VJR EVOLUTION</b>	<b>±</b>
Average quadratic values for the body	m/s <sup>2</sup>	< 0.5		-
<b>DIMENSIONS</b>				
		<b>80 VJR / 80 VJR EVOLUTION</b>	<b>100 VJR / 100 VJR EVOLUTION</b>	<b>±</b>
Basket				
- External dimensions (length x width)	mm	1110 x 930		1%
- Floor dimensions (length x width)	mm	895 x 740		1%
Other dimensions: <math>\triangleleft</math> DIMENSIONS AND DIAGRAMS				
<b>EQUIPMENT</b>				
		<b>80 VJR / 80 VJR EVOLUTION</b>	<b>100 VJR / 100 VJR EVOLUTION</b>	<b>±</b>
Multi-function display		Standard		-
Proportional battery level display		Standard		-
Battery low level alarm		Standard		-
Tool box in basket		Standard		-
All movements alarm		Option**		-
Driving/steering alarm		Option**		-
Orange flashing light		Option		-
230 V provision		Option		-
Secondary protection system SPS - first version "SafeManSystem"		Option		-
Secondary protection system SPS - second version		Option		-

\*: According to model

\*\* : Can be activated/deactivated, <math>\triangleleft</math> OPTIONS.

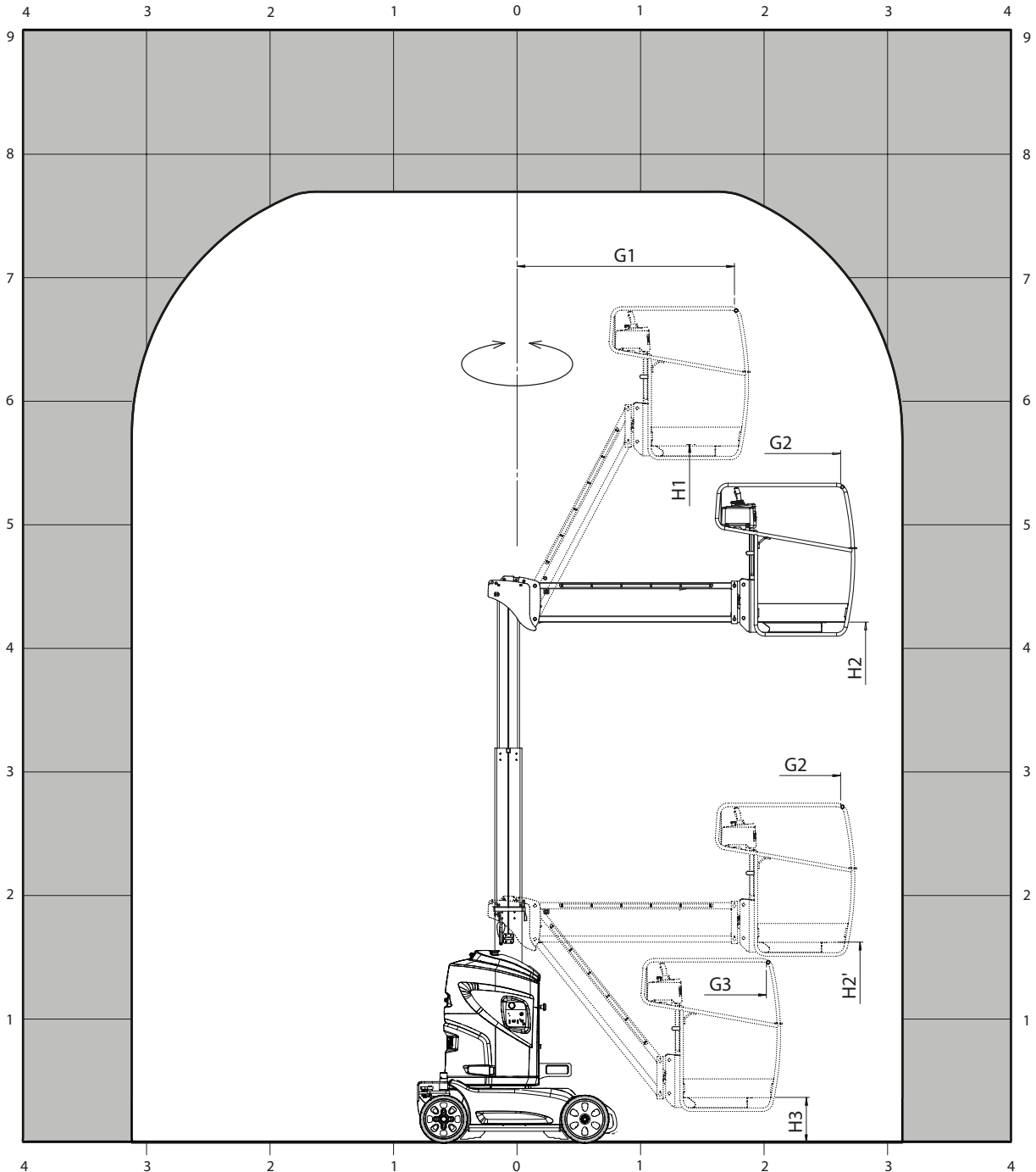
## DIMENSIONS

		80 VJR / 80 VJR EVOLUTION	100 VJR / 100 VJR EVOLUTION
<b>A</b>	mm	2956	2824
<b>B</b>	mm	1200	1200
<b>C</b>	mm	1995	1994
<b>D</b>	mm	991	991
<b>D1</b>	mm	998	998
<b>E</b>	mm	198	198
<b>E1</b>	mm	95	95
<b>E2</b>	mm	79	79
<b>F</b>	mm	469	516
<b>G</b>	mm	546	546
<b>G1</b>	mm	2022	2022
<b>H</b>	mm	1636	1636



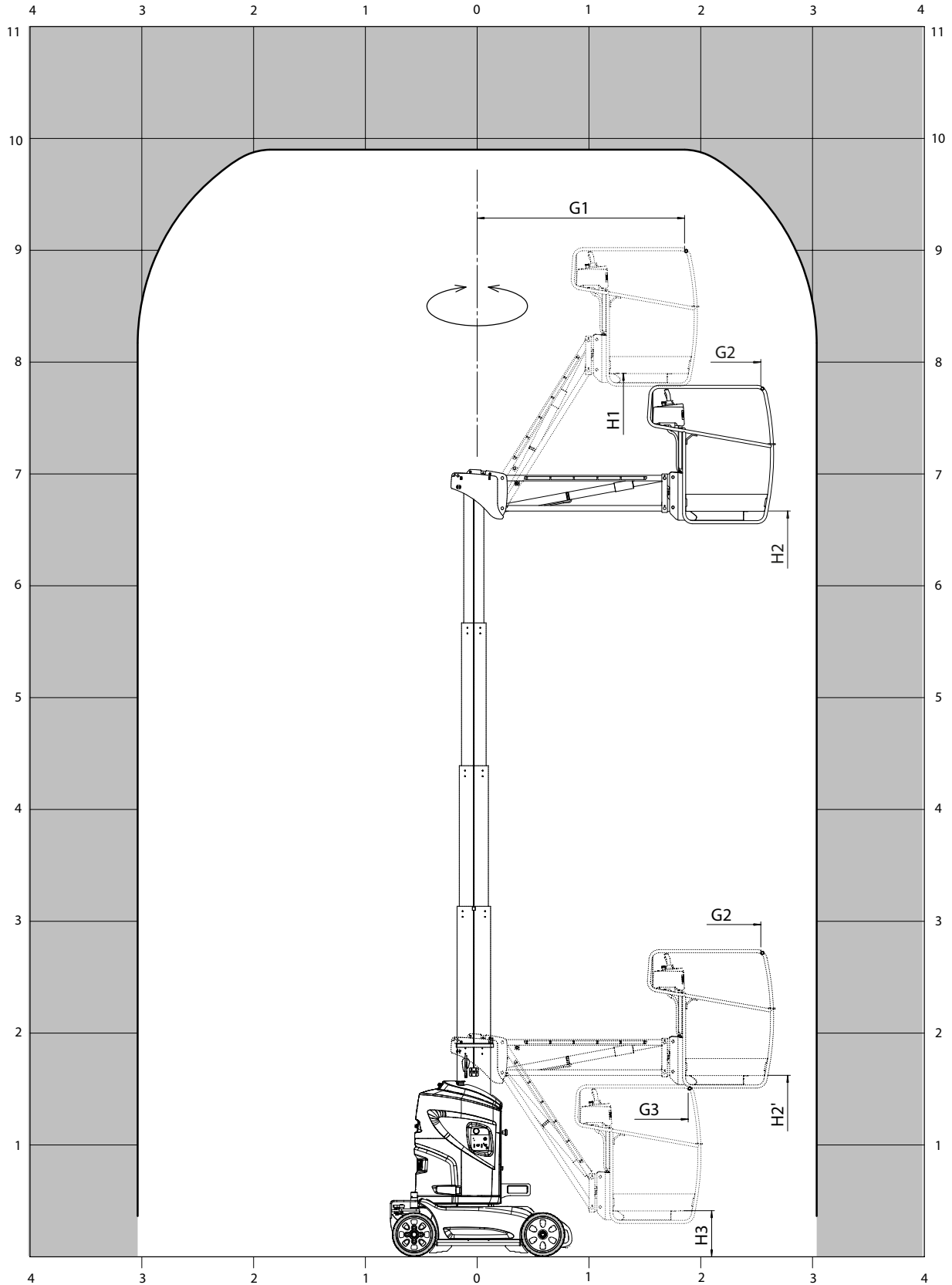
**DIAGRAM** 80 VJR / 80 VJR EVOLUTION

<b>G1</b>	mm	1760
<b>H1</b>	mm	5650
<b>G2</b>	mm	2620
<b>H2</b>	mm	4213
<b>H2'</b>	mm	1623
<b>G3</b>	mm	2020
<b>H3</b>	mm	365



**DIAGRAM** 100 VJR / 100 VJR EVOLUTION

<b>G1</b>	mm	1855
<b>H1</b>	mm	7900
<b>G2</b>	mm	2537
<b>H2</b>	mm	6669
<b>H2'</b>	mm	1623
<b>G3</b>	mm	1888
<b>H3</b>	mm	412



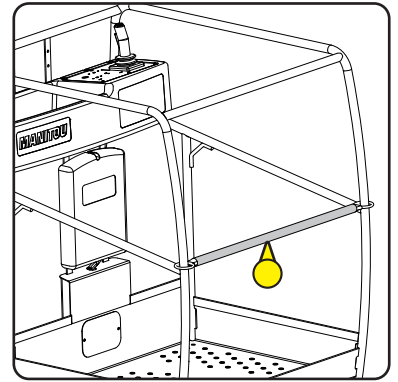
## SAFETY COMPONENTS

### 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.



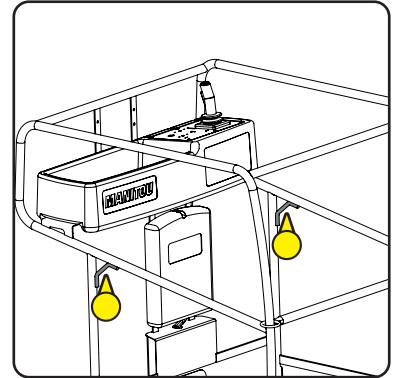
### HARNES ATTACHMENT POINTS

**⚠ IMPORTANT ⚠**

*Only one operator is permitted to use each attachment point.*

- Attach security harnesses to attachment points in the basket.

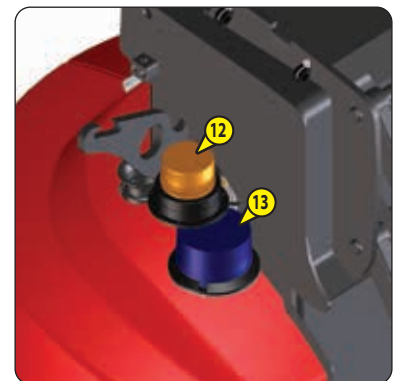
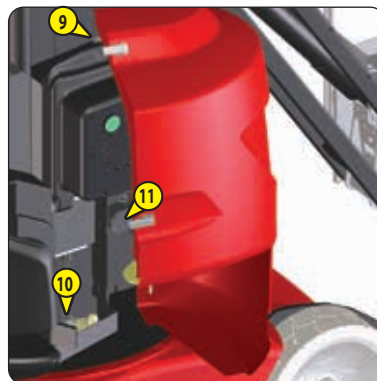
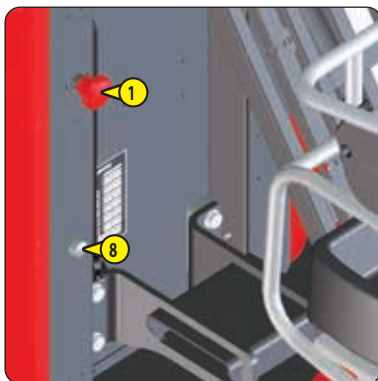
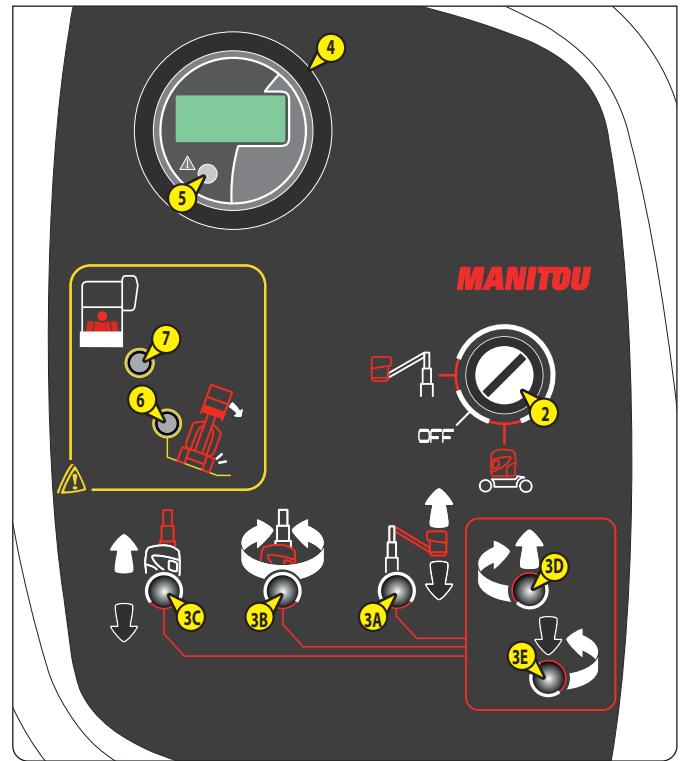
N.B.:  STICKERS: HARNES ATTACHMENT POINTS.



## CONTROL PANEL AND SAFETY DEVICES AT GROUND LEVEL

### ⚠ IMPORTANT ⚠

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

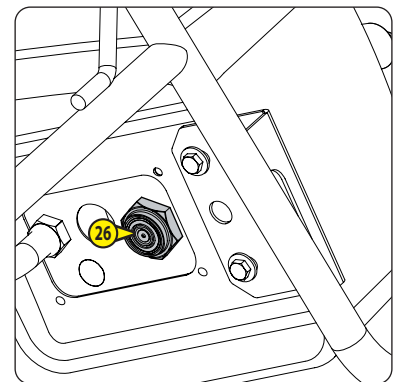
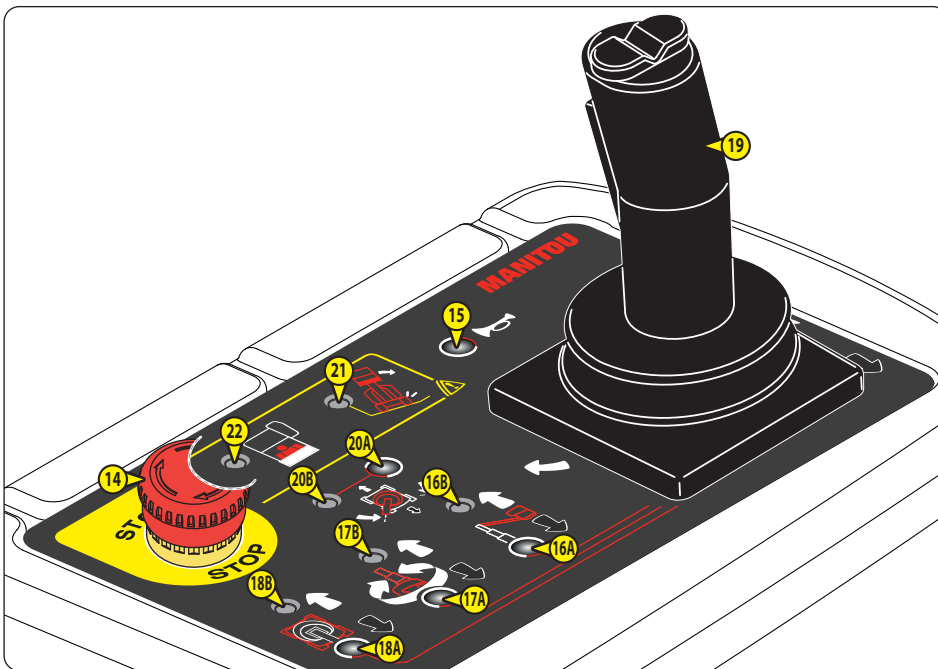
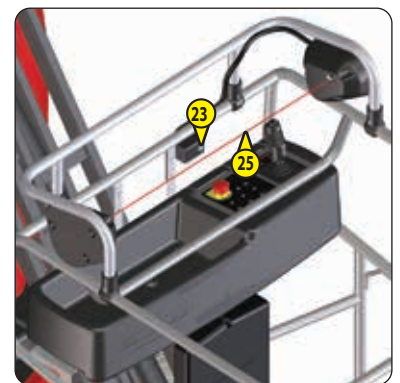
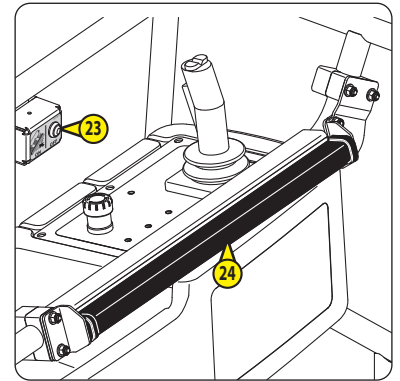
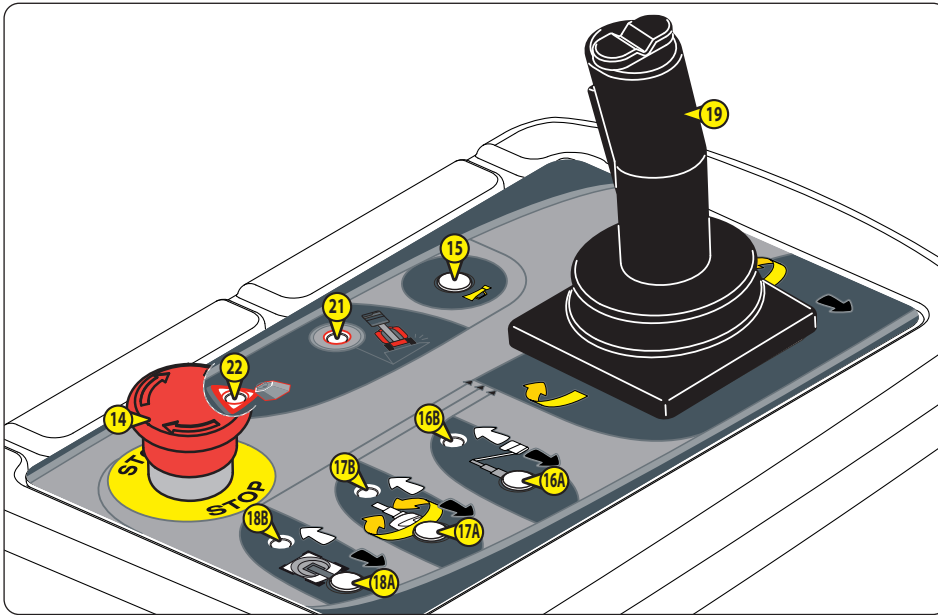


1 - EMERGENCY STOP/BATTERY CUT-OFF BUTTON.....	2-28
2 - IGNITION SWITCH .....	2-28
3 - ACTIVATION BUTTONS AND CONTROL BUTTONS .....	2-29
4 - MULTI-FUNCTION DISPLAY.....	2-30
5 - FAULT INDICATOR LIGHT.....	2-30
6 - TILT ALARM INDICATOR LAMP.....	2-30
7 - OVERLOAD ALARM LIGHT .....	2-31
8 - BATTERY CHARGER STATUS INDICATOR LAMP.....	2-31
9 - FREEWHEELING SWITCH.....	2-31
10 - TILT SENSOR.....	2-32
11 - HORN .....	2-32
12 - ORANGE FLASHING LIGHT (OPTION) .....	2-32
13 - SPS FLASHING LIGHT (OPTION) .....	2-32

## CONTROL PANEL AND SAFETY DEVICES IN THE BASKET

### ⚠ IMPORTANT ⚠

Drive forwards, drive backwards, the left and right are defined in PLATFORM OPERATION: TRANSPORT/WORKING POSITION.



14 - EMERGENCY STOP BUTTON.....	2-33
15 - HORN BUTTON .....	2-33
16 - ACTIVATION BUTTON AND INDICATOR LAMP - JIB .....	2-34
17 - ACTIVATION BUTTON AND INDICATOR LAMP - TURNTABLE AND MAST.....	2-34
18 - ACTIVATION BUTTON AND INDICATOR LAMP - DRIVING/STEERING .....	2-35
19 - CONTROL HANDLE .....	2-35
20 - NOT USED .....	2-37
21 - TILT ALARM INDICATOR LAMP .....	2-37
22 - OVERLOAD ALARM LIGHT .....	2-37
23 - RESET BUTTON (OPTION).....	2-38
24 - SAFETY EDGE (OPTION) .....	2-38
25 - SAFETY CABLE (OPTION) .....	2-38
26 - HORN .....	2-38

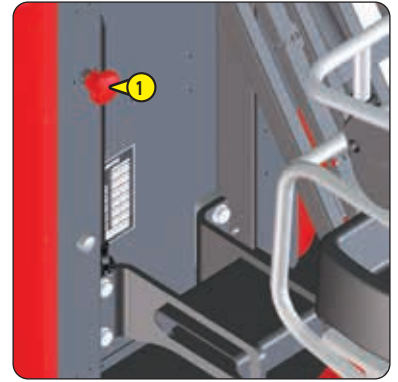
## 1 - EMERGENCY STOP/BATTERY CUT-OFF BUTTON

### ⚠ 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 movements and stop the platform.
- ON (unlocked): Turn the knob to power the platform up.



## 2 - IGNITION SWITCH

NOTE: always wait a few seconds in the position OFF when changing from the GROUND LEVEL CONTROLS position to the BASKET CONTROLS position and vice versa. The emergency stop/battery cut-off button must be in the ON position.

**OFF** OFF to turn off the control system. The key can be removed.



NOTE: the battery cut-off/emergency stop button must be in the OFF position to switch off the machine.



GROUND LEVEL CONTROLS to start up the control system and activate the controls from the ground. First version: The key can be removed. Second version: The key cannot be removed.



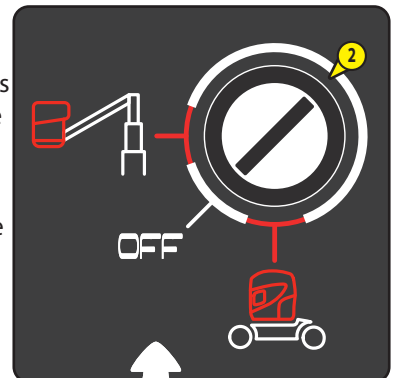
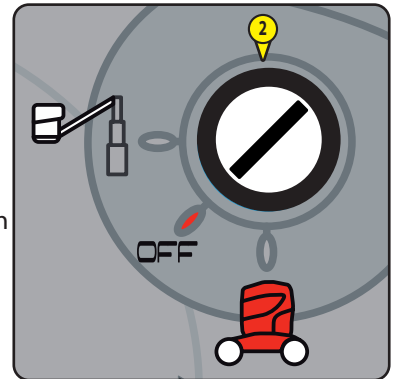
NOTE: the battery cut-off/emergency stop button must be in the ON position to switch on the machine.



