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260 TJ
280 TJ

OPERATOR'S MANUAL
(ORIGINAL INSTRUCTIONS)

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FOREWORD

ABOUT THIS OPERATOR'S MANUAL

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 operator's manual before operating 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

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

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

You should contact MANITOU in the following scenarios:

- To report an accident.
- To update information about 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

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.

MACHINE IDENTIFICATION

The machine's identification plate is riveted on the back of the chassis. The following information is engraved on it:

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

MANUFACTURER PLATE FIRST VERSION:

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



MANUFACTURER PLATE SECOND VERSION:

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



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

SECTIONS

1 - OPERATING AND SAFETY INSTRUCTIONS

2 - DESCRIPTION

3 - MAINTENANCE

4 - ACCESSORIES

260 TJ

Commercial name: 260 TJ



280 TJ

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1 - OPERATING AND SAFETY INSTRUCTIONS

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INSTRUCTIONS TO THE COMPANY MANAGER **1-4**

THE SITE	1-4
THE OPERATOR	1-4
THE MACHINE	1-4
A - SUITABILITY OF THE MACHINE FOR THE TASK	1-4
B - ADAPTING THE MACHINE TO USUAL ENVIRONMENTAL CONDITIONS	1-5
C - MODIFYING THE MACHINE	1-5
INSTRUCTIONS	1-5
MAINTENANCE	1-5

INSTRUCTIONS FOR THE OPERATOR **1-6**

INTRODUCTION	1-6
GENERAL INSTRUCTIONS	1-6
A – OPERATOR'S MANUAL	1-6
B - AUTHORISATION FOR USE IN FRANCE	1-6
C - MAINTENANCE	1-7
D - MODIFYING THE MACHINE	1-7
E - GROUND LINK	1-7
F - SAFETY DEVICES	1-7
OPERATING INSTRUCTIONS	1-8
A - BEFORE USING THE MACHINE	1-8
B - DRIVER'S CAB LAYOUT	1-8
C - ENVIRONMENT	1-9
D - VISIBILITY	1-10
E - STARTING MACHINES WITH A DIESEL ENGINE	1-11
F - SWITCHING ON ELECTRICAL MACHINES	1-11
G - DRIVING THE MACHINE	1-11
H - SHUTTING DOWN THE MACHINE	1-12
INSTRUCTIONS FOR WELDING AND BLOW TORCH WORK ON AN EXTERNAL STRUCTURE	1-13
A - WITH AN ELECTRICAL WELDING SET	1-13
B - WITH A BLOW TORCH	1-13

MACHINE MAINTENANCE INSTRUCTIONS **1-14**

GENERAL INSTRUCTIONS	1-14
MAINTENANCE	1-14
MAINTENANCE LOGBOOK	1-14
LUBRICANT AND FUEL LEVELS	1-14
HYDRAULICS	1-14
ELECTRICITY	1-15
TILT SENSOR	1-15
WELDING ON THE MACHINE	1-15
WASHING THE MACHINE	1-15

IF THE MACHINE IS NOT TO BE USED FOR A LONG TIME **1-16**

INTRODUCTION 1-16

PREPARATION OF THE MACHINE 1-16

MACHINES WITH A DIESEL ENGINE: ENGINE PROTECTION 1-16

ELECTRICAL MACHINES: BATTERY CHARGE 1-16

PROTECTING THE MACHINE 1-16

BRINGING THE MACHINE BACK INTO SERVICE. 1-17

DISPOSING OF THE MACHINE **1-18**

RECYCLING OF MATERIALS 1-18

METALS 1-18

PLASTICS 1-18

RUBBER 1-18

GLASS 1-18

ENVIRONMENTAL PROTECTION 1-18

WORN OR DAMAGED PARTS 1-18

USED OIL 1-18

USED BATTERIES. 1-18

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

- 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

⚠ 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).

OPERATING INSTRUCTIONS

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 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.

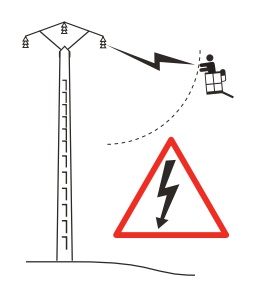
⚠ IMPORTANT ⚠

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



- 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 trees 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: <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: <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 (<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 (<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 (<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 (<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: 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



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



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

⚠ 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

⚠ 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

⚠ 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

⚠ 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

⚠ 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

- 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

- 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

- 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

- 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

⚠ IMPORTANT ⚠

Consult your dealer before disposing of the machine.

RECYCLING OF MATERIALS

METALS

- Metals are 100% recoverable and recyclable.

PLASTICS

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

RUBBER

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

GLASS

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

ENVIRONMENTAL PROTECTION

By entrusting the maintenance of your 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

"CE" DECLARATION OF CONFORMITY 260 TJ	2-4
"CE" DECLARATION OF CONFORMITY 280 TJ — No. 950123	2-5
"CE" DECLARATION OF CONFORMITY 280 TJ — No. 950124	2-6
STICKERS	2-8
SPECIFICATIONS	2-22
DIMENSIONS AND DIAGRAM 260 TJ	2-26
DIMENSIONS AND DIAGRAM 280 TJ	2-28
SAFETY COMPONENTS	2-30
CONTROL PANEL AND SAFETY DEVICES AT GROUND LEVEL	2-31
CONTROL PANEL AND SAFETY DEVICES IN THE BASKET	2-32
REMOTE CONTROL UNIT	2-34
SCREEN DISPLAY - DESCRIPTION OF PAGES	2-54
DEFINITION OF SUB-MENUS	2-57
PLATFORM OPERATION	2-60
TRANSPORTING THE PLATFORM	2-66
RESCUE PROCEDURE	2-72
OPTIONS	2-76

DECLARATION "CE" DE CONFORMITE (originale)
"EC" DECLARATION OF CONFORMITY (original) (1)

- (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: 260 TJ**

- (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:** 0062 5131 xxx xx xx xxxx
(9) - Organisme notifié, **Notified body:** BUREAU VERITAS INT. - 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

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

- (12) Mesuré, **Measured:** dB (A)
(13) Garanti, **Guaranteed:** dB (A)

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

- (14) - Normes harmonisées utilisées, **Harmonised standards used:**
EN12895
 (15) - Normes ou dispositions techniques utilisées, **Standards or technical provisions used:**

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

DECLARATION "CE" DE CONFORMITE (originale)
"EC" DECLARATION OF CONFORMITY (original) (1)

(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: 280 TJ**

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

2006/42/CE

(7) - Pour les machines annexe IV, **For annex IV machines:**

(8) - Numéro d'attestation, **Certificate number:** 0526 5131 xxx xx xx xxxx

(9) - Organisme notifié, **Notified body:** CETIM - 52 AVENUE FELIX LOUAT
BP 80067 - 60304 SENLIS CEDEX

2000/14/CE + 2005/88/CE

(10) - Procédure appliquée, **Applied procedure:**

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

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

(12) Mesuré, **Measured:** dB (A)

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

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

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

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

(16) - Fait à, **Done at:**

(17) - Date, **Date:**

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

(19) - Fonction, **Function:**

(20) - Société, **Company:**

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

DECLARATION "CE" DE CONFORMITE (originale) "EC" DECLARATION OF CONFORMITY (original) (1)

- (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: 280 TJ**
- (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:** 0062 5131 xxx xx xx xxxx
(9) - Organisme notifié, **Notified body:** BUREAU VERITAS INT. - 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
(11) - Niveau de puissance acoustique, **Sound power level:**
(12) Mesuré, **Measured:** dB (A)
(13) Garanti, **Guaranteed:** dB (A)

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

- (14) - Normes harmonisées utilisées, **Harmonised standards used:**
EN12895
 (15) - Normes ou dispositions techniques utilisées, **Standards or technical provisions used:**

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

bg : (1) „ЕО“ декларация за съответствие (оригинал), (2) Производител, (3) Адрес, (4) Притежател на техническото досие, (5) Производителът декларира, че описаната по-долу машина, (6) Е в съответствие със следните директиви и точното транспониране в националното законодателство (ако е приложимо), (7) Приложение IV относно машините, (8) Номер на сертификата, (9) Нотифициран орган, (10) Приложена процедура, (11) Ниво на силата на звука, (12) Измерено, (13) Гарантирано, (14) Използвани хармонизирани стандарти, (15) Използвани стандарти или технически разпоредби, (16) Изработено в, (17) Дата, (18) Име на подписващото лице, (19) Дължност, (20) Фирма, (21) Подпис

cs : (1) ES prohlášení o shodě (původní), (2) Výrobce, (3) Adresa, (4) Držitel technické dokumentace, (5) Výrobce prohlašuje, že zařízení popsané níže, (6) Je v souladu s následujícími směrnicemi a směrnicimi transponovanými do vnitrostátního práva (je-li relevantní), (7) Pro stroje v příloze IV(8) Číslo certifikátu, (9) Notifikační orgán, (10) Použitý postup, (11) Úroveň hluku (12) Naměřená, (13) Zaručená, (14) Použité harmonizované normy, (15) Použité normy nebo technické předpisy(16) Místo (17) Datum (18) Jméno podepsaného, (19) Funkce, (20) Společnost, (21) Podpis

da : (1) EF Overensstemmelseserklæring (original), (2) Producent, (3) Adresse, (4) Indehaver af det tekniske dossier, (5) Producenten erklærer, at maskinen, der er beskrevet nedenfor, (6) overholder nedenstående direktiver og disse gennemførelse til national ret (hvis det er relevant), (7) For maskiner under bilag IV, (8) Certifikat nummer, (9) Bemyndigede organ, (10) Anvendt procedure, (11) Lydeffektniveau, (12) Målt, (13) Garanti, (14) Anvendte harmoniserede standarder, (15) Standarder eller tekniske regler, (16) Udfærdiget i, (17) Dato, (18) Underskrivers navn, (19) Funktion, (20) Firma, (21) Underskrift.

de : (1) EG-Konformitätsbescheinigung (original), (2) Hersteller, (3) Adresse, (4) Inhaber des technischen Dokuments, (5) Der Hersteller erklärt, dass die nachstehend beschriebene Maschine (6) den folgenden Richtlinien und deren Umsetzung in die nationale Gesetzgebung entspricht (falls anwendbar), (7) Für die Maschinen laut Anhang IV, (8) Bescheinigungsnummer, (9) Benannte Stelle, (10) Angewandtes Verfahren, (11) Schalleistungspegel, (12) Gemessen, (13) Gewährleistet, (14) angewandte harmonisierte Normen, (15) angewandte sonstige technische Normen und Bestimmungen, (16) Ausgestellt in, (17) Datum, (18) Name des Unterzeichners, (19) Funktion, (20) Gesellschaft, (21) Unterschrift.

el : (1) Δήλωση συμμόρφωσης CE (πρωτότυπο), (2) Κατασκευαστής, (3) Διεύθυνση, (4) Κάτοχος του τεχνικού φακέλου, (5) Ο κατασκευαστής δηλώνει ότι το μηχανήμα που περιγράφεται παρακάτω, (6) Συμμορφώνεται με τις επίμαχες οδηγίες και τις προσαρμογές τους στο εθνικό δίκαιο (κατά περίπτωση), (7) Για το μηχανήματα του παραρτήματος IV, (8) Αριθμός πιστοποιητικού, (9) Διοικητικό όργανο, (10) Εφαρμοζόμενη διαδικασία, (11) Επίπεδο ηχητικής ισχύος, (12) Καταγεγραμμένο, (13) Εγγυημένο, (14) Εναρμονισμένα πρότυπα που χρησιμοποιούνται, (15) Πρότυπα ή τεχνικοί κανόνες που χρησιμοποιούνται, (16) Τόπος, (17) Ημερομηνία, (18) Όνομα του υπαγράφοντος, (19) Ιδιότητα, (20) Εταιρεία, (21) Υπογραφή

es : (1) Declaración CE de conformidad (original), (2) Fabricante, (3) Dirección, (4) Titular del expediente técnico, (5) El fabricante declara que la máquina que se describe a continuación, (6) Cumpie con las siguientes directivas y sus transposiciones a la legislación nacional (en caso oportuno), (7) Para las máquinas anexo IV, (8) Número de certificación, (9) Organismo notificado, (10) Procedimiento aplicado, (11) Nivel de potencia acústica, (12) Medido, (13) Garantizado, (14) Normas armonizadas utilizadas, (15) Otras normas o especificaciones técnicas utilizadas, (16) Hecho en, (17) Fecha, (18) Nombre del signatario, (19) Cargo, (20) Empresa, (21) Firma.

et : (1) EÜ vastavusdeklaratsioon (algupärane), (2) Tootja, (3) Aadress, (4) Tehnilise dokumentatsiooni valdaja, (5) Tootja kirjutab, et allpool kirjeldatud seade, (6) On vastavuses järgmistele direktiivide ja nende riigisisesele õigussisse ülevõtmiseks vastuvõetud õigusaktidega (kui on kohaldatav), (7) IV lisas loetletud seadmele puhtul, (8) Tunnistus number, (9) Sertifitseerimisasutus, (10) Kohaldatud meetodid, (11) Akustilise võimsuse tase, (12) Mõeldud, (13) Tagatud, (14) Vastab kehtivatele ühustatud standarditele, (15) Vastab muudele kehtivatele standarditele ja tehnilistele normidele, (16) Väljaandmise koht, (17) Väljaandmise aeg, (18) Allkirjastaja nimi, (19) Amet, (20) Ettevõtte, (21) Allkiri

fi : (1) EY-vastavuslupausmerkintä (alkuperäinen), (2) Valmistaja, (3) Osasto, (4) Teknisten asiakirjojen haltaja, (5) Valmistaja ilmoittaa, että alla kuvattu laite, (6) Täyttää seuraavien direktiivien sekä niitä vastaavien kansallisten säätöjen vaatimukset (tarvittaessa), (7) Liitteen IV laittujen osalta, (8) Todistusnumero, (9) Ilmoitettu laitos, (10) Käytetty menetelmätyyppi, (11) Äänen tehotaso, (12) Mittaus, (13) Taattu, (14) Käytetyt yhdenmukaistetut standardit, (15) Käytetyt tekniset standardit tai säännökset, (16) Paikka, (17) Aika, (18) Allekirjoittajan nimi, (19) Toini, (20) Yritys, (21) Allekirjoitus.

ga : (1) Dearbhú comhréireachta « CE » (bunaidh), (2) Déantóir, (3) Seoladh, (4) Sealbhoir an chomhad ticeiníúil, (5) Dearbhóir an déantóir go ndéantar go ndéantar an t-inneal ar a bhfuil cur síos dhios, (6) Cloíonn sé le na teoiricí seo a leanas agus lena dtreosú isteach i ndlí náisiúnta (más cúl), (7) Le haghaidh innill an agusáin IV, (8) Ulmhír teastais, (9) Comhlacht a dtagtar fógra dó, (10) Níos ísle ná a cnuasadh i dtéarmaí, (11) Leibhéal cumhachta na huaine, (12) Tomhasa, (13) Ráthaíocht, (14) Caighdeán chomhréireachta a úsáidtear, (15) Caighdeán nó fórlacha teicniúla a úsáidtear, (16) Arís dhéanann ag, (17) Dáta, (18) Ainm an tsíniheara, (19) Feidhmeannas, (20) Comhlacht (21) Síniú.

hr : (1) EK deklaracija o usklađenosti (original), (2) Proizvođač, (3) Adresa, (4) Nositelj tehničke dokumentacije, (5) Proizvođač izjavljuje da stroj opisan u nastavku, (6) Ispunjava sljedeće direktive i njihovom prijenosu u nacionalno zakonodavstvo (ako je primjenjivo), (7) Za dodatke IV o strojevima, (8) Broj certifikata, (9) Ovlašteno tijelo, (10) Primjenjeni postupak, (11) Razina snage zvuka, (12) Izmjeren, (13) Zajamčeno, (14) Primjenjeni standardi o harmoniziranju, (15) Primjenjeni standardi ili tehničke priloge, (16) Urađeno u, (17) Datum, (18) Ime potpisnika, (19) Funkcija, (20) Tvrtka, (21) Potpis.

hu : (1) CE megfelelőségi nyilatkozat (eredeti), (2) Gyártó, (3) Cím, (4) A műszaki dokumentáció birtokosa, (5) A gyártó kijelenti, hogy az alábbi termék, (6) Megfelel az alábbi irányelveknek valamint azok honosított előírásainak (ha vannak ilyenek), (7) A IV. melléklet gépeinek (amely esetben), (8) Bizonytalan szírn, (9) Ertesített szervezet, (10) Akkumulált előírás, (11) Akusztikus hang szint, (12) Mért, (13) Garantiált, (14) Felhasznált harmonizált szabványok, (15) egyéb felhasznált műszaki szabványok és előírások hivatkozásai, (16) Kelt (hely), (17) Dátum, (18) Aláíró neve, (19) Funkció, (20) Vállalat, (21) Aláírás

is : (1) Sammenhangingserklæring ESB (upprunaleg), (2) Framleiðandi, (3) Aðsetur, (4) Handhafni tekniskrár, (5) Framleiðandi staðfestir að vélin sem lýst er hér, (6) Samræmist eftirfarandi stöðlum og staðfarstu þeirra með hliðsjón af þjóðarriti (ef við á), (7) Fyrir tækjahlutnað I IV. viðauka, (8) Númer vottorðs, (9) Tilkynnt til, (10) Aðferð búið, (11) Hjóðstöflur, (12) Mældist, (13) Ábyrgð, (14) Samhlífur staðlar sem notaðir voru, (15) Aðrir staðlar eða teknilegar forskriftir, (16) Staður, (17) Dagsetning, (18) Nafn undirritaðs, (19) Staða, (20) Fyrirritari, (21) Underskrift.

it : (1) Dichiarazione CE di conformità (originale), (2) Costruttore, (3) Indirizzo, (4) Titolare del fascicolo tecnico, (5) Il costruttore dichiara che la macchina descritta di seguito, (6) È conforme alle direttive seguenti e al relativo recepimento nella normativa nazionale (se applicabile), (7) Per le macchine Allegato IV, (8) Numero di Attestazione, (9) Organismo destinatario della notifica, (10) Procedura applicata, (11) Livello di potenza acustica, (12) Misurato, (13) Garantito, (14) Norme armonizzate applicate, (15) Norme e specifiche tecniche applicate, (16) Luogo, (17) Data, (18) Nome del firmatario, (19) Funzione, (20) Società, (21) Firma.

lt : (1) EC atitikties deklaracija (originalas), (2) Gamintojas, (3) Adresas, (4) Techninės bylos turėtojas, (5) Gamintojas nurodo, kad mašina, aprašyta žemiau, (6) atitinka toliau nurodytas direktyvas ir nacionalinius teisės aktus perkeltus į nuostatas (jei taikytina), (7) IV priedas dėl mašinu, (8) Serifikato Nr., (9) Notifikuojoji įstaiga, (10) Taikytą procedūrą, (11) Garso stiprumo lygis, (12) Išmatuotas, (13) Garantuojamas, (14) Naudojami dariniai standartai, (15) Kit naudojami standartai ir techninės specifikacijos, (16) Pasirašyta, (17) Data, (18) Pasirašiusio asmens vardas ir pavardė, (19) Pareigos, (20) Bendrovė, (21) Parašas

lv : (1) EK atbilstības deklarācija (originals), (2) Ražotājs, (3) Adrese, (4) Tehniskās dokumentācijas turētājs, (5) Ražotāja apliecinā, ka turpmāk aprakstītā mašina, (6) Atbilst tālāk norādītajām direktīvam un to iekļaušanai nacionālajā iekumdošanā (ja piemērojama), (7) IV pielikuma iekārtām, (8) Serifikācija numurs, (9) Pilsvarotā iestāde, (10) Piemērotā procedūra, (11) Skaidras jaudas līmenis, (12) Izmērīts, (13) Garantēts, (14) Piemērojamie saistītie standarti, (15) Piemērojamie tehniskie standarti un noteikumi, (16) Sastādīts, (17) Datums, (18) Parakstītāja vārds, (19) Amats, (20) Uzņēmums, (21) Paraksts

mt : (1) Deklarazzjoni ta' Konformità tal-KE (originali), (2) Manifattur, (3) Indirizz, (4) Detentur tal-fajl tekniku, (5) Il-manifattur jiddeklara li l-magna descritta hawn taħt, (6) Hija konformi hija konforma mad-Direttivi segwenti u l-ħaġġiet li jimpjennawhom fil-ħiż nazzjonali (jekk applikabbli), (7) Għasli-magni fil-Anness IV, (8) Numru ta' -certifikat, (9) Enititá nnotifikata, (10) Proċedura applikata, (11) Livell ta' qawwa akustika, (12) Imkejjel, (13) Garantit, (14) l-standards armonizzati użati, (15) standards tekniku u speċifikazzjonijiet oħra użati, (16) Magħmul f, (17) Data, (18) Ism il-firmatarju, (19) Kariga, (20) Kumpanija (21) Firma.

nl : (1) EG-vertaling van overeenstemming (oorspronkelijk), (2) Fabrikant, (3) Adres, (4) Houder van het technisch dossier, (5) De fabrikant verklaart dat de hieronder beschreven machine, (6) in overeenstemming is met de volgende richtlijnen en hun omzettingen in het nationale recht (indien van toepassing), (7) Voor de machines in bijlage IV, (8) Certificatummer, (9) Aangemelde instantie, (10) Toegestapte procedure, (11) Geluidsvermogensniveau, (12) Gemeten, (13) Gegarandeerd, (14) gehanteerde geharmoniseerde normen, (15) andere gehanteerde technische normen en specificaties, (16) Opgemaakt te, (17) Datum, (18) Naam van ondergetekende, (19) Functie, (20) Onderneming, (21) Handtekening.

no : (1) CE-samsvarerklæring (original), (2) Producent, (3) Adresse, (4) Innehaver av den tekniske dokumentasjonen, (5) Producenten sier at maskinen beskrevet nedenfor, (6) Oppfyller kravene i følgende direktiver og med nasjonale gjennomføringsbestemmelser (hvis aktuelle), (7) For maskinene i bilag IV, (8) Attestnummer, (9) Teknisk kontrollorgan, (10) Anvendt prosedyre, (11) Akustisk støy, (12) Målt, (13) Garantert, (14) harmoniserte standarder som brukes, (15) Andre standarder og spesifikasjoner som brukes, (16) Utstedt, (17) Dato, (18) Underlegnedes navn, (19) Stilling, (20) Firma (21) Underskrift.

pl : (1) Deklaracja zgodności CE (oryginał), (2) Producent, (3) Adres, (4) Posiadacz dokumentacji technicznej, (5) Producent oświadcza, że opisana poniżej maszyna, (6) Jest zgodna z następującymi dyrektywami i odpowiadającymi im przepisami prawa krajowego (jeśli dotyczy), (7) Dla maszyn załącznik IV, (8) Numer certyfikatu, (9) Jednostka certyfikująca, (10) Procedura stosowana, (11) Poziom mocy akustycznej, (12) Zmierzony, (13) Gwarantowany, (14) zastosowane normy zharmonizowane, (15) Zastosowane normy lub przepisy techniczne, (16) Sporządzono w, (17) Data, (18) Nazwisko podpisującego, (19) Stanowisko, (20) Firma (21) Podpis

pt : (1) Declaração de conformidade CE (original), (2) Fabricante, (3) Morada, (4) Titular do processo técnico, (5) O fabricante afirma que a máquina descrita abaixo, (6) Está em conformidade com as seguintes diretivas e as suas transposições para o direito nacional (se for o caso), (7) Para as máquinas no anexo IV, (8) Número de certificado, (9) Entidade notificada, (10) Procedimento aplicado, (11) Nível de potência acústica, (12) Medida, (13) Garantida, (14) Normas harmonizadas utilizadas, (15) outras normas e especificações técnicas utilizadas, (16) Elaborado em, (17) Data, (18) Nome do signatário, (19) Cargo, (20) Empresa, (21) Assinatura

ro : (1) Declarație de conformitate CE (original), (2) Producător, (3) Adresa, (4) Titularul din dosarul tehnic, (5) Producătorul afirmă că aparatul descris mai jos, (6) Este conform cu directivele următoare și cu transpunerea lor în dreptul național (dacă este cazul), (7) Pentru mașinile din anexa IV, (8) Număr de atestare, (9) Organism notificat, (10) Procedură aplicată, (11) Nivel de putere acustică, (12) Măsurat, (13) Garantat, (14) standardele armonizate utilizate, (15) alte standarde și specificații tehnice utilizate, (16) Intocmit în, (17) Data, (18) Numele persoanei care semnează, (19) Funcția, (20) Firma, (21) Semnătură

sk : (1) Vyhlásenie o zhode ES (pôvodní), (2) Výrobca, (3) Adresa, (4) Držitel technické dokumentácie, (5) Výrobca vyhlasuje, že nižšie popísaný stroj, (6) Je v súlade s nasledujúcimi smernicami a smernicami transponovanými do vnútroštátneho práva (v prípade potreby), (7) Pre stroje v prílohe IV, (8) Číslo certifikátu, (9) Notifikovaný orgán, (10) Použitý postup, (11) Akustická úroveň hluku, (12) Naměřená, (13) Zaručená, (14) Použité harmonizované normy, (15) Iné použité normy a technické predpisy, (16) Miesto vydania, (17) Dátum vydania, (18) Meno podpísanej osoby, (19) Funkcia, (20) Spoločnosť, (21) Podpis

sl : (1) ES izjava o skladnosti (izvirnik), (2) Proizvajalec, (3) Naslov, (4) Imetnik tehnične dokumentacije, (5) Proizvajalec izjavlja, da naprava, opisana v nadaljevanju, (6) Ustreza naslednjim direktivam in nacionalni zakonodaji (če ta velja), (7) Za stroje v skladu s prilogo IV, (8) Številka potrdila, (9) Priglasjen organ, (10) Uporabjen postopek, (11) Ravnan akustične moči, (12) Izmerjena, (13) Zajamčena, (14) Uporabljene usklajene standarde, (15) Drugi uporabljeni tehnični standardi in specifikacije, (16) V, (17) Datum, (18) Ime podpisnika, (19) Funkcija, (20) Podjetje, (21) Podpis.