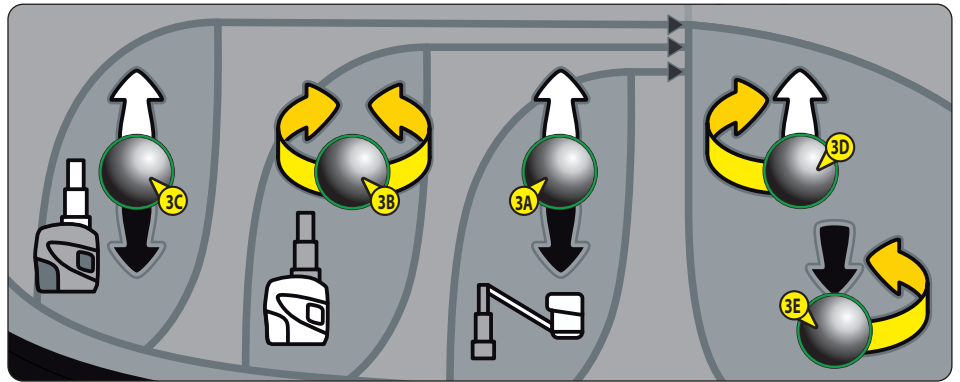
PLATFORM CONTROLS to start up the control system and activate the controls from the platform. First version: The key can be removed. Second version: The key cannot be removed.



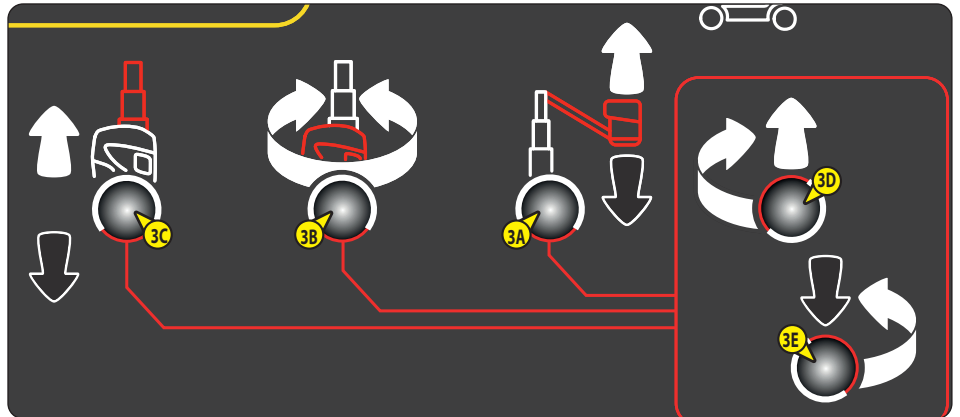
NOTE: the battery cut-off/emergency stop button must be in the ON position and the emergency stop button on the platform control panel must be in the ON position to start up the machine.



FIRST VERSION



SECOND VERSION



**RAISE THE JIB**

- Press and hold down the jib activation button 3A.
- Press and hold down the control button 3D to raise the jib.
- Release it or release the activation button to stop.

**LOWER THE JIB**

- Press and hold down the jib activation button 3A.
- Press and hold down the control button 3E to lower the jib.
- Release it or release the activation button to stop.

**TURN THE TURNTABLE TO THE LEFT**

- Press and hold down the turntable activation button 3B.
- Press and hold down the control button 3D to turn the turntable to the left.
- Release it or release the activation button to stop.

**TURN THE TURNTABLE TO THE RIGHT**

- Press and hold down the turntable activation button 3B.
- Press and hold down the control button 3E to turn the turntable to the right.
- Release it or release the activation button to stop.

**RAISE THE MAST**

- Press and hold down the mast activation button 3C.
- Press and hold down the control button 3D to raise the mast.
- Release it or release the activation button to stop.

**LOWER THE MAST**

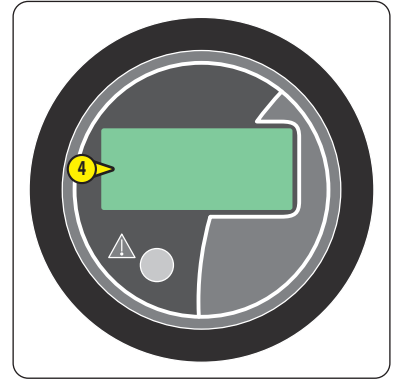
- Press and hold down the mast activation button 3C.
- Press and hold down the control button 3E to lower the mast.
- Release it or release the activation button to stop.

#### 4 - MULTI-FUNCTION DISPLAY

It displays:

- The battery charge level.
- The hour counter.
- The maintenance warning.
- The fault codes.

NB: <img alt="arrow icon" data-bbox="125 144 140 159"/> MULTI-FUNCTION DISPLAY - DESCRIPTION.



#### 5 - FAULT INDICATOR LIGHT

<img alt="arrow icon" data-bbox="92 252 107 267"/> MULTI-FUNCTION DISPLAY - DESCRIPTION.



#### 6 - TILT ALARM INDICATOR LAMP

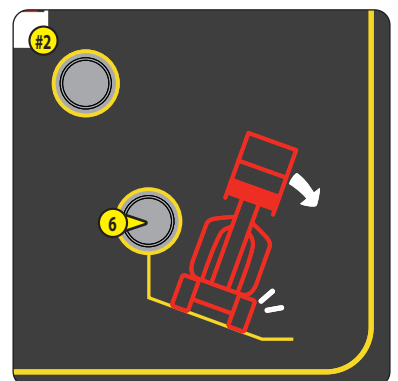
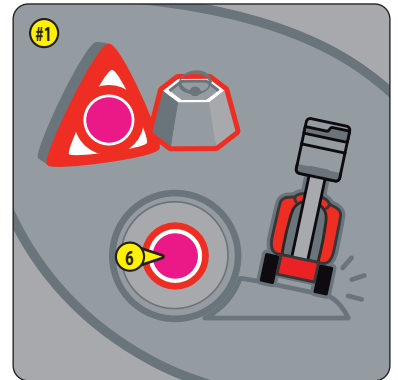
Illustrations: <img alt="circle with #1" data-bbox="160 437 175 452"/> = first version, <img alt="circle with #2" data-bbox="285 437 300 452"/> = second version.

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

- The indicator lamp flashes.
- The horn and the audible warning sound intermittently (only when the platform is in WORKING position, <img alt="arrow icon" data-bbox="255 508 270 523"/> PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Some controls are locked, <img alt="arrow icon" data-bbox="285 523 300 538"/> PLATFORM OPERATION: LOCKED CONTROLS.

To stop the leveling alarm and unlock the controls:

- Fully lower the mast.
- Lower the jib until it is in the range <img alt="circle with A" data-bbox="365 572 380 587"/>, <img alt="arrow icon" data-bbox="395 572 410 587"/> PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Move the platform to a level surface.



## 7 - OVERLOAD ALARM LIGHT

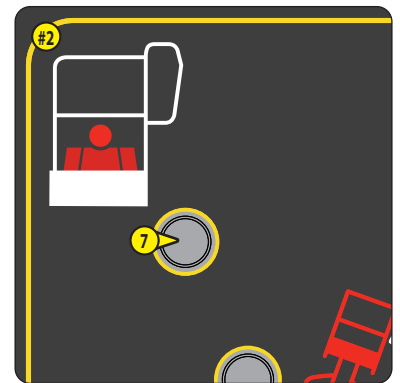
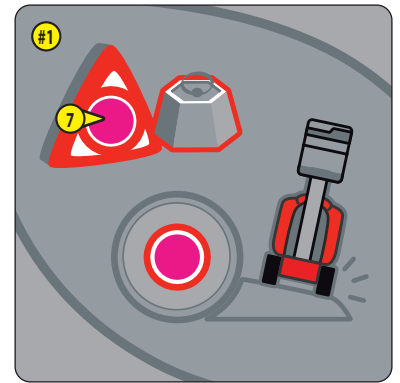
Illustrations: #1 = first version, #2 = second version.

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

- The indicator lamp flashes.
- The horn and the audible warning sound continuously.
- All controls are locked, <math>\triangleleft</math> PLATFORM OPERATION: LOCKED CONTROLS.

To stop the overload alarm and unlock the controls:

- Remove excessive load.



## 8 - BATTERY CHARGER STATUS INDICATOR LAMP

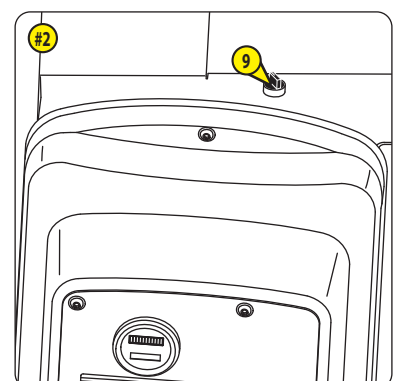
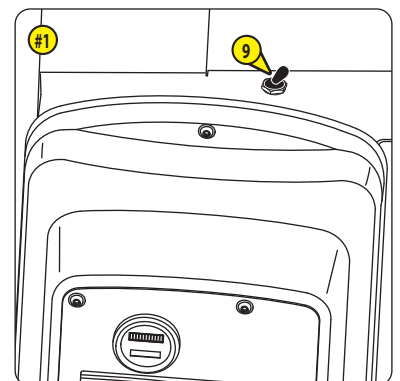
<math>\triangleleft</math> CHARGE THE BATTERY.



## 9 - FREEWHEELING SWITCH

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

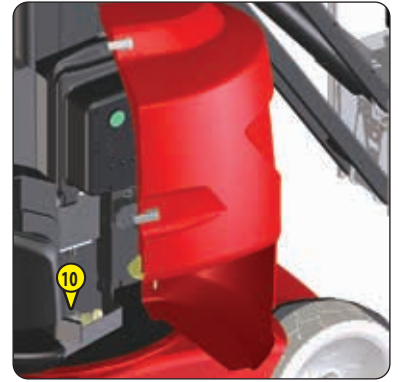
<math>\triangleleft</math> 3-MAINTENANCE: OCCASIONAL OPERATION: TOW/WINCH.



## 10 - TILT SENSOR

A light on the tilt sensor indicates its operating status:

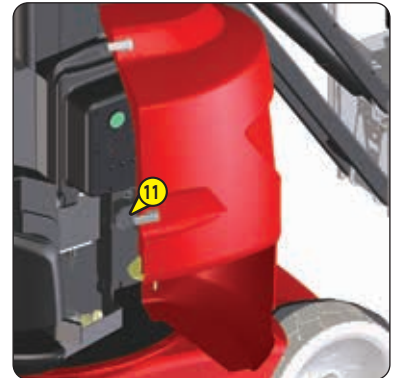
- On: the chassis has not reached maximum tilt.
- Off: the chassis has reached maximum tilt.



## 11 - HORN

The horn sounds:

- When the horn button is pressed.
- Once after the platform has been powered up.
- Intermittently when the platform is on a steep slope\*, <math>\triangleleft</math> TILT ALARM LIGHT.
  - \* Only when the platform is in WORKING position, <math>\triangleleft</math> PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Continuously when the basket load has reached maximum capacity, <math>\triangleleft</math> OVERLOAD ALARM INDICATOR LIGHT.
- Continuously when the platform is in freewheel mode, <math>\triangleleft</math> 3 - MAINTENANCE: OCCASIONAL OPERATION.



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

DRIVING/STEERING ALARM option: This sounds intermittently when driving/steering the platform. Option SECONDARY PROTECTION SYSTEM SPS - FIRST VERSION "SafeManSystem": It sounds intermittently when the system is in alarm mode, <math>\triangleleft</math> OPTIONS.

SECONDARY PROTECTION SYSTEM option SPS - SECOND VERSION: It sounds intermittently when the system is in alarm mode, <math>\triangleleft</math> OPTIONS.

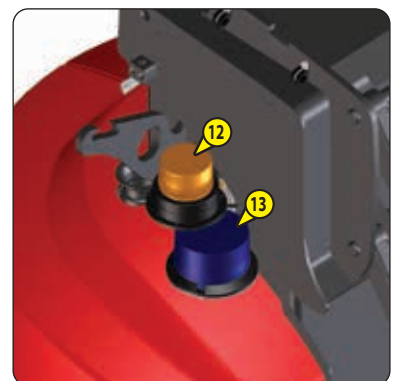
## 12 - ORANGE FLASHING LIGHT (OPTION)

When the platform functions are activated and while the platform is being driven/steered.

NOTE: this option can be activated and deactivated, <math>\triangleleft</math> OPTIONS

## 13 - SPS FLASHING LIGHT (OPTION)

<math>\triangleleft</math> OPTIONS: SECONDARY PROTECTION SYSTEM SPS - FIRST VERSION "SAFEMANSYSTEM" or <math>\triangleleft</math> OPTIONS: SECONDARY PROTECTION SYSTEM SPS - SECOND VERSION.



## 14 - EMERGENCY STOP BUTTON

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

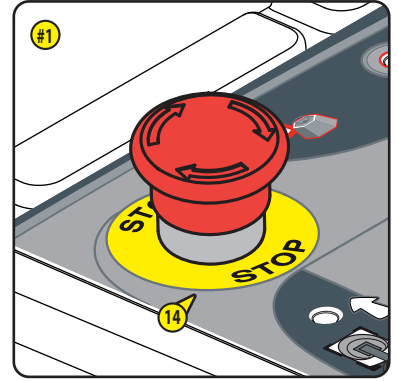
### FIRST VERSION

**⚠ IMPORTANT ⚠**

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

2 positions:

- OFF (locked): Press the knob to cut off the movements.
- ON (unlocked): Turn the knob clockwise a quarter turn and release it.



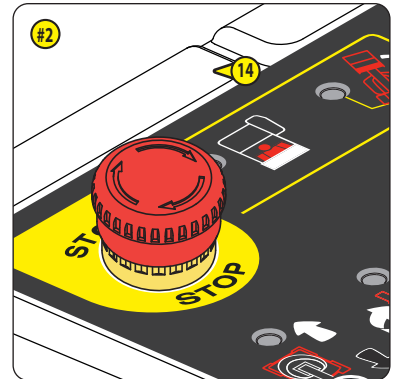
### SECOND VERSION

**⚠ IMPORTANT ⚠**

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

2 positions:

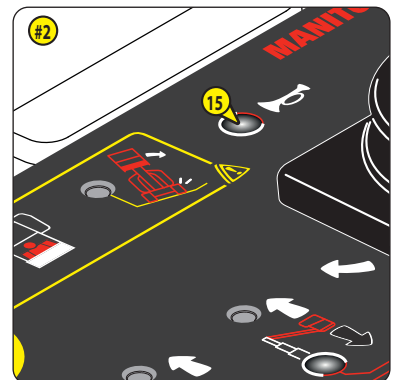
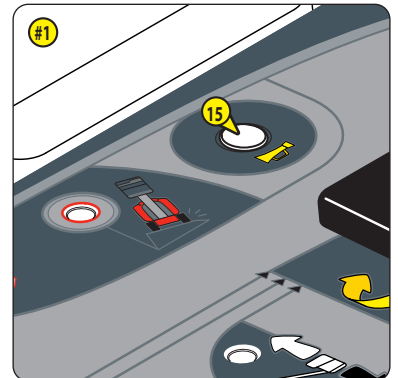
- OFF (locked): Press the knob to cut off the movements.
- ON (unlocked): Pull the button or turn it clockwise a quarter turn and release it.



## 15 - HORN BUTTON

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

Press the button to use the horn.



## 16 - ACTIVATION BUTTON AND INDICATOR LAMP - JIB

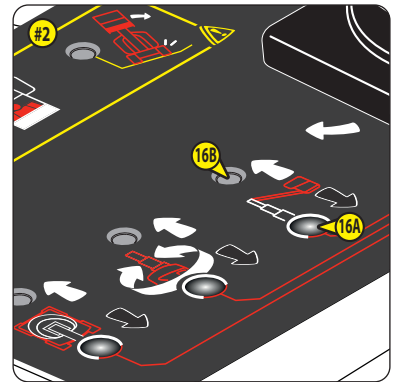
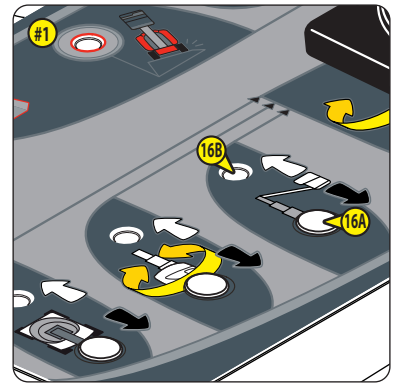
Illustrations: #1 = first version, #2 = second version.

- Press and release the button 16A.

NOTE: the control handle and the trigger on the control handle must be released.

Result: the indicator lamp 16B comes on. The jib function is enabled when the lamp is on.

NOTE: the indicator lamp will come on if the control handle is not activated in the next 4 seconds.



## 17 - ACTIVATION BUTTON AND INDICATOR LAMP - TURNTABLE AND MAST

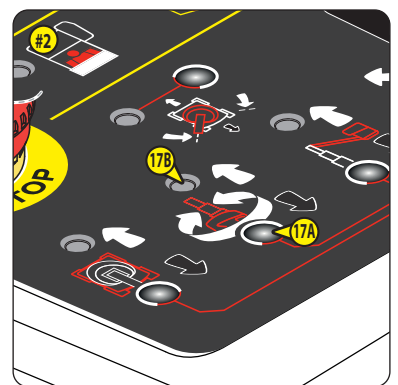
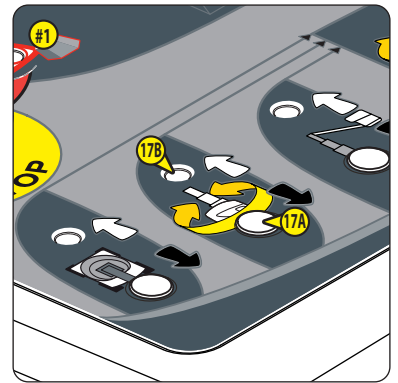
Illustrations: #1 = first version, #2 = second version.

- Press and release the button 17A.

NOTE: the control handle and the trigger on the control handle must be released.

Result: the indicator lamp 17B comes on. The turntable/mast functions are activated when the lamp is on.

NOTE: the indicator lamp will come on if the control handle is not activated in the next 4 seconds.



## 18 - ACTIVATION BUTTON AND INDICATOR LAMP - DRIVING/STEERING

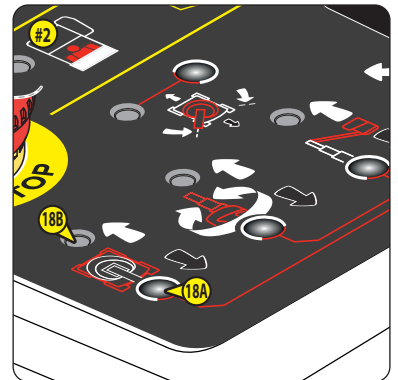
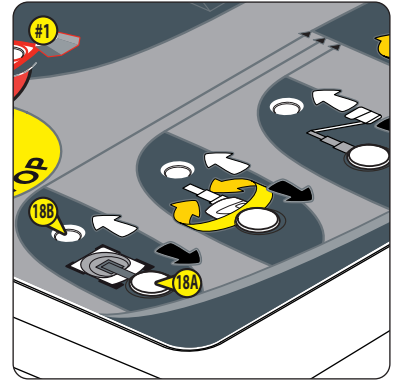
Illustrations: #1 = first version, #2 = second version.

- Press and release the button 18A.

NOTE: the control handle and the trigger on the control handle must be released.

Result: the indicator lamp 18B comes on. The driving/steering functions are enabled when the lamp is on.

NOTE: the indicator lamp will come on if the control handle is not activated in the next 4 seconds.



## 19 - CONTROL HANDLE

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

**⚠ IMPORTANT ⚠**

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

N.B.: The control handle must be operated smoothly, without jerking.

The control handle enables use of all the platform functions:

### RAISE THE JIB

- Activate the jib arm function, ⏏ ACTIVATION BUTTON AND INDICATOR LAMP – JIB.
- Press and hold down the trigger A.
- Push and hold the control handle forward.
- Release it or release the trigger to stop.

### LOWER THE JIB

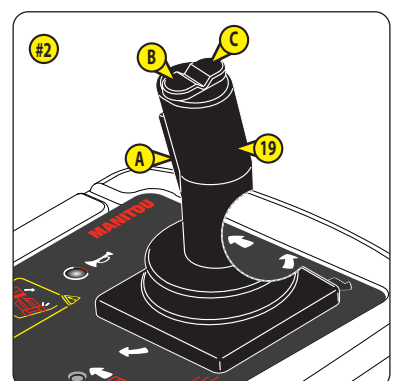
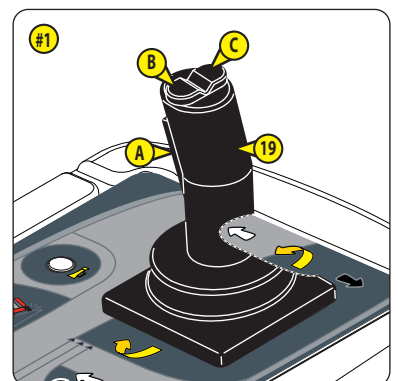
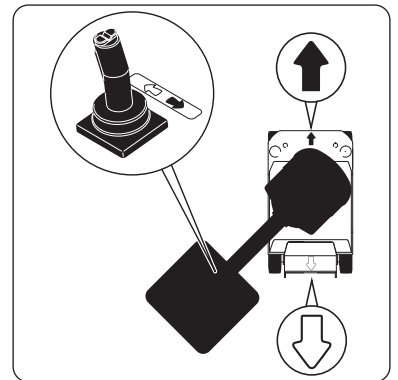
- Activate the jib arm function, ⏏ ACTIVATION BUTTON AND INDICATOR LAMP – JIB.
- Press and hold down the trigger A.
- Pull and hold the control handle back.
- Release it or release the trigger to stop.

### TURN THE TURNTABLE TO THE LEFT

- Activate the turntable and mast functions, ⏏ ACTIVATION BUTTON AND INDICATOR LAMP – TURNTABLE AND MAST.
- Press and hold down the trigger A.
- Push and hold the control handle to the left.
- Release it or release the trigger to stop.

### TURN THE TURNTABLE TO THE RIGHT

- Activate the turntable and mast functions, ⏏ ACTIVATION BUTTON AND INDICATOR LAMP – TURNTABLE AND MAST.
- Press and hold down the trigger A.
- Push and hold the control handle to the right.
- Release it or release the trigger to stop.



### **RAISE THE MAST**

- Activate the turntable and mast functions, <img alt="activation button icon" data-bbox="405 65 425 75"/> ACTIVATION BUTTON AND INDICATOR LAMP – TURNTABLE AND MAST.
- Press and hold down the trigger **A**.
- Push and hold the control handle forward.
- Release it or release the trigger to stop.

### **LOWER THE MAST**

- Activate the turntable and mast functions, <img alt="activation button icon" data-bbox="405 145 425 155"/> ACTIVATION BUTTON AND INDICATOR LAMP – TURNTABLE AND MAST.
- Press and hold down the trigger **A**.
- Pull and hold the control handle back.
- Release it or release the trigger to stop.

### **DRIVE FORWARDS AND BRAKE**

- Activate the driving/steering functions, <img alt="activation button icon" data-bbox="385 225 405 235"/> ACTIVATION BUTTON AND INDICATOR LAMP – DRIVING/STEERING.
- Press and hold down the trigger **A**.
- Push and hold the control handle forward.
- Release the handle or the trigger to brake.