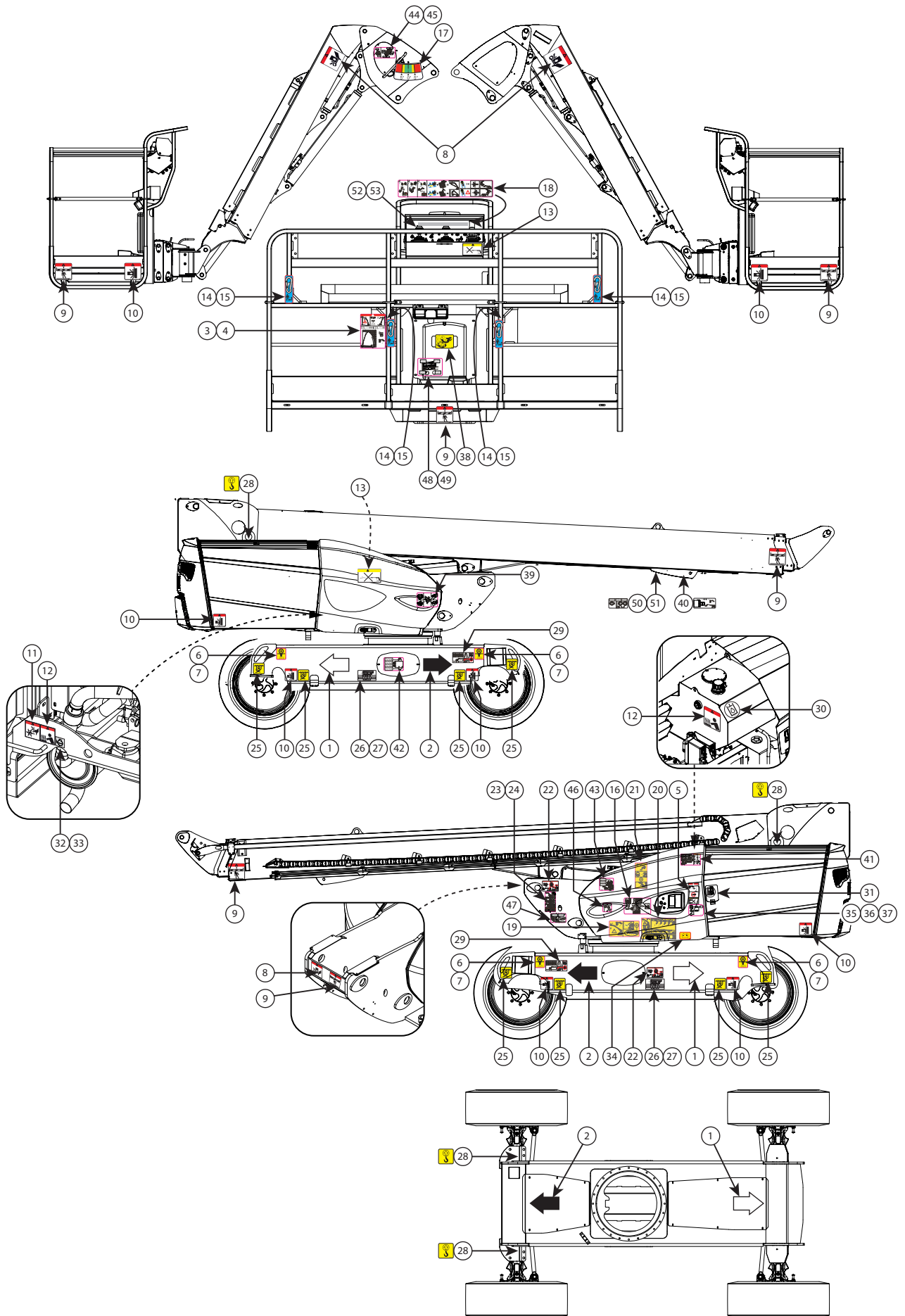
sv : (1) EÖ-förklaring om överensstämmelse (original), (2) Tillverkare, (3) Adress, (4) Ägaren av det tekniska underlaget, (5) Tillverkaren försäkras att den maskin som beskrivs nedan, (6) Överensstämmer med nedanstående direktiv och införlivandet av dem i nationell rätt (om tillämpligt), (7) För maskinerna i bilaga IV, (8) Nummer för godkännande, (9) Anmänt organ, (10) Förfarande som tillämpats, (11) Ljudtrycksnivå, (12) Uppmätt, (13) Garanterad, (14) Harmoniserade standarder som använts, (15) andra tekniska standarder och specifikationer som använts, (16) Upprättat i, (17) Datum, (18) Namn på den som undertecknat, (19) Befattning, (20) Företag (21) Namnteckning

STICKERS

⚠ IMPORTANT ⚠


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

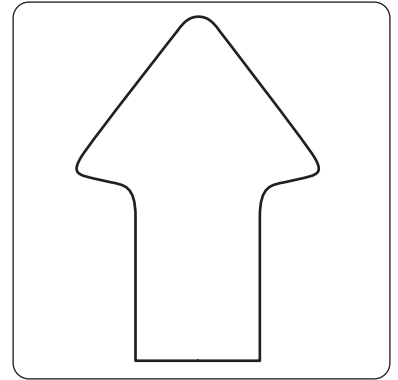
1 - WHITE ARROW	Part No. 833553	2-10
2 - BLACK ARROW	Part No. 833554	2-10
3 - BASKET SAFETY INSTRUCTIONS 260 TJ	Part No. 52514665	2-10
4 - BASKET SAFETY INSTRUCTIONS 280 TJ	Part No. 318457	2-10
5 - GROUND SAFETY INSTRUCTIONS	Part No. 685608	2-11
6 - WHEEL LOAD 260 TJ	Part No. 52523351	2-11
7 - WHEEL LOAD 280 TJ	Part No. 833552	2-11
8 - DANGER OF CRUSHING HANDS	Part No. 676988	2-11
9 - DANGER KEEP AWAY	Part No. 679450	2-11
10 - DANGER OF CRUSHING	Part No. 679452	2-12
11 - DANGER ROTATING PART	Part No. 683108	2-12
12 - DANGER HOT COMPONENT	Part No. 683112	2-12
13 - WASHING INSTRUCTION	Part No. 313672	2-12
14 - HARNESS ATTACHMENT POINT (first version)	Part No. 684503	2-12
15 - HARNESS ATTACHMENT POINT (second version)	Part No. 834438	2-13
16 - LOCATION OF EMERGENCY STOP BUTTONS	Part No. 834644	2-13
17 - JIB ANGLE	Part No. 833523	2-13
18 - JIB ZERO/ X-Y /TURNABLE ORIENTATION	Part No. 833675	2-13
19 - BACKUP PUMP	Part No. 833549	2-14
20 - EMERGENCY CONTROL PROCEDURE (DISTRIBUTOR)	Part No. 833548	2-14
21 - EMERGENCY CONTROL PROCEDURE (VALVE)	Part No. 833547	2-14
22 - TURNABLE LOCKING (depending on version)	Part No. 52673636	2-14
23 - PLATFORM EXTENSION/RETRACTION 260 TJ	Part No. 52515335	2-15
24 - PLATFORM EXTENSION/RETRACTION 280 TJ	Part No. 833703	2-15
25 - ANCHORAGE POINT	Part No. 833041	2-15
26 - ANCHORING (depending on version) 260 TJ	Part No. 52685387	2-16
27 - ANCHORING (depending on version) 280 TJ	Part No. 52685388	2-16
28 - LIFTING POINT (depending on version)	Part No. 833291	2-16
29 - LIFTING (depending on version)	Part No. 52657841	2-16
30 - HYDRAULIC OIL	Part No. 597652	2-16
31 - DIESEL	Part No. 683437	2-17
32 - ANTIFREEZE (first version)	Part No. 597649	2-17
33 - ANTIFREEZE (second version)	Part No. 52501046	2-17
34 - BATTERY LOCATION	Part No. 52509705	2-17
35 - POWER FUSES (first version)	Part No. 833705	2-17
36 - POWER FUSES (second version)	Part No. 52563677	2-18
37 - POWER FUSES (third version)	Part No. 52571680	2-18
38 - PLATFORM KEY LOCATION (depending on version)	Part No. 598897	2-18
39 - REMOTE LUBRICATION	Part No. 834206	2-18
40 - CABLE ADJUSTMENT	Part No. 833559	2-18
41 - FAULT CODES	Part no. 833687	2-19
42 - BRAKE UNIT COILS	Part No. 833702	2-19
43 - TURNABLE UNIT COILS	Part No. 833700	2-19
44 - BASKET/JIB BLOCK COILS AND TILT SENSORS	Part No. 834211	2-19
45 - BASKET/JIB BLOCK COILS AND TILT SENSORS	Part No. 52568744	2-19
46 - TURNABLE ROTATION SENSORS	Part No. 833688	2-20
47 - MAIN ARM ANGLE SENSORS	Part No. 833696	2-20
48 - OVERLOAD SENSORS 260 TJ	Part No. 52523374	2-20
49 - OVERLOAD SENSORS 280 TJ	Part No. 833694	2-20
50 - LOAD CHART SENSORS 260 TJ	Part No. 52523378	2-21
51 - LOAD CHART SENSORS 280 TJ	Part No. 833697	2-21
52 - RESET BUTTON SPS - FIRST VERSION (OPTION)	Part No. 52513971	2-21
53 - RESET BUTTON SPS - SECOND VERSION (OPTION)	Part No. 52676715	2-21



1 - WHITE ARROW

Part No. 833553

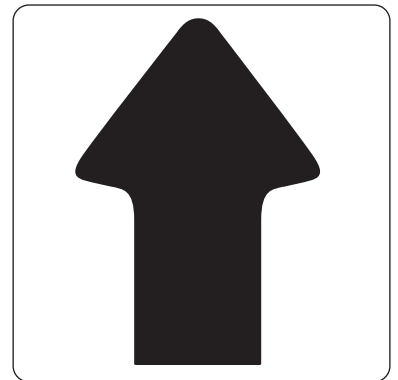
Indicates forward driving direction,  PLATFORM OPERATION: TRANSPORT/WORKING POSITION.



2 - BLACK ARROW

Part No. 833554

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



3 - BASKET SAFETY INSTRUCTIONS 260 TJ

Part No. 52514665

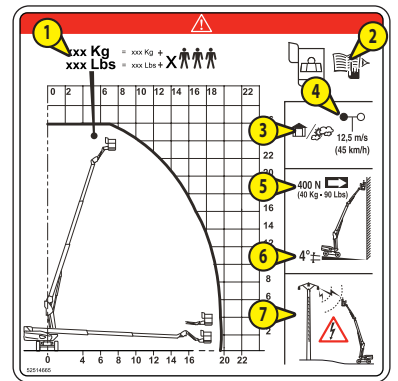
4 - BASKET SAFETY INSTRUCTIONS 280 TJ

Part No. 318457

Indicates:

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

NB: Each platform has its own specific capacity. Please refer to this sticker for your platform.

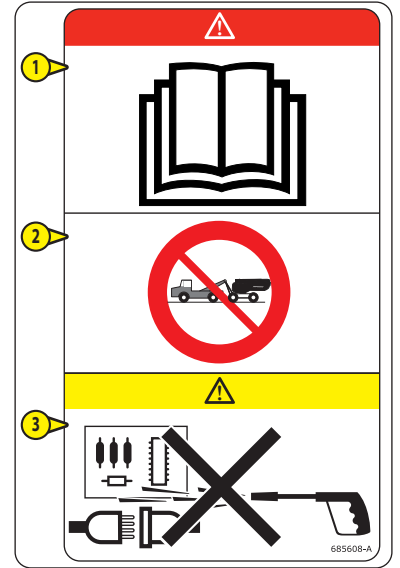


5 - GROUND SAFETY INSTRUCTIONS

Part No. 685608

Indicates:

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



6 - WHEEL LOAD 260 TJ

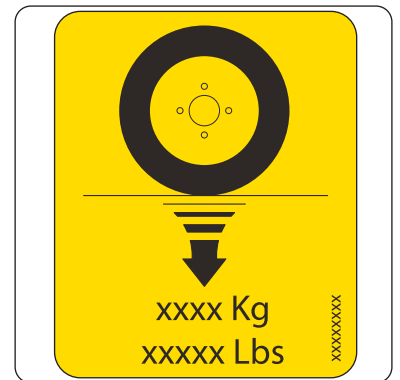
Part No. 52523351

7 - WHEEL LOAD 280 TJ

Part No. 833552

Indicates the maximum ground load per wheel.

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



8 - DANGER OF CRUSHING HANDS

Part No. 676988

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



9 - DANGER KEEP AWAY

Part No. 679450

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



10 - 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.



11 - DANGER ROTATING PART

Part No. 683108

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



12 - DANGER HOT COMPONENT

Part No. 683112

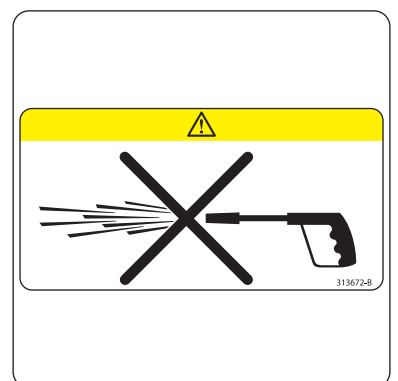
Indicates that there is a high risk of burns in the vicinity (silent engine, internal combustion engine, etc.).



13 - WASHING INSTRUCTION

Part No. 313672

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

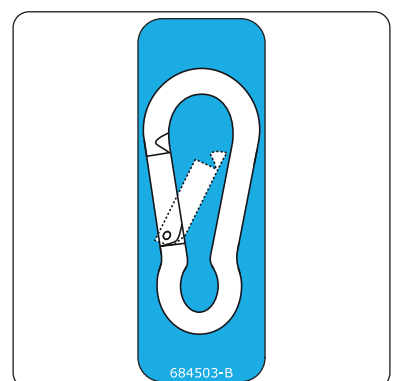


14 - HARNESS ATTACHMENT POINT (first version)

Part No. 684503

Apart from for 260 TJ and up to machine no. 950123 for 280 TJ.


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



15 - HARNESS ATTACHMENT POINT (second version)

Part No. 834438

For 260 TJ and from machine no. 950124 for 280 TJ.

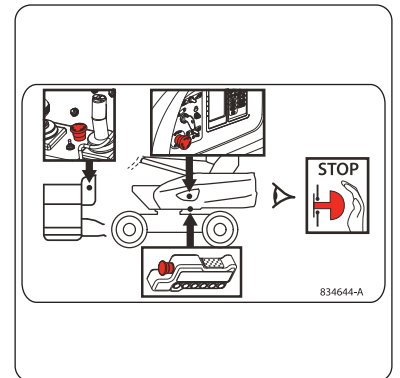
Indicates the location of safety harness attachment points,  SAFETY COMPONENTS: HARNESS ATTACHMENT POINTS.



16 - LOCATION OF EMERGENCY STOP BUTTONS

Part No. 834644

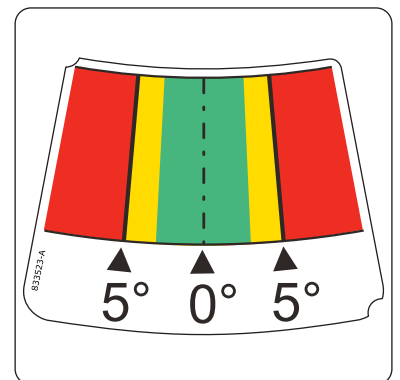
Indicates the location of platform's emergency stop buttons.



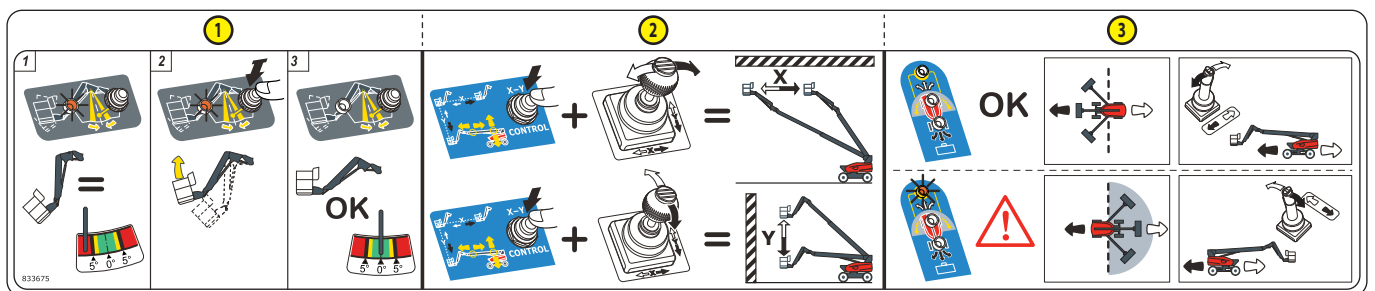
17 - JIB ANGLE

Part No. 833523




Indicates tilt angle of the basket/jib.



18 - JIB ZERO/ X-Y /TURNTABLE ORIENTATION Part No. 833675




Indicates the procedure to be followed for:

- 1**: The basket/jib assembly zero position control,  CONTROL PANEL AND SAFETY DEVICES IN THE BASKET: JIB ZERO POSITION WARNING LIGHT AND BUTTON.
- 2**: The control for functions X and Y,  CONTROL PANEL AND SAFETY DEVICES IN THE BASKET: X-Y FUNCTION BUTTON.
- 3**: Find out the direction of travel when the turntable orientation is less than 90° and when the turntable orientation is greater than 90°,  CONTROL PANEL AND SAFETY DEVICES IN THE BASKET: TURNTABLE ORIENTATION GREATER THAN 90° INDICATOR LIGHT.

19 - BACKUP PUMP


Part No. 833549

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



20 - EMERGENCY CONTROL PROCEDURE (DISTRIBUTOR)

Part No. 833548

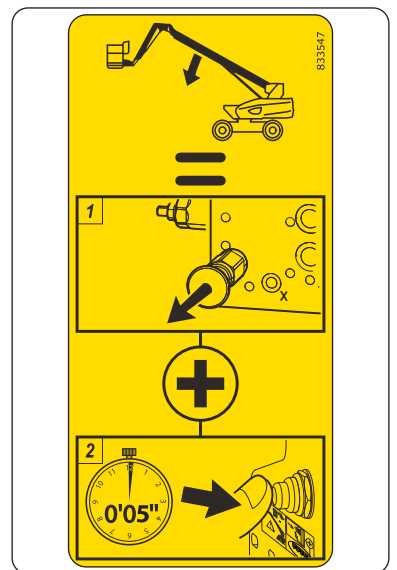
Indicates the procedure to be followed for using the emergency controls for proportional distributor,  RESCUE PROCEDURE.



21 - EMERGENCY CONTROL PROCEDURE (VALVE)

Part No. 833547

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



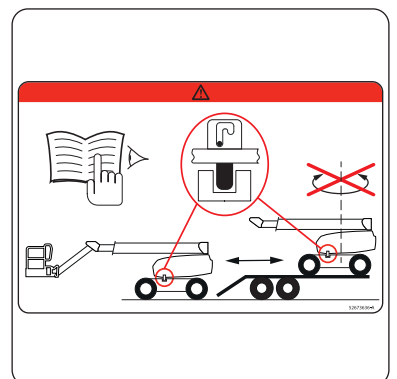
22 - TURNTABLE LOCKING (depending on version)

Part No. 52673636

Indicates:

- That the turntable must be locked before loading the platform onto a flatbed truck, before unloading it and once it is on the flatbed.
- That turntable rotation is prohibited once on the flatbed.

NB:  PLATFORM OPERATION: TRANSPORTING THE PLATFORM.



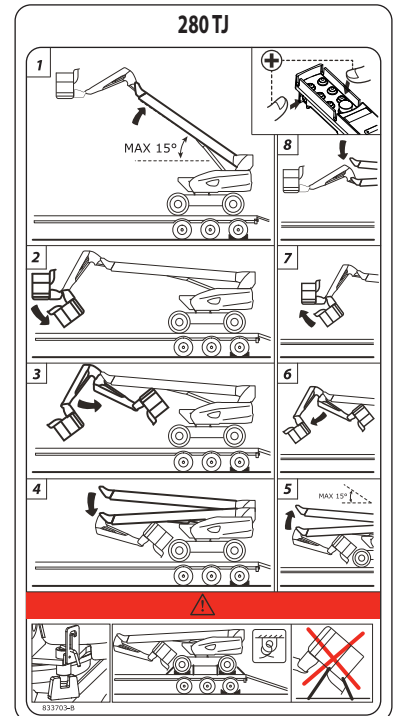
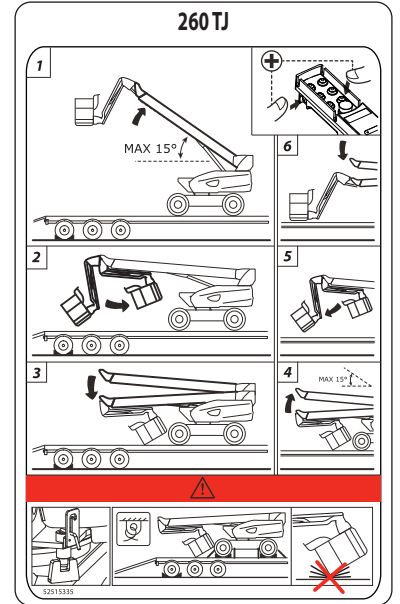
23 - PLATFORM EXTENSION/RETRACTION 260 TJ

Part No. 52515335

24 - PLATFORM EXTENSION/RETRACTION 280 TJ

Part No. 833703

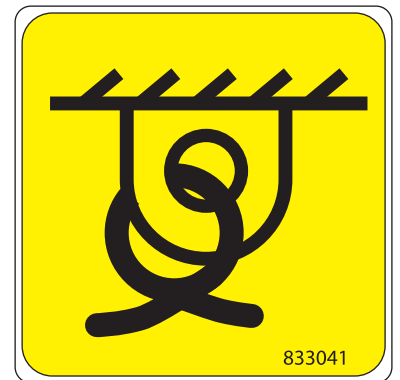
Indicates the procedure to be followed to extend/retract the platform, PLATFORM OPERATION: TRANSPORTING THE PLATFORM.