### **DRIVE BACKWARDS AND BRAKE**

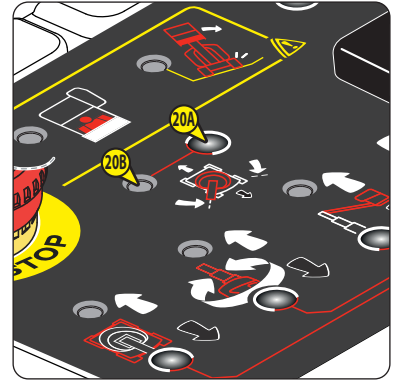
- Activate the driving/steering functions, <img alt="activation button icon" data-bbox="385 304 405 314"/> ACTIVATION BUTTON AND INDICATOR LAMP – DRIVING/STEERING.
- Press and hold down the trigger **A**.
- Pull and hold the control handle back.
- Release the handle or the trigger to brake.

### **STEER TO THE LEFT**

- Activate the driving/steering functions, <img alt="activation button icon" data-bbox="385 383 405 393"/> ACTIVATION BUTTON AND INDICATOR LAMP – DRIVING/STEERING.
- Press and hold down the trigger **A**.
- Press and hold down button **B**.
- Release it or release the trigger to stop.

### **STEER TO THE RIGHT**

- Activate the driving/steering functions, <img alt="activation button icon" data-bbox="385 464 405 474"/> ACTIVATION BUTTON AND INDICATOR LAMP – DRIVING/STEERING.
- Press and hold down the trigger **A**.
- Press and hold down button **C**.
- Release it or release the trigger to stop.



**21 - TILT ALARM INDICATOR LAMP**

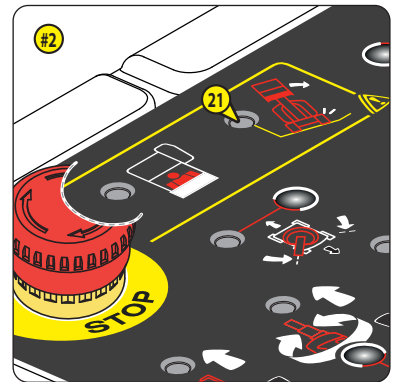
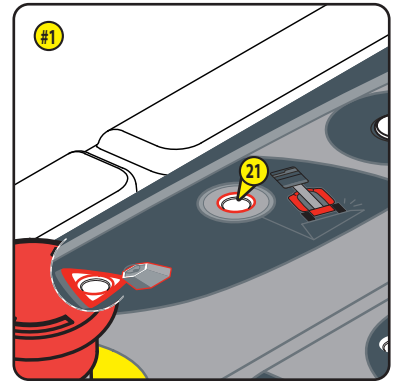
Illustrations: #1 = first version, #2 = second version.

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

- The indicator lamp flashes.
- The horn and the audible warning sound intermittently (only when the platform is in WORKING position, <math>\triangleleft</math> PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Some controls are locked, <math>\triangleleft</math> PLATFORM OPERATION: LOCKED CONTROLS.

To stop the leveling alarm and unlock the controls:

- Fully lower the mast.
- Lower the jib until it is in the range A, <math>\triangleleft</math> PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Move the platform to a level surface.



**22 - OVERLOAD ALARM LIGHT**

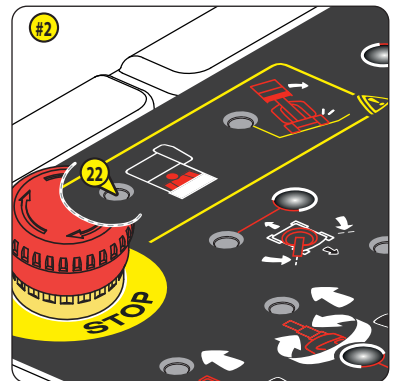
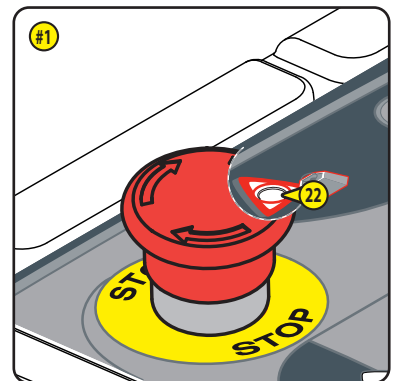
Illustrations: #1 = first version, #2 = second version.

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

- The indicator lamp flashes.
- The horn and the audible warning sound continuously.
- All controls are locked, <math>\triangleleft</math> PLATFORM OPERATION: LOCKED CONTROLS.

To stop the overload alarm and unlock the controls:

- Remove excessive load.



### 23 - RESET BUTTON SPS (OPTION)

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

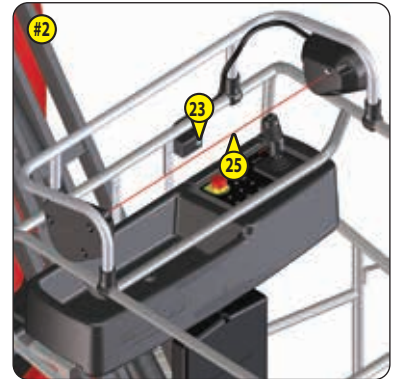
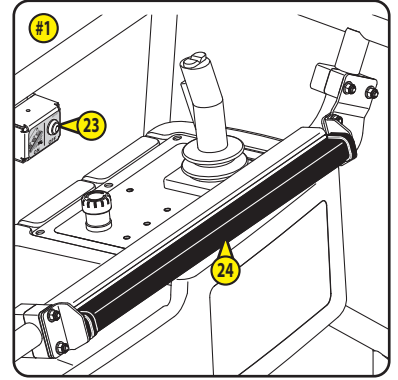
< OPTIONS: SECONDARY PROTECTION SYSTEM SPS - FIRST VERSION "SAFEMANSYSTEM"  
or < OPTIONS: SECONDARY PROTECTION SYSTEM SPS - SECOND VERSION.

### 24 - SAFETY EDGE SPS (OPTION)

< OPTIONS: SECONDARY PROTECTION SYSTEM SPS - FIRST VERSION "SAFEMANSYSTEM".

### 25 - SAFETY CABLE SPS (OPTION)

< OPTIONS: SECONDARY PROTECTION SYSTEM SPS - SECOND VERSION.



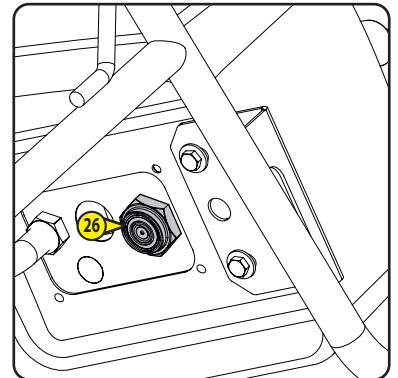
### 26 - HORN

The audible alarm sounds:

- Once after the platform has been powered up.
- Intermittently when the platform is on a steep slope\*, < TILT ALARM LIGHT.  
\* Only when the platform is in WORKING position, < PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Continuously when the basket load has reached maximum capacity, < OVERLOAD ALARM INDICATOR LIGHT.
- Continuously when the platform is in freewheel mode, < 3 - MAINTENANCE: OCCASIONAL OPERATION.

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

DRIVING/STEERING ALARM activated: This sounds intermittently when driving/steering the platform, < OPTIONS.





## MULTI-FUNCTION DISPLAY

### BATTERY CHARGE LEVEL

The bar graph indicates the battery charge level from 0% to 100%, with each segment representing 10%.

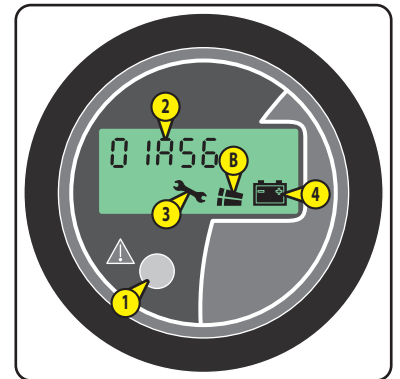
It is recommended to load the battery when the charge level is 30%, ⚠ CHARGE THE BATTERY.

**A** = 100%:

- The battery is fully charged.

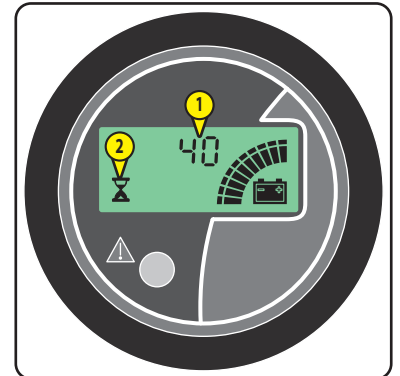
**B** = 20%:

- The battery charge level is low. It needs charging. ⚠ CHARGE THE BATTERY.
- The fault indicator lamp **1** flashes.
- The fault code 01A56 **2** is displayed.
- The key **3** is displayed.
- The battery **4** flashes.
- The LIFT THE MAST and LIFT THE JIB platform functions are locked.



### HOURLY COUNTERS

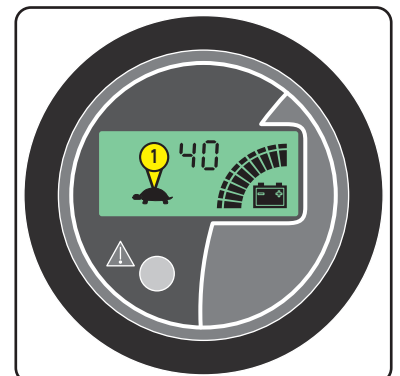
The hour counter **1** moves forward and the hourglass **2** flashes when a platform function is activated and when driving/steering the platform.



### TRANSPORT/WORKING POSITION

The tortoise **1** is displayed when the platform is in working position.

It is not displayed when the platform is in transport position.



## MAINTENANCE WARNING

### ⚠ IMPORTANT ⚠

The hour counter ① and the key ② are displayed when a maintenance warning occurs, a maintenance operation could be necessary.

Always consult the maintenance personnel when a maintenance warning occurs.

The maintenance warning is displayed after every 50 hours of service.

Maintenance can be carried out before the alert depending on how much the platform has been used, for example:

- Maintenance is required every 50 hours of service or every 3 months.
- It is performed after 3 months of operation with only 40 hours of operation, so before the maintenance warning is displayed.
- The maintenance warning cannot be reset before it has been displayed after 50 hours of operation. In this case, maintenance personnel are authorized to perform this operation.



## FAULT CODES

### ⚠ IMPORTANT ⚠

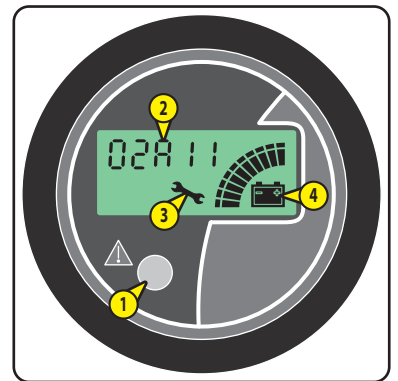
Certain controls may be locked depending on the fault.

Stop the platform as soon as possible and consult the maintenance personnel when a fault occurs:

When a platform fault occurs:

- The fault indicator lamp ① flashes.
- A fault code ② is displayed.
- The key ③ is displayed.
- The battery ④ is displayed.

NB: ⚡ BATTERY CHARGE LEVEL on the previous page when the battery ④ flashes.



## OPERATING THE PLATFORM

### ⚠ IMPORTANT ⚠

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

### TRANSPORT/WORKING POSITION

#### TRANSPORT POSITION

The platform is in TRANSPORT position when:

- The mast is fully retracted.
- The jib is in the range **A** as shown in the illustration.

The turntable is in NEUTRAL position when the basket is between the 2 rear wheels.

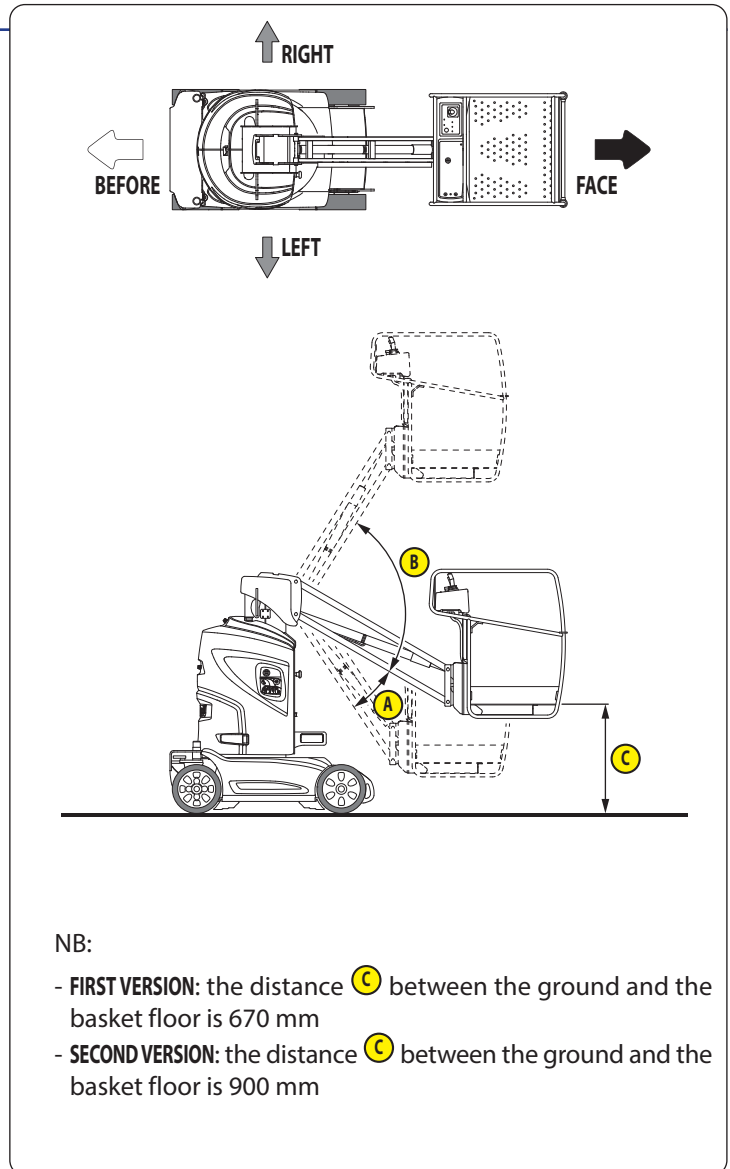
Front, rear, left and right are defined as follows:

- The platform is in TRANSPORT position.
- The turntable is in NEUTRAL position.
- The operator is in the basket facing the direction of the front wheels.

When driving the platform over a long distance, it is recommended to:

- Place the platform in TRANSPORT position.
- Put the turntable in NEUTRAL position.
- Drive the platform forward.

The TRANSPORT position driving speed is automatically activated when the platform is in TRANSPORT position.



#### WORKING POSITION

### ⚠ IMPORTANT ⚠

*Traveling over rough terrain, on unstable ground, on slopes that are steeper than those authorized, (< SPECIFICATIONS) or in any other conditions likely to cause the platform to tip up or become destabilized, is PROHIBITED.*

The platform is in WORKING position when:

- The mast is not fully retracted
- The jib is in the range **B** as shown in the illustration.

NOTE: the turntable can be rotated or not.





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

## 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 basket's emergency stop button is in the ON position.
  - Pull out the battery cut-off/emergency stop button (ON position).
  - Turn the ignition switch to position  or  (depending on version) to activate the controls from the ground.
- or
- Turn the ignition switch to position  or  (depending on version) to activate the controls from the basket.

NOTE: The emergency stop button on the basket control panel must be in the ON position to switch the platform on.

Result:

- The multi-function display comes on.
- The horn and the audible alarm sound once.

N.B.: SECONDARY PROTECTION SYSTEM option SPS - FIRST VERSION "SAFEMANSYSTEM", ▶ OPTIONS.

N.B.: SECONDARY PROTECTION SYSTEM option SPS - SECOND VERSION, ▶ OPTIONS.

### TURN THE PLATFORM OFF

- Turn the ignition switch to position OFF.
- Press the battery cut-off/emergency stop button (OFF position).

### POSITION THE BASKET

- Switch on the platform
- Press and hold down the appropriate activation button.
- Press and hold down the appropriate control button.
- Release the activation button and the control button.

N.B.: It is not possible to activate functions simultaneously.

### GROUND / BASKET EMERGENCY STOP

- Press the battery cut-off/emergency stop button (OFF position).

## OPERATION FROM THE BASKET

### **⚠ IMPORTANT ⚠**

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

### SWITCH THE PLATFORM ON AND OFF

◀ OPERATION FROM THE GROUND LEVEL CONTROL PANEL.

### DRIVING, STEERING AND BRAKING

### **⚠ IMPORTANT ⚠**

*Always refer to the colors of the direction arrows on the chassis and on the control panel in the basket before driving/steering the platform.*

- Switch on the platform
  - Press and release the driving/steering button.
  - Use the control handle to drive, steer and brake.
- NOTE: it is possible to drive and steer simultaneously.

### POSITION THE BASKET

- Switch on the platform
  - Press and release the appropriate activation button.
  - Use the control handle to position the basket.
- N.B.: It is not possible to activate functions simultaneously.

### EMERGENCY STOP

- Press the emergency stop button (OFF position).

**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 (TILT ALARM).

**TRANSPORT POSITION**

**GROUND CONTROLS**

	OVERLOAD ALARM	TILT/OSCILLATION ALARM
RAISE THE MAST	LOCKED	
RAISE/LOWER THE JIB	LOCKED	
TURN THE TURNTABLE (LEFT/RIGHT)	LOCKED	

**CONTROLS IN THE BASKET**

	OVERLOAD ALARM	TILT/OSCILLATION ALARM
RAISE THE MAST	LOCKED	LOCKED
RAISE THE JIB	LOCKED	LOCKED
LOWER THE JIB	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 MAST	LOCKED	
RAISE THE JIB	LOCKED	
LOWER THE JIB	LOCKED	
TURN THE TURNTABLE (LEFT/RIGHT)	LOCKED	

**CONTROLS IN THE BASKET**

	OVERLOAD ALARM	TILT/OSCILLATION ALARM
RAISE THE MAST	LOCKED	LOCKED
LOWER THE MAST	LOCKED	
RAISE THE JIB	LOCKED	LOCKED
LOWER THE JIB	LOCKED	
TURN THE TURNTABLE (LEFT/RIGHT)	LOCKED	
DRIVE (FORWARD/BACKWARD)	LOCKED	LOCKED
STEER (LEFT/RIGHT)	LOCKED	LOCKED

## CHARGE THE BATTERY

### **⚠ IMPORTANT ⚠**

*It is recommended to charge the battery at the end of each day's use.*

*Always charge the battery in a well-ventilated area, protected from sunlight and rain.*

*Do not charge the battery during a lightning storm.*

*Do not charge the battery if the electrolyte temperature is over 40°C.*

*Do not open battery cell caps while charging.*

*Always open the turntable covers during loading.*

*Ensure that the battery terminals cannot come into contact with metal objects.*

*Do not allow any flames or sparks to come into contact with the battery.*

*Do not smoke near to the battery while charging.*

*Do not interrupt the charging cycle.*

*It is recommended to charge the battery to 100% to preserve its autonomy.*

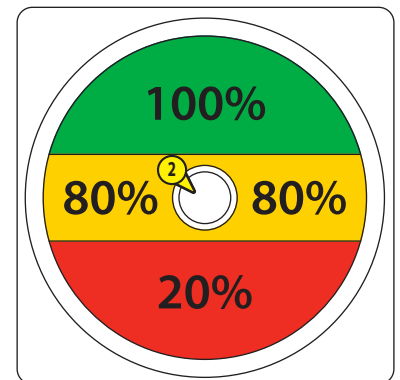
*Check the battery charge level every week when the platform is stored away for a long period; charge them if necessary.*

*Recharge the battery if the gage only displays two bars (battery discharged to 80%).*

*If the charge level drops below 20%, rapid and irreversible damage to the battery will occur.*

NOTE: depending on use, the battery goes from 100% to 20% in approximately 5 hours. The charging time from 20% to 100% is approximately 10 hours.

- Turn the platform off.
- Open the left and right-hand turntable covers.
- Connect the electrical plug **1** of the battery charger to a power source.
- Wait until the battery is fully charged; **BATTERY CHARGER STATUS LIGHT** **2** below.
- Disconnect the electrical plug **1**.
- Close the left and right-hand turntable covers.
- Switch the platform on.
- Wait for the audible alarm to sound once.
- Check the battery charge level on the multi-function display gage; **MULTI-FUNCTION DISPLAY**.
- Turn the platform off.
- Check the battery cell fluid level; **5H - DAILY MAINTENANCE OR EVERY 5 HOURS OF SERVICE**



### **BATTERY CHARGER STATUS INDICATOR LAMP **2****

- Off: the battery charger is not turned on.
- Steady red: initial charging phase.
- Steady yellow: secondary charging phase. The battery is 80% charged.
- Flashing green: battery cell equalization cycle.
- Steady green: the battery is fully charged.
- Flashing red: the battery charger is in alarm mode; refer to maintenance personnel.

## 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, <img alt="arrow icon" data-bbox="255 115 270 130"/> SPECIFICATIONS and STICKERS.  
It is essential that the covers are closed and locked (if applicable) when the platform is being transported.

## LOADING/UNLOADING THE PLATFORM

### ⚠ IMPORTANT ⚠

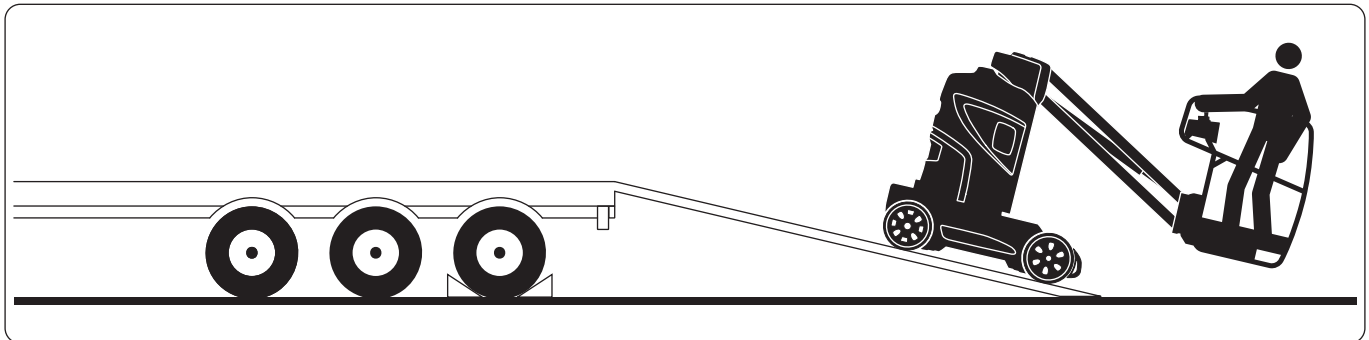
The transport vehicle must be parked on a level surface. The wheels must be chocked to prevent the transport vehicle rolling while the platform is being loaded and unloaded.

The angle of the loading ramps must not exceed the maximum slope accessible, <img alt="arrow icon" data-bbox="245 223 260 238"/> SPECIFICATIONS.

Turntable rotation is prohibited while the platform is being loaded onto the transport vehicle and during unloading.

The platform must be loaded and unloaded using a winch if the loading ramps are slippery, <img alt="arrow icon" data-bbox="255 252 270 267"/> 3 - MAINTENANCE: OCCASIONAL OPERATION: TOW/WINCH.

The platform must be loaded and unloaded using a crane or a lift truck (depending on version) if the angle of the loading ramps exceeds the maximum slope accessible, <img alt="arrow icon" data-bbox="355 278 370 293"/> 3 - MAINTENANCE: OCCASIONAL OPERATION: LIFTING



### LOADING THE PLATFORM ONTO THE TRANSPORT VEHICLE

- From the ground level control panel:
  - Switch the platform on.
  - Put the platform in TRANSPORT position and put the turntable in NEUTRAL position, <img alt="arrow icon" data-bbox="715 495 730 510"/> PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
  - Lower the jib completely.
- Get into the basket. Ensure that the guardrail is in the low position.
- Raise the jib slightly to prevent the basket hitting the ground or the loading ramps.


NOTE: raise the jib in the range  to maintain the TRANSPORT POSITION speed, <img alt="arrow icon" data-bbox="655 571 670 586"/> PLATFORM OPERATION: TRANSPORT/WORKING POSITION.

- Drive the platform forward slowly with the basket at the bottom of the slope, see illustration above.

### UNLOADING THE PLATFORM FROM THE TRANSPORT VEHICLE

NOTE: the platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position, <img alt="arrow icon" data-bbox="165 652 180 667"/> CONFIGURING THE PLATFORM FOR TRANSPORT.

- Switch the platform on.
- Get into the basket. Ensure that the guardrail is in the low position.
- Raise the jib slightly to prevent the basket hitting the ground or the loading ramps.

NOTE: raise the jib in the range  to maintain the TRANSPORT POSITION speed, <img alt="arrow icon" data-bbox="655 719 670 734"/> PLATFORM OPERATION: TRANSPORT/WORKING POSITION.

- Drive the platform backward slowly with the basket at the bottom of the slope, see illustration above.

## CONFIGURING THE PLATFORM FOR TRANSPORT

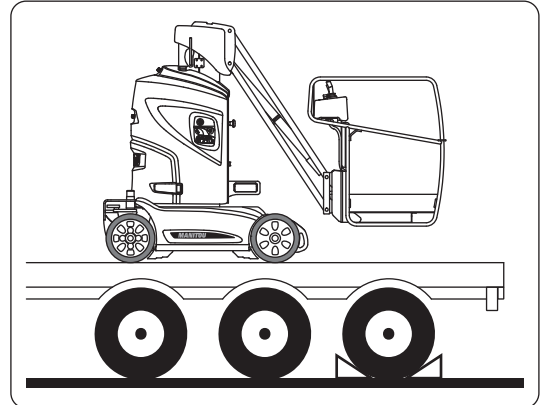
### ⚠ IMPORTANT ⚠

*Turntable rotation is prohibited once on the transport vehicle.*

*The platform should be in TRANSPORT position with the jib arm completely lowered and the turntable in NEUTRAL position, ⚠ PLATFORM OPERATION: TRANSPORT/WORKING POSITION.*

NB: The platform is switched on. The platform is in TRANSPORT position.  
The turntable is in NEUTRAL position.

- Lower the jib completely.
- Get out of the basket.
- Turn the platform off. Remove the key (if applicable).



## SECURING THE PLATFORM

### ⚠ IMPORTANT ⚠

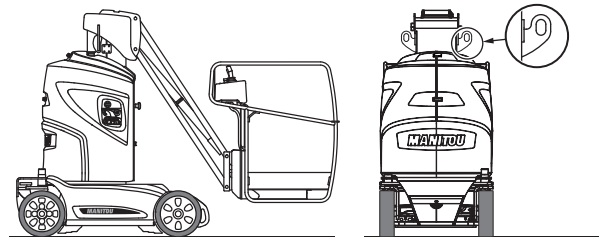
*Turntable rotation is prohibited once on the transport vehicle.*

*Make sure that the platform is properly secured to the transport vehicle.*

Depending on the version, the platform can be secured either by the chassis or by the mast.

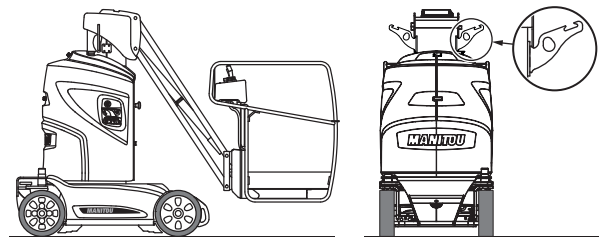
### VERSION 1:

Platform without fork pockets and without anchoring points on the mast.



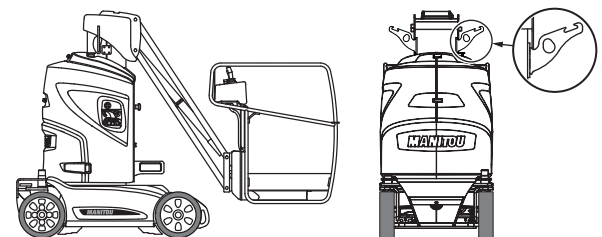
### VERSION 2:

Platform without fork pockets and with anchoring points on the mast.

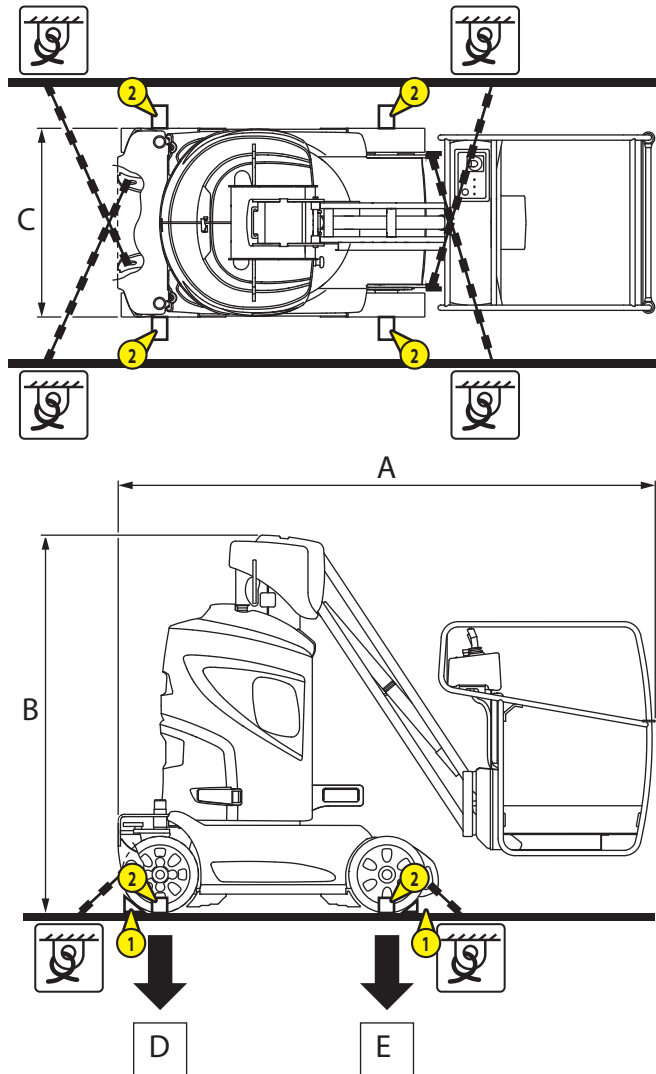


### VERSION 3:

Platform with fork pockets and with anchoring points on the mast.



**SECURING THE PLATFORM BY THE CHASSIS (FOR VERSIONS 1, 2 AND 3)**



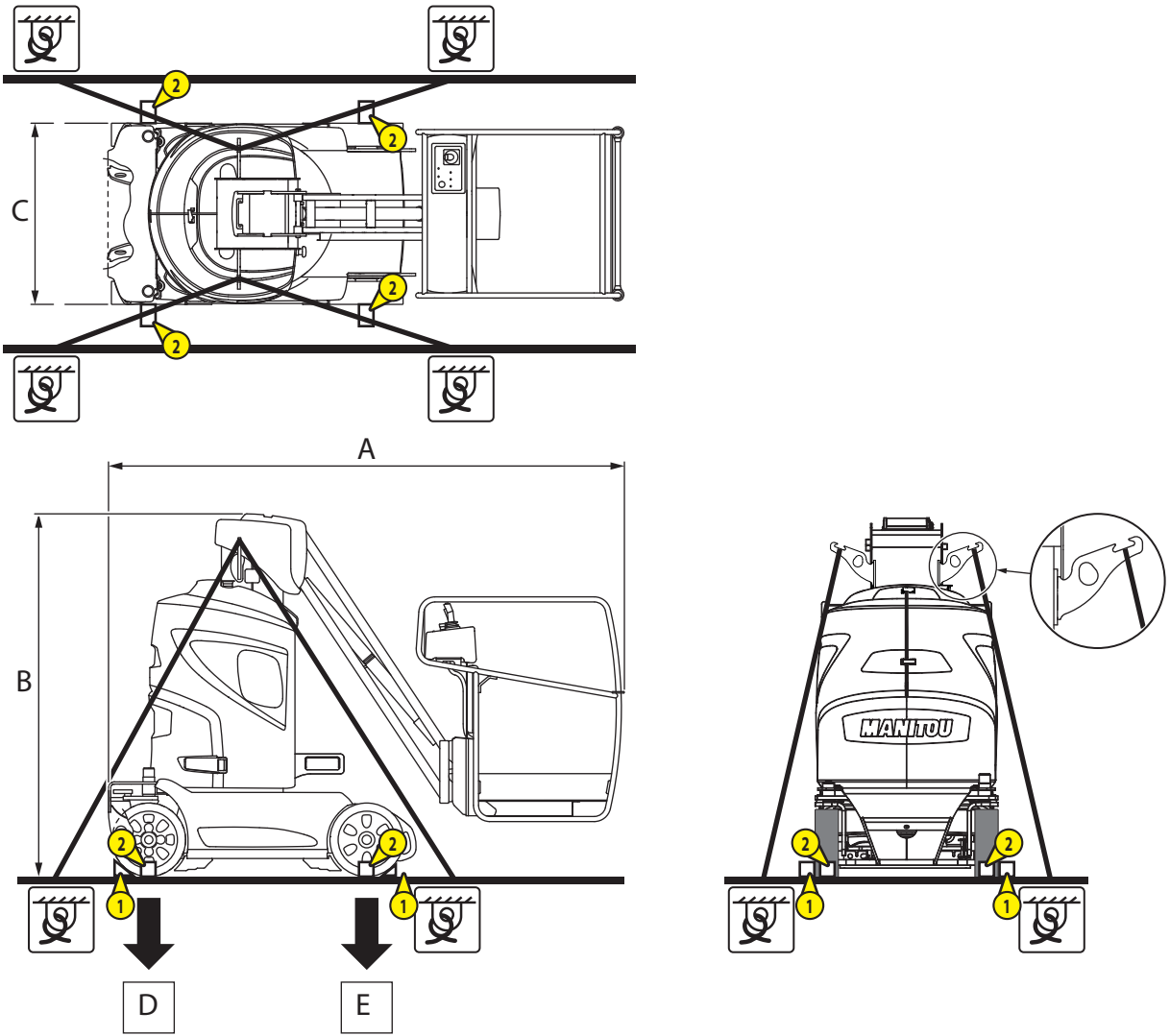
		80 VJR 80 VJR EVOLUTION	100 VJR 100 VJR EVOLUTION
A		2955 mm	2825 mm
B		2000 mm	2000 mm
C		1000 mm	1000 mm
D	"LOAD ON 2 WHEELS" LOAD ON 2 WHEELS	1320 kg (2910 lbs)	1580 kg (3480 lbs)
E	"LOAD ON 2 WHEELS" LOAD ON 2 WHEELS	930 kg (2050 lbs)	1070 kg (2360 lbs)
F	"TOTAL MASS" TOTAL WEIGHT	2250 kg (4960 lbs)	2650 kg (5840 lbs)

NOTE: the platform is powered down. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position, <img alt="arrow icon" data-bbox="288 782 302 796"/> CONFIGURING THE PLATFORM FOR TRANSPORT.

- Make sure that the platform is powered down: the ignition switch must be in the OFF position, the key must be removed (if applicable) and the battery cut-off/emergency stop button must be in the OFF position.
- Fix chocks ① to the flatbed in front of each of the platform's wheels.
- Fix chocks ② to the flatbed on the outside of each of the platform's wheels.
- Locate the 4 anchoring points on the platform chassis, <img alt="arrow icon" data-bbox="288 858 302 872"/> STICKERS: ANCHORING POINT
- Secure the platform to the transport vehicle with 4 chains/straps attached to the anchoring points on the platform chassis.

NB: <img alt="arrow icon" data-bbox="288 890 302 904"/> STICKERS: SECURING

**SECURING THE PLATFORM BY THE MAST (FOR VERSIONS 2 AND 3)**



	80 VJR 80 VJR EVOLUTION	100 VJR 100 VJR EVOLUTION
A	2955 mm	2825 mm
B	2000 mm	2000 mm
C	1000 mm	1000 mm
D	"LOAD ON 2 WHEELS" LOAD ON 2 WHEELS	1320 kg (2910 lbs)
E	"LOAD ON 2 WHEELS" LOAD ON 2 WHEELS	930 kg (2050 lbs)
F	"TOTAL MASS" TOTAL WEIGHT	2250 kg (4960 lbs)

NOTE: the platform is powered down. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position, <img alt="arrow icon" data-bbox="315 760 330 770"/> CONFIGURING THE PLATFORM FOR TRANSPORT.

- Make sure that the platform is powered down: the ignition switch must be in the OFF position, the key must be removed (if applicable) and the battery cut-off/emergency stop button must be in the OFF position.
- Fix chocks ① to the flatbed in front of each of the platform's wheels.
- Fix chocks ② to the flatbed on the outside of each of the platform's wheels.
- Locate the 2 anchoring points on the platform's mast, <img alt="arrow icon" data-bbox="315 840 330 850"/> STICKERS: ANCHORING POINT
- Secure the platform to the transport vehicle with 2 straps attached to the anchoring points on the platform chassis.

NB: <img alt="arrow icon" data-bbox="100 875 115 885"/> STICKERS: SECURING

## RESCUE PROCEDURE


### ⚠ IMPORTANT ⚠

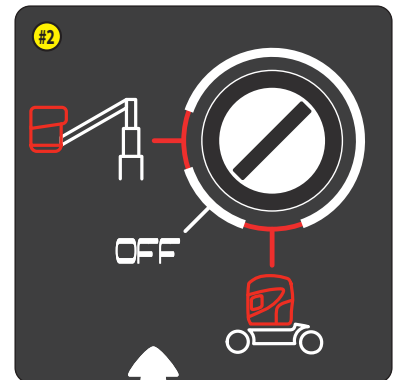
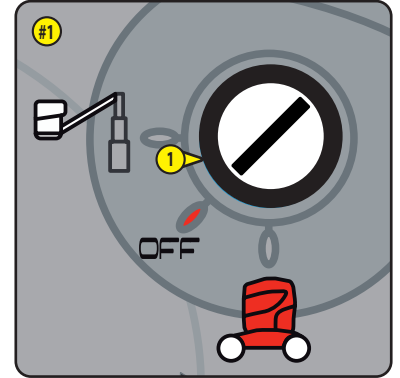
*This procedure should be read and fully understood by the operator and any other persons likely to be involved with working on the platform in the event of a breakdown or a person getting trapped in the basket.*

### 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 maneuvering, the person present on the ground can take over the platform controls from the ground based control panel.

- Turn the ignition switch to position .
- Lower the basket using the appropriate control keys.



### IF THERE IS AN ACCIDENT OR BREAKDOWN - EMERGENCY CONTROLS

#### ⚠ IMPORTANT ⚠

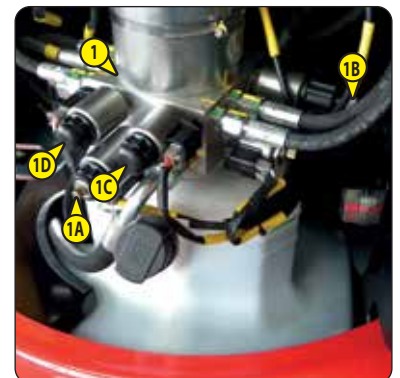
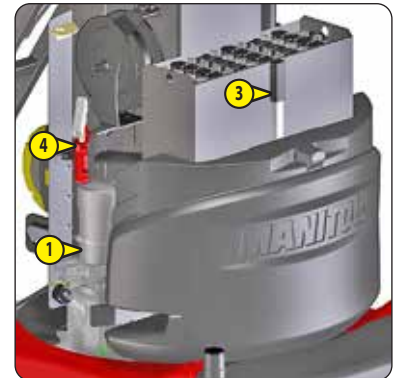
*The tilt alarm and overload alarm may no longer be active while the emergency controls are in use. Operate valve buttons carefully to avoid damaging them.*

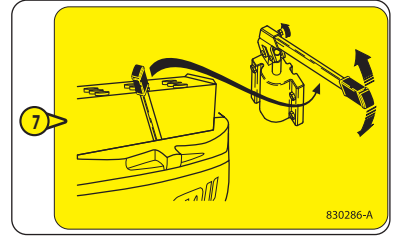
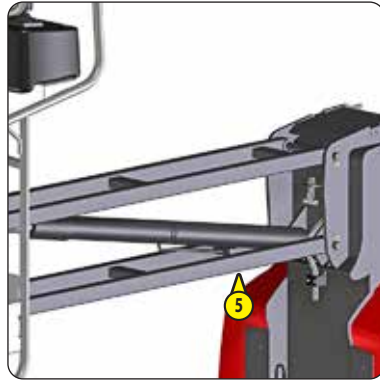
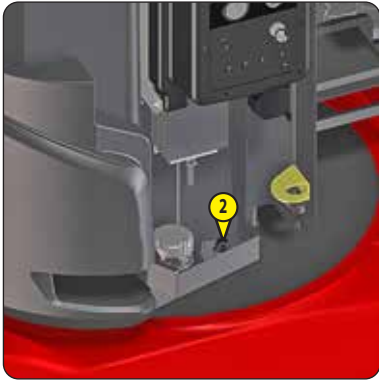
If an accident or breakdown occurs making the control panels at ground level and in the basket unusable, the platform is provided with emergency controls, which enable certain platform controls to be operated.

- Open and remove the left and right turntable covers.
- Locate the various components of the emergency controls:
  - Hydraulic unit ① and valves ①A to ①D.
  - Valve ②
  - Pump lever ③ <math>\leftarrow</math> STICKERS: MANUAL PUMP LEVER ⑥.
  - Manual backup pump ④.
- Locate the valve ⑤ under the jib cylinder <math>\leftarrow</math> STICKERS: SAFETY VALVE ⑦.
- Activate platform functions as described on the following pages.

N.B.: <math>\leftarrow</math> STICKERS - MANUAL MAST CONTROL PROCEDURE

⑧ and MANUAL CONTROL PROCEDURE ⑨, <math>\leftarrow</math> STICKERS.





**A**

830100-B

**B**

**C**

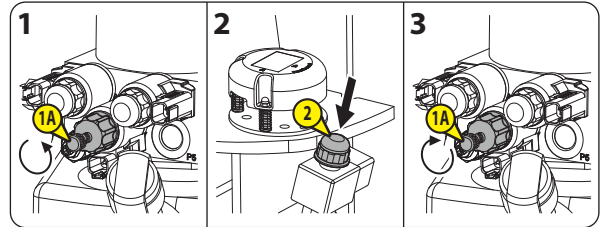
830099-C

**D**

830099-C

### A RETRACT THE MAST

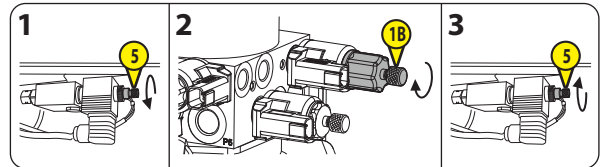
- 1 - Turn the valve 1A counterclockwise until it stops.
- 2 - Press and hold down the valve button 2, then release it when the desired position is reached.
- 3 - Turn the valve 1A clockwise until it stops.



### B LOWER THE JIB

N.B.: The mast must be retracted in order to be able to lower the jib.

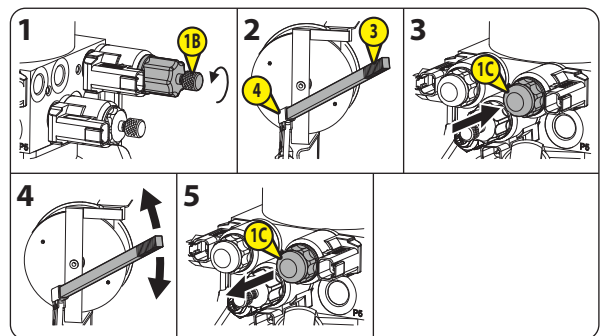
- 1 - Turn the valve 5 counterclockwise until it stops.
- 2 - Turn the valve 1B clockwise until it stops, then turn it counterclockwise until it stops when the desired position is reached.
- 3 - Turn the valve 5 clockwise until it stops.



### C TURN THE TURNTABLE TO THE RIGHT

- 1 - Turn the valve 1B counterclockwise until it stops.
- 2 - Place the pump lever 3 on the manual backup pump 4.
- 3 - Press and hold down button 1C.
- 4 - Pump to rotate the turntable, stop when the desired position is reached.
- 5 - Release the button 1C.

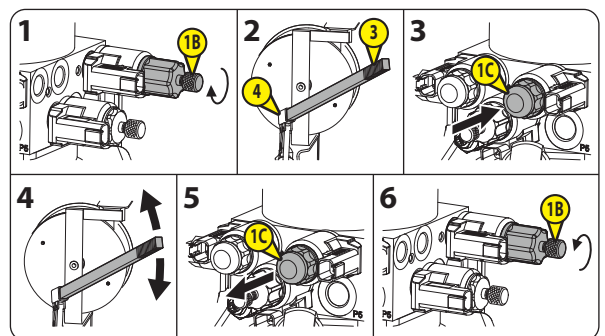
NOTE: remove the pump lever, put it back in place and close the left and right turntable covers when no other emergency functions are necessary.



### D TURN THE TURNTABLE TO THE LEFT

- 1 - Turn the valve 1B clockwise until it stops.
- 2 - Place the pump lever 3 on the manual backup pump 4.
- 3 - Press and hold down button 1C.
- 4 - Pump to rotate the turntable, stop when the desired position is reached.
- 5 - Release the button 1C.
- 6 - Turn the valve 1B counterclockwise until it stops.

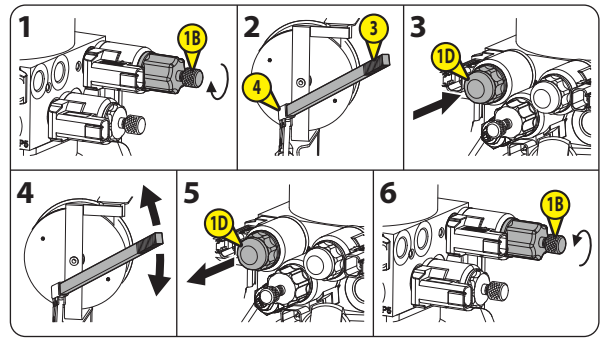
NOTE: remove the pump lever, put it back in place and close the left and right turntable covers when no other emergency functions are necessary.



### **E STEER TO THE RIGHT**

- 1 - Turn the valve **1B** clockwise until it stops.
- 2 - Place the pump lever **3** on the manual backup pump **4**.
- 3 - Press and hold down button **1D**.
- 4 - Pump to steer the platform, stop when the desired position is reached.
- 5 - Release the button **1D**.
- 6 - Turn the valve **1B** counterclockwise until it stops.

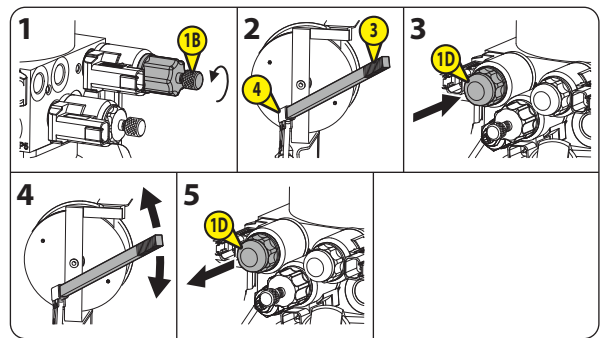
NOTE: remove the pump lever, put it back in place and close the left and right turntable covers when no other emergency functions are necessary.



### **F STEER TO THE LEFT**

- 1 - Turn the valve **1B** counterclockwise until it stops.
- 2 - Place the pump lever **3** on the manual backup pump **4**.
- 3 - Press and hold down button **1D**.
- 4 - Pump to steer the platform, stop when the desired position is reached.
- 5 - Release the button **1D**.
- 6 - Turn the valve **1B** clockwise until it stops.



NOTE: remove the pump lever, put it back in place and close the left and right turntable covers when no other emergency functions are necessary.