25 - ANCHORAGE POINT

Part No. 833041

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



31 - DIESEL

Part No. 683437

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

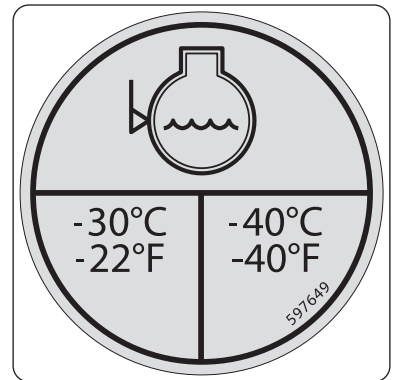


32 - ANTIFREEZE (first version)

Part No. 597649

This indicates that there is antifreeze in the IC engine.

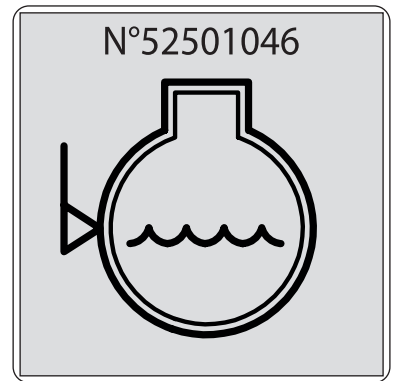
- Tick -30 °C (-22 °F) or -40 °C (-40 °F) box if the antifreeze protection has different properties from the original product.



33 - ANTIFREEZE (second version)

Part No. 52501046

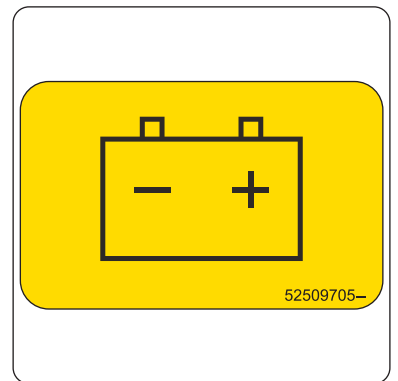
This indicates that there is antifreeze in the IC engine.



34 - BATTERY LOCATION

Part No. 52509705

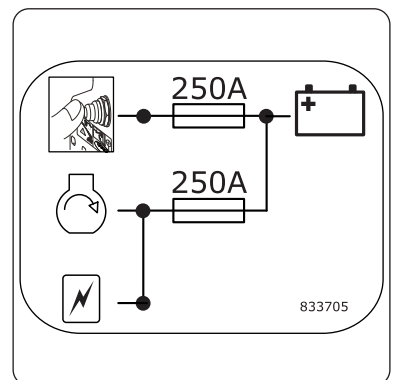
Indicates location of battery.



35 - POWER FUSES (first version)

Part No. 833705

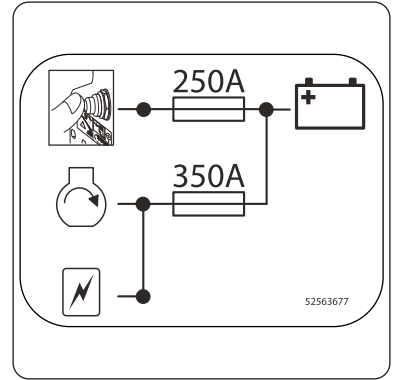
Indicates the location, amperage and allocation of power fuses.



36 - POWER FUSES (second version)

Part No. 52563677

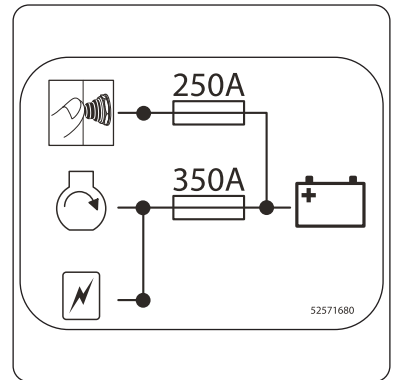
Indicates the location, amperage and allocation of power fuses.



37 - POWER FUSES (third version)

Part No. 52571680

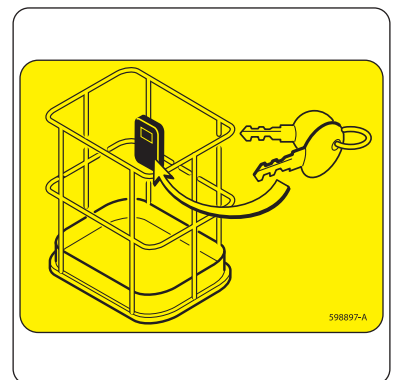
Indicates the location, amperage and allocation of power fuses.



38 - PLATFORM KEY LOCATION (depending on version)

Part No. 598897

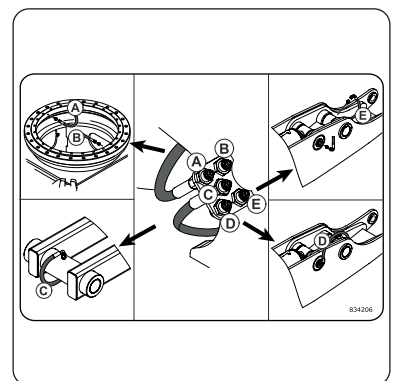
Indicates the location of the platform's spare keys.



39 - REMOTE LUBRICATION

Part No. 834206

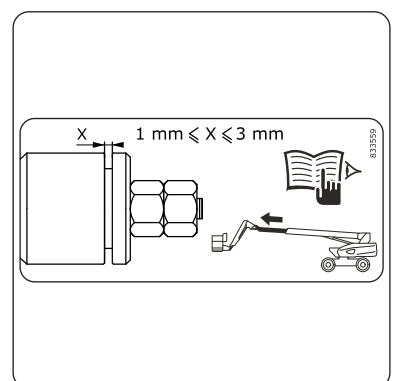
Indicates location and intended use of the remote lubricators for lubricating the turntable ring gear and the structure.



40 - CABLE ADJUSTMENT

Part No. 833559

Indicates the procedure to be followed to adjust the telescope cable tension.

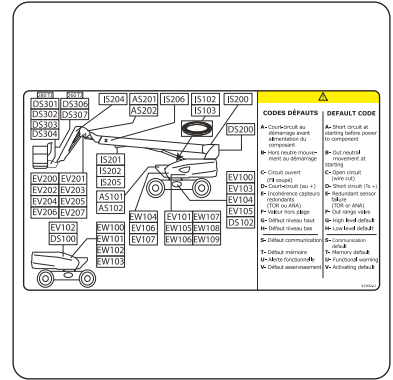


41 - FAULT CODES

Part no. 833687

Indicates the fault codes and location of the electrical components:

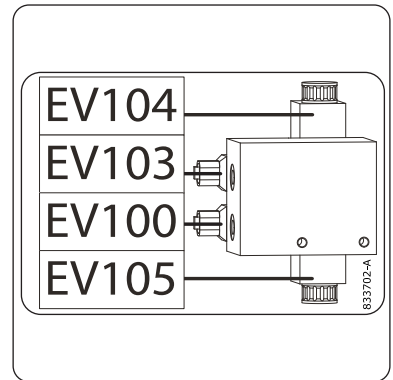
- Sensors (AS, DS, IS, TS).
- Electrovalves (EV).
- Solenoid coils (EW).



42 - BRAKE UNIT COILS

Part No. 833702

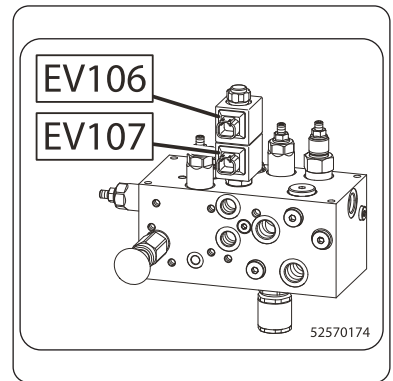
Indicates the location and fault codes of the brake unit coils.



43 - TURNTABLE UNIT COILS

Part No. 833700

Indicates the location and fault codes of the turntable unit coils.

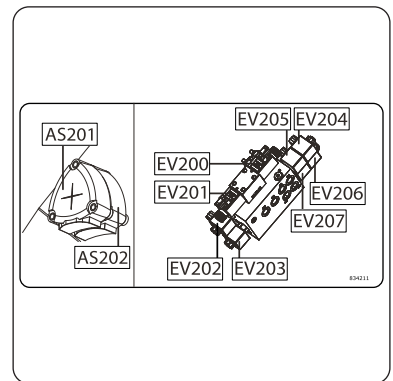


44 - BASKET/JIB BLOCK COILS AND TILT SENSORS

Part No. 834211

260 TJ: First version.

Indicates the location and fault codes of the /basket jib block coils and tilt sensors.

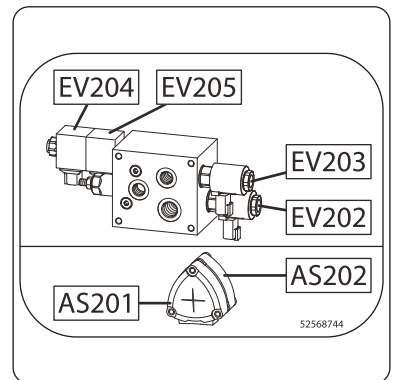


45 - BASKET/JIB BLOCK COILS AND TILT SENSORS

Part No. 52568744

260 TJ: Second version.

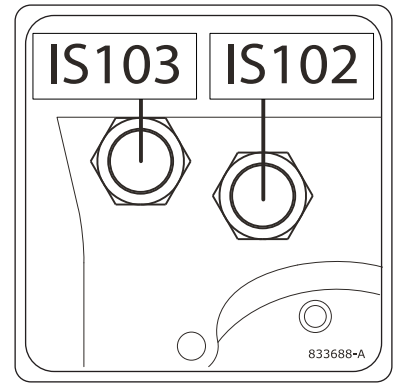
Indicates the location and fault codes of the /basket jib block coils and tilt sensors.



46 - TURNTABLE ROTATION SENSORS

Part No. 833688

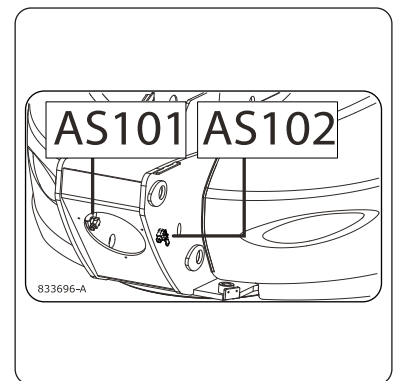
Indicates the location and fault codes of the turntable rotation coils.



47 - MAIN ARM ANGLE SENSORS

Part No. 833696

Indicates the location and fault code of the main arm angle sensor.



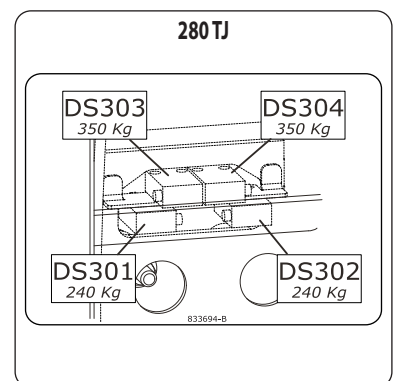
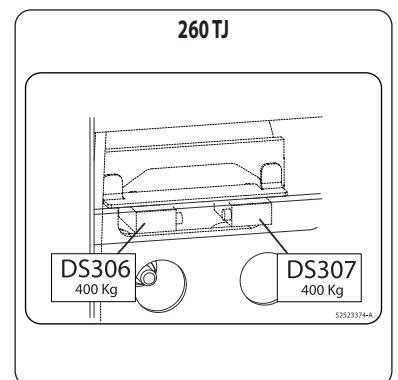
48 - OVERLOAD SENSORS 260 TJ

Part No. 52523374

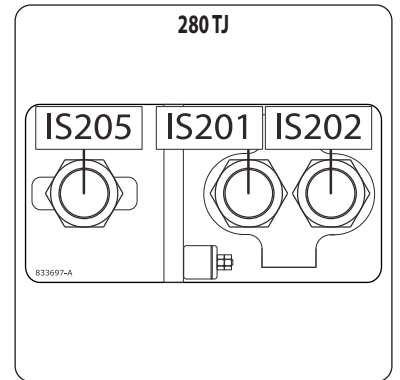
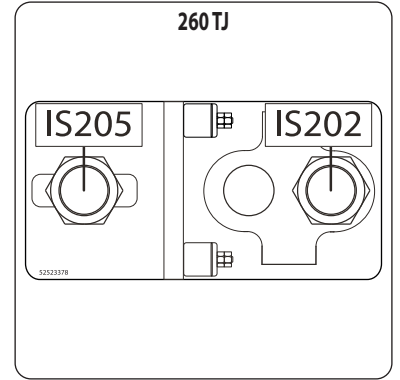
49 - OVERLOAD SENSORS 280 TJ

Part No. 833694

Indicates the location and fault codes of the overload sensors.

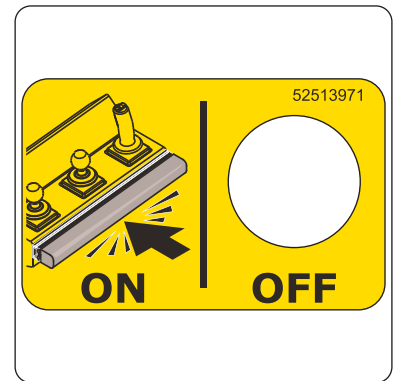


Indicates the location and fault codes of the abacus sensors.



52 - RESET BUTTON SPS - FIRST VERSION (OPTION)

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



53 - RESET BUTTON SPS - SECOND VERSION (OPTION)

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



SPECIFICATIONS

LOAD SPECIFICATIONS		260 TJ	280 TJ	±
Platform				
- Maximum load capacity in the basket	kg (lbs)	400 (881) (1)	(2)	-
- Maximum wind speed when operating outside	km/h	45		-
- Maximum number of people in the basket (indoor use/ outdoor use)		3 / 3 (1)	(2)	-
- Unladen platform weight	kg (lbs)	16,400 (36,155)	16,650 (36,710)	-
- Maximum authorised tilt in working position	°	4		0.1%
- Maximum slope accessible in transport position with 100 kg (220 lbs) in the basket	%	34.5		-
- Maximum authorised manual force	N	400		-
Wheels				
- Load on one front wheel (transport position)	kg (lbs)	5,675 (12,512)	5,500 (12,126)	10%
- Load on one rear wheel (transport position)	kg (lbs)	2,550 (5,622)	2,800 (6,173)	10%
- Maximum load on one wheel (working position)	kg (lbs)	9,500 (20,944)	10,500 (23,149)	-
- Bearing surface on ground (hard/soft), wheels SOLIDEAL HAULER-SKS (first version)	cm ²	635/1,471	623 / 1,160	-
- Punching on ground (hard/soft), wheels SOLIDEAL HAULER- SKS (first version)	daN/cm ²	14.96 / 6.46	16.85 / 9.05	-
- Bearing surface on ground (hard/soft), wheels SOLIDEAL SOLIDAIR AWP (second version)	cm ²	446/1,125	472 / 1,179	-
- Punching on ground (hard/soft), wheels SOLIDEAL SOLIDAIR AWP (second version)	daN/cm ²	21.3 / 8.44	22.25 / 8.91	-
(1): PIPE SUPPORT attachment or PANEL SUPPORT attachment not installed, \triangleleft 4-ATTACHMENTS for the specific values when an attachment is installed.				
(2): \triangleleft DIMENSIONS AND DIAGRAM 280 TJ.				
SPEEDS AND MOVEMENTS		260 TJ	280 TJ	±
Driving speed				
- WORKING POSITION speed	km/h	0.8		0.1
- SLOW speed	km/h	1.8		-
- TORTOISE speed	km/h	2.5		0.2
- RAMP speed	km/h	2.5		0.2
- HARE speed	km/h	4.5		0.2
Main arm (telescope extended)				
- Unladen/laden lifting	s	70 / -		5
- Unladen/laden lowering	s	70 / -		5
Main arm (telescope retracted)				
- Unladen/laden lifting	s	45 / -		5
- Unladen/laden lowering	s	42 / -		5
Telescope				
- Unladen/laden extension	s	30 / -		5
- Unladen/laden retraction	s	30 / -		5
Jib - 260 TJ				
- Unladen/laden lifting	s	22 / -	-	5
- Unladen/laden lowering	s	18 / -	-	5
Jib (telescope extended) - 280 TJ				
- Unladen/laden lifting	s	-	30 / -	5
- Unladen/laden lowering	s	-	25 / -	5
Jib (telescope retracted) - 280 TJ				
- Unladen/laden lifting	s	-	23 / -	5
- Unladen/laden lowering	s	-	18 / -	5
Jib telescope - 280 TJ				
- Unladen/laden extension	s	-	16 / -	5
- Unladen/laden retraction	s	-	13 / -	5
Turntable				
- 90° rotation (telescope extended/retracted/retracted and main arm raised)	s	50/30/28		5
Basket				
- Rotation 180° (left/right)	s	14 / 14		5

ENGINE		260 TJ	280 TJ	±
Type		KUBOTA V2403-M		-
Fuel		Diesel		-
Number of cylinders		4		-
Cubic capacity	cm ³	2,434		-
Idling speed unladen	rpm	1,050		50
Maximum speed unladen	rpm	2,550		20
Power at 3,000 rpm	kW	34.1		-
Maximum torque at 1,600 rpm	N.m	162.5		-
Unladen weight	kg (lbs)	184 (406)		5 (11)
Type of cooling		Coolant		-
Fan		Puller		-
Emissions				
- CO (carbon monoxide)	g/kWh	-		-
- HC + Nox (hydrocarbons + nitrogen dioxide)	g/kWh	-		-
- PT (particles)	g/kWh	-		-
TRANSMISSION				
Hydrostatic pump				
- Type		BOSCH REXROTH A4VG56		-
- Cubic capacity	cm ³	56		-
- Maximum unladen flow rate	L/min	-		-
- Maximum pressure	bar	400		5
Hydrostatic motor				
- Type		BOSCH REXROTH or PARKER		-
- Cubic capacity	cm ³	125		-
Axles				
- Type		DANA SPICER		-
- Reduction ratio		47.06		-
- Pulling force	daN	5,850		-
- Front axle differential		45% limited slip		-
- Rear axle differential		Hydraulic locking 100%		-
Number of front/rear steering/directional wheels		2 / 2		-
Number of front/rear drive wheels		2 / 2		-
Wheels (first version)				
- Type		SOLIDEAL HAULER-SKS 385/45-28		-
- Dimensions (external Ø x width)	mm	1,086 x 370		-
- Inflation		Foam		-
Wheels (second version)				
- Type		SOLIDEAL SOLIDAIR AWP		-
- Dimensions (external Ø x width)	mm	1,025 x 365		-
- Inflation		Solid tyre		-
BRAKE SYSTEM (parking brake)				
Type of brake		Negative		-
Type of control		Hydraulics		-
Braked wheels front/rear		2 / 2		-
Release (freewheel mode)		Yes, manual		-
Braking torque	daN.m	3,100 on wheel		-

HYDRAULIC CIRCUIT		260 TJ	280 TJ	±
Auxiliary hydraulic pump				
- Type		BOSCH REXROTH		-
- Cubic capacity	cm ³	28		-
- Maximum unladen flow rate	L/min	70		-
Distributor				
- Type		proportional electrovalve		-
- Maximum pressure	bar	250		5
Filtration				
- Suction	µm	125		-
- Pressure	µm	10		-
- Operation	µm	10		-
ELECTRIC CIRCUIT				
		260 TJ	280 TJ	±
Battery				
- Type		EXIDE		-
- Capacity C5	Ah	145		-
- Capacity C20	Ah	-		-
- Rated voltage	V	12		-
Alternator				
- Type		-		-
- Maximum current	A	60		-
- Rated voltage	V	12		-
Starter				
- Type		Electric		-
- Power	kW	1.4		-
- Voltage	V	12		-
BACKUP PUMP				
		260 TJ	280 TJ	±
- Type		Electric		-
- Cubic capacity	cm ³	2		-
- Power	kW	1.3		-
- Voltage	V	12		-
- Pressure 150 bars	A	-		-
DIMENSIONS				
		260 TJ	280 TJ	±
Basket				
- External dimensions (length x width)	mm	2,300 x 900		1%
- Floor dimensions (length x width)	mm	2,235 x 840		1%
- Rotation angle right/left	°	90 / 90		-
Jib displacement angle up/down	°	70,3 / 63	56,8 / 62	1%
Turntable rotation angle	°	Continuous rotation		-
Other dimensions: DIMENSIONS AND DIAGRAM 260 TJ and DIMENSIONS AND DIAGRAM 280 TJ				
NOISE AND VIBRATION				
		260 TJ	280 TJ	±
Acoustic power level LwA (first version / second version)	dB	105 / 106		-
Vibrations affecting body in the basket				
- Average quadratic values for the body	m/s ²	<0.5		-

EQUIPMENT	260 TJ	280 TJ	±
Orange rotating beacon light	Standard		-
Hour meter	Standard		-
Proportional diesel level display	Standard		-
Fuel/battery low level alarm	Standard		-
Tool box in basket	Standard		-
User interface (diagnostic aid)	Standard		-
Oscillating front axle	Standard		-
Turntable orientation more than 90° indicator light	Standard		-
Remote control unit	Standard		-
Permanent orange rotating beacon light	Option*		-
All movements alarm	Option*		-
Driving/steering alarm	Option*		-
Key lock for turntable covers	Option**		-
Battery cut-off	Option		-
230 V outlet in basket	Option		-
Generator 110 V/3.5 kW (UK electric power socket)	Option**		-
Generator 220 V/3.5 kW	Option**		-
Generator 220 V/5 kW	Option**		-
Working light	Option		-
Secondary protection system SPS - first version "SafeManSystem"	Option**		-
Secondary protection system SPS - second version	Option**		-
Pipe support	◁ 4 - Attachments		-
Panel support	◁ 4 - Attachments		-

*: ▷ DEFINITION OF SUB-MENUS.

** : ▷ OPTIONS.

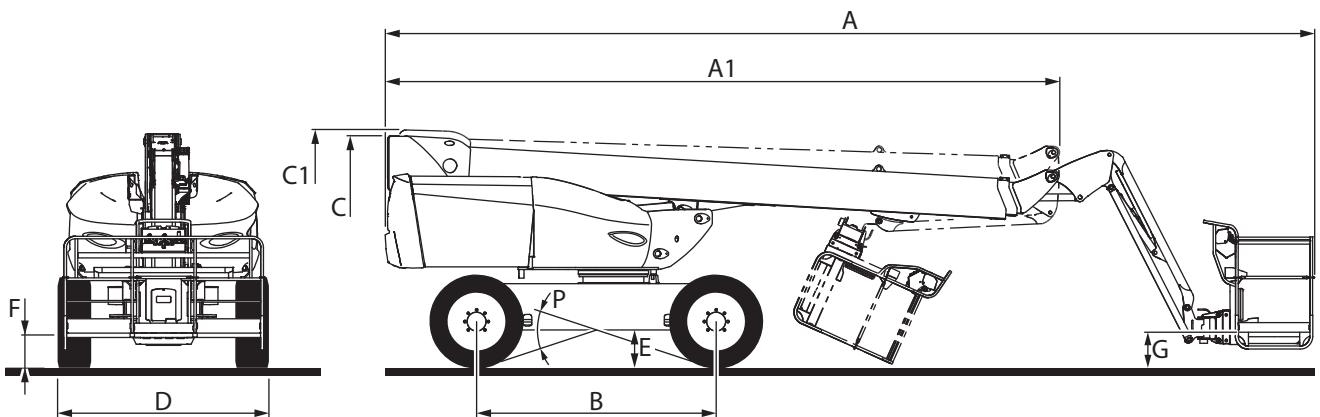
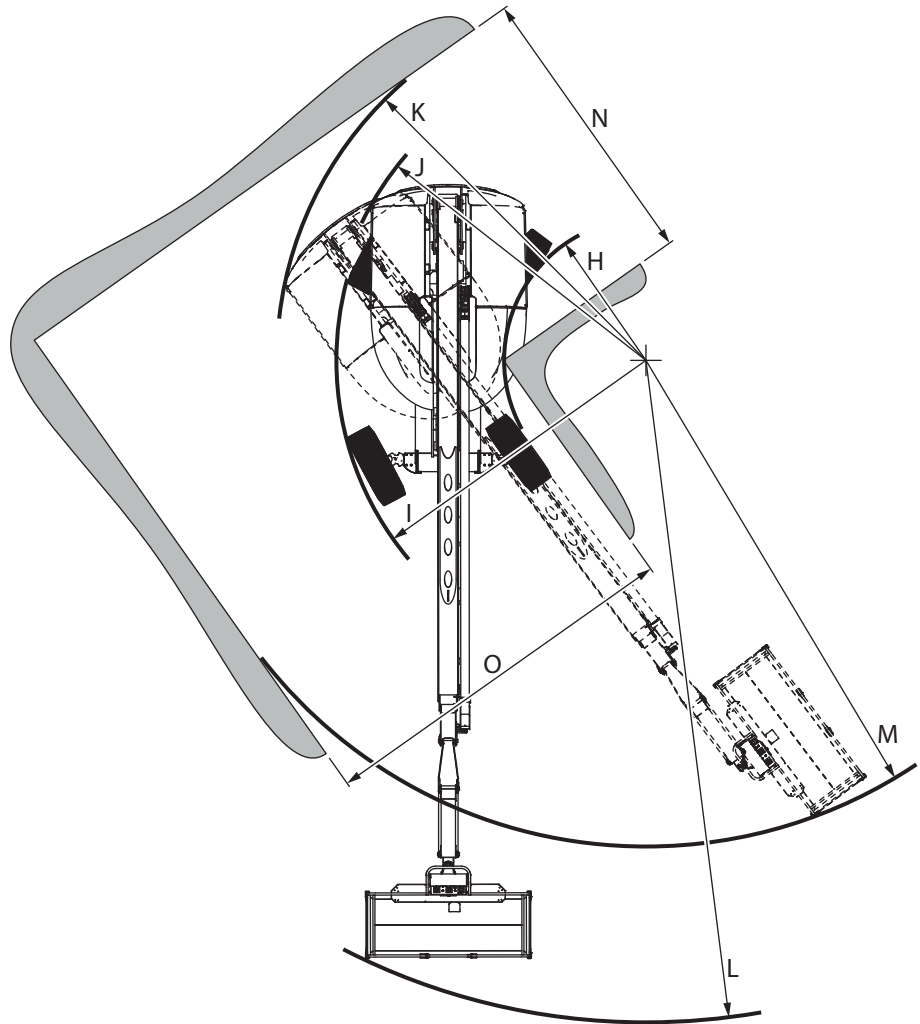
DIMENSIONS AND DIAGRAM 260TJ

A	mm	10,840	
A1	mm	7,880	
B	mm	2,800	
C	mm	2,725 (1)	2,710 (2)
C1	mm	2,815 (1)	2,800 (2)
D	mm	2,430 (1)	2,480 (2)
E	mm	430 (1)	415 (2)
F	mm	375 (1)	355 (2)
G	mm	405 (1)	480 (2)

H	mm	2,000 (1)	1,975 (2)
I	mm	4,330 (1)	4,355 (2)
J	mm	4,420	
K	mm	5,180	
L	mm	9,270 (1)	9,280 (2)
M	mm	6,845 (1)	6,850 (2)
N	mm	4,030 (1)	4,000 (2)
O	mm	5,160 (1)	5,240 (2)
P	°/%	39 / 80 (1)	36 / 73 (2)

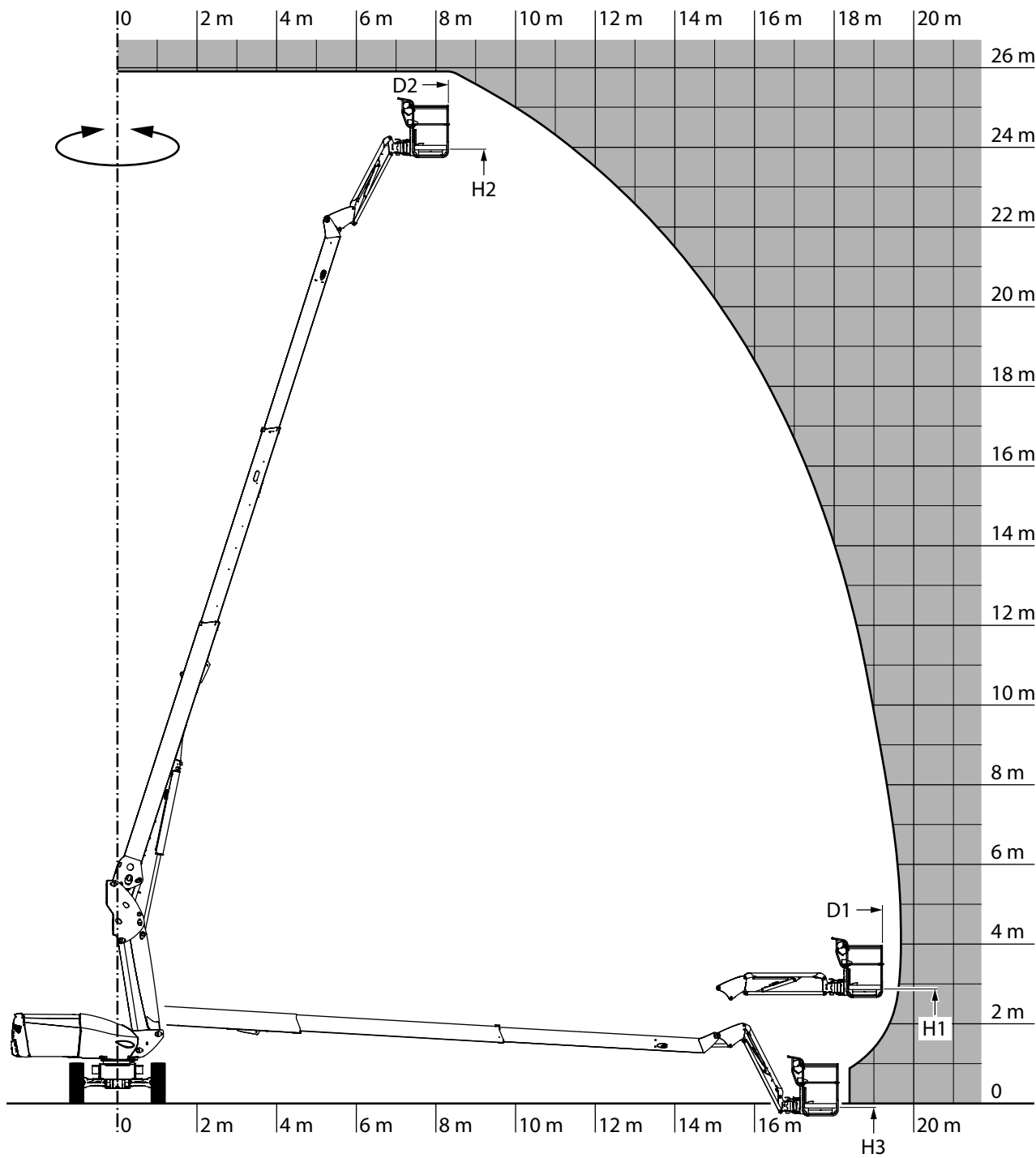
(1): Wheels SOLIDEAL HAULER-SKS (first version).

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



D1	mm	19,200	
H1	mm	2,795 (1)	2,785 (2)
D2	mm	8,285	
H2	mm	23,910 (1)	23,890 (2)
H3	mm	180 (1)	195 (2)

(1): Wheels SOLIDEAL HAULER-SKS (first version).
(2): Wheels SOLIDEAL SOLIDAIR AWP (second version).



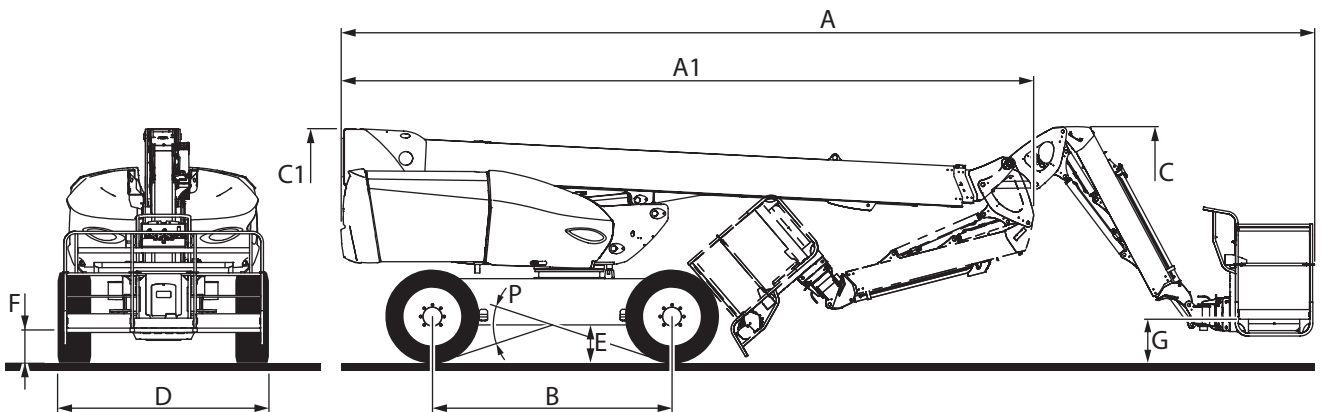
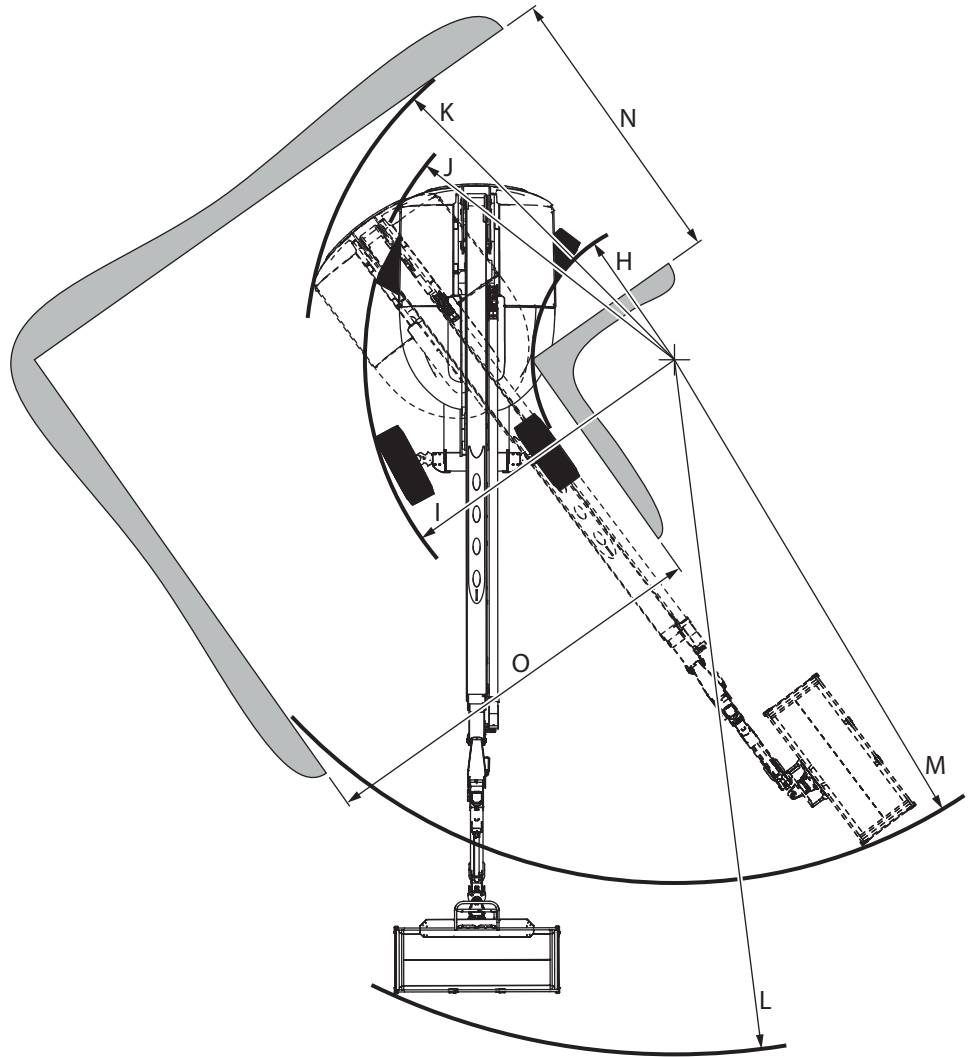
DIMENSIONS AND DIAGRAM 280TJ

A	mm	11,355	
A1	mm	8,095	
B	mm	2,800	
C	mm	2,750 (1)	2,730 (2)
C1	mm	2,725 (1)	2,710 (2)
D	mm	2,430 (1)	2,480 (2)
E	mm	430 (1)	415 (2)
F	mm	375 (1)	355 (2)
G	mm	500 (1)	485 (2)

H	mm	2,000 (1)	1,975 (2)
I	mm	4,330 (1)	4,355 (2)
J	mm	4,420	
K	mm	5,180	
L	mm	9,750	
M	mm	7,340	
N	mm	4,030 (1)	4,000 (2)
O	mm	5,710 (1)	5,730 (2)
P	°/%	39 / 80 (1)	36 / 73 (2)

(1): Wheels SOLIDEAL HAULER-SKS (first version).

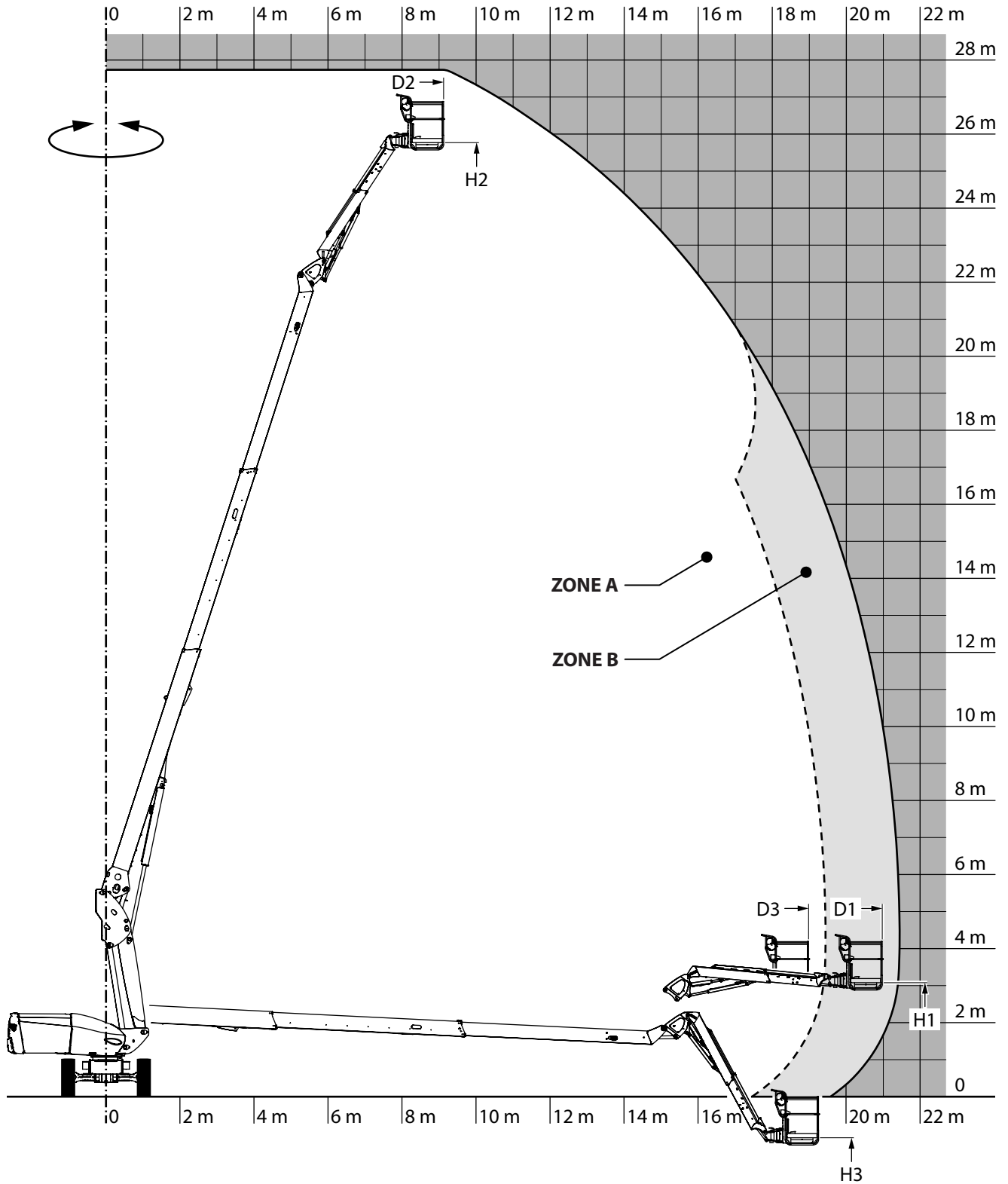
(2): Wheels SOLIDEAL SOLIDAIR AWP (second version).



D1	mm	20,950	
H1	mm	3,050 (1)	3,035 (2)
D2	mm	9,100	
H2	mm	25,750 (1)	25,735 (2)
D3	mm	18,950	
H3	mm	1,150 (1)	1,165 (2)

(1): Wheels SOLIDEAL HAULER-SKS (first version).

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



LOAD SPECIFICATIONS		ZONE A	ZONE B	±
Platform				
- Maximum load capacity in the basket	kg (lbs)	350 (771) (1)	240 (529) (1)	-
- Maximum number of people in the basket (indoor use/ outdoor use)		3/3 (1)	2/2 (1)	-
(1): PIPE SUPPORT attachment or PANEL SUPPORT attachment not installed, \triangleleft 4-ATTACHMENTS for the specific values when an attachment is installed.				

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.

NB: 1 guardrail at the rear of the basket, and 2 other guardrails on each side of the basket.

NB: The platform in the illustration is a 260 TJ.



HARNESS ATTACHMENT POINTS

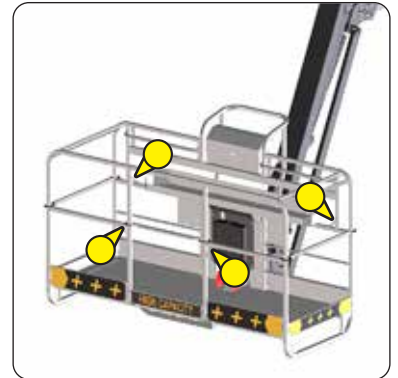
⚠ IMPORTANT ⚠

Only one operator is permitted to use each attachment point.

- Attach security harnesses to attachment points in the basket.

NB: 4 attachment points, STICKERS: HARNESS ATTACHMENT POINTS.

NB: The platform in the illustration is a 260 TJ.



TURNTABLE LOCKING PIN

Locking the turntable prevents it from rotating.

Position **1A**: The turntable is unlocked.

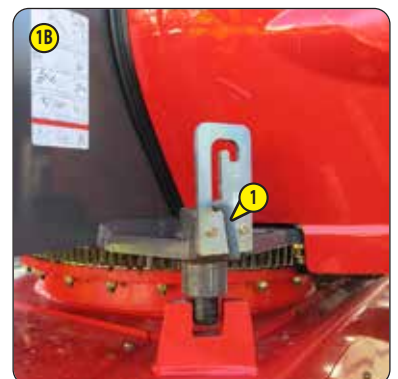
Position **1B**: The turntable is locked.

LOCK THE TURNTABLE

- Align the pin **1** and the chassis **A** notch.
- Pull the pin and turn it to the left.
- Push it into the chassis notch (position **1B**).

UNLOCK THE TURNTABLE

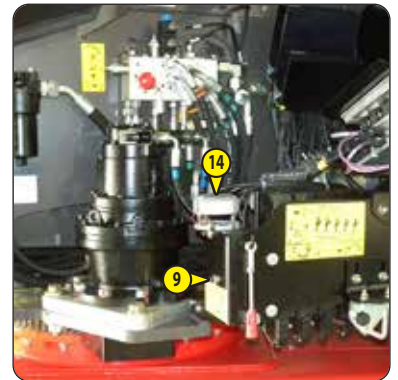
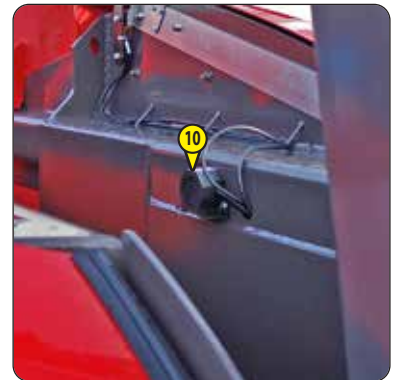
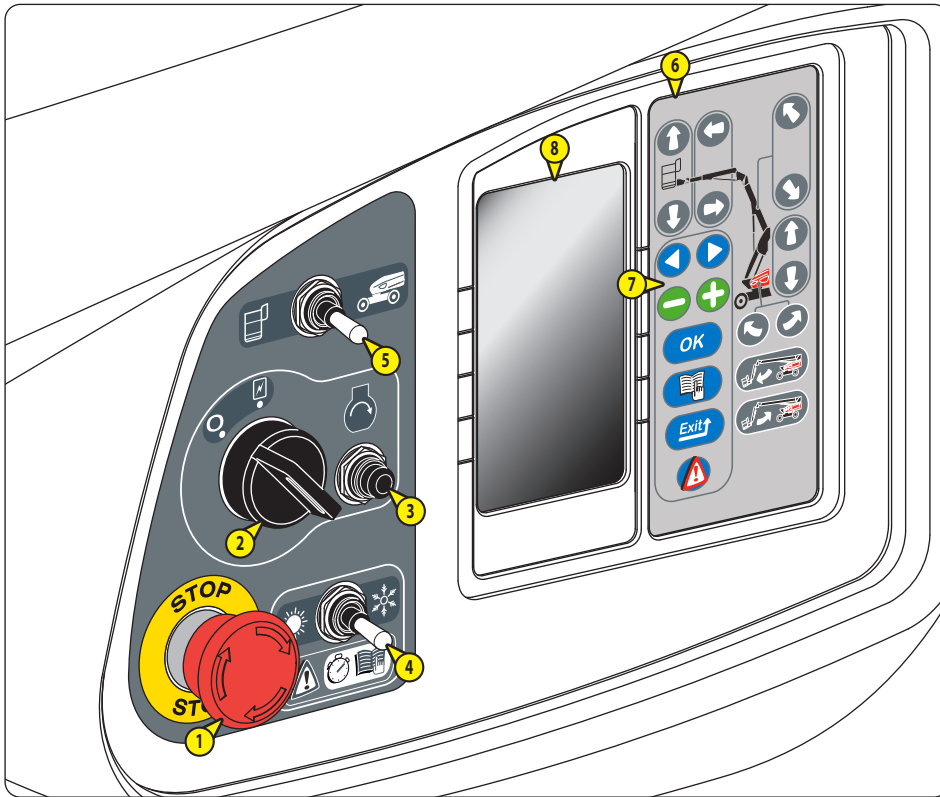
- Pull the pin **1** and turn it to the right.
- Push it into position **1A**.