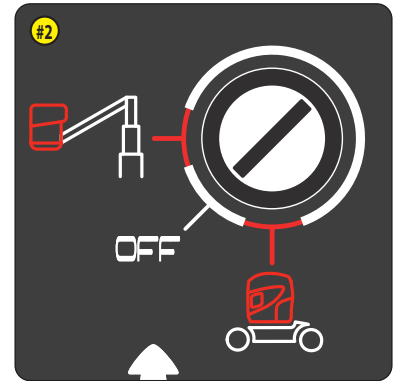
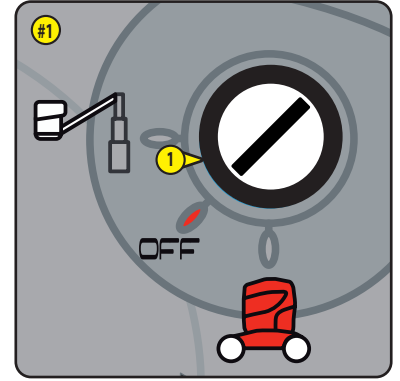


## OPTIONS

### OPTIONS THAT CAN BE ACTIVATED/DEACTIVATED

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

- Switch on the platform
- Turn the ignition switch **1** to position  or  (depending on version) to activate the controls from the basket.
- Get into the basket.
- Press and hold down the buttons **2A**, **3A** and **4A**.
- Release the buttons when the audible alarm sounds once and when the indicator lamps **2B**, **3B** and **4B** flash one after the other.

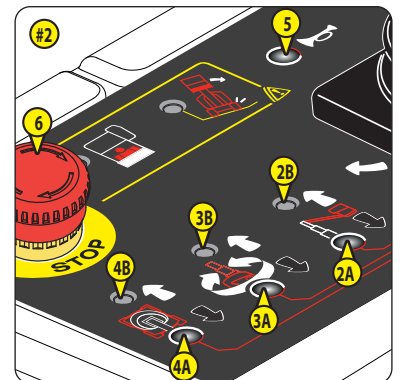
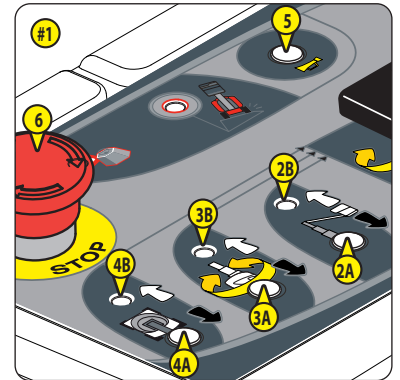


### ORANGE FLASHING LIGHT

- Press and hold down the buttons **3A** and **4A**.
- Release the buttons when the indicator lamps **2B**, **3B** and **4B** go out.
- Press the key **3A** and release it to activate/deactivate the option.  
N.B.: Indicator lamp **3B** on = option activated, off = option deactivated.
- Press and hold down one of the buttons **2A**, **3A** or **4A**.
- Release the button when the indicator lamps **2B**, **3B** and **4B** flash at the same time.
- Put the emergency stop button **6** in the OFF position.
- Put the emergency stop button **6** in the ON position.
- Check that the option is activated/deactivated.
- Get out of the basket.

### ALL MOVEMENTS ALARM

- Press and hold down the buttons **3A** and **4A**.
- Release the buttons when the indicator lamps **2B**, **3B** and **4B** go out.
- Press the key **4A** and release it to activate/deactivate the option.  
N.B.: Indicator lamp **4B** on = option activated, off = option deactivated.
- Press and hold down one of the buttons **2A**, **3A** or **4A**.
- Release the button when the indicator lamps **2B**, **3B** and **4B** flash at the same time.
- Put the emergency stop button **6** in the OFF position.
- Put the emergency stop button **6** in the ON position.
- Check that the option is activated/deactivated.
- Get out of the basket.



### DRIVING/STEERING ALARM

- Press and hold down the buttons **4A** and **5**.
- Release the buttons when the indicator lamps **2B**, **3B** and **4B** go out.
- Press the key **2A** and release it to activate/deactivate the option.  
NOTE: indicator lamp **2B**: on = option activated, off = option deactivated.
- Press and hold down one of the buttons **2A**, **3A** or **4A**.
- Release the button when the indicator lamps **2B**, **3B** and **4B** flash at the same time.
- Put the emergency stop button **6** in the OFF position.
- Put the emergency stop button **6** in the ON position.
- Check that the option is activated/deactivated.
- Get out of the basket.

## SECONDARY PROTECTION SYSTEM SPS - FIRST VERSION "SAFEMANSYSTEM"

### ⚠ IMPORTANT ⚠

*Operate the controls extremely carefully during attempts at clearance.*

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

N.B.: The audible alarm sounds once and the flashing light SPS ① flashes several times when the platform is powered up. This indicates that the secondary protection system SPS "SafeManSystem" is operating correctly.

N.B.: The flashing light SPS ① can be blue or red depending on the country.

### OPERATION DESCRIPTION

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

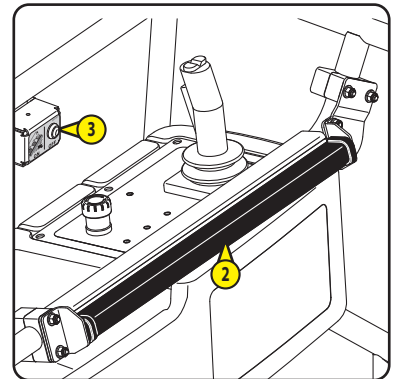
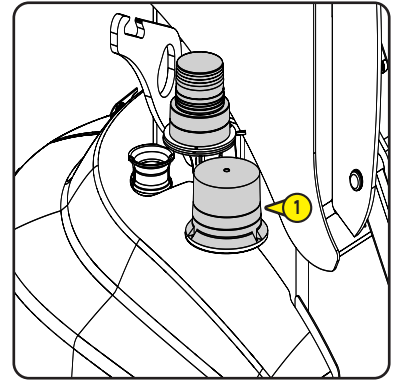
- All of the platform controls are stopped and locked.
- The horn sounds intermittently and the flashing light SPS ① flashes.
- If you are still trapped between the pressure sensitive bar SPS and the structure:
  - Press and release the reset button SPS ③.

Result:

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

Result:

- The platform controls are unlocked.
- The horn stops sounding and the flashing light SPS stops flashing.



## SECONDARY PROTECTION SYSTEM SPS - SECOND VERSION

### ⚠ IMPORTANT ⚠

*Activate the platform controls extremely carefully during attempts at clearance.*

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

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

N.B.: The flashing light SPS ① can be blue or red depending on the country.

### OPERATION DESCRIPTION

If you are trapped between the safety cable SPS ② and a structure A:

- All of the platform controls are stopped and locked.
- The horn sounds intermittently and the flashing light SPS ① flashes.
- If you are still trapped between the safety cable SPS and the structure:
  - Press and release the reset button SPS ③.

Result:

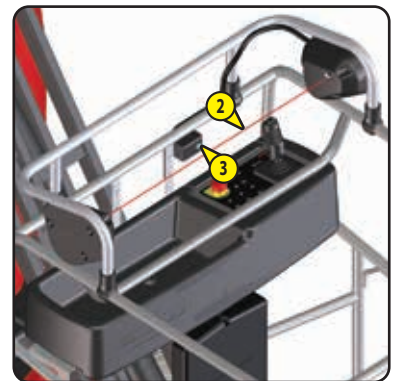
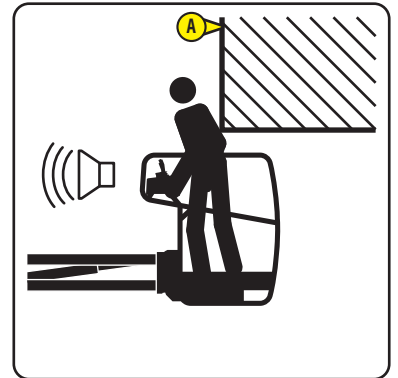
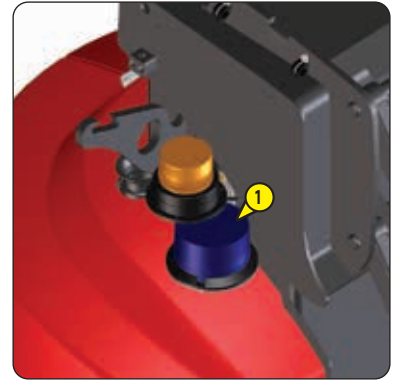
- The platform controls are unlocked, use them to get free.
- The horn stops sounding and the flashing light SPS stops flashing when you are no longer trapped.

- If you are no longer trapped between the safety cable SPS and the structure:

- Press and release the reset button SPS ③.

Result:

- The platform controls are unlocked.
- The horn stops sounding and the flashing light SPS stops flashing.



# ***3 - MAINTENANCE***

## 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 should be in neutral position, and the jib should be completely lowered (⏪ 2 - DESCRIPTION: PLATFORM OPERATION).*

## 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 NON-OEM PARTS OR COMPONENTS NOT APPROVED BY THE MANUFACTURER, MEANS YOU LOSE THE BENEFIT OF THE CONTRACTUAL GUARANTEE.**

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

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

Through its network, MANITOU provides the user with,

- Know-how and competence.
- The guarantee of high-quality work.
- Original replacement parts.
- Help with preventive maintenance.
- Efficient help with diagnosis.
- Improvements due to experience feedback.
- Operator training.
- Only the MANITOU network has detailed knowledge of the design of the 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](http://www.manitou.com)*

## DAILY AND WEEKLY MAINTENANCE

### **⚠ IMPORTANT ⚠**

**DAILY MAINTENANCE MUST BE CARRIED OUT BY THE OPERATOR BEFORE USING THE PLATFORM.  
WEEKLY MAINTENANCE MUST BE CARRIED OUT BY THE MAINTENANCE PERSONNEL.**

#### **↻ DAILY MAINTENANCE**

- CHECK	General inspection .....	3-10
- CHECK	Hydraulic oil level .....	3-10
- CHECK	Battery charge level .....	3-10
- CHECK	Battery fluid level .....	3-11
- CHECK	Platform controls .....	3-12
- CHECK	Secondary protection system SPS - first version "SafeManSystem" .....	3-17
- CHECK	Secondary protection system SPS - second version .....	3-18

#### **↻ WEEKLY MAINTENANCE**

- CHECK	Tightening of the wheel nuts and bolts (depending on version) .....	3-19
- CHECK	Battery electrolyte specific gravity .....	3-19
- LUBRICATE	Front wheel hubs (depending on version) .....	3-20
- BLEED	Battery tray .....	3-20
- RESET	Maintenance warning .....	3-20

## MANDATORY SERVICING AND PERIODIC MAINTENANCE

### ⚠ IMPORTANT ⚠

THE MANDATORY SERVICE AND 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.

	⬇	⬇	OR	⬇
SCHEDULE ➡	FIRST 50 HOURS	FIRST 6 MONTHS		FIRST 200 HOURS
MANDATORY SERVICE ➡	FIRST 50 HOURS + ①	FIRST 200 HOURS OR 6 MONTHS		FIRST 200 HOURS OR 6 MONTHS + ③
MACHINE COUNTER ➡				
DATE OF SERVICING ➡				

SCHEDULE ➡	100 H	150 H	200 H or 1 YEAR	250 H	300 H
PERIODIC MAINTENANCE ➡	① + ②	①	① + ② + ③	①	① + ②
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	350 H	400 H or 2 YEARS	450 H	500 H	550 H
PERIODIC MAINTENANCE ➡	①	① + ② + ③	①	① + ②	①
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	600 H or 3 YEARS	650 H	700 H	750 H	800 H or 4 YEARS
PERIODIC MAINTENANCE ➡	① + ② + ③	①	① + ②	①	① + ② + ③
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	850 H	900 H	950 H	1000 H or 5 YEARS	1050 H
PERIODIC MAINTENANCE ➡	①	① + ②	①	① + ② + ③	①
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	1100 H	1150 H	1200 H or 6 YEARS	1250 H	1300 H
PERIODIC MAINTENANCE ➡	① + ②	①	① + ② + ③	①	① + ②
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	1350 H	1400 H or 7 YEARS	1450 H	1500 H	1550 H
PERIODIC MAINTENANCE ➡	①	①+②+③	①	①+②	①
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	1600 H or 8 YEARS	1650 H	1700 H	1750 H	1800 H or 9 YEARS
PERIODIC MAINTENANCE ➡	①+②+③	①	①+②	①	①+②+③
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	1850 H	1900 H	1950 H	2000 H or 10 YEARS	2050 H
PERIODIC MAINTENANCE ➡	①	①+②	①	①+②+③	①
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	2100 H	2150 H	2200 H or 11 YEARS	2250 H	2300 H
PERIODIC MAINTENANCE ➡	①+②	①	①+②+③	①	①+②
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	2350 H	2400 H or 12 YEARS	2450 H	2500 H	2550 H
PERIODIC MAINTENANCE ➡	①	①+②+③	①	①+②	①
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	2600 H or 13 YEARS	2650 H	2700 H	2750 H	2800 H or 14 YEARS
PERIODIC MAINTENANCE ➡	①+②+③	①	①+②	①	①+②+③
MACHINE COUNTER ➡					
DATE OF SERVICING ➡					

SCHEDULE ➡	2850 H	2900 H	2950 H	3000 H or 15 YEARS
PERIODIC MAINTENANCE ➡	①	①+②	①	①+②+③
MACHINE COUNTER ➡				
DATE OF SERVICING ➡				

## MANDATORY SERVICE - FIRST 50 HOURS

This service must be carried out in the first 50 hours of service.

- CHECK	Tightening of the fixing screws for the wheel reduction gears .....	3-25
- CHECK	Tightening of the mast fixing screws .....	3-30
- CHECK	Tightening of the fixing screws on the turntable rotation motor .....	3-30
- CHECK	Tightening of the fixing screws for the crown gear .....	3-31
- CHECK	Counterweight fixing screw tightening .....	3-32
- CHECK	Tightening of the fork pocket fixing screws (depending on version) .....	3-32


## MANDATORY SERVICE - FIRST 200 HOURS OR 6 MONTHS

This service must be carried out after approximately the first 200 hours of service or within the 6 months following the start-up of the platform (whichever occurs first):

### **FIRST 6 MONTHS BEFORE THE FIRST 200 HOURS**

- If the platform has not completed 200 hours of service in the first 6 months, carry out only the compulsory service.

### **FIRST 200 HOURS BEFORE THE FIRST 6 MONTHS**

- If the platform has reached the first 200 hours of service before the first 6 months have expired, perform both the mandatory service and the 200-hour periodic maintenance ( 200H - PERIODIC MAINTENANCE - EVERY 200 HOURS OF SERVICE OR 1 YEAR).

- CHECK	General inspection .....	3-10
- CHECK	Platform controls .....	3-12
- CHECK	Secondary protection system SPS - first version "SafeManSystem" .....	3-17
- CHECK	Secondary protection system SPS - second version .....	3-18
- CHECK	Tightening of the wheel nuts and bolts (depending on version) .....	3-19
- CHECK	Battery electrolyte specific gravity .....	3-19
- LUBRICATE	Front wheel hubs (depending on version) .....	3-20
- BLEED	Battery tray .....	3-20
- CHECK	Emergency controls .....	3-21
- CHECK	Tightening of electrical connections .....	3-21
- LUBRICATE	Mast .....	3-22
- CLEAN	Electric motor brushes <b>according to model</b> .....	3-23
- CHECK	Tightening of the fixing screws for the wheel reduction gears .....	3-25
- CHECK	Overload alarm .....	3-26
- CHECK	Stopping distance and braking on a slope .....	3-27
- CHECK	Mast setting .....	3-28
- CHECK	Hydraulic hoses .....	3-29
- LUBRICATE	Crown gear .....	3-29
- CHECK	Tightening of the mast fixing screws .....	3-30
- CHECK	Tightening of the fixing screws on the turntable rotation motor .....	3-30
- CHECK	Tightening of the fixing screws for the crown gear .....	3-31
- CHECK	Counterweight fixing screw tightening .....	3-32
- CHECK	Tightening of the fork pocket fixing screws (depending on version) .....	3-32
- CHECK	Condition of cylinders * .....	3-34
- CHECK	Condition of electric wiring * .....	3-34

**\* Consult your dealer.**

## ➔ ① 50H - MAINTENANCE EVERY 50 HOURS OF SERVICE OR EVERY 3 MONTHS

### ALSO PERFORM THE DAILY AND WEEKLY MAINTENANCE.

- CHECK	Tightening of the wheel nuts and bolts (depending on version) .....	3-21
- CHECK	Battery electrolyte specific gravity .....	3-21
- LUBRICATE	Front wheel hubs (depending on version) .....	3-21
- BLEED	Battery tray .....	3-21
- CHECK	Emergency controls .....	3-21
- CHECK	Tightening of electrical connections .....	3-21
- LUBRICATE	Mast .....	3-22
- CLEAN	Electric motor brushes <b>according to model</b> .....	3-23
- RESET	Maintenance warning .....	3-24

## ➔ ② 100 H - MAINTENANCE EVERY 100 HOURS OF SERVICE OR EVERY 6 MONTHS

### ALSO PERFORM THE DAILY AND WEEKLY MAINTENANCE AND THE PERIODIC MAINTENANCE AT 50 HOURS OF SERVICE.

- CHECK	Tightening of the fixing screws for the wheel reduction gears .....	3-25
- CHECK	Overload alarm .....	3-26
- CHECK	Stopping distance and braking on a slope .....	3-27
- CHECK	Mast setting .....	3-28
- CHECK	Hydraulic hoses .....	3-29
- LUBRICATE	Crown gear .....	3-29
- RESET	Maintenance warning .....	3-29

## ➔ ③ 200H - PERIODIC MAINTENANCE - EVERY 200 HOURS OF SERVICE OR 1 YEAR

### ALSO PERFORM THE DAILY AND WEEKLY MAINTENANCE AND THE PERIODIC MAINTENANCE AT 50 HOURS AND 100 HOURS OF SERVICE.

- CHECK	Tightening of the mast fixing screws .....	3-30
- CHECK	Tightening of the fixing screws on the turntable rotation motor .....	3-30
- CHECK	Tightening of the fixing screws for the crown gear .....	3-31
- CHECK	Counterweight fixing screw tightening .....	3-32
- CHECK	Tightening of the fork pocket fixing screws (depending on version) .....	3-32
- REPLACE	Hydraulic fluid .....	3-33
- REPLACE	Hydraulic filter .....	3-33
- CLEAN	Suction strainer .....	3-33
- CHECK	Condition of cylinders * .....	3-34
- CHECK	Condition of electric wiring * .....	3-34
- RESET	Maintenance warning .....	3-34

*\* Consult your dealer.*

## OCCASIONAL MAINTENANCE AND OPERATION

### ➔ OCCASIONAL MAINTENANCE

- REPLACE	Wheels .....	3-35
- REPLACE	Battery .....	3-37
- REPLACE	Fuses .....	3-37

### ➔ OCCASIONAL OPERATION

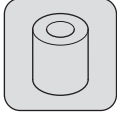
- TOW/WINCH	Platform .....	3-38
- LIFT	Platform .....	3-39
- TRANSPORT	Platform .....	3-42

## FILTERS AND CARTRIDGES



HYDRAULIC OIL CARTRIDGE

### OTHER FILTERS AND CARTRIDGES



SUCTION STRAINER

## LUBRICANTS

### ⚠ 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.

### RECOMMENDATION

HYDRAULICS		RECOMMENDATION									
DESCRIPTION	CAPACITY	-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C
HYDRAULIC OIL TANK	22 L	ISO VG 100									
		ISO VG 68									
		MANITOU ISO VG 46 HYDRAULIC FLUID									
		ISO VG 37									
		ISO VG 32									

LIFTING STRUCTURE		RECOMMENDATION									
DESCRIPTION	CAPACITY	-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C
GENERAL GREASING		MANITOU BLACK MULTI-PURPOSE LUBRICANT									
GREASING OF THE MAST		MANITOU BLACK MULTI-PURPOSE LUBRICANT									
CROWN GEAR BEARINGS		MANITOU BLACK MULTI-PURPOSE LUBRICANT									
CROWN GEAR TEETH		MANITOU MULTI-PURPOSE EXTREME PRESSURE LUBRICANT									

#### ⚠ IMPORTANT ⚠

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

NOTE: The turntable covers must be opened and removed to carry out the general inspection of the platform. They must be put back in place and closed once the inspection has finished.

The operator must perform a visual inspection of the platform:

- Check that the operator's manual is clean and complete.
- Check the stickers and make sure they are all present, clean and legible, ☞ 2 - DESCRIPTION: STICKERS.
- Check for leaks: battery fluid, 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, tires, tie rods, crown gear, shafts, etc.
- Check the condition of the electrical components: control panels, control handles, switches, buttons, indicator lamps, battery, fuses, cables, harnesses, flashing 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 unauthorized modifications.
- Check the general cleanliness of the platform: basket floor, turntable compartments, etc.

### CHECK

#### Hydraulic oil level

#### ⚠ IMPORTANT ⚠

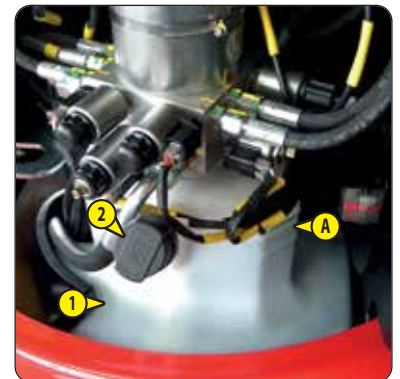
*The platform must be in TRANSPORT position with the jib lowered completely.*

*There can be a difference in level 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.
- Clean the outside of the tank ① with a clean cloth.
- Check the oil level. The level is correct when the oil is between the marks A MINI and MAXI.
- If the level is low:
  - Remove the cap from the tank ②.
  - Add hydraulic oil until the correct level is reached, ☞ LUBRICANTS.
  - Refit the tank cap.
- If the level is correct:
  - Ensure that the tank cap ② is correctly closed.



### CHECK

#### Battery charge level

#### ⚠ IMPORTANT ⚠

*If there is doubt about the battery voltage, refer to the maintenance personnel.*

*Do not use the platform if the battery charge is lower than 20%.*

- Switch the platform on.
- Check the battery charge level displayed on the multi-function display. It should be charged to 100%.
- Switch off the power to the platform.



**⚠ IMPORTANT ⚠**

At all times, make sure that:

- The positive terminals cannot come into contact with the negative terminals.
- The positive terminals cannot come into contact with metallic parts of the platform.

Do not add distilled water if the battery charge level is not 100%.

The battery contains a highly corrosive liquid. Always wear protective clothing, safety gloves, and goggles or a face shield during maintenance. Avoid contact with any part of the body or clothing at all times. Rinse any exposed area with clean water and seek medical advice.

Clean and dry the battery cell caps before closing them.

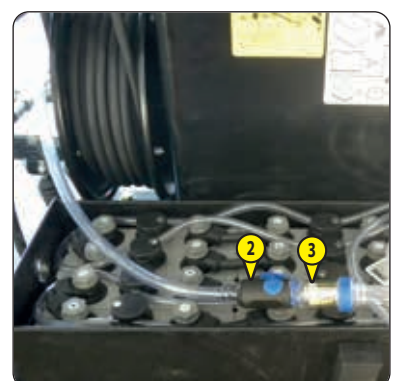
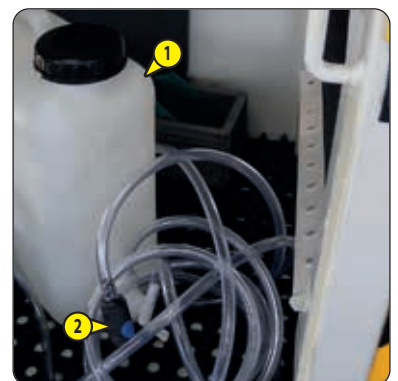
NOTE: The platform is powered down. The right turntable cover is open.