CONTROL PANEL AND SAFETY DEVICES AT GROUND LEVEL

⚠ IMPORTANT ⚠

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

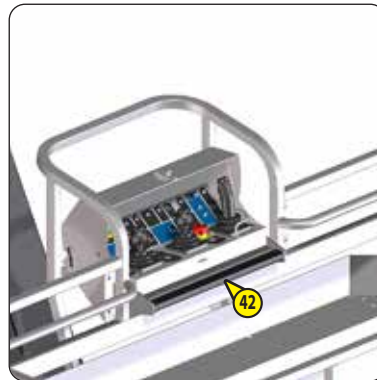
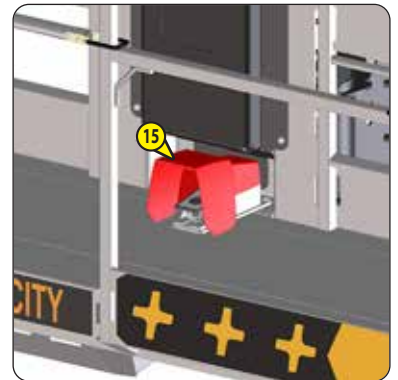
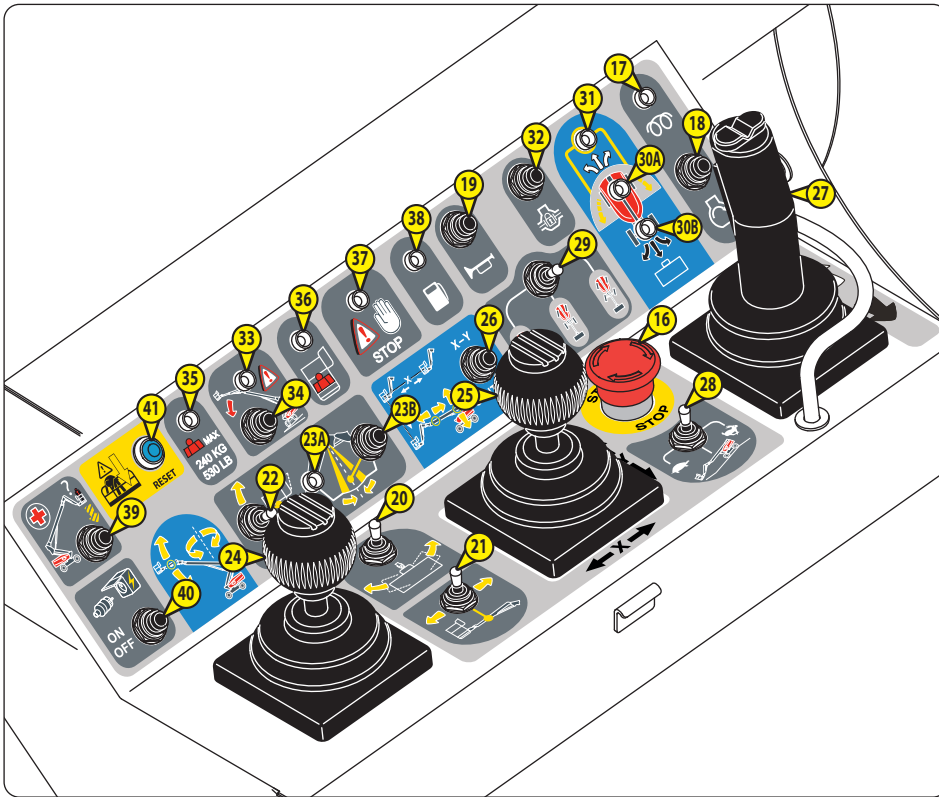


1 - EMERGENCY STOP BUTTON	2-37
2 - IGNITION SWITCH	2-37
3 - ENGINE STARTER BUTTON	2-37
4 - ENGINE STARTING MODE SWITCH	2-38
5 - CONTROL SELECTION SWITCH ON THE GROUND/IN THE BASKET	2-38
6 - CONTROL KEYS	2-38
7 - NAVIGATION SCREEN INTERFACE KEYS	2-39
8 - INTERFACE SCREEN	2-39
9 - BACKUP PUMP BUTTON	2-39
10 - HORN	2-40
11 - ORANGE ROTATING BEACON LIGHT	2-40
12 - FLASHING LIGHT SPS (OPTION)	2-40
13 - LEVELLING SENSOR (first version)	2-40
14 - LEVELLING SENSOR (second version)	2-41

CONTROL PANEL AND SAFETY DEVICES IN THE BASKET

⚠ IMPORTANT ⚠

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



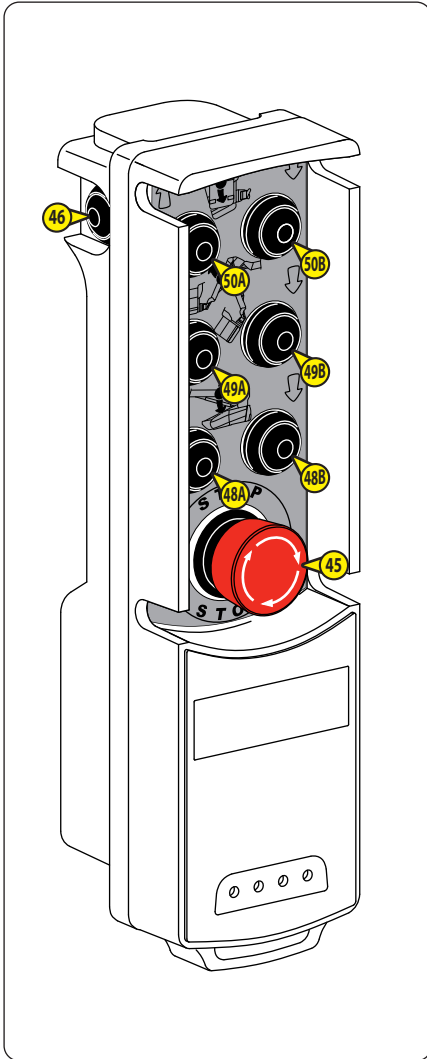
15 - PEDAL SWITCH	2-41
16 - EMERGENCY STOP BUTTON.....	2-41
17 - PREHEAT INDICATOR LAMP	2-41
18 - ENGINE STARTER BUTTON	2-42
19 - HORN BUTTON	2-42
20 - BASKET ROTATION SWITCH	2-42
21 - JIB TELESCOPE SWITCH ONLY FOR 280 TJ	2-42
22 - BASKET TILT SWITCH ONLY FOR 280 TJ	2-43
23 - WARNING LIGHT AND BUTTON - JIB ZERO POSITION.....	2-43
24 - JIB AND TURNABLE CONTROL HANDLE	2-44
25 - MAIN ARM AND TELESCOPE CONTROL HANDLE.....	2-44
26 - X-Y FUNCTION BUTTON	2-45
27 - DRIVING/STEERING CONTROL HANDLE.....	2-45
28 - DRIVING SPEED SELECTION SWITCH.....	2-46
29 - STEERING MODE SELECTION SWITCH.....	2-46
30 - WHEEL ALIGNMENT INDICATOR LIGHTS	2-46
31 - TURNABLE ORIENTATION MORE THAN 90° INDICATOR LIGHT.....	2-47
32 - DIFFERENTIAL LOCKING BUTTON	2-47
33 - TILT/OSCILLATION WARNING LIGHT	2-48
34 - USE ON SLOPE BUTTON	2-48
35 - RESTRICTED CAPACITY WARNING LIGHT ONLY FOR 280 TJ	2-49
36 - OVERLOAD WARNING LIGHT.....	2-49
37 - FAULT WARNING LIGHT	2-50
38 - LOW FUEL LEVEL WARNING LIGHT	2-51
39 - BACKUP PUMP BUTTON	2-51
40 - GENERATOR BUTTON (OPTION)	2-51
41 - RESET BUTTON SPS (OPTION)	2-52
42 - PRESSURE-SENSITIVE BAR SPS (OPTION)	2-52
43 - SAFETY CABLE SPS (OPTION)	2-52
44 - AUDIBLE ALARM.....	2-53

REMOTE CONTROL UNIT

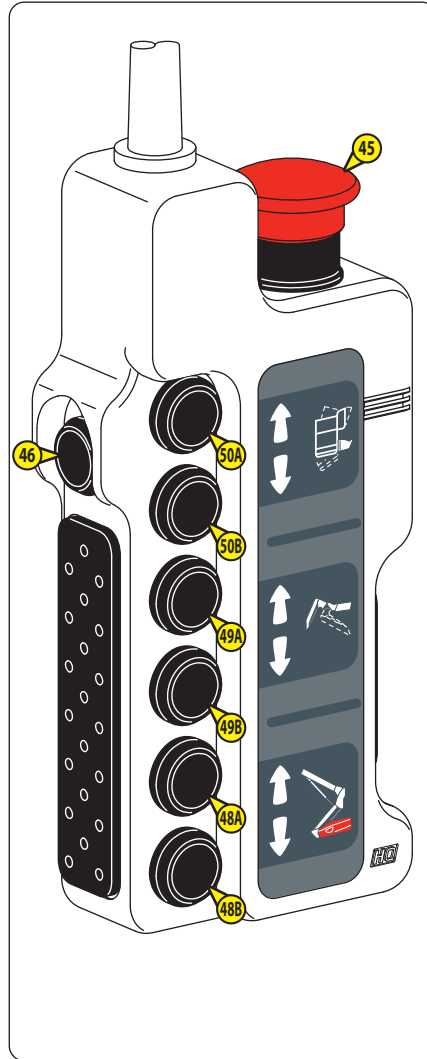
The remote control unit **A** is located under the turntable's right-hand cover.



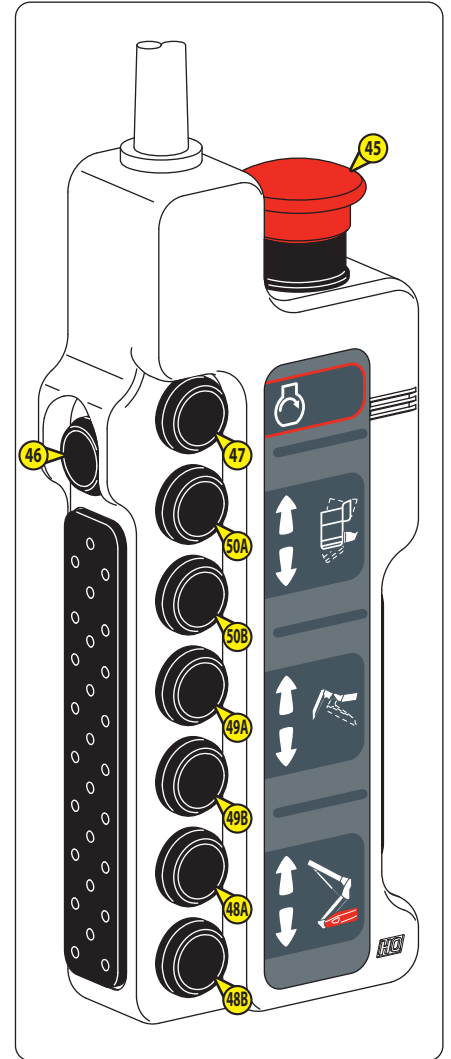
FIRST VERSION



SECOND VERSION



THIRD VERSION



45 - EMERGENCY STOP BUTTON	2-53
46 - ACTIVATION BUTTON	2-54
47 - ENGINE STARTER BUTTON (depending on version)	2-54
48 - MAIN ARM CONTROL BUTTONS	2-54
49 - BASKET/JIB TILT CONTROL BUTTONS	2-55
50 - BASKET TILT BUTTON ONLY FOR 280 TJ	2-55

1 - EMERGENCY STOP BUTTON

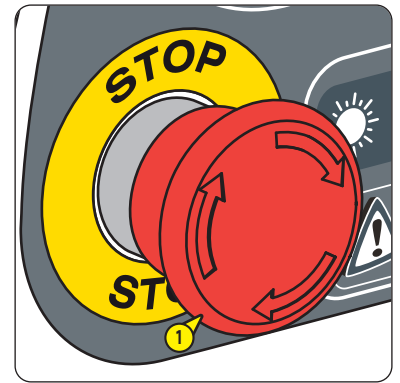
⚠ IMPORTANT ⚠

In all cases this control takes priority, even when the movements are executed from the basket control panel or the remote control unit.

Movements may stop suddenly if the emergency stop is activated.

2 positions:

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



2 - IGNITION SWITCH

2 positions:



Without battery cut-off option: Powering down of the platform. The key can be removed.

With battery cut-off option: Powering down of the control system. The key can be removed.

NB: The battery cut-off must be in the OFF position to switch the platform off.

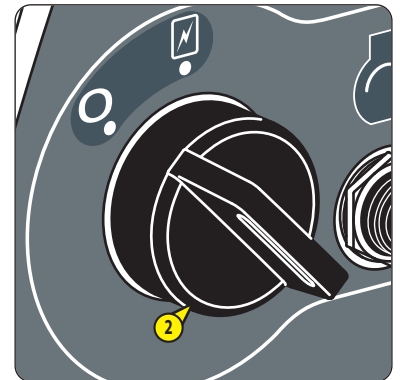


Without battery cut-off option: Powering up the platform. The key cannot be removed.

NB: The 3 emergency stop buttons must be in the ON position to power up the platform.

With battery cut-off option: Powering up the control system. The key cannot be removed.

NB: The battery cut-off must be in the ON position and the 3 emergency stop buttons must be in the ON position to power up the platform.

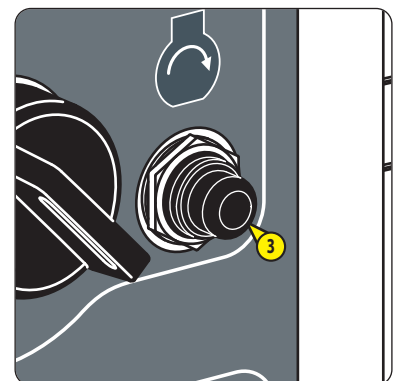


3 - ENGINE STARTER BUTTON

⚠ IMPORTANT ⚠


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


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



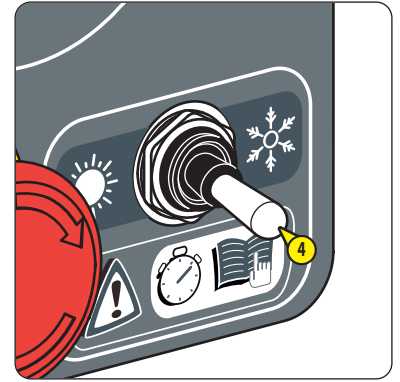
4 - ENGINE STARTING MODE SWITCH

2 positions:

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


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

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




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

2 positions:

 CONTROLS IN THE BASKET when the switch is released:

- The controls in the basket are activated.


 GROUND CONTROLS:

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

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



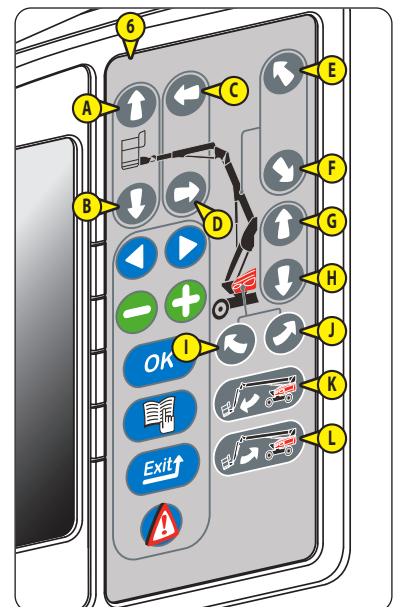
6 - CONTROL KEYS

- Push and hold the ground level/basket control selection switch to the right .
- Press and hold down the appropriate keys to activate platform controls:

- A RAISE THE JIB.**
- B LOWER THE JIB.**
- C EXTEND THE JIB TELESCOPE (ONLY FOR 280 TJ).**
- D RETRACT THE JIB TELESCOPE (ONLY FOR 280 TJ).**
- E EXTEND THE TELESCOPE.**
- F RETRACT THE TELESCOPE.**
- G RAISE THE MAIN ARM.**
- H LOWER THE MAIN ARM.**
- I TURN THE TURNTABLE TO THE LEFT.**
- J TURN THE TURNTABLE TO THE RIGHT.**
- K TILT BASKET/JIB UPWARDS.***
- L TILT BASKET/JIB DOWNWARDS.***







*: These controls are only active when the angle of the main arm is 15° maximum in relation to the completely lowered position.

- Release the keys or the selection switch to stop.



7 - NAVIGATION SCREEN INTERFACE KEYS

- Press the appropriate keys:

-  ARROWS:
 - Navigate through the menu/sub-menu pages.
-  PLUS/MINUS:
 - Navigate through the menu pages or change the parameters.
-  OK:
 - Confirm a selection or a parameter.
-  MENU:
 - Display the MENU PAGE.
 - Exit a men/sub-menu and return to WORK PAGE.
-  EXIT:
 - Cancel a parameter change.
 - Return to the previous sub-menu level.
-  FAULT:
 - Display the FAULT CODE/ALARM PAGE.

NB: SCREEN DISPLAY - DESCRIPTION OF PAGES.

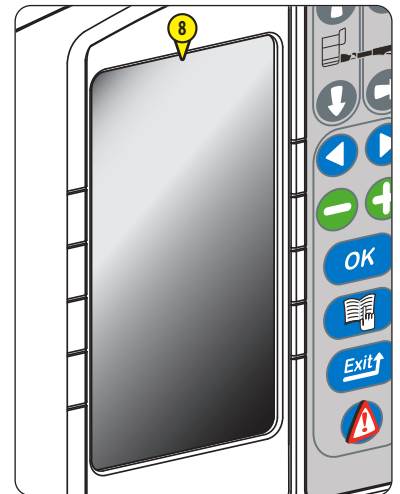


8 - INTERFACE SCREEN

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

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

NB: SCREEN DISPLAY - DESCRIPTION OF PAGES.



9 - BACKUP PUMP BUTTON

 RESCUE PROCEDURE.



10 - HORN

The horn sounds:

- When the horn button is pressed.
- Depending on version: Twice when the platform is turned on without starting the engine in the next 10 seconds, SCREEN DISPLAY - DESCRIPTION OF PAGES: ALARM PAGE.

ALL MOVEMENTS ALARM option: This sounds intermittently when the controls are activated and when driving/steering the platform, DEFINITION OF SUB-MENUS: USER OPTIONS: HORN MODE.

DRIVING/STEERING ALARM option: This sounds intermittently when driving/steering the platform, DEFINITION OF SUB-MENUS: USER OPTIONS: HORN MODE.

SECONDARY PROTECTION SYSTEM option SPS - FIRST VERSION "SafeManSystem": It sounds intermittently when the system is in alarm mode, OPTIONS.

SECONDARY PROTECTION SYSTEM option SPS - SECOND VERSION: It sounds intermittently when the system is in alarm mode, OPTIONS.



11 - ORANGE ROTATING BEACON LIGHT

PERMANENT ORANGE ROTATING BEACON LIGHT option deactivated: The orange rotating beacon light is lit when the controls are activated and when driving/steering the platform, DEFINITION OF SUB-MENUS: USER OPTIONS: PERMANENT ORANGE ROTATING BEACON LIGHT.

PERMANENT ORANGE ROTATING BEACON LIGHT option activated: The orange rotating beacon light is lit when the platform is powered up, DEFINITION OF SUB-MENUS: USER OPTIONS: PERMANENT ORANGE ROTATING BEACON LIGHT.



12 - FLASHING LIGHT SPS (OPTION)

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

13 - LEVELLING SENSOR (first version)

Two indicator lights under the levelling sensor indicate its status:

	RED LIGHT	YELLOW LIGHT	AUDIBLE ALARM
Maximum authorised tilt not reached	Lit	Unlit	Stop
Maximum authorised tilt reached	Lit	Lit	Sounds intermittently



14 - LEVELLING SENSOR (second version)

An indicator light on the levelling sensor indicates its status:

	INDICATOR LIGHT	AUDIBLE ALARM
Maximum authorised tilt not reached	Lit	Stop
Maximum authorised tilt reached	Unlit	Sounds intermittently



15 - PEDAL SWITCH

⚠ IMPORTANT ⚠

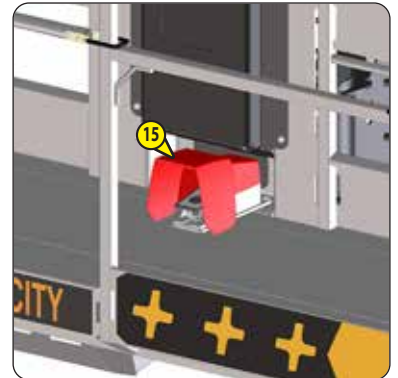
Do not press the pedal switch when starting the engine.

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

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

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

NB: The platform in the illustration is a 260 TJ.



16 - EMERGENCY STOP BUTTON

⚠ IMPORTANT ⚠

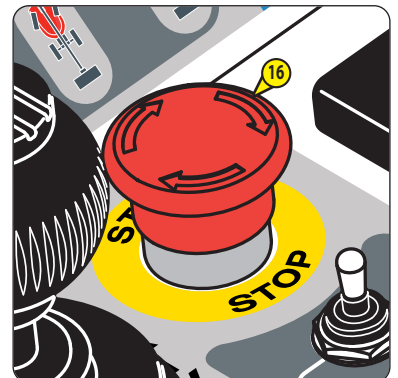
Up to machine no. 950123 for 280 TJ: In all cases this control takes priority, even when the movements are executed from the ground control panel or the remote control unit.

For 260 TJ and from machine no. 950124 for 280 TJ: In all cases this control takes priority, except when the movements are executed from the ground control panel or the remote control unit.

Movements may stop suddenly if the emergency stop is activated.

2 positions:

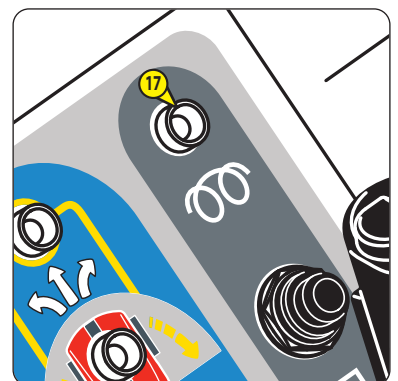
- OFF (locked): Press the button to cut off movement and to stop the engine.
- ON (unlocked): Turn the button a quarter turn to the right and release it.



17 - PREHEAT INDICATOR LAMP

The indicator light is lit during the engine preheat cycle.

It switches off when the preheat cycle is completed.

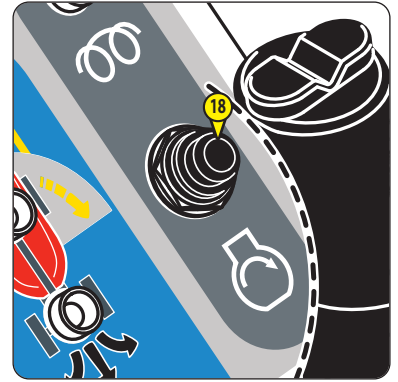


18 - ENGINE STARTER BUTTON

⚠ IMPORTANT ⚠

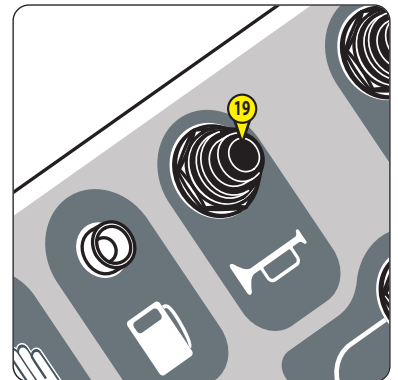
Do not keep the button pressed for more than 15 seconds.

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



19 - HORN BUTTON

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



20 - BASKET ROTATION SWITCH

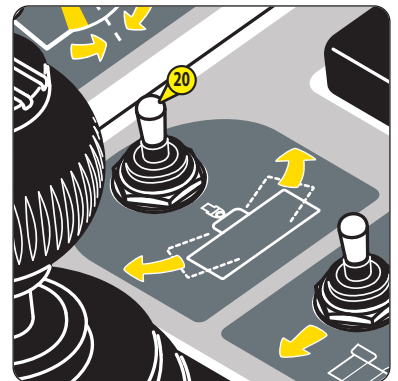
- Press and hold down the foot switch.

TURN BASKET TO THE LEFT

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

TURN BASKET TO THE RIGHT

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



21 - JIB TELESCOPE SWITCH ONLY FOR 280 TJ

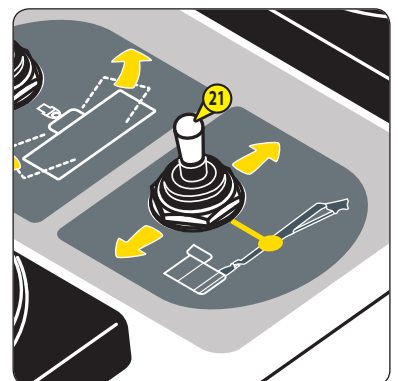
- Press and hold down the foot switch.

EXTEND THE JIB TELESCOPE

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

RETRACT THE JIB TELESCOPE

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



22 - BASKET TILT SWITCH ONLY FOR 280 TJ

NB:

- Up to machine no. 950123: The controls can be activated when the platform is in transport position or in working position, PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- From machine no. 950124: The controls are locked when the platform is in working position, PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Press and hold down the foot switch.

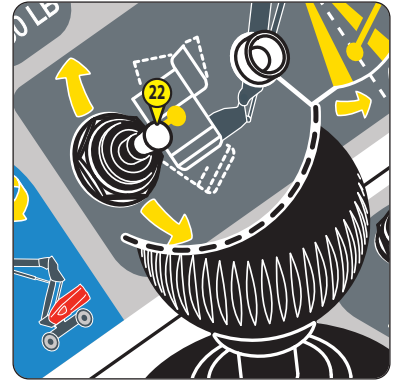
TILT BASKET UPWARDS

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

TILT BASKET DOWN

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

NB: These controls are only active when the JIB ZERO POSITION WARNING LIGHT is off.



23 - WARNING LIGHT AND BUTTON - JIB ZERO POSITION

⚠ IMPORTANT ⚠

 FAULT WARNING LIGHT when the warning light flashes at the same time as the FAULT WARNING LIGHT.

The basket/jib tilt is given by the position of the gauge in relation to the sticker STICKER: JIB ANGLE.

WARNING LIGHT

It is off when the basket/jib tilt is less than 5° (upwards or downwards).

It is on when the basket/jib tilt is greater than 5° and less than 9° (upwards or downwards).

It is necessary to return the basket/jib tilt to zero:

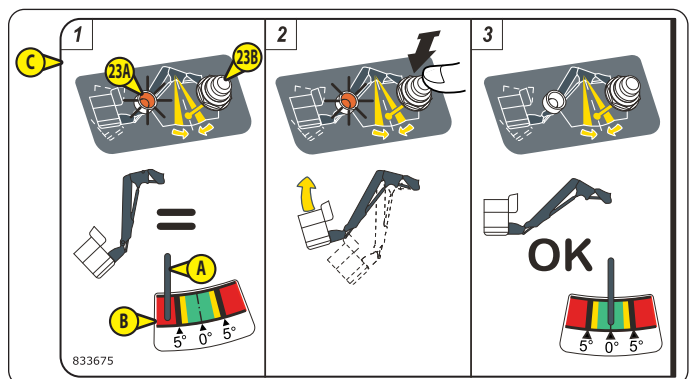
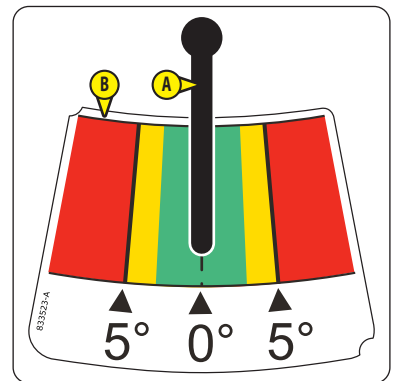
- Press and hold down the foot switch.
- Press and hold down the button .
- Wait until the warning light goes off and then wait till the audible alarm sounds once.
- Release the button.

NB: STICKERS: JIB ZERO/X-Y/TURNTABLE ORIENTATION .

It flashes when the basket/jib tilt is greater than 9° (upwards or downwards):

NB: The audible alarm sounds intermittently and all the controls are locked.

- Alert the person on the ground to activate the emergency controls and get out of the basket.
- If necessary, contact the maintenance personnel to unlock the controls.



24 - JIB AND TURNTABLE CONTROL HANDLE

- Press and hold down the foot switch.

RAISE THE JIB

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

LOWER THE JIB

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

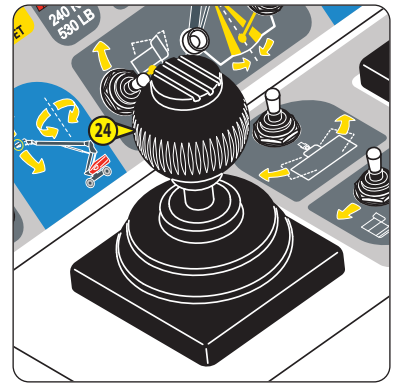
TURN THE TURNTABLE TO THE LEFT

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

TURN THE TURNTABLE TO THE RIGHT

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

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



25 - MAIN ARM AND TELESCOPE CONTROL HANDLE

- Press and hold down the foot switch.

RAISE THE MAIN ARM

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

LOWER THE MAIN ARM

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

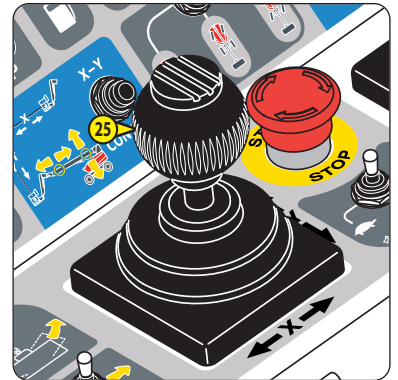
EXTEND THE TELESCOPE

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

RETRACT THE TELESCOPE

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

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



26 - X-Y FUNCTION BUTTON

- Press and hold down the foot switch.
- Press and hold down button .

NB: The audible alarm sounds intermittently when the button is pressed.

X FUNCTION

To keep a constant distance between the basket and a ceiling when extending or retracting the telescope.

- Push and hold down the control handle (25) to the left or right. Release to stop.
- Release the button.

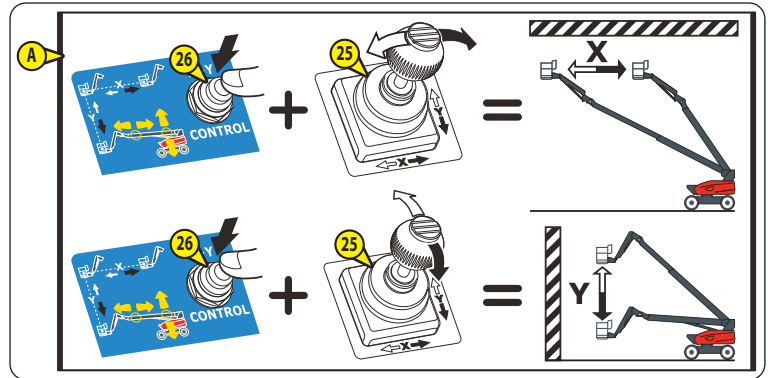
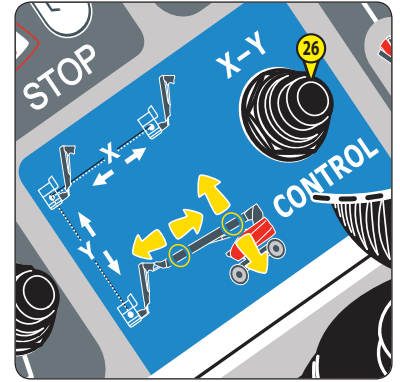
NB: STICKERS: JIB ZERO/X-Y/TURNTABLE ORIENTATION (A).

FUNCTION Y

To keep a constant distance between the basket and a wall when raising or lowering the main arm.

- Push and hold down the control handle (25) upwards or downwards. Release to stop.
- Release the button.

NB: STICKERS: JIB ZERO/X-Y/TURNTABLE ORIENTATION (A).



27 - DRIVING/STEERING CONTROL HANDLE

⚠ IMPORTANT ⚠

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

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

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

DRIVE FORWARDS

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

DRIVE BACKWARDS

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

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

BRAKE

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

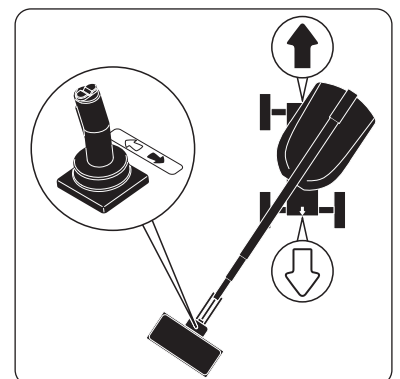
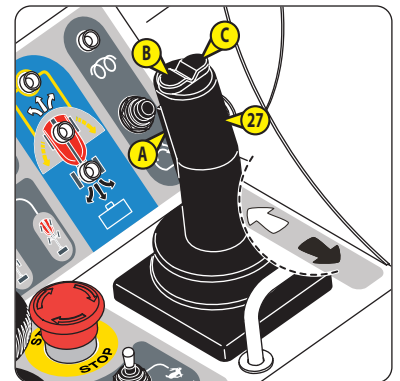
NB: The brakes are also actioned when the trigger and/or the pedal switch are released.

STEER TO THE LEFT

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

STEER TO THE RIGHT

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



28 - DRIVING SPEED SELECTION SWITCH

⚠ IMPORTANT ⚠

Always brake the platform before selecting the driving speed.

3 positions:



TORTOISE speed for driving the platform at slow speed.



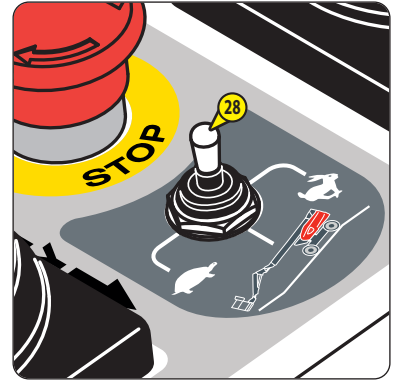
RAMP speed for driving the platform at slow speed with full power.



HARE speed for driving the platform at high speed.

NB: Driving speed selection only works in the transport position, \triangleleft PLATFORM OPERATION: TRANSPORT/WORKING POSITION.

NB: Depending on conditions, restrictions may apply to the speed activated, \triangleleft PLATFORM OPERATION: TRANSPORT/WORKING POSITION.



29 - STEERING MODE SELECTION SWITCH

⚠ IMPORTANT ⚠

Always brake the platform before changing steering mode.

The front and rear wheels must be correctly aligned with the platform axis before changing the steering mode,

\triangleleft WHEEL ALIGNMENT INDICATOR LIGHT. If the wheels are not correctly aligned:

- Select the 4-WHEEL DRIVE steering mode and align the rear wheels.
- Select the 2-WHEEL DRIVE steering mode and align the front wheels.

3 positions:



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

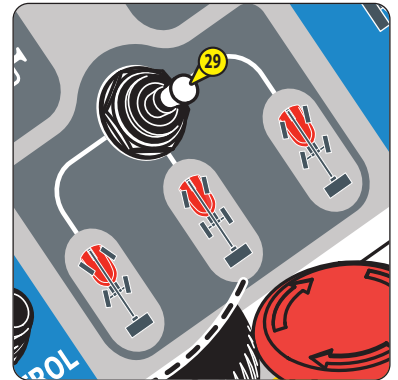


2-WHEEL DRIVE steering mode: Front steering wheels.



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

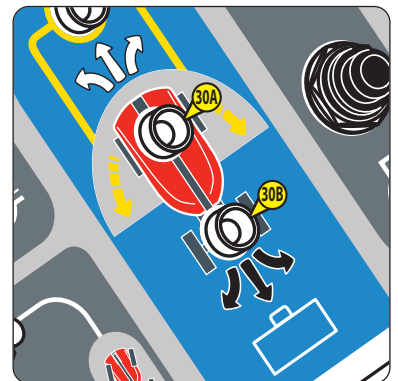
NB: Depending on conditions, restrictions may apply to the speed activated, \triangleleft PLATFORM OPERATION: TRANSPORT/WORKING POSITION.



30 - WHEEL ALIGNMENT INDICATOR LIGHTS

The Indicator light **30A** comes on when the front wheels are correctly aligned with the platform axis.

The indicator light **30B** is on when the rear wheels are correctly aligned with the platform axis.



31 - TURNTABLE ORIENTATION MORE THAN 90° INDICATOR LIGHT

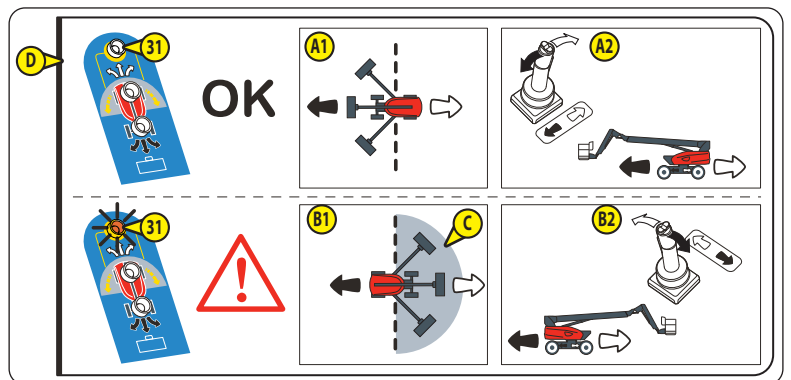
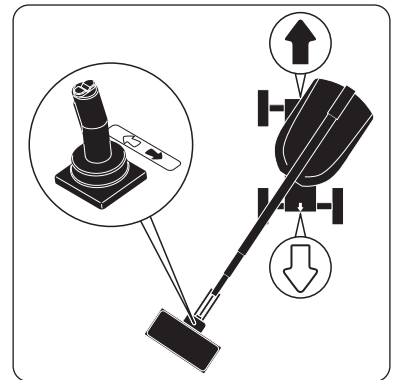
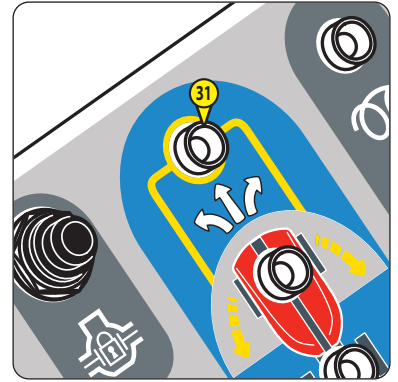
⚠ IMPORTANT ⚠

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

The indicator light is off when the turntable angle is less than 90° (to left or right) in relation to the neutral position. The direction of travel is that indicated in the illustrations **A1** and **A2**.

The indicator light is on when the turntable angle is greater than 90° (to left or right) in relation to the neutral position (grey area **C**). The direction of travel is that indicated in the illustrations **B1** and **B2**.

NB:  STICKERS: JIB ZERO/X-Y/TURNTABLE ORIENTATION **D**.



32 - DIFFERENTIAL LOCKING BUTTON

⚠ IMPORTANT ⚠

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

- Press and hold down the button, then drive the platform (or vice versa) to activate the differential lock.
- Release the button, then brake the platform (or vice versa) to deactivate the differential lock.



33 - TILT/OSCILLATION WARNING LIGHT

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

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

To stop the tilt alarm and unlock the controls:

- Fully retract the telescope.
- Retract the jib telescope completely (only for 280 TJ).
- Fully lower the main arm.
- Move platform to a level surface.

For 260 TJ and from machine no. 950124 for 280 TJ:

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

⚠ IMPORTANT ⚠

If the fault persists, contact your dealer.

- The indicator light flashes (On = 0.4 seconds, Off = 0.2 seconds) and the audible alarm sounds intermittently (On = 0.4 seconds, Off = 0.4 seconds).
- Some controls are locked, PLATFORM OPERATION: LOCKED CONTROLS.

To stop the oscillation alarm and unlock the controls:

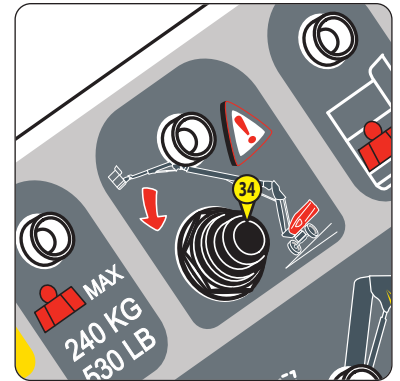
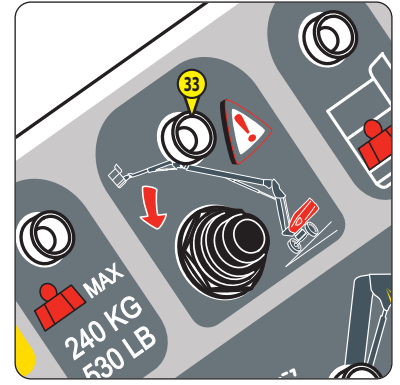
- Fully retract the telescope.
- Retract the jib telescope completely (only for 280 TJ).
- Fully lower the main arm.
- Fully lower the jib.
- Move platform to a level surface.
- Press the key OK **OK** on the ground control panel so that the oscillation alarm is no longer displayed. This action is recorded in the faults history.

34 - USE ON SLOPE BUTTON

⚠ IMPORTANT ⚠

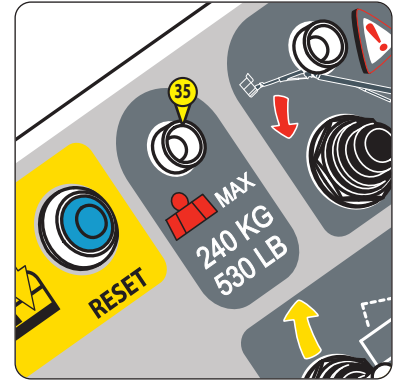
The platform could tip over when this function is used. Use with extreme caution.

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



35 - RESTRICTED CAPACITY WARNING LIGHT ONLY FOR 280 TJ

The warning light status depends on the zone where the basket and the load in the basket are.



	LOAD IN THE BASKET	RESTRICTED CAPACITY WARNING LIGHT	
ZONE A (CAPACITY WITH RESTRICTIONS)	Less than 240 kg (529 lbs.)	Unlit	It is possible to reach ZONE B.
	More than 240 kg (529 lbs.)	Lit	It is not possible to reach ZONE B: The descent of the main arm is locked or the telescopic boom extension is locked.
ZONE B (CAPACITY WITHOUT RESTRICTIONS)	Less than 240 kg (529 lbs.)	Flashes	The load in the basket is limited to 240 kg (529 lbs).
	More than 240 kg (529 lbs.)	Lit	The load in the basket has reached maximum capacity in this zone. The OVERLOAD WARNING LIGHT flashes and the audible alarm sounds continuously.

NB: DIMENSIONS AND DIAGRAM 280 TJ for definition of the zones.

36 - OVERLOAD WARNING LIGHT

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

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

To stop the overload alarm and unlock the controls:

- Remove excessive load.



37 - FAULT WARNING LIGHT

⚠ IMPORTANT ⚠

Refer to the maintenance personnel if there is a fault.

The indicator light flashes when a fault is detected:

- Minor fault: on = 0.4 seconds, off = 0.8 seconds.
- Major fault: on = 0.4 seconds, off = 0.2 seconds.



MINOR FAULTS	AUDIBLE ALARM	
The pedal switch or control selection switch on the ground/ in the basket is blocked	1 beep	Stop using the platform.
The remote control unit activation button is locked		
The driving/steering control handle trigger is locked		
The pressure-sensitive bar SPS, the safety cable SPS or the reset button SPS is blocked (OPTION)		
Other minor faults	Stop	
MAJOR FAULTS	AUDIBLE ALARM	
CAN Communication	Stop	All the controls are locked
Low engine oil pressure	Sounds intermittently	Stop the engine immediately.
High coolant temperature		NB: The engine stops after 90 seconds.
Engine overspeed	Stop	The engine stops after 2 seconds.
Hydrostatic pump	Stop	The driving functions are locked.
Telescope cable slack or cut (CABLE BREAKAGE ALARM)	Sounds intermittently	Some controls are locked. ⚠ PLATFORM OPERATION: LOCKED CONTROLS.
Proportional distributor	Sounds intermittently	Stop using the platform.
Overload sensor inconsistency		
Oscillation alarm (1)		
Engine oil pressure sensor	Sounds intermittently	The simultaneous functions are locked. The movement speeds are reduced.
Arm angle sensor		
Arm angle sensor inconsistency		
Basket/jib tilt angle sensor (2)		
Inconsistency of the basket/jib tilt angle sensors (2)		
Telescope sensor inconsistency	Stop	
Fuel level very low (level 3)	⚠ LOW FUEL LEVEL WARNING LIGHT	

(1): For 260 TJ and from machine no. 950124 for 280 TJ, the TILT/OSCILLATION WARNING LIGHT flashes at the same time.

(2): The JIB ZERO POSITION INDICATOR LIGHT flashes at the same time.

38 - LOW FUEL LEVEL WARNING LIGHT

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



3 alarm levels:

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

*: It is no longer possible to raise the main arm, extend the telescope, raise the jib, tilt the basket/jib upwards/downwards, extend the jib telescope (280 TJ), tilt the basket up or down (280 TJ), turn the turntable and turn the basket for more than 5 seconds at a time.

39 - BACKUP PUMP BUTTON

◀ RESCUE PROCEDURE.



40 - GENERATOR BUTTON (OPTION)

◀ OPTIONS: GENERATOR.

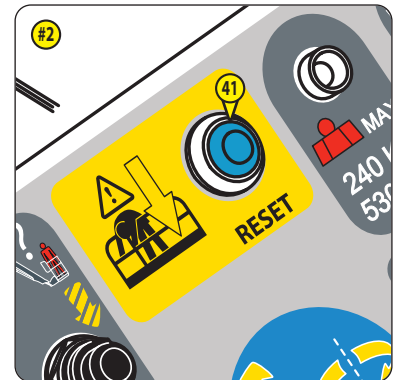
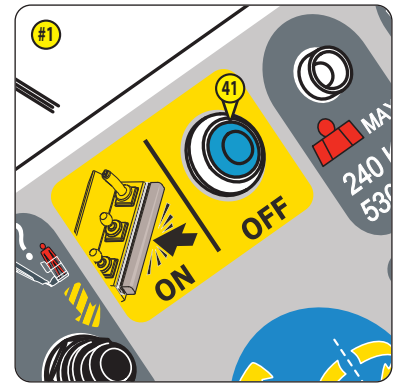


41 - RESET BUTTON SPS (OPTION)

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

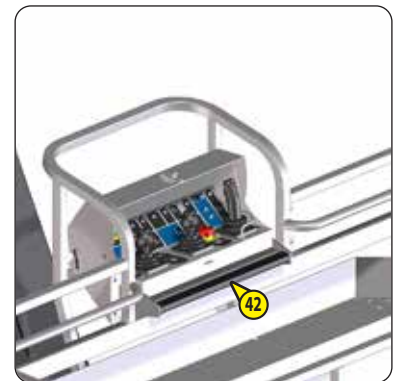
< OPTIONS: SECONDARY PROTECTION SYSTEM SPS - FIRST VERSION "SAFEMANSYSTEM"

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



42 - PRESSURE-SENSITIVE BAR SPS (OPTION)

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



43 - SAFETY CABLE SPS (OPTION)

< OPTIONS: SECONDARY PROTECTION SYSTEM SPS - SECOND VERSION.



44 - AUDIBLE ALARM

The audible alarm sounds:

- Once after the platform has been powered up.
- Intermittently when the basket/jib tilt is greater than 9°, WARNING LIGHT AND BUTTON - JIB ZERO POSITION.
- Intermittently when the X-Y function button is pressed, refer to X-Y FUNCTION BUTTON.
- TILT ALARM: Intermittently when the platform is on a steep slope, TILT/OSCILLATION WARNING LIGHT.
- OSCILLATION ALARM: Intermittently when a locking fault in the oscillating axle is detected, TILT/OSCILLATION WARNING LIGHT.

*: For 260 TJ and from machine no. 950124 for 280 TJ.

- OVERLOAD ALARM: Continuously when the basket load has reached maximum capacity, OVERLOAD WARNING LIGHT.
- When a fault is detected, FAULT WARNING LIGHT.
- When the fuel level is low, LOW FUEL LEVEL WARNING LIGHT.
- Twice when the controls cannot be operated simultaneously, PLATFORM OPERATION: SIMULTANEOUS CONTROLS.



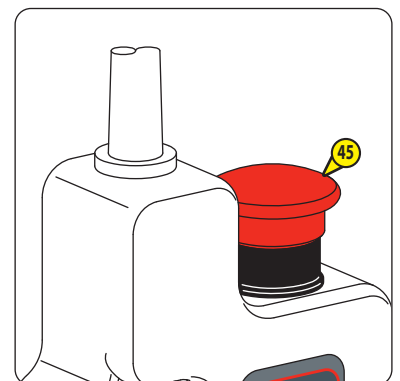
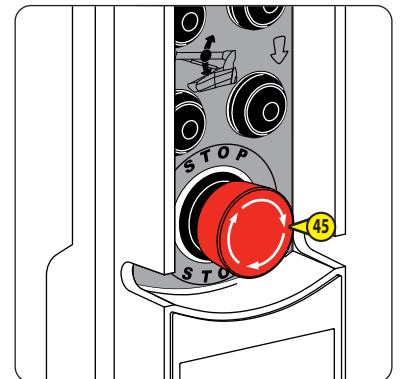
45 - EMERGENCY STOP BUTTON

⚠ IMPORTANT ⚠

*In all cases this control takes priority, except when the movements are executed from the ground control panel.
Movements may stop suddenly if the emergency stop is activated.*

2 positions:

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

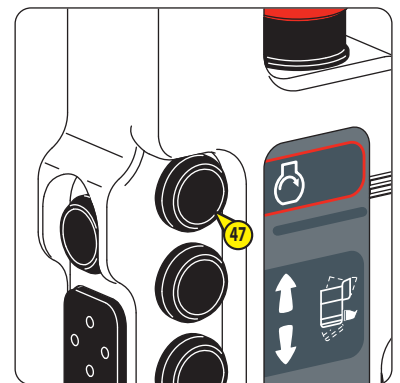
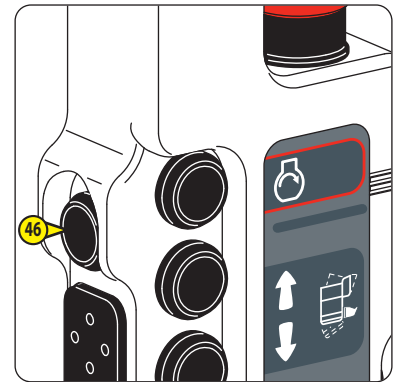
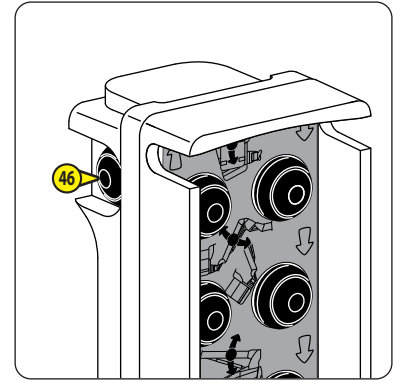


46 - ACTIVATION BUTTON

- Press and hold down the foot switch to activate the controls from the remote control unit.

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

NB: No controls can be activated if the button is released.



47 - ENGINE STARTER BUTTON (depending on version)

⚠ IMPORTANT ⚠

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

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

48 - MAIN ARM CONTROL BUTTONS

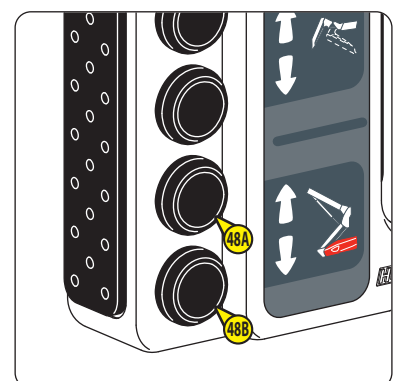
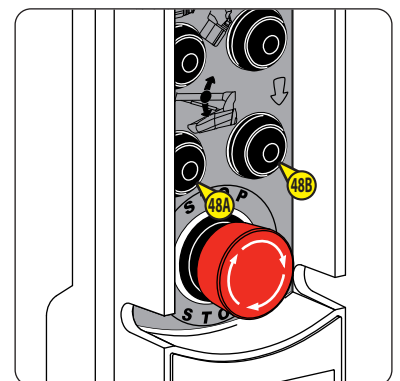
- Press and hold down the activation button.

RAISE THE MAIN ARM

- Press and hold down the button **48A**. Release to stop.

LOWER THE MAIN ARM

- Press and hold down the button **48B**. Release to stop.



49 - BASKET/JIB TILT CONTROL BUTTONS

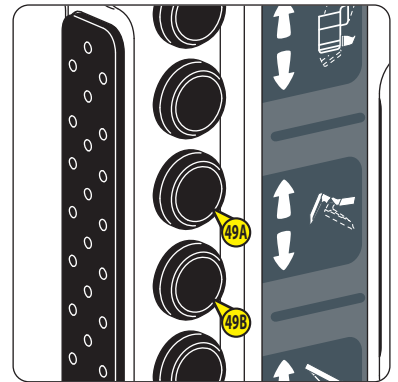
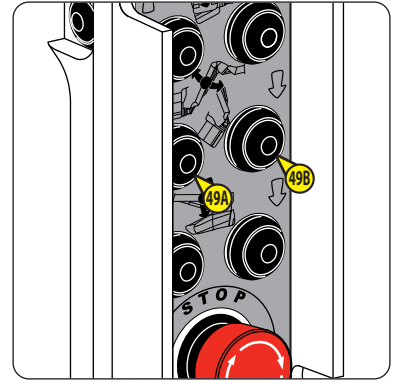
- Press and hold down the activation button.

TILT BASKET/JIB UP

- Press and hold down the button **49A**. Release to stop.

TILT BASKET/JIB DOWN

- Press and hold down the button **49B**. Release to stop.



50 - BASKET TILT BUTTON ONLY FOR 280 TJ

- Press and hold down the activation button.

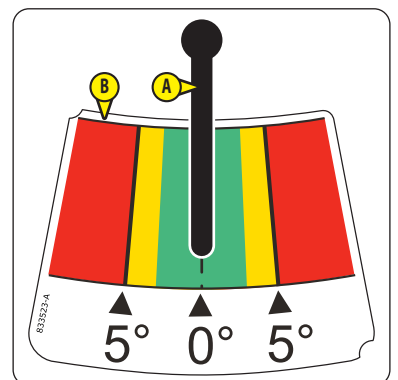
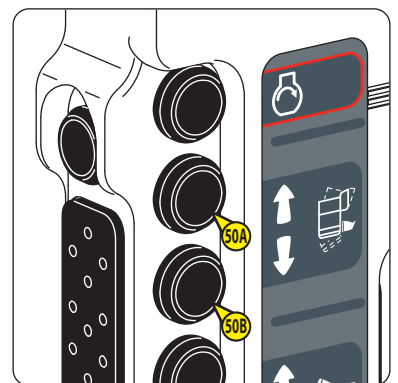
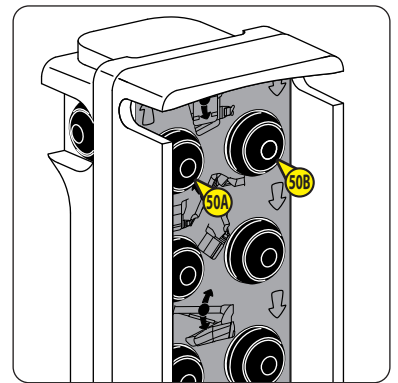
TILT BASKET UPWARDS

- Press and hold down the button **50A**. Release to stop.

TILT BASKET DOWN

- Press and hold down the button **50B**. Release to stop.

NB: These controls are only active when the basket/jib tilt is less than 5° (upwards or downwards), refer to the position of the gauge **A** in relation to the sticker **B** ← STICKER: JIB ANGLE.

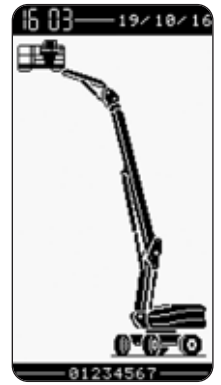


SCREEN DISPLAY - DESCRIPTION OF PAGES

START-UP PAGE

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

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



PREHEAT PAGE

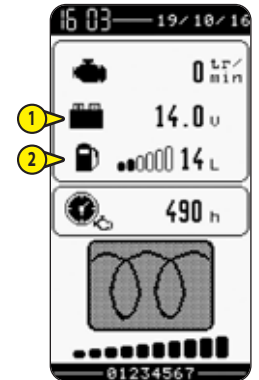
The preheat page is displayed during the engine preheat cycle. The bar graph increases in proportion to the preheat cycle time that has elapsed.

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

A search for faults/alarms is carried out automatically:

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

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

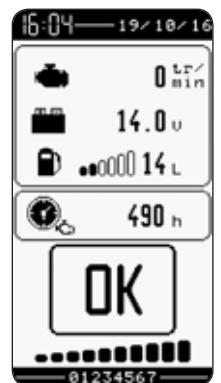


ENGINE START PAGE









The engine can be started when OK is displayed.

To access the menu page, refer to MENU PAGE.

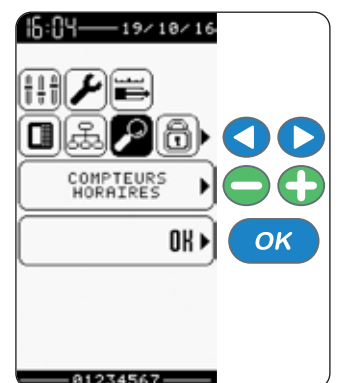
The WORK PAGE is displayed when the engine is started.



MENU PAGE

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

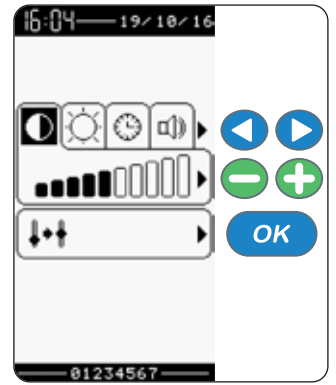
NB:  DEFINITION OF SUB-MENUS.



EDITING A SUB-MENU

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

NB: DEFINITION OF SUB-MENUS.



WORK PAGE

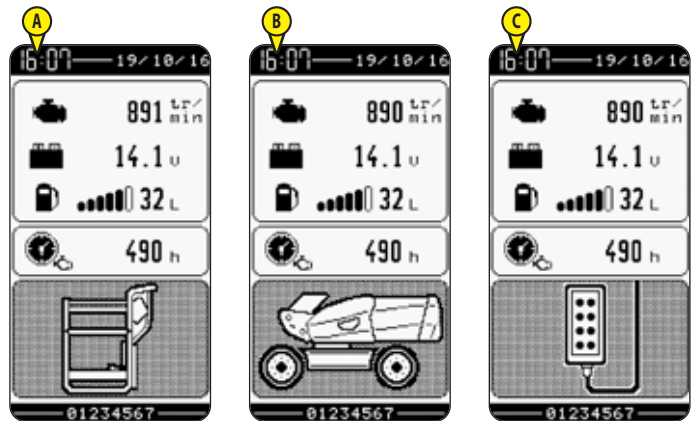
The WORK PAGE is displayed by default, and the basket controls are activated.

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

NB: CONTROL PANEL AND SAFETY DEVICES ON THE GROUND.

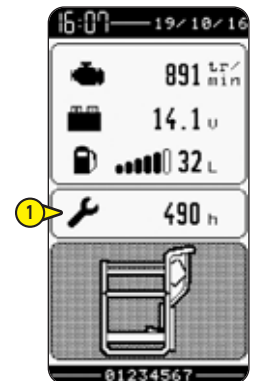
The WORK PAGE is displayed when the remote controls are activated.

NB: REMOTE CONTROL UNIT.



IMPORTANT

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



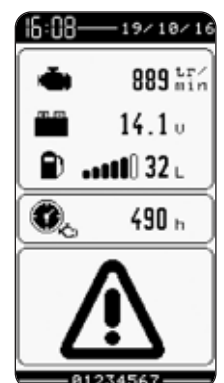
FAULT PAGE

IMPORTANT

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

A FAULT PAGE is displayed when a fault is detected.


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



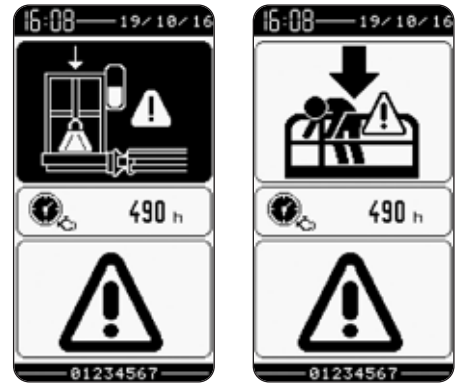
ALARM PAGE

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

- Resolve the problem to return to the WORK PAGE.

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



NB: The illustrations show 2 examples of alarms.



Depending on version:

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


To cancel this alarm page:

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

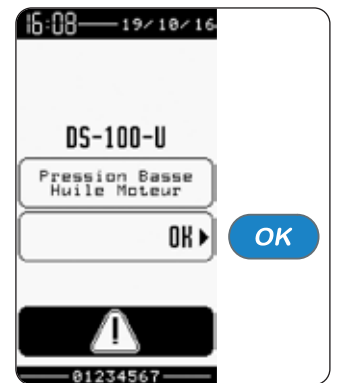


FAULT/ALARM CODE PAGE



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

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

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



DEFINITION OF SUB-MENUS

	Menus/sub-menus	User		Dealers/Rental companies		
		Access code not required		Access code required		
		Display	Adjustment of parameters	Display	Adjustment of parameters	
	"Code" Code		<input type="radio"/>		<input type="radio"/>	
	"Options" Options	"Klaxon mode" Horn mode (1)		<input type="radio"/>	<input type="radio"/>	
		"Always flash. light" Permanent rotating beacon light (2)		<input type="radio"/>	<input type="radio"/>	
		"Generator options" Generator options			<input type="radio"/>	
		"Drive in working mode" Travel when working			<input type="radio"/>	
		"Tilt in working mode" Working tilt (*)			<input type="radio"/>	
		"Auto straight wheel" Wheel realignment			<input type="radio"/>	
		"Safe Man System" (*) or "Sec. Guarding System" Secondary protection system (*)			<input type="radio"/>	
		"Auto retract tel. (SMS)" Automatic telescope retraction (SMS) (3)			<input type="radio"/>	
		"Reduce speed fast + bkwd" Reversing speed + hare reduction			<input type="radio"/>	
		"Easy manager" (*) or "Easy Link remote ctrl" Easy Link remote control (*)			<input type="radio"/>	
		"Box config Easy manager" Box configuration Easy manager (*) or "Easy Link keypad ctrl" Easy Link keypad control (*)			<input type="radio"/>	
		"Language" Language	English			<input type="radio"/>
			Deustch			<input type="radio"/>
	Nederlands				<input type="radio"/>	
	Français				<input type="radio"/>	
	"System parameters" System parameters	"Engine management" Engine management			<input type="radio"/>	
		"Arm management" Arm management			<input type="radio"/>	
		"Arm bumper" Arm stop			<input type="radio"/>	
		"Telescop management" Telescope management			<input type="radio"/>	
		"Telescop bumper" Telescope stop			<input type="radio"/>	
		"Jib management" Jib management			<input type="radio"/>	
		"Turret management" Turntable management			<input type="radio"/>	
		"Bskt levell mgmt" Basket tilt management			<input type="radio"/>	
		"Bskt rotation mgmt" Basket rotation management			<input type="radio"/>	
		"Jib trim" Jib attitude			<input type="radio"/>	
		"X-Y Control" X-Y Control			<input type="radio"/>	
		"Jib tilting mgmt" Jib tilt management			<input type="radio"/>	
		"Jib tel mgmt" Jib telescope management			<input type="radio"/>	
		"Jib tel bumper" Jib telescope stop			<input type="radio"/>	
		"Steering management" Steering management			<input type="radio"/>	
	"Generator" Generator			<input type="radio"/>		
	"Maint periods" Maintenance periods			<input type="radio"/>		
	"USB download" Transfer USB			<input type="radio"/>		



(*): Depending on version.

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

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

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

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




	Menus/sub-menus		User		Dealers/Rental companies	
			Access code not required		Access code required	
			Display	Adjustment of parameters	Display	Adjustment of parameters
	"Maintenance" Maintenance	"Oil change" Oil change (4)	⊙			⊙
		"Oil filter" Oil filter (4)	⊙			⊙
		"Air filter" Air filter (4)	⊙			⊙
		"Fuel filter" Diesel filter (4)	⊙			⊙
		"Hydraulic filter" Hydraulic filter (4)	⊙			⊙
		"Hydrostat filter" Hydrostatic filter (4)	⊙			⊙
		"Lubrication" Lubrication (4)	⊙			⊙
	"Mechanical check" Mechanics inspection (4)	⊙			⊙	
"Maintenance History" Maintenance history				⊙		
	"Speed calibration" Speed calibration	"Arm lifting up" Arm raising				⊙
		"Arm lifting down" Arm lowering				⊙
		"Extend telescop" Telescope extension				⊙
		"Retract telescop" Telescope retraction				⊙
		"Jib lifting up" Jib raising				⊙
		"Jib lifting down" Jib lowering				⊙
		"Right rotating turret" Right turntable rotation				⊙
		"Left rotating turret" Left turntable rotation				⊙
		"Basket right rotation" Right basket rotation				⊙
		"Basket left rotation" Left basket rotation				⊙
		"Forward drive working mode" Work forward travel			⊙	
	"Backward drive working mode" Work reverse travel			⊙		
	"Telescope calibration" Telescope calibration	"Extend setting measurement" Extension measurement adjustment				⊙
		"Retract setting measurement" Retraction measurement adjustment				⊙
	"400 kg Overload calibration" 400 kg overload calibration (5)					⊙
	"240 kg Overload calibration" 240 kg overload calibration (6)					⊙
	"350 kg Overload calibration" 350 kg overload calibration (6)					⊙
	"Arm angle calibration" Arm angle calibration					⊙
	"Jib tilting calibration" Jib tilt calibration					⊙
	"Jib compens calibration" Jib compensation calibration					⊙
	"Generator calibration" Generator calibration					⊙
	"Pressure setting" Pressure settings					⊙
	"Cycle running in" Running-in cycle	"Arm" Arm				⊙
		"Telescope" Telescope				⊙
	"Parameters setting" Settings management	"Mach parameters restoration" Restore machine parameters				⊙
		"Mach parameters saving" Save machine parameters				⊙
		"Raw factory prm restoration" Restore basic factory values				⊙
"Engine accel calibration" Engine acceleration calibration					⊙	
"Joysticks calibration" Joystick calibration					⊙	

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

(5): Only for 260 TJ.

(6): Only for 280 TJ.

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

	Menus/sub-menus		User		Dealers/Rental companies		
			Access code not required		Access code required		
			Display	Adjustment of parameters	Display	Adjustment of parameters	
	"Screen settings" Screen adjustments	"Contrast" Contrast		⊙		⊙	
		"Brightness" Brightness		⊙		⊙	
		"Date and time" Date and time		⊙		⊙	
		"Button tones" Key beeps		⊙		⊙	
	"Codification" Codification		⊙		⊙		
	"Machine selection" Machine selection					⊙	
	"Hour counters" Hour counter	"Rental" Rental	⊙			⊙	
		"Engine" Engine	⊙		⊙		
	"Day hours" Daily hours		⊙		⊙		
	"Input/output visualisation" Input/output display	"General" General		⊙		⊙	
		"Power supply" Power supplies		⊙		⊙	
		INTOR UPC30		⊙		⊙	
		INANA UPC30		⊙		⊙	
		HSCE UPC30		⊙		⊙	
		OUTTOR UPC30		⊙		⊙	
		OUTLED UPC110		⊙		⊙	
		OUTANA UPC30		⊙		⊙	
	"Diagnostic" Diagnostics	"General" General		⊙		⊙	
		"Power supply" Power supplies		⊙		⊙	
		INTOR UPC30		⊙		⊙	
		INANA UPC30		⊙		⊙	
		HSCE UPC30		⊙		⊙	
		OUTTOR UPC30		⊙		⊙	
		OUTLED UPC110		⊙		⊙	
		OUTANA UPC30		⊙		⊙	
		OUTPWM UPC30		⊙		⊙	
		"Lifting arm" Arm raising		⊙		⊙	
		"Lowering arm" Arm lowering		⊙		⊙	
		"Telescope extend" Telescope extension		⊙		⊙	
		"Telescope retract" Telescope retraction		⊙		⊙	
		"Lifting jib" Jib raising		⊙		⊙	
		"Lowering jib" Jib lowering		⊙		⊙	
		"Turret rotation" Turntable rotation		⊙		⊙	
		"Lifting basket tilt" Basket tilt up		⊙		⊙	
		"Lowering basket tilt" Basket tilt down		⊙		⊙	
		"Lifting jib tilt" Jib tilt up		⊙		⊙	
		"Lowering jib tilt" Jib tilt down		⊙		⊙	
	"Basket rotation" Basket rotation		⊙		⊙		
"Extend jib telescope" Jib telescope extension		⊙		⊙			
"Retract jib telescope" Jib telescope retraction		⊙		⊙			
"Leveling" Attitude levelling		⊙		⊙			
"Auto leveling jib tilt" Automatic correction of jib tilt		⊙		⊙			
"Lifting Y control" Y control raising		⊙		⊙			
"Lowering Y control" Y control lowering		⊙		⊙			
"Extend X control" X control extension		⊙		⊙			
"Retract X control" X control retraction		⊙		⊙			
"Driving" Platform travel		⊙		⊙			
"Steering" Platform steering		⊙		⊙			
"Generator activation" Generator activation		⊙		⊙			
"Engine starter" Engine start-up		⊙		⊙			
"Defaults history" Fault history		⊙		⊙			

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

PLATFORM OPERATION

⚠ IMPORTANT ⚠

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

TRANSPORT/WORKING POSITION

TRANSPORT POSITION

The platform in the transport position when:

- The main arm is completely lowered.
- The telescope is completely retracted.
- The jib telescope is completely retracted (only for 280 TJ).

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

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

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

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

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

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

- Place the platform in the transport position.
- Put the turntable and basket in neutral position.
- Raise the jib slightly for better visibility.
- Drive the platform forwards.