**STANDARD**

- Open the left turntable cover.
- Open one of the battery cell caps ①.
- The level is correct when the liquid reaches the top of the filter ②.
- If the level is low, add distilled water until the correct level is reached.
- Clean and dry the battery cell cap.
- Close the battery cell cap.
- Repeat the steps for all the battery cells.
- Close the left and right turntable covers.

**OPTION (CENTRAL FILLING)**

- Open the left turntable cover.
- The level is correct when the fill level indicators are all at the top ①.
- If one or more fill level indicators are at the bottom ②:
  - Fill the tank ③ with distilled water.
  - Connect the connector ② on the tank to the connector ③ on the battery's central filling system.
  - Put the tank at least 3 meters from the ground. Make sure not to damage the filler pipe.
  - Open the valve on the tank.
  - Close it when the fill level indicators are all at the top ①.
  - Disconnect the connectors ② and ③.



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

**⚠ 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 maneuvering 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.

**GROUND LEVEL CONTROL PANEL**

**IGNITION SWITCH AND BATTERY CUT-OFF/EMERGENCY STOP BUTTON**

NOTE: The battery cut-off/emergency stop button is locked (OFF position). The ignition switch is in the position OFF. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position.

- Ensure that the emergency stop button on the basket control panel is in the ON position.
- Pull out the battery cut-off/emergency stop button (ON position).
- Turn the ignition switch to the GROUND LEVEL CONTROLS position:

NOTE: SECONDARY PROTECTION SYSTEM option SPS, ◀ CHECK: SECONDARY PROTECTION SYSTEM SPS - FIRST VERSION "SAFEMANSYSTEM" (OPTION) or ◀ CHECK: SECONDARY PROTECTION SYSTEM SPS - SECOND VERSION (OPTION).

Result:

- The multi-function display must come on.
- The horn and the audible alarm should sound once.

- Press the battery cut-off/emergency stop button.

Result:

- The battery cut-off/emergency stop button should be locked (OFF position).
- The multi-function display must turn off.

- Pull out the emergency stop/battery cut-off button (ON position).

**PLATFORM CONTROLS**

NOTE: The platform is switched on. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position.

NOTE:

- ORANGE FLASHING LIGHT option activated: the orange FLASHING LIGHT must come on when the controls are activated.
- ALL MOVEMENTS ALARM option activated: the horn and the audible alarm must sound intermittently when the controls are activated.

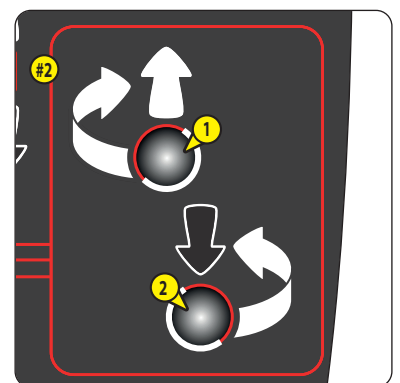
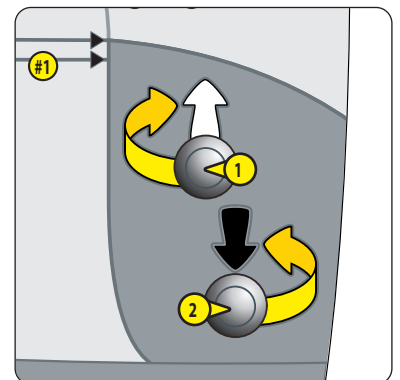
- Do not press any of the activation buttons.
- Press and hold down the control button #1, then release it.
- Press and hold down the control button #2, then release it.

Result:

- None of the controls should be activated.
- Press and hold down the jib activation button.
- Press and hold down the control button #1 to raise the jib, then release it.
- Press and hold down the control button #2 to lower the jib, then release it.
- Release the jib activation button.
- Press and hold down the turntable activation button.
- Press and hold down the control button #1 to turn the turntable to the left, then release it.
- Press and hold down the control button #2 to turn the turntable to the right, then release it.
- Release the turntable activation button.
- Press and hold down the mast activation button.
- Press and hold down the control button #1 to raise the mast, then release it.
- Press and hold down the control button #2 to lower the mast, then release it.
- Release the mast activation button.

Result:

- It should be possible to activate all the controls.
- Put the platform in TRANSPORT position, lower the jib completely and put the turntable in NEUTRAL position.



## EMERGENCY CONTROLS

NOTE: The platform is switched on. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position.

- Press the emergency stop button on the basket control panel (OFF position).
- Activate all the platform controls one by one using the ground level control panel.

Result:

- It should be possible to activate all the controls.
- ORANGE FLASHING LIGHT option activated: the orange FLASHING LIGHT must come on when the controls are activated.
- ALL MOVEMENTS ALARM option activated: the horn and the audible alarm must sound intermittently when the controls are activated.
- Raise the mast for 10 seconds, raise the jib for 5 seconds.
- Perform the emergency controls described in <img alt="arrow pointing left" data-bbox="100 215 115 225"/> 2 - DESCRIPTION: PLATFORM OPERATION: RESCUE PROCEDURE: IF THERE IS AN ACCIDENT OR BREAKDOWN - EMERGENCY CONTROLS.

Result:

- The emergency controls should function properly.
- Put the platform in TRANSPORT position and lower the jib completely. Put the turntable in NEUTRAL position.
- Put the emergency stop button on the basket control panel in the ON position.

## TILT ALARM

NOTE: The platform is switched on. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position.

- Raise the mast slightly.
- Open the left turntable cover.
- Locate the leveling sensor.
- Press and hold the leveling sensor.

Result:

- The horn and the audible alarm should sound intermittently.
- The tilt alarm indicator lamp should flash.
- The leveling sensor indicator lamp should go out.
- Release the leveling sensor.

Result:

- The horn and the audible alarm should stop.
- The tilt alarm indicator lamp should go out.
- The leveling sensor indicator lamp should light up.
- Close the left-hand turntable cover.
- Fully lower the mast.

## OVERLOAD ALARM

NOTE: The platform is switched on. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position.

- Place a uniformly distributed load in the basket = between 220 kg and 250 kg.

Result:

- The horn and the audible warning should sound continuously.
- The overload alarm indicator lamp should flash.

- Try to activate the platform controls.

Result:

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

- Remove between 20 kg and 50 kg to obtain a load of 200 kg in the basket.

Result:

- The horn and the audible alarm should stop.
- The overload alarm indicator lamp should go out.

- Test all the platform controls.

Result:

- It should be possible to activate all the controls.

- Put the platform in TRANSPORT position and lower the jib completely. Put the turntable in NEUTRAL position.

## CONTROL PANEL IN THE BASKET

### OVERLOAD ALARM

NOTE: there is a 200 kg weight in the basket.

NOTE: The platform is switched on. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position.

- Turn the ignition switch to position OFF and wait for a few seconds.
- Turn the ignition switch to the BASKET CONTROLS position.

Result:

- The multi-function display must come on.
- The horn and the audible alarm should sound once.

- Get into the basket:

Result:

- The horn and the audible warning should sound continuously.
- The overload alarm indicator lamp should flash.

- Try to activate the platform controls.

Result:

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

- Get out of the basket:

- Remove the whole load from the basket.

Result:

- The horn and the audible alarm should stop.
- The overload alarm indicator lamp should go out.

## CONTROLS: DRIVING/BRAKING/STEERING (TRANSPORT POSITION)

NOTE: The platform is switched on. The platform is in TRANSPORT position, the jib is completely lowered and the turntable is in NEUTRAL position.

NOTE:

- ORANGE FLASHING LIGHT option activated: the orange FLASHING LIGHT must come on while the platform is being driven/steered.
  - ALL MOVEMENTS ALARM option activated: the horn and the audible alarm must sound intermittently while the platform is being driven/steered.
  - DRIVING/STEERING ALARM option activated: the horn and the audible alarm must sound intermittently while the platform is being driven/steered.
- Press and release the driving/steering button.

Result:

- The driving/steering indicator lamp should light up.
- Do not press the control handle trigger.  
- Push and hold the control handle forward. Pull and hold the control handle back.  
- Release the control handle.  
- Press and hold down the left steering button, then release it.  
- Press and hold down the right steering button, then release it.

Result:

- It should not be possible to activate any of the controls.
- Raise the jib slightly for better visibility.

NOTE: the jib must be in the range , <math>\leq 2</math> - DESCRIPTIONS: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.


- Press and release the driving/steering activation button.  
- Press and hold down the trigger of the control handle.  
- Drive the platform forward, steer left/right and brake.  
- Reverse the platform and brake.

Result:

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

## WORKING POSITION SPEED

NOTE: The platform is switched on. The platform is in TRANSPORT position, the jib is in the range  and the turntable is in NEUTRAL position.

- Drive the platform forward for a short distance. Assess and remember the speed of the platform.  
- Raise the jib until it is in the range , <math>\leq 2</math> - DESCRIPTIONS: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.  
- Drive the platform forward for a short distance.

Result:

- The driving speed must be WORKING POSITION speed.
- Fully lower the mast.  
- Drive the platform forward for a short distance.

Result:

- The driving speed must be TRANSPORT POSITION speed.

## DRIVING ON A SLOPE AND TILT ALARM

NOTE: The platform is switched on. The platform is in TRANSPORT position, the jib is in the range **A** and the turntable is in NEUTRAL position.

### TEST NO. 1

Select a slope between 10% (5.7°) and 20% (11.3°).

- Drive the platform forwards slowly on the slope, facing it, with the basket at the bottom of the slope.

Result:

- The tilt alarm indicator lamp should flash.
- Brake the platform on the slope.

Result:

- Brakes should function properly.
- The platform should be immobilized on the slope for at least 1 minute.
- Try to raise the mast.
  - It should not be possible to activate the control.
- Drive the platform off the slope to a level surface.

Result:

- The tilt alarm indicator lamp should go out.
- Brake the platform.

### TEST NO. 2

- Raise the jib until it is in the range **B**,  $\leq 2$  - DESCRIPTIONS: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- 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 horn and the audible alarm should sound intermittently.
- The tilt alarm indicator lamp should flash.
- Try to raise the mast and raise the jib.

Result:

- It should not be possible to activate any of the controls.
- Lower the jib until it is in the range **B**,  $\leq 2$  - DESCRIPTIONS: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.

Result:

- It should be possible to activate the control.
- The horn and the audible alarm should stop.
- Drive the platform off the slope to a level surface.

Result:

- The tilt alarm indicator lamp should go out.
- Brake the platform.
- Lower the jib completely.
- Get out of the basket.
- Switch off the power to the platform.



**⚠ 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.

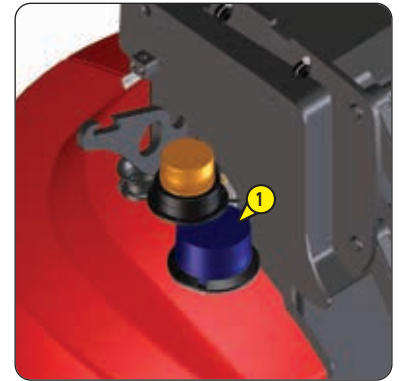
NOTE: The flashing light SPS ① can be blue or red depending on the country.

- Switch the platform on.

Result:

- The audible alarm should sound once.
- The flashing light SPS ① should flash several times and stop.

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



## CONTROL PANEL IN THE BASKET

- Turn the turntable to the right or left, at the same time pressing the safety edge SPS ② and release it.

Result:

- The turntable rotation should stop.
- The horn should sound intermittently and the flashing light SPS should flash.
- It should not be possible to activate the controls.

- Press and release the reset button SPS ③.

Result:

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

- Turn the turntable to the right or left, at the same time pressing the safety edge SPS ② and hold it down.

Result:

- The turntable rotation should stop.
- The horn should sound intermittently and the flashing light SPS should flash.
- It should not be possible to activate the controls.

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

Result:

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

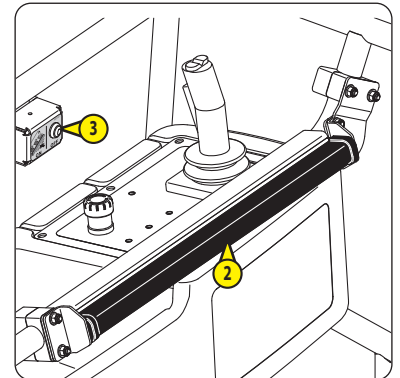
- Release the safety edge SPS.

Result:

- The horn should stop sounding and the flashing light SPS should stop flashing.

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

- Switch off the power to the platform.



**⚠ 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.

NOTE: The flashing light SPS ① can be blue or red depending on the country.

- Switch the platform on.

Result:

- The audible alarm should sound once.
- The flashing light SPS ① should flash several times and stop.

NOTE: If the safety cable ② is defective, the flashing light SPS ① flashes rapidly and the audible alarm sounds intermittently. The platform can function normally, but the option is deactivated.

- Get into the basket.

- Check the condition of the safety cable SPS ②; if there is any doubt about its condition, have it replaced by an approved professional from the Manitou network.

- Turn the turntable to the right or left, at the same time pushing the safety cable SPS ② forward, then release it.

Result:

- The turntable rotation should stop.
- The horn should sound intermittently and the flashing light SPS should flash.
- It should not be possible to activate the controls.

- Press and release the reset button SPS ③.

Result:

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

- Turn the turntable to the right or left, at the same time pushing the safety cable SPS ② forward.

Result:

- The turntable rotation should stop.
- The horn should sound intermittently and the flashing light should flash.
- It should not be possible to activate the controls.

- Maintain pressure on the safety cable SPS ② and, at the same time, press the reset button SPS ③ and then release it.

Result:

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

- Release the safety cable SPS.

Result:

- The horn should stop sounding and the flashing light SPS should stop flashing.

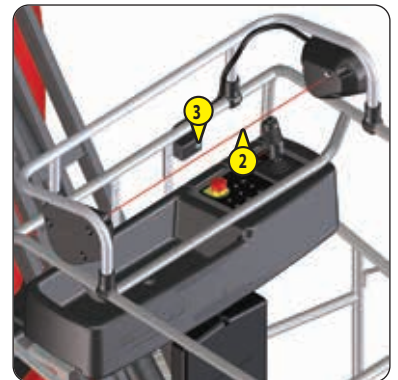
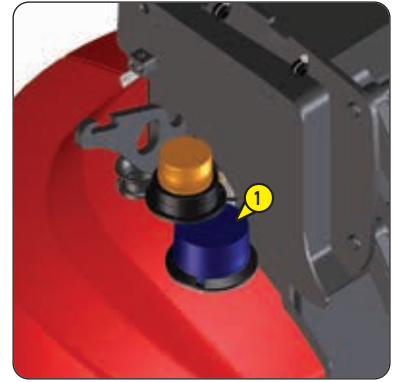
- Get out of the basket

- Place the platform in TRANSPORT position.

- Put the turntable in NEUTRAL position.

- Lower the jib completely.

- Switch off the power to the platform.



**CHECK** Tightening of the wheel nuts and bolts (depending on version)

**⚠ IMPORTANT ⚠**

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

- Check the tightening torque of all the wheel bolts and all the wheel nuts (depending on version):
  - ① (front wheels) = 120 N.m ±24 N.m
  - ② (rear wheels) = 178 N.m ±35.5 N.m



**CHECK** Battery electrolyte specific gravity

**⚠ IMPORTANT ⚠**

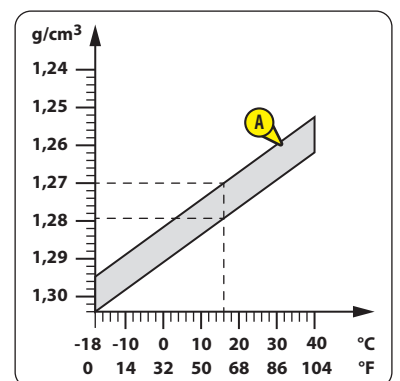
*At all times, make sure that:*

- *The positive terminals cannot come into contact with the negative terminals.*
- *The positive terminals cannot come into contact with metallic parts of the platform.*

*The battery contains a highly corrosive liquid. Always wear protective clothing, safety gloves, and goggles or a face shield during maintenance. Avoid contact with any part of the body or clothing at all times. Rinse any exposed area with clean water and seek medical advice.*

*Before checking the specific gravity of the electrolyte, if distilled water has been added: charge the battery and wait for at least 2 hours.*

- Open the left and right turntable covers.
- Open one of the battery cell caps ①.
- Check the specific gravity of the electrolyte in the battery cell with a hydrometer. Refer to the gray area A in the illustration.
  - Example: The specific gravity must be between 1,270 g/cm<sup>3</sup> and 1,279 g/cm<sup>3</sup> with an electrolyte temperature of 16 °C.
- Clean and dry the battery cell cap.
- Close the battery cell cap.
- Repeat the steps for all the battery cells.
- If the specific gravity is not correct, replace the defective battery, ⚠ OCCASIONAL MAINTENANCE.
- Close the left and right turntable covers.



## LUBRICATE

### Front wheel hubs (depending on version)

- Switch the platform on.
- Steer fully to the left.
- Locate the lubricator connector ① on the left wheel hub. If necessary, drive forward/backward to locate it.
- Remove the cap from the lubrication connector.
- Inject the lubricant into the lubrication connectors, <img alt="LUBRICANTS logo" data-bbox="465 142 478 155"/> LUBRICANTS.
- Put the cap back on.
- Steer fully to the right.
- Repeat the steps to lubricate the right wheel hub.
- Switch off the power to the platform.



## BLEED

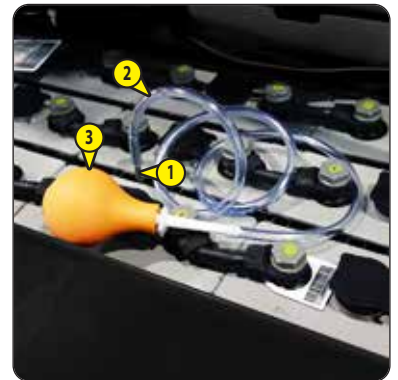
### Battery tray

#### **⚠ IMPORTANT ⚠**

*At all times, make sure that:*

- *The positive terminals cannot come into contact with the negative terminals.*
- *The positive terminals cannot come into contact with metallic parts of the platform.*

- Open the left and right turntable covers.
- Locate the rigid pipe ① in the battery.
- Locate the flexible pipe ② and the aspirator bulb ③ on the top of the battery.
- Connect the rigid pipe to the flexible pipe.
- Connect the flexible pipe to the aspirator bulb.
- Drain the water contained in the battery tray using the aspirator bulb.
- Remove the aspirator bulb and empty it.
- Remove the flexible pipe.
- Put the flexible pipe and the aspirator bulb back in place.
- Close the left and right turntable covers.



## RESET

### Maintenance warning

Where the maintenance warning needs to be reset, <img alt="LUBRICANTS logo" data-bbox="425 595 438 608"/> 50H - PERIODIC MAINTENANCE - EVERY 50 HOURS OF SERVICE OR 3 MONTHS.

## 🔄 50H - MAINTENANCE EVERY 50 HOURS OF SERVICE OR EVERY 3 MONTHS

ALSO PERFORM THE DAILY AND WEEKLY MAINTENANCE.

### CHECK

*Tightening of the wheel nuts and bolts (depending on version)*

◀ WEEKLY MAINTENANCE

### CHECK

*Battery electrolyte specific gravity*

◀ WEEKLY MAINTENANCE

### LUBRICATE

*Front wheel hubs (depending on version)*

◀ WEEKLY MAINTENANCE

### BLEED

*Battery tray*

◀ WEEKLY MAINTENANCE

### CHECK

*Emergency controls*

#### ⚠️ IMPORTANT ⚠️

*Never use the platform in the event of an emergency control failure.*

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

### CHECK

*Tightening of electrical connections*

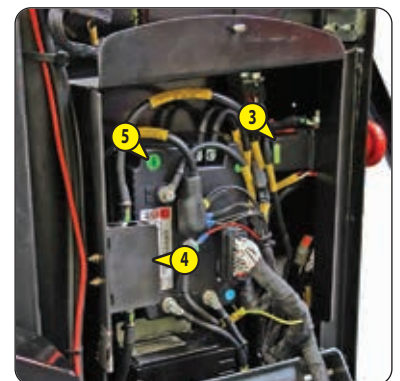
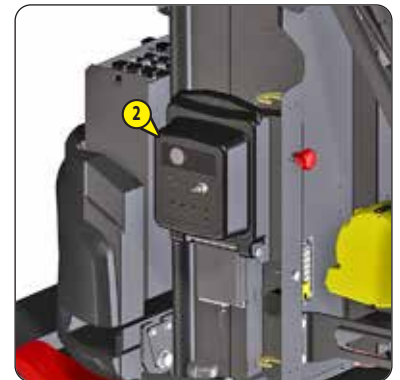
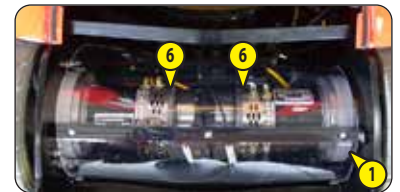
#### ⚠️ IMPORTANT ⚠️

*Always secure the raised jib using a suitable lifting device.*

*At all times, make sure that:*

- *The positive terminals cannot come into contact with the negative terminals.*
- *The positive terminals cannot come into contact with metallic parts of the platform.*

- Switch the platform on.
- Fully raise the jib and secure it using a suitable lifting device.
- Switch off the power to the platform.
- Open and remove the left and right turntable covers.
- Remove the rear chassis cover.
- Remove the cable protection ①.
- Open the ground level control panel ②.
- Check that all the electrical connections are properly tightened and adjust if necessary:
  - Battery.
  - Battery cut-off/emergency stop button ③.
  - Mini hydraulic unit motor.
  - Fuse holder ④.
  - Motor controller ⑤.
  - Wheel motors ⑥.
- Close the ground control panel.
- Put the cable protection ① back in place.
- Refit the rear chassis cover.
- Put the left and right turntable covers back in place and close them.



**⚠ IMPORTANT ⚠**

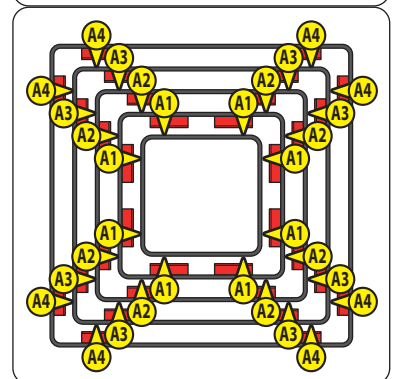
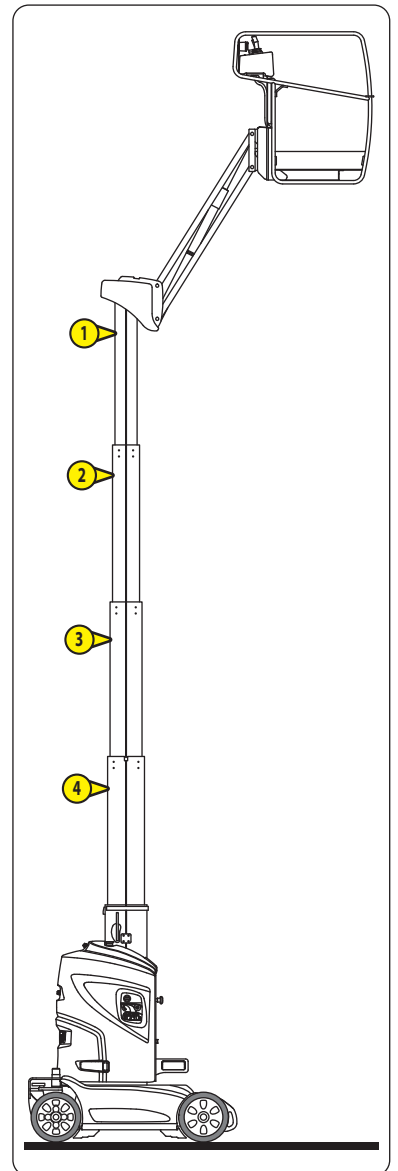
*Always secure the raised jib and the raised mast using a suitable lifting device.  
Lubricate the mast more often when the platform is operating in a dusty environment.*

NOTE: The jib is fully raised and secured.

- Switch the platform on.
- Raise the mast until the tube ① is completely visible.
- Secure the raised jib and the raised mast using a suitable lifting device.
- Check the 8 sliding surfaces ① of the pads:
  - Surfaces must be smooth and free from corrosion.
- Lubricate the tube ① if necessary, ⇐ LUBRICANTS.

NOTE: Raise and lower the mast several times to spread the lubricant. Remove the excess with a clean cloth.

- Repeat the steps for tubes ②, ③ and ④ (sliding surfaces ②, ③ and ④).
- Fully lower the mast.
- Lower the jib completely.



## **CLEAN**

### **Electric motor brushes** according to model

- Remove the right turntable cover by lifting it off.
- Remove the two screws **1** and the metal collar.
- Remove the screw **2** and clean the brushes of the mini-unit.



## RESET

## Maintenance warning

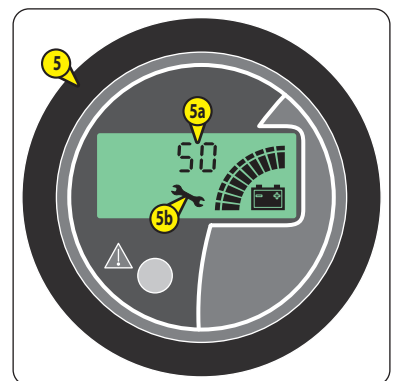
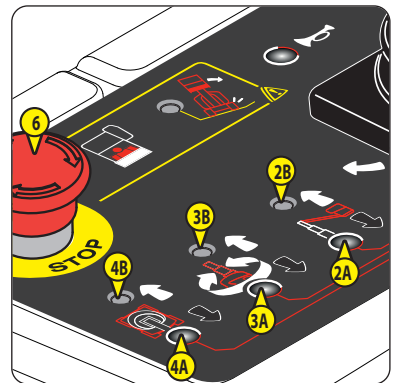
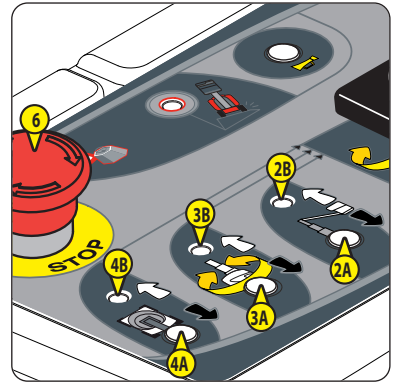
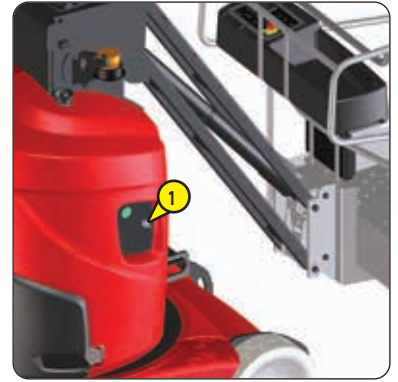
NOTE: It is not possible to reset the maintenance warning if it is not displayed. It may be necessary to reset even if no maintenance has been performed.  
◀ 2 - DESCRIPTION: MULTI-FUNCTION DISPLAY.

NOTE: The platform is switched on.

- Activate the basket controls from the ground level control panel ①.
- Get into the basket.
- Press and hold down the buttons ②A, ③A and ④A.
- Release the buttons when the audible alarm sounds once and when the indicator lamps ②B, ③B and ④B flash one after the other.
- Press and hold down the buttons ③A and ④A.
- Release the buttons when the indicator lamps ②B, ③B and ④B go out.
- Press and release the button ②A.

Result:

- The light ②B comes on.
- Get out of the basket
- Check the multi-function display ⑤:
  - The hour counter ⑤A must be displayed.
  - The key ⑤B must not be displayed.
- Get into the basket.
- Press and hold down one of the buttons ②A, ③A or ④A.
- Release the button when the indicator lamps ②B, ③B and ④B flash at the same time.
- Press the emergency stop button ⑥ (OFF position)
- Put the emergency stop button ⑥ in the ON position.
- Get out of the basket.
- Switch off the power to the platform.



## 🔄 100 H - MAINTENANCE EVERY 100 HOURS OF SERVICE OR EVERY 6 MONTHS

ALSO PERFORM THE DAILY AND WEEKLY MAINTENANCE AND THE PERIODIC MAINTENANCE AT 50 HOURS OF SERVICE.

### CHECK

### Tightening of the fixing screws for the wheel reduction gears

#### ⚠️ IMPORTANT ⚠️

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

*Always secure the raised jib using a suitable lifting device.*

- Remove the rear wheels, ⚠️ OCCASIONAL MAINTENANCE: REPLACE WHEELS.
- Switch the platform on.
- Raise the jib as far as possible and secure it using a suitable lifting device.
- Switch off the power to the platform.
- Remove the rear chassis cover.
- Remove the cable protection ①.
- Check the tightening torque of the fixing screws ②, right-hand side:
  - 40 N.m ± 8 N.m.
- Check the tightening torque of the fixing screws ③, left-hand side:
  - 40 N.m ± 8 N.m.
- Check the tightening torque of the fixing screws ④, left-hand side:
  - 69 N.m ± 13.5 N.m.
- Refit the rear wheels, ⚠️ OCCASIONAL MAINTENANCE: REPLACE WHEELS.
- Put the cable protection ① back in place.
- Refit the rear chassis cover.
- Switch the platform on.
- Lower the jib completely.



**⚠ IMPORTANT ⚠**

*Failure to follow this instruction may result in the platform tipping over.  
Refer to the platform repair manual if the overload system is not correctly calibrated.*

NOTE: The platform is switched on. The platform is in TRANSPORT position with the jib lowered completely. The turntable is in NEUTRAL position.

- Place a uniformly distributed weight in the basket = 220 kg.

Result:

- The horn and the audible warning should sound continuously.
- The overload alarm indicator lamps should flash.

- Try to activate all the platform controls one by one using the ground level control panel.

Result:

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

- Remove 20 kg to obtain a load of 200 kg in the basket.

Result:

- The horn and the audible alarm should stop.
- The overload alarm indicator lamps should go out.

- Activate all the platform controls one by one using the ground level control panel.

Result:

- It should be possible to activate all the controls.

- Place the platform in TRANSPORT position. Lower the jib completely. Put the turntable in NEUTRAL position.

- Get into the basket.

Result:

- The horn and the audible warning should sound continuously.
- The overload alarm indicator lamp should flash.

- Try to activate all the platform controls one by one using the control panel in the basket.

Result:

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

- Get out of the basket.

Result:

- The horn and the audible alarm should stop.
- The overload alarm indicator lamps should go out.

- Remove the whole load from the basket.

**⚠ IMPORTANT ⚠**

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

**PLACING IN FREEWHEEL MODE**

NOTE: The platform is switched on. The platform is in TRANSPORT position with the jib lowered completely. The turntable is in NEUTRAL position.

- Carry out the complete procedure described in OCCASIONAL OPERATION: TOWING/WINCHING THE PLATFORM.

**STOPPING DISTANCE ON A LEVEL SURFACE**

NOTE: The platform is switched on. The platform is in TRANSPORT position with the jib lowered completely. The turntable is in NEUTRAL position.

- Select a level surface for the following test.
- Place a uniformly distributed load in the basket = 200 kg less your own weight.
- Switch the platform on.
- Turn the ignition switch to the BASKET CONTROLS position.
- Get into the basket.
- Raise the jib slightly for better visibility.

NOTE: the jib must be in the range **A**, <2- DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.

- Drive the platform forward until the maximum speed is reached.

NOTE: the driving speed must be the TRANSPORT POSITION speed.

- Release the control handle to brake the platform.

Result:

- The braking distance should be: 70 mm ±30 mm.
- Raise the jib to the horizontal position.
- Drive the platform forward until the maximum speed is reached.

NOTE: the driving speed must be the WORKING POSITION speed.

- Release the control handle to brake the platform.

Result:

- The braking distance should be: 70 mm ±30 mm.
- Lower the jib completely.

**BRAKING ON A SLOPE**

NOTE: The platform is switched on. The platform is in TRANSPORT position with the jib lowered completely. The turntable is in NEUTRAL position. There is a load in the basket.

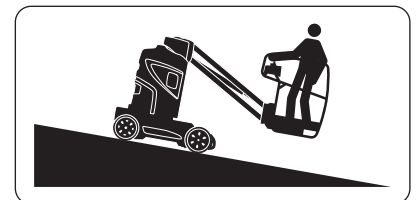
- Select a slope of 20% (11.3°) for the following test.
- Raise the jib slightly for better visibility.

NOTE: the jib must be in the range **A**, <2- DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.

- Drive the platform forwards slowly on the slope, facing it, with the basket at the bottom of the slope.
- Brake the platform on the slope.

Result:

- The platform should be immobilized on the slope for at least 1 minute.
- Drive the platform off the slope to a level surface.
- Lower the jib completely.
- Get out of the basket.
- Remove the load from the basket.



**⚠ IMPORTANT ⚠**

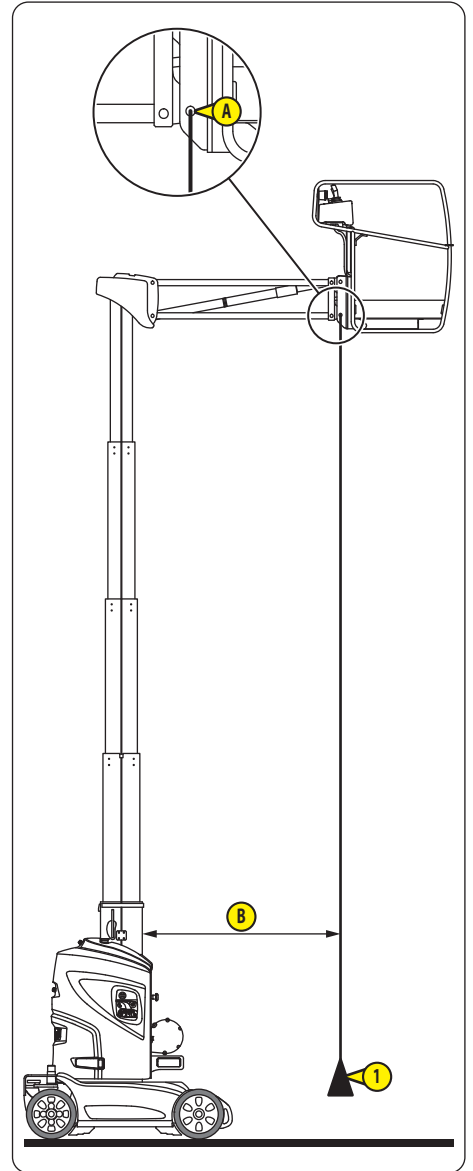
*Failure to follow this instruction may result in the platform tipping over.*

*Refer to the platform repair manual if the dimension measured is greater than 1,700 mm.*

*The platform must be on a level surface and must be anchored to the ground to perform this procedure.*

NOTE: The platform is switched on. The platform is in TRANSPORT position with the jib lowered completely. The turntable is in NEUTRAL position.

- Place a uniformly distributed weight in the basket = 200 kg (440 lbs).
- Attach a plumb line **1** to the shaft **A**.
- Raise the jib to the horizontal position.
- Raise the mast fully.
- Measure the dimension **A**:
  - It must be less than 1,700 mm.
- Fully lower the mast.
- Lower the jib completely.
- Detach the plumb line.
- Remove the load from the basket.



## CHECK

## Hydraulic hoses

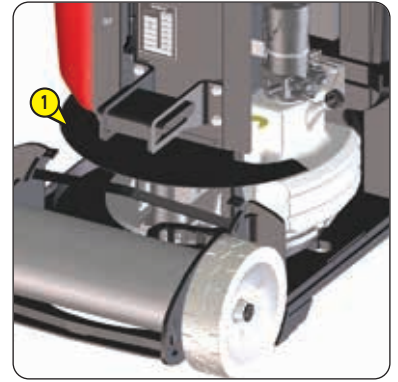
### ⚠ IMPORTANT ⚠

*Always secure the raised jib using a suitable lifting device.*

*Always use a piece of paper or cardboard to check there are no hydraulic oil leaks. Replace any damaged hydraulic hoses.*

NOTE: The platform is switched on.

- Fully raise the jib and secure it using a suitable lifting device.
- Switch off the power to the platform.
- Open and remove the left and right turntable covers.
- Remove the rear chassis cover.
- Remove the right and left chassis covers.
- Remove the rear protection plate ①.
- Check the condition of all the hydraulic hoses and that there are no leaks.



## LUBRICATE

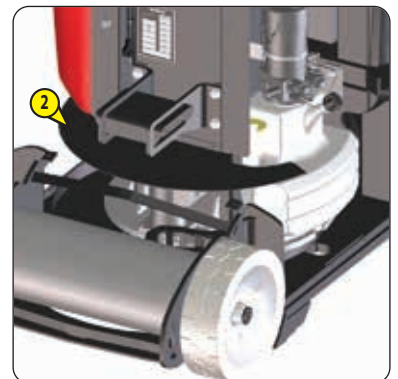
## Crown gear

### ⚠ IMPORTANT ⚠

*Always secure the raised jib using a suitable lifting device.*

NOTE: The platform is powered down. The jib is fully raised and secured. The left and right turntable covers have been removed. The rear chassis cover has been removed. The left and right chassis covers have been removed. The rear protection plate has been removed.

- Make sure that the jib is correctly secured using a suitable lifting device.
- Switch the platform on.
- Lubricate the teeth of the crown gear ①, <math>\triangleleft</math> LUBRICANTS.
- Turn the turntable a full turn to spread the lubricant.
- Put the rear protection plate ② back in place.
- Refit the right and left chassis covers.
- Refit the rear chassis cover.
- Put the left and right turntable covers back in place and close them.
- Lower the jib completely.
- Put the turntable in NEUTRAL position.
- Switch off the power to the platform.



## RESET

## Maintenance warning

<math>\triangleleft</math> 50H - PERIODIC MAINTENANCE - EVERY 50 HOURS OF SERVICE OR 3 MONTHS.

## 🔄 200H - PERIODIC MAINTENANCE - EVERY 200 HOURS OF SERVICE OR 1 YEAR

ALSO PERFORM THE DAILY AND WEEKLY MAINTENANCE AND THE PERIODIC MAINTENANCE AT 50 HOURS AND 100 HOURS OF SERVICE.

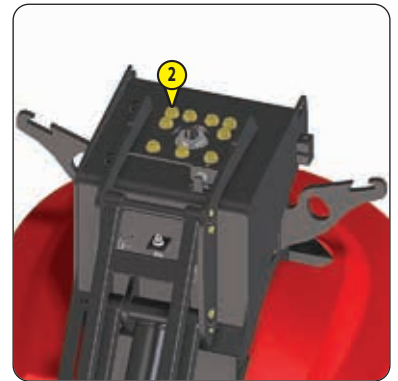
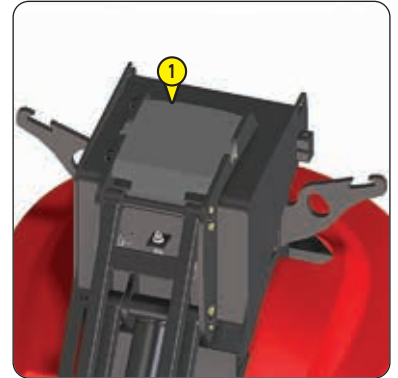
### CHECK

#### Tightening of the mast fixing screws

##### ⚠️ IMPORTANT ⚠️

*Failure to follow this instruction may result in the platform tipping over and the basket falling.*

- Take off the cover ①.
- Check all the fixing screw tightening torques ②:
  - 256 N.m  $\pm$  25.5 N.m
- Put the cover back in place.



### CHECK

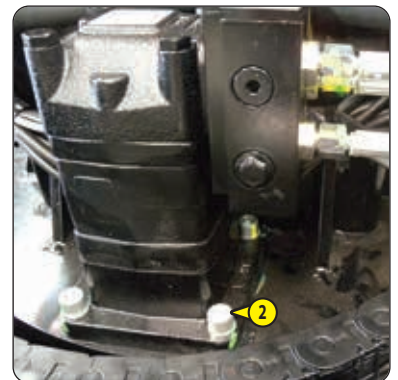
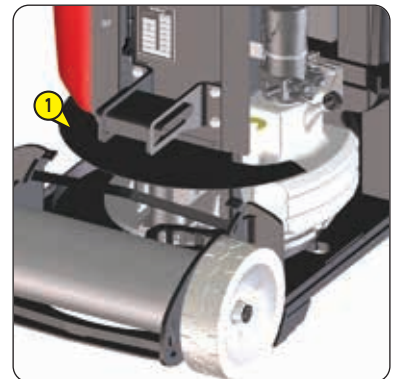
#### Tightening of the fixing screws on the turntable rotation motor

##### ⚠️ IMPORTANT ⚠️

*Failure to follow this instruction may result in involuntary movement of the turntable.*

*Always secure the raised jib using a suitable lifting device.*

- Switch the platform on.
- Fully raise the jib and secure it using a suitable lifting device.
- Switch off the power to the platform.
- Open and remove the left and right turntable covers.
- Remove the rear chassis cover.
- Remove the right and left chassis covers.
- Remove the rear protection plate ①.
- Check all the fixing screw tightening torques ②:
  - 112 N.m  $\pm$  11 N.m.



**⚠ IMPORTANT ⚠**

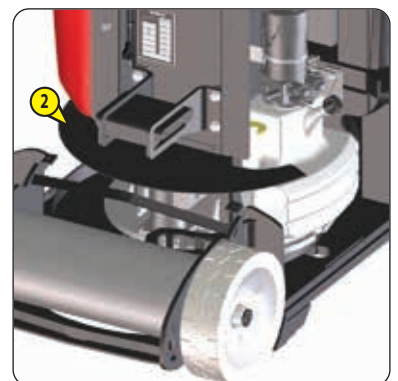
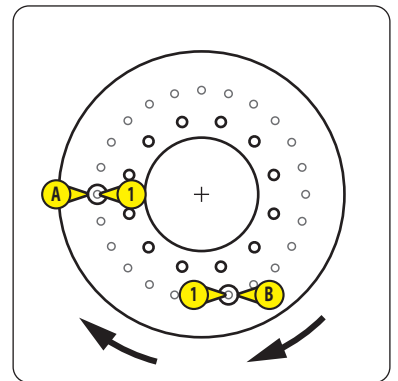
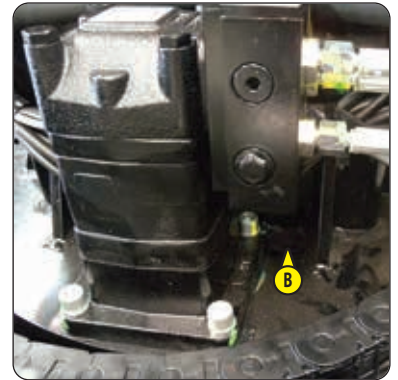
*Failure to follow this instruction may result in the platform tipping over.*

*Always secure the raised jib using a suitable lifting device.*

*Always use an inspection pit or a suitable hydraulic ramp to carry out any maintenance operations under the platform chassis.*

NOTE: The platform is powered down. The jib is fully raised and secured. The left and right turntable covers have been removed. The rear chassis cover has been removed. The left and right chassis covers have been removed. The rear protection plate has been removed.

- Make sure that the jib is correctly secured using a suitable lifting device.
- Locate the holes **A** and **B**.
- Switch the platform on.
- Turn the turntable to align the drill holes **A** and **B** with 2 fixing screws **1**.
- Check the tightening torque of the first 2 fixing screws:
  - 102 N.m ±10 N.m
- Turn the turntable to align the drill holes **A** and **B** with the 2 following fixing screws **1** to check their tightening torques.
- Repeat the steps until the tightening torque for each fixing screw **1** has been checked.
- Put the rear protection plate **2** back in place.
- Refit the right and left chassis covers.
- Refit the rear chassis cover.
- Put the turntable in NEUTRAL position.
- Lower the jib completely.
- Drive the platform over an inspection pit or onto a hydraulic ramp.
- Check all the fixing screw tightening torques **3** under the chassis:
  - 102 N.m ±10 N.m
- Drive the platform off the inspection pit or hydraulic ramp.
- Switch off the power to the platform.



**CHECK**

**Counterweight fixing screw tightening**

**FIRST VERSION: COUNTERWEIGHT WITHOUT FORK POCKET ①**

**⚠ IMPORTANT ⚠**

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

NOTE: The left and right turntable covers have been removed.

- Check the tightening torques for all the fixing screws ②, left and right-hand sides:
  - 300 N.m ±30 N.m

**SECOND VERSION: COUNTERWEIGHT WITH FORK POCKET ③**

**⚠ IMPORTANT ⚠**

*Failure to follow this instruction may result in the platform tipping over and the platform falling when it is lifted using a lift truck.*

NOTE: The left and right turntable covers have been removed.

- Check the tightening torques for all the fixing screws ④, left and right-hand sides:
  - 864 N.m ±86 N.m



**CHECK**

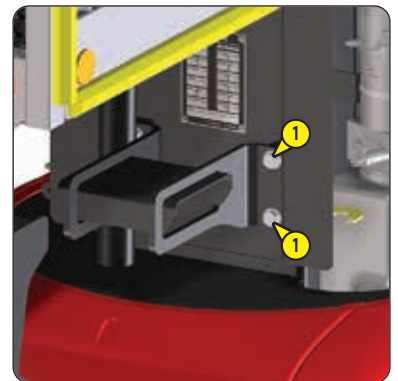
**Tightening of the fork pocket fixing screws (depending on version)**

**⚠ IMPORTANT ⚠**

*Failure to follow this instruction may result in the platform falling when it is lifted using a lift truck.*

NOTE: The left and right turntable covers have been removed.

- Check the tightening torques for all the fixing screws ①, left and right-hand sides:
  - 227.5 N.m ±45.5 N.m



**REPLACE**

**REPLACE**

**CLEAN**

**Hydraulic fluid**

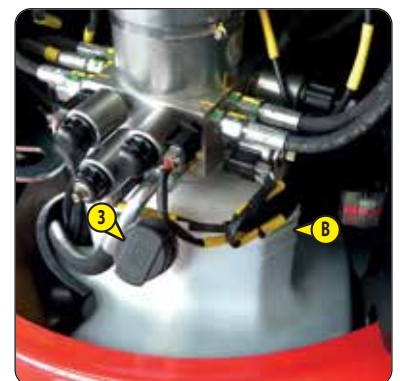
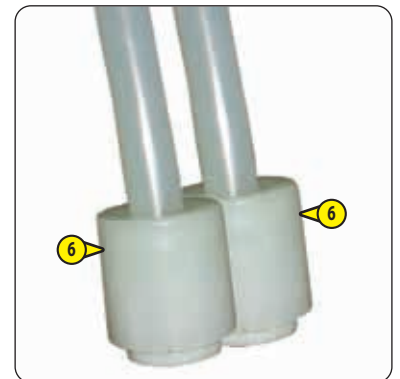
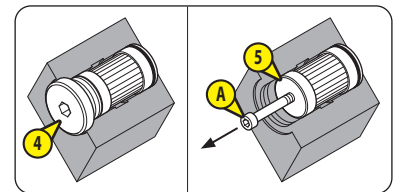
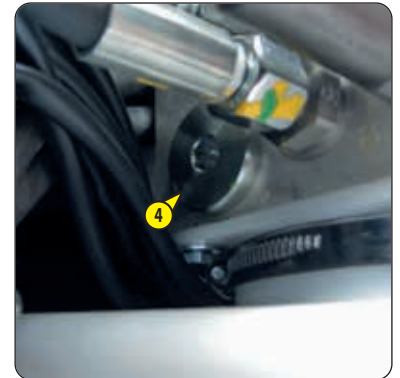
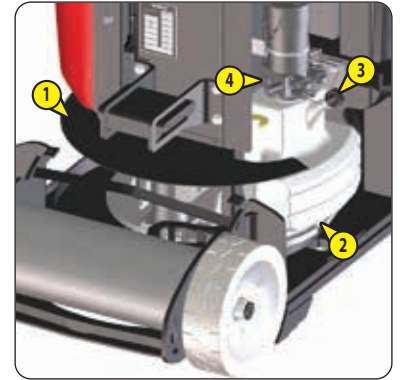
**Hydraulic filter**

**Suction strainer**

**⚠ IMPORTANT ⚠**

*It is recommended that the oil is slightly warm before being changed.  
Clean the oil can before adding oil to the hydraulic oil tank.  
Use a clean funnel to add oil to the hydraulic oil tank.*

NOTE: The left and right turntable covers have been removed.