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

NB: Depending on conditions, restrictions may apply to the speed activated, refer to the following page.

WORKING POSITION

⚠ IMPORTANT ⚠

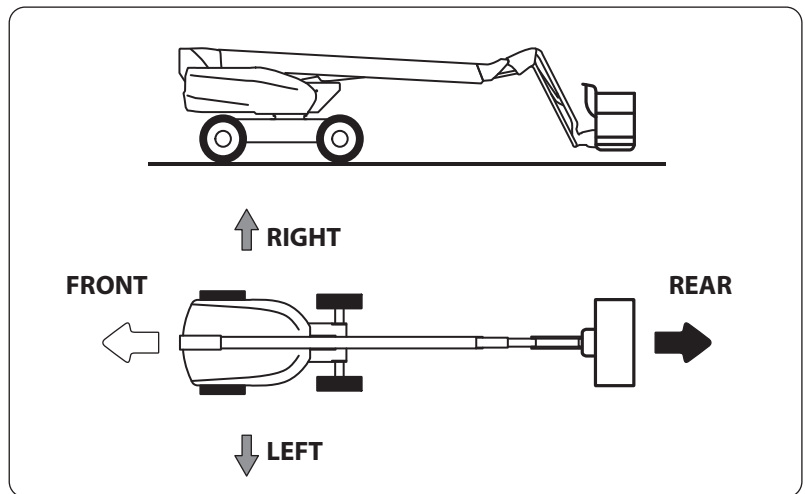
Travelling over rough terrain, on unstable ground, on slopes that are steeper than those authorised, (< SPECIFICATIONS) or in any other conditions likely to cause the platform to tip up or become destabilised, is PROHIBITED.

The platform is in the transport position when:




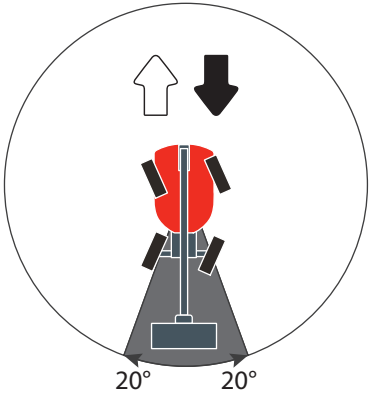



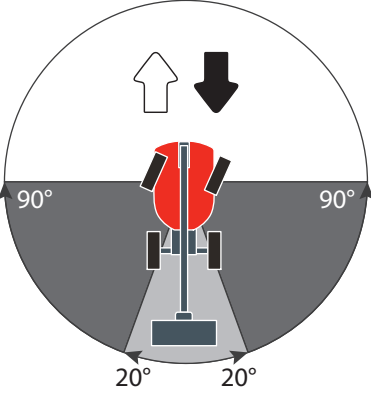







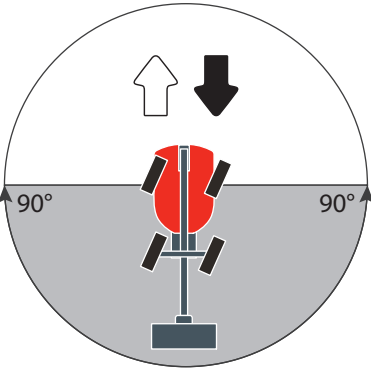








- The main arm is not completely lowered.
- The telescope is not completely retracted.
- The jib telescope is not completely retracted (only for 280 TJ).

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

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



DRIVING SPEED ACTIVATED DEPENDING ON THE STEERING MODE SELECTED, THE POSITION OF THE TURNABLE AND THE DRIVING SPEED SELECTED (TRANSPORT POSITION ONLY)

		DRIVING SPEED SELECTED		
		TORTOISE 	RAMP 	HARE 
STEERING MODE SELECTED	POSITION OF THE TURNABLE	DRIVING SPEED ACTIVATED		
4 STEERING WHEELS 	< 20°	TORTOISE 	RAMP 	RAMP (1) 
	> 20° < 90°	SLOW	SLOW	SLOW (1)
	> 90°	SLOW (1)	SLOW (1)	SLOW (1)
2 STEERING WHEELS 	< 20°	TORTOISE 	RAMP 	HARE (1)  RAMP (1) 
	> 20° < 90°	TORTOISE 	RAMP (1) 	RAMP (1) 
	> 90°	SLOW (1)	SLOW (1)	SLOW (1)
CRAB 	< 20°	TORTOISE 	RAMP 	HARE (1)  RAMP (1) 
	> 20° < 90°	TORTOISE 	RAMP 	HARE (1)  RAMP (1) 
	> 90°	SLOW (1)	SLOW (1)	SLOW (1)


(1): Driving and turntable rotation cannot be actioned simultaneously.
 NB: SLOW speed is activated automatically and cannot be selected manually.

OPERATION FROM THE GROUND LEVEL CONTROL PANEL

⚠ IMPORTANT ⚠

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

SWITCH THE PLATFORM ON

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

Result:


- The interface screen lights up, ▶ **SCREEN DISPLAY: DESCRIPTION OF PAGES**.

NB: SECONDARY PROTECTION SYSTEM option SPS - FIRST VERSION "SAFEMANSYSTEM", ▶ **OPTIONS**.

NB: SECONDARY PROTECTION SYSTEM option SPS - SECOND VERSION, ▶ **OPTIONS**.

NB: The horn sounds twice and one specific alarm page is displayed when the platform is turned on without starting the engine in the next 10 seconds, ▶ **SCREEN DISPLAY - DESCRIPTION OF PAGES: ALARM PAGES**.

TURN THE PLATFORM OFF

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

START THE ENGINE

- Switch on the platform.
- Wait for the preheat cycle to finish, ▶ **SCREEN DISPLAY - DESCRIPTION OF PAGES**.
- Start the engine, ▶ **ENGINE STARTER BUTTON** and ▶ **ENGINE STARTING MODE BUTTON** if the outside temperature is lower than -10 °C.
- If the engine does not start:


- Turn the ignition switch to position , turn it to position .
- Wait for the preheat cycle to finish and try to start the engine again.

NB: Consult the maintenance personnel if the engine fails to start after several attempts.

SWITCH OFF THE ENGINE

⚠ IMPORTANT ⚠


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

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

POSITION THE BASKET

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

NB: It is essential that the turntable is locked when the platform is being transported or lifted, ▶ **TRANSPORTING THE PLATFORM** and ▶ **3 - MAINTENANCE: OCCASIONAL OPERATION: LIFTING THE PLATFORM**.

- Push and hold the ground/basket control selection switch to the right .
- Press the appropriate control keys to activate the platform controls.
- Release the keys or the switch to stop the activated controls.

NB: Use key combinations to operate the simultaneous controls, ▶ **SIMULTANEOUS CONTROLS**.

EMERGENCY STOP

- Press the emergency stop button (OFF position).

OPERATION FROM THE BASKET CONTROL PANEL

⚠ IMPORTANT ⚠

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

Make sure that the basket is level before putting the platform in transport position, ⚠ **PLATFORM OPERATION: TRANSPORT/WORKING POSITION.**

KEY LOCK OPTION FOR TURNTABLE COVERS: to guarantee access to the emergency controls, the right turntable cover must be unlocked before operating the platform from the basket.

TURN THE PLATFORM ON/OFF

⚠ OPERATION FROM THE GROUND LEVEL CONTROL PANEL.

START THE ENGINE

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

NB: ⚠ **OPERATING FROM THE GROUND CONTROL PANEL** if the outside temperature is lower than -10 °C.

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

NB: Consult the maintenance personnel if the engine fails to start after several attempts.

SWITCH OFF THE ENGINE

⚠ IMPORTANT ⚠

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

- Press the emergency stop button (OFF position).

DRIVE AND STEER

⚠ IMPORTANT ⚠

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

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

NB: It is essential that the turntable is locked when the platform is being transported or lifted, ⚠ **TRANSPORTING THE PLATFORM** and ⚠ **3 - MAINTENANCE: OCCASIONAL OPERATION: LIFTING THE PLATFORM.**

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

POSITION THE BASKET

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

NB: It is essential that the turntable is locked when the platform is being transported or lifted, ⚠ **TRANSPORTING THE PLATFORM** and ⚠ **3 - MAINTENANCE: OCCASIONAL OPERATION: LIFTING THE PLATFORM.**

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

NB: Use key combinations to operate the simultaneous controls, ⚠ **SIMULTANEOUS CONTROLS.**

EMERGENCY STOP

- Press the emergency stop button (OFF position).

OPERATION FROM THE REMOTE CONTROL UNIT

⚠ IMPORTANT ⚠

The turntable must be locked when using the remote control unit, TRANSPORTING THE PLATFORM and 3 - MAINTENANCE: OCCASIONAL OPERATION: LIFTING THE PLATFORM

* REMOTE CONTROL UNIT for detailed information about the remote controls.*

The remote control unit is only activated when:

- The turntable angle is less than 90° (to left or right) in relation to the neutral position.
- The angle of the main arm is 15° maximum in relation to the completely lowered position.
- The telescope is completely retracted.
- The jib telescope is completely retracted (280 TJ).

TURN THE PLATFORM ON/OFF

 OPERATION FROM THE GROUND LEVEL CONTROL PANEL.

START THE ENGINE (DEPENDING ON VERSION)

- Switch on the platform.
- Wait for the preheat cycle to finish, SCREEN DISPLAY - DESCRIPTION OF PAGES.
- Start the engine, ENGINE STARTER BUTTON.

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

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

NB: Consult the maintenance personnel if the engine fails to start after several attempts.

SWITCH OFF THE ENGINE

- Press the emergency stop button (OFF position).

POSITION THE BASKET

- Press and hold down the activation button.
- Press and hold down the appropriate control buttons to activate the platform controls.
- Release the control buttons or the activation button to stop controls that have been activated.

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

EMERGENCY STOP

- Press the emergency stop button (OFF position).

SIMULTANEOUS CONTROLS

NB: The audible warning sounds twice when the controls cannot be operated simultaneously.

GROUND CONTROL PANEL

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

CONTROL PANEL IN THE BASKET

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

REMOTE CONTROL UNIT

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

CONTROLS LOCKED

Some controls are locked (refer to the tables on the next page):

- When the basket load has reached maximum capacity (OVERLOAD ALARM).
- When the platform is on a steep slope (TILT/OSCILLATION ALARM).
- When a locking fault in the oscillating axle is detected* (TILT/OSCILLATION ALARM).

*: For 260 TJ and from machine no. 950124 for 280 TJ.

- When a telescope cable slack or cut (CABLE BREAKAGE ALARM).

TRANSPORT POSITION

CONTROLS COMMON TO GROUND LEVEL AND BASKET	OVERLOAD ALARM	TILT/OSCILLATION ALARM	CABLE BREAKAGE ALARM
RAISE THE MAIN ARM	LOCKED	LOCKED	
EXTEND THE TELESCOPE	LOCKED	LOCKED	LOCKED
TURN THE TURNTABLE (LEFT/RIGHT)	LOCKED		
RAISE/LOWER THE JIB	LOCKED		
EXTEND THE JIB TELESCOPE - ONLY FOR 280 TJ	LOCKED	LOCKED	LOCKED
TILT BASKET/JIB UP	LOCKED	LOCKED	
TILT BASKET/JIB DOWN	LOCKED	LOCKED	

SPECIFIC CONTROLS IN THE BASKET	OVERLOAD ALARM	TILT/OSCILLATION ALARM	CABLE BREAKAGE ALARM
TILT THE BASKET UPWARDS/DOWNWARDS - ONLY FOR 280 TJ	LOCKED	LOCKED	
TURN THE BASKET (LEFT/RIGHT)	LOCKED		
DRIVE (FORWARD/BACKWARD)	LOCKED		
STEER (LEFT/RIGHT)	LOCKED		

WORKING POSITION

CONTROLS COMMON TO GROUND LEVEL AND BASKET	OVERLOAD ALARM	TILT/OSCILLATION ALARM	CABLE BREAKAGE ALARM
RAISE THE MAIN ARM	TELESCOPE RETRACTED	LOCKED	LOCKED
	TELESCOPE EXTENDED	LOCKED	LOCKED
LOWER THE MAIN ARM	TELESCOPE RETRACTED	LOCKED	
	TELESCOPE EXTENDED	LOCKED	LOCKED
EXTEND THE TELESCOPE	LOCKED	LOCKED	LOCKED
RETRACT THE TELESCOPE	LOCKED		
TURN THE TURNTABLE (LEFT/RIGHT)	TELESCOPE RETRACTED	LOCKED	
	TELESCOPE EXTENDED	LOCKED	LOCKED
RAISE/LOWER THE JIB - ONLY FOR 260 TJ	LOCKED		
RAISE/LOWER THE JIB - ONLY FOR 280 TJ	JIB TELESCOPE RETRACTED	LOCKED	
	JIB TELESCOPE EXTENDED	LOCKED	LOCKED
EXTEND THE JIB TELESCOPE - ONLY FOR 280 TJ	LOCKED	LOCKED	
RETRACT THE JIB TELESCOPE - ONLY FOR 280 TJ	LOCKED		
TILT BASKET/JIB UP	LOCKED	LOCKED	
TILT BASKET/JIB DOWN	LOCKED	LOCKED	

SPECIFIC CONTROLS IN THE BASKET	OVERLOAD ALARM	TILT/OSCILLATION ALARM	CABLE BREAKAGE ALARM
UP TO MACHINE NO. 950123 (*): TILT THE BASKET UPWARDS/DOWNWARDS - ONLY FOR 280 TJ	LOCKED		
TURN THE BASKET (LEFT/RIGHT)	LOCKED		
DRIVE (FORWARD/BACKWARD)	LOCKED	LOCKED	
STEER (LEFT/RIGHT)	LOCKED	LOCKED	

(*): From machine no. 950124: The controls are locked in working position regardless of the conditions.

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, SPECIFICATIONS and STICKERS.
It is essential that the turntable is locked when the platform is being transported, SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
Covers must be closed and locked (if applicable) while the platform is being transported.

LOADING/UNLOADING THE PLATFORM

⚠ IMPORTANT ⚠

The flatbed must be parked on a level surface. The wheels must be blocked with shims ①.

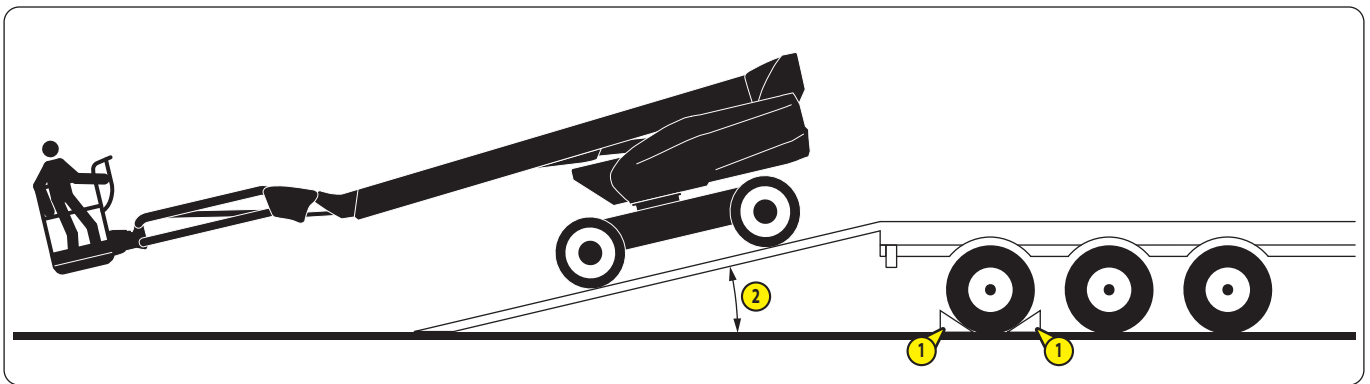
The loading ramps must be attached to the flatbed so as to obtain as small an angle ② as possible.

Turntable rotation is prohibited while the platform is being loaded onto the flatbed truck and during unloading.


The turntable must be locked before loading the platform onto a flatbed truck or before unloading it, SAFETY COMPONENTS: TURNTABLE LOCKING PIN.

The platform must be loaded or unloaded using a winch if the loading ramps are slippery, 3 - MAINTENANCE: OCCASIONAL OPERATION: PLATFORM WINCHING.

The platform must be loaded and unloaded using a crane if the angle of the loading ramps exceeds the maximum slope accessible, 3 - MAINTENANCE: OCCASIONAL OPERATION: LIFTING THE PLATFORM.



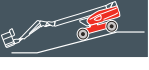
LOADING THE PLATFORM ONTO THE FLATBED

- From the ground control panel:
 - Switch on the engine.
 - Put the platform in transport position; put the turntable in neutral position, PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
 - Fully lower the jib.
- Lock the turntable, SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
- Enter the basket.
- Put the basket in the neutral position, PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Raise the jib slightly to prevent the basket hitting the ground or the loading ramps.
- Select RAMP speed .
- Drive the platform forwards slowly with the basket at the bottom of the ramp, see illustration above.

UNLOADING THE PLATFORM FROM THE FLATBED

NB: The platform is in TRANSPORT position , CONFIGURING THE PLATFORM FOR TRANSPORT on the next page.

- Ensure that the turntable is unlocked, SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
- From the ground control panel or from the remote control unit (depending on version):
 - Switch on the engine.
- Enter the basket.
- Raise the jib slightly to prevent the basket hitting the ground or the loading ramps.

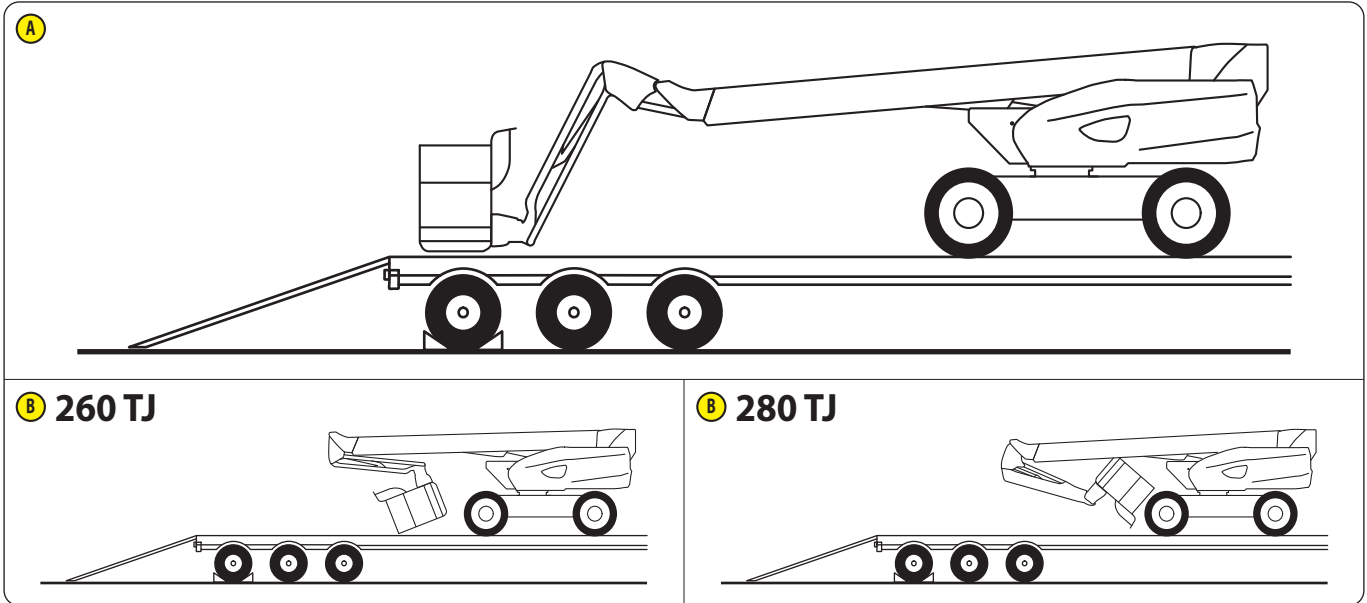
- Select RAMP speed .

- Drive the platform backwards slowly with the basket at the bottom of the ramp, see illustration on previous page.

CONFIGURING THE PLATFORM FOR TRANSPORT

⚠ IMPORTANT ⚠

Turntable rotation is prohibited once on the flatbed.
 It is essential that the turntable remains locked when the platform is on the flatbed, ⚠ SAFETY COMPONENTS: TURNABLE LOCKING PIN.
 The platform must be transported in FOLDED POSITION ⓑ.



260 TJ - FOLDED POSITION ⓑ:

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

- Fully lower the jib.
- Get out of the basket.
- From the ground control panel or from the remote control unit:
 - ① Raise the main arm (15° maximum).
 - ② Tilt the basket/jib downwards to fold the basket under the main arm. Ensure that the basket cannot hit the flatbed.
 - ③ Lower the main arm so that the basket is a distance of about 10 cm from the flatbed.
- Stop the engine. Switch off the power to the platform. Remove the key.

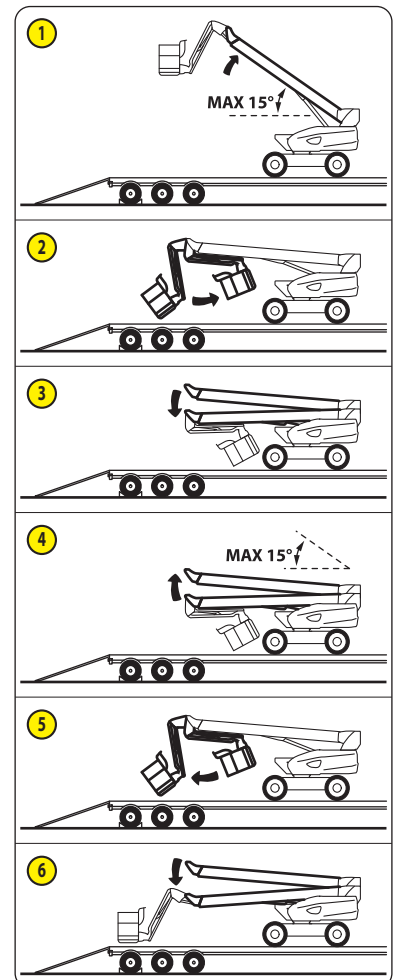
NB: ⚠ STICKERS: FOLDING/UNFOLDING THE PLATFORM.

260 TJ - MOVE FROM THE FOLDED POSITION ⓑ TO THE TRANSPORT POSITION ⓐ:

NB: The turntable is locked.

- From the ground control panel or from the remote control unit (depending on version):
 - Switch on the engine.
 - ④ Raise the main arm (15° maximum).
 - ⑤ Tilt the basket/jib upwards until the basket floor is horizontal. Ensure that the basket cannot hit the flatbed.
 - ⑥ Fully lower the main arm.
- Stop the engine. Switch off the power to the platform.

NB: ⚠ STICKERS: FOLDING/UNFOLDING THE PLATFORM.



280 TJ - FOLDED POSITION **B**:


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

- Fully lower the jib.
- Get out of the basket.
- From the remote control unit:
 - **1** Raise the main arm (15° maximum).
 - **2** Tilt the basket fully downwards. Ensure that the basket cannot hit the flatbed.
 - **3** Tilt the basket/jib downwards to fold the basket under the main arm. Ensure that the basket cannot hit the flatbed.
 - **4** Lower the main arm so that the basket is a distance of about 10 cm from the flatbed.
- Stop the engine. Switch off the power to the platform. Remove the key.

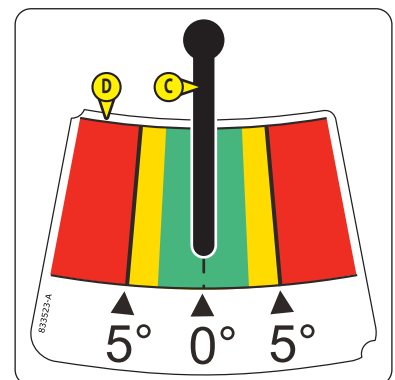