**CHANGE THE OIL**

- Remove the rear chassis cover.
- Remove the right and left chassis covers.
- Remove the rear protection plate ①.
- Locate the drain plug ② and put a drain container underneath.
- Remove the drain plug and the tank plug ③.
- Wait until the tank is completely empty.

**REPLACE THE HYDRAULIC PRESSURE FILTER**

- Locate the plug ④ and put a drain pan underneath.
- Remove the cap.
- Replace the hydraulic pressure filter ⑤, <math>\triangleleft</math> FILTER CARTRIDGES AND BELTS:
  - Remove the used hydraulic pressure filter using a screw M6x100 ①A.
  - Put the new hydraulic pressure filter in place, inserting the side with the O-ring first.
- Refit the cap ④:
  - Tightening torque = 50 N.m  $\pm$  3 N.m

**CLEAN THE SUCTION STRAINERS (1 or 2 depending on version)**

- Remove and disassemble the mini hydraulic unit, <math>\triangleleft</math> REPAIR MANUAL.
- Remove the suction strainers ⑥.
- Clean the suction strainers with compressed air, from the inside out.
  - Maximum pressure = 3 bars. Minimum distance = 30 mm.
- Check their condition. Replace them if necessary, <math>\triangleleft</math> FILTER CARTRIDGES AND BELTS.
- Put the suction strainers back in place.
- Reassemble and refit the mini hydraulic unit, <math>\triangleleft</math> REPAIR MANUAL.

**FILL THE HYDRAULIC OIL TANK**

- Refit the drain plug.
- Fill the tank with new hydraulic oil, <math>\triangleleft</math> LUBRICANTS. The level is correct when the oil is between the marks ①B MINI and MAXI.
- Refit the tank cap.
- Switch the platform on.
- Use the platform controls for 10 minutes.
- Check for leaks.
- Place the platform in TRANSPORT position. Put the turntable in NEUTRAL position.
- Check the hydraulic oil level. Top up if necessary.
- Put the rear protection plate ① back in place.
- Refit the right and left chassis covers.
- Refit the rear chassis cover.
- Refit the right and left turntable covers
- Switch off the power to the platform.

- CHECK Clearance of slewing ring gear \*

**CHECK**

**Condition of cylinders \***

**CHECK**

**Condition of electric wiring \***

**RESET**

**Maintenance warning**

< 50H - PERIODIC MAINTENANCE - EVERY 50 HOURS OF SERVICE OR 3 MONTHS.

*\* Consult your dealer.*

#### ⚠ IMPORTANT ⚠

⚠ 2 - DESCRIPTION: SPECIFICATIONS 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:*

- Bear in mind that only the rear wheels are braked.
- 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.

*When lifting the platform with a crane or a lift truck (depending on version):*

- Refer to OCCASIONAL OPERATION: LIFTING THE PLATFORM.
- Always use suitable jack stands to secure the raised platform.

#### ⚠ IMPORTANT ⚠

*Weight of a wheel: 30 kg.*

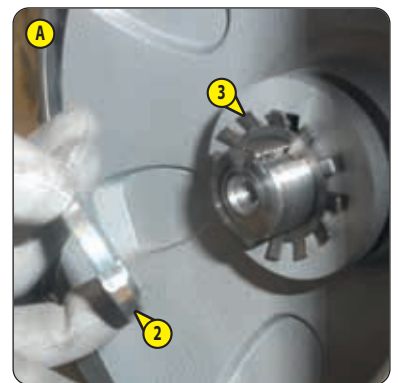
### FRONT WHEELS

- Loosen the wheel nuts and bolts slightly ① (depending on version):
- Lift the platform.
- Remove the wheel nuts and bolts (depending on version) and the wheel.
- Put the new wheel in place.
- Refit the wheel nuts or bolts (depending on version) and tighten them slightly with a wrench.
- Set the platform down on the ground.
- Tighten the wheel nuts and bolts (depending on version), ⚠ WEEKLY MAINTENANCE: CHECK WHEEL NUT TIGHTENING.



## REAR WHEELS

- Loosen the wheel nut slightly **2**:
- Lift the platform.
- Remove the wheel nut and the locking washer **3**.
- Remove the wheel.
- Check that the key **4** is in place.
- Put the new wheel in place.
- Refit the locking washer **3**, positioning the tabs to the outside of the wheel. Refer to the illustration **A**.
- Refit the wheel nut **2**, positioning the chamfer to the inside of the wheel. Refer to the illustration **A**.
- Tighten the wheel nut slightly using a wrench.
- Set the platform down on the ground.
- Tighten the wheel nuts and bolts (depending on version), <WEEKLY MAINTENANCE: CHECK WHEEL NUT TIGHTENING.
- Fold one of the locking washer tabs into a notch in the wheel nut. Refer to the illustration **B**.



**⚠ IMPORTANT ⚠**

*Replace the battery with a model of the same capacity and the same mass to retain the original performance of the platform.  
The battery is heavy (215 kg) and must be extracted using a lifting device.*

**SAFETY INSTRUCTIONS**

- Disconnect the battery in the following order: Negative, then positive.
- Keep the battery level while handling.
- Keep the slings out of the way to avoid any short-circuit.
- Make sure that the replacement battery is correctly positioned on the platform.

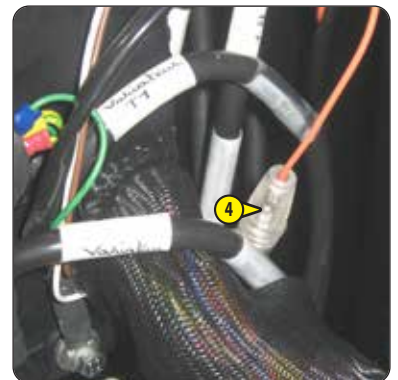
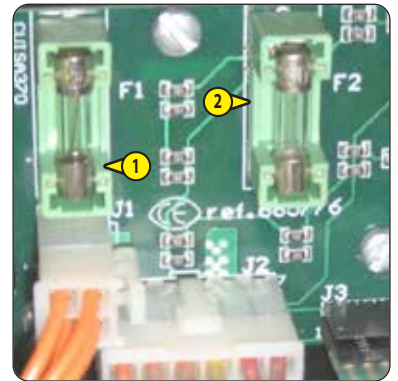
NOTE: If replacing with a new battery, recharge the battery after every 3 to 4 hours of use for the first 5 times of use.

REPLACE

Fuses

The fuses are located under the right turntable cover.

①	Board F1	5 A fuse
②	Board F2	6.3 A fuse
③	Power	250 A fuse
④	Brake release.	5 A fuse



### ⚠ IMPORTANT ⚠

*Never tow or winch the platform in WORKING position.  
Always use an appropriate traction bar to tow the platform.*

*Always use a suitable winch for winching the platform.*

*Before putting the platform into freewheel:*

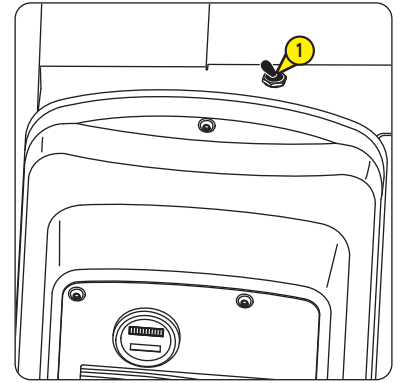
*- The platform must be on a level surface.*

*- The wheels must be chocked.*

*When towing or winching the platform:*

*- The basket must be empty.*

*- Do not exceed 4.5 km/h*



### FREEWHEEL AND TOW/WINCH THE PLATFORM

- Attach the traction bar or the winch to the anchoring points on the platform chassis, <img alt="arrow pointing left" data-bbox="105 278 125 290"/> 2 - DESCRIPTION: STICKERS: ANCHORING POINT.
- Switch the platform on.
- Open the left turntable cover.
- Locate the freewheeling switch ① (first version) or ② (second version).
- First version: Push the switch ① to the right. Refer to the FREEWHEELING FIRST VERSION sticker A, <img alt="arrow pointing left" data-bbox="105 353 125 365"/> 2 - DESCRIPTION: STICKERS.
- Second version: Turn the switch ② to the right. Refer to the FREEWHEELING SECOND VERSION sticker B, <img alt="arrow pointing left" data-bbox="105 388 125 400"/> 2 - DESCRIPTION: STICKERS.

Result:

- The horn and the audible warning sound continuously.
- All the platform controls are locked.
- Close the left-hand turntable cover.
- Make sure the path is free of any obstruction.
- Remove the chocks from the wheels.
- Tow/winch the platform slowly.
- Chock the wheels when the platform is in the desired position.

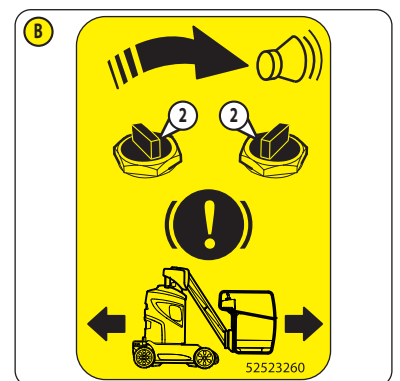
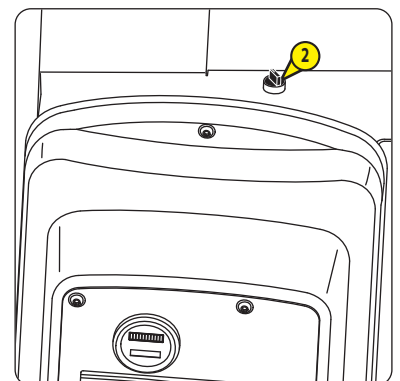


### PUT THE BRAKES BACK INTO ACTION

- Open the left turntable cover.
- First version: Push the switch ① to the left. Refer to the FREEWHEELING FIRST VERSION sticker A, <img alt="arrow pointing left" data-bbox="105 568 125 580"/> 2 - DESCRIPTION: STICKERS.
- Second version: Push the switch ② to the left. Refer to the FREEWHEELING SECOND VERSION sticker B, <img alt="arrow pointing left" data-bbox="105 595 125 607"/> 2 - DESCRIPTION: STICKERS.

Result:

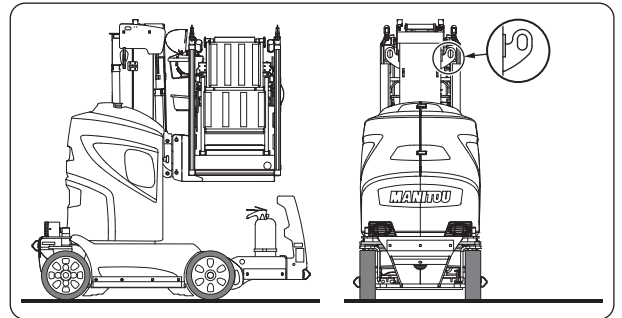
- The horn and the audible warning stop.
- All the platform controls are unlocked.
- Close the left-hand turntable cover.
- Detach the traction bar or the winch.
- Remove the chocks from the wheels.
- Switch off the power to the platform.



Depending on the version, the platform can be lifted using either a lift truck or a crane.

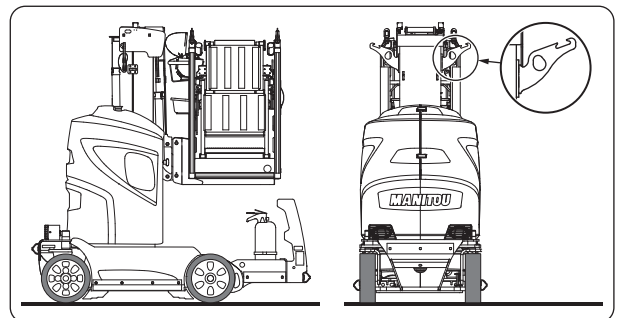
**VERSION 1:**

Platform without fork pockets and without anchoring points on the mast.



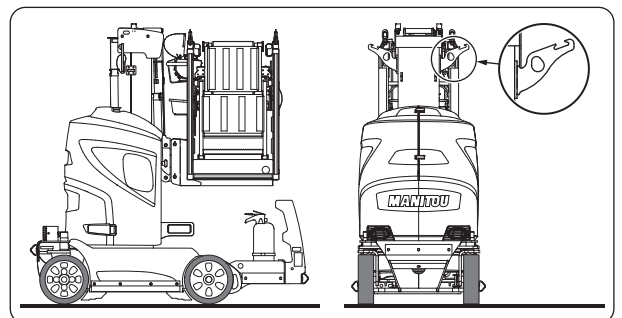
**VERSION 2:**

Platform without fork pockets and with anchoring points on the mast.



**VERSION 3:**

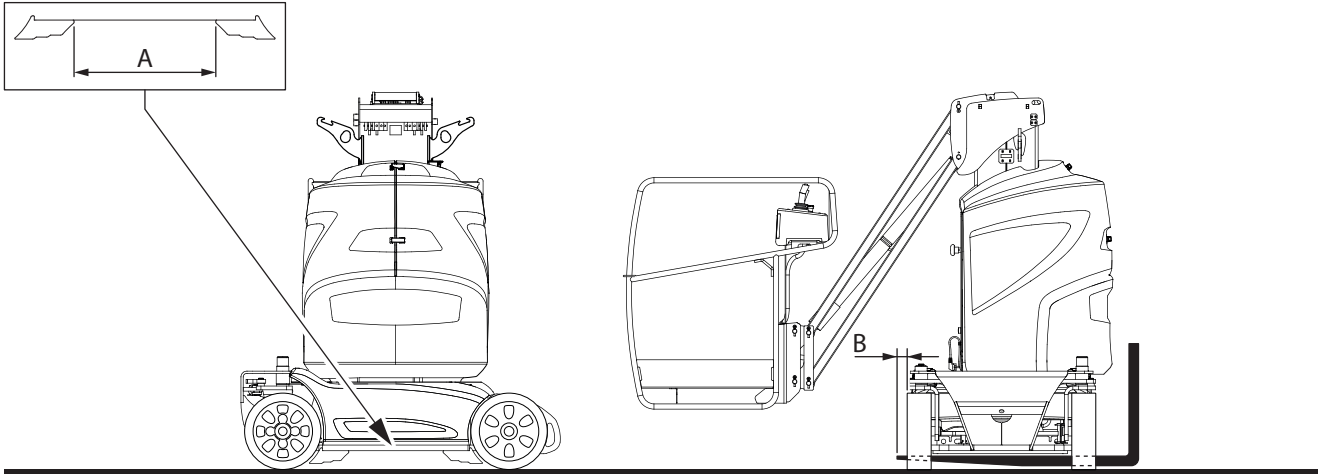
Platform with fork pockets and with anchoring points on the mast.



**LIFTING THE PLATFORM USING A LIFT TRUCK (FOR VERSIONS 1 AND 2)**

**⚠ IMPORTANT ⚠**

- Never lift the platform more than 20 cm from the ground.*
- It is forbidden to use this lifting method to load the platform onto a flatbed or to unload it.*
- This lifting method should only be used on level, even ground.*
- Make sure that the forks are suitable and are solid enough to take the weight of platform.*
- Make sure that the lifting capacity of the lift truck is sufficient to take the weight of the platform.*

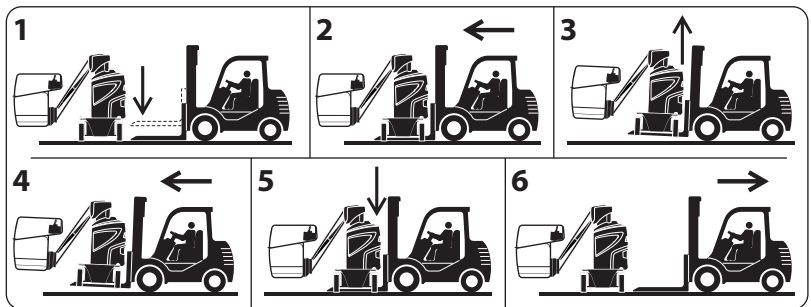


	80 VJR 80 VJR EVOLUTION	100 VJR 100 VJR EVOLUTION
<b>CG = "CENTER OF GRAVITY" CENTER OF GRAVITY</b>		
X	mm	mm
Y	mm	mm
A	500 mm	500 mm
B	50 mm minimum	50 mm minimum
"TOTAL MASS" TOTAL WEIGHT	2,250 kg (4,960 lbs)	2,650 kg (5,840 lbs)

- Place the platform in TRANSPORT position.
- Turn the turntable 90° (to the left or the right).
- Switch off the power to the platform.
- Make sure that the turntable covers are closed.

- Using a lift truck:

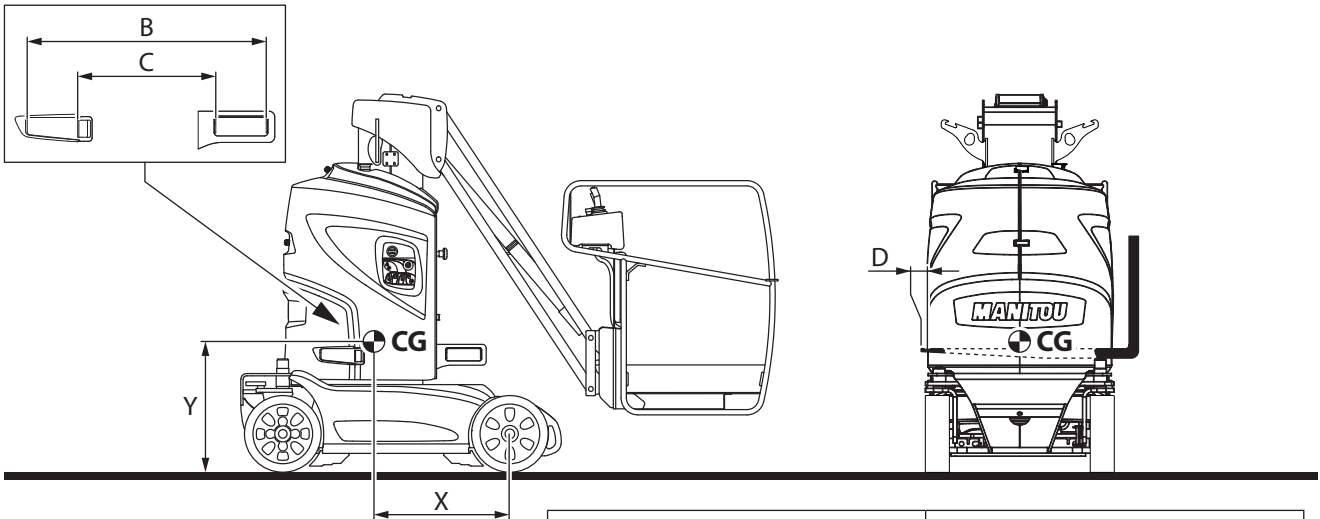
- 1 - Lower the forks to the ground.
- 2 - Move forward slowly to insert the forks under the chassis.
- 3 - Slowly lift the platform off the ground by a maximum of 20 cm.
- 4 - Drive slowly to move the platform to the desired zone.
- 5 - Set the platform down on the ground slowly.
- 6 - Reverse slowly to release the forks.



**LIFTING THE PLATFORM USING A LIFT TRUCK (FOR VERSION 3)**

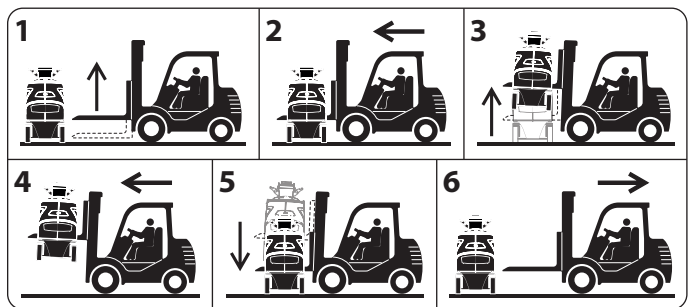
**⚠ IMPORTANT ⚠**

*Make sure that the forks are suitable and are solid enough to take the weight of platform.  
 Make sure that the lifting capacity of the lift truck is sufficient to take the weight of the platform.*



	80 VJR 80 VJR EVOLUTION	100 VJR 100 VJR EVOLUTION
<b>CG = "CENTER OF GRAVITY" CENTER OF GRAVITY</b>		
X	705 mm	715 mm
Y	640 mm	690 mm
B	845 mm	845 mm
C	485 mm	485 mm
D	50 mm minimum	50 mm minimum
"TOTAL MASS" TOTAL WEIGHT	2,250 kg (4,960 lbs)	2,650 kg (5,840 lbs)

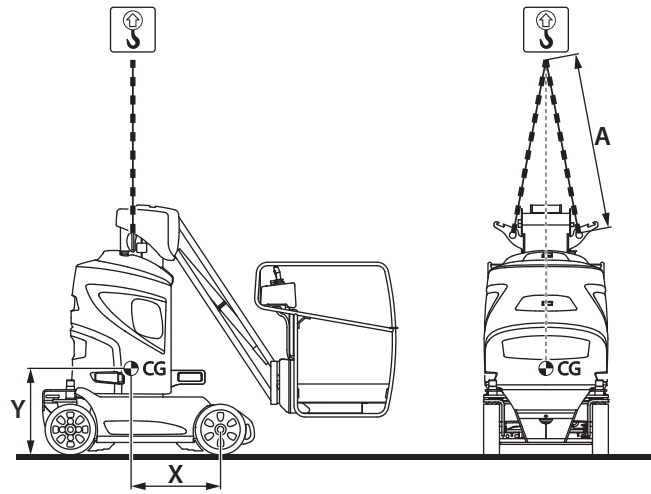
- Place the platform in TRANSPORT position.
- Put the turntable in neutral position.
- Switch off the power to the platform.
- Make sure that the turntable covers are closed.
- Using a lift truck:
  - 1 - Raise the forks until level with the fork pockets.
  - 2 - Move forward slowly to insert the forks into the fork pockets.
  - 3 - Lift the platform slowly.
  - 4 - Drive slowly to move the platform to the desired zone.
  - 5 - Set the platform down on the ground slowly.
  - 6 - Reverse slowly to remove the forks from the fork pockets.



**LIFTING THE PLATFORM USING A CRANE (FOR VERSIONS 1, 2 AND 3)**

**⚠ IMPORTANT ⚠**

*Make sure that the straps and/or chains are solid enough to take the weight of the platform.  
 Make sure that the lifting capacity of the crane is sufficient to take the weight of the platform.*



	80 VJR 80 VJR EVOLUTION	100 VJR 100 VJR EVOLUTION
<b>CG = "CENTER OF GRAVITY" CENTER OF GRAVITY</b>		
X	705 mm	715 mm
Y	640 mm	690 mm
A	1,600 mm	1,600 mm
"TOTAL MASS" TOTAL WEIGHT	2,250 kg (4,960 lbs)	2,650 kg (5,840 lbs)

- Place the platform in TRANSPORT position.
- Put the turntable in NEUTRAL position.
- Switch off the power to the platform.
- Make sure that the turntable covers are closed.
- Attach the rigging to the 2 lifting points, <img alt="arrow icon" data-bbox="145 558 158 571"/> 2 - DESCRIPTION: STICKERS: LIFTING POINT.
- Adjust the rigging to prevent damage and keep the platform level.
- Lift the platform and move it to the desired place.
- Set the platform down on the ground.
- Detach the rigging.

NOTE: <img alt="arrow icon" data-bbox="145 632 158 645"/> 2 - DESCRIPTION: STICKERS: LIFTING.

**TRANSPORT**

**Platform**

<img alt="arrow icon" data-bbox="93 777 106 790"/> 2 - DESCRIPTION: TRANSPORTING THE PLATFORM.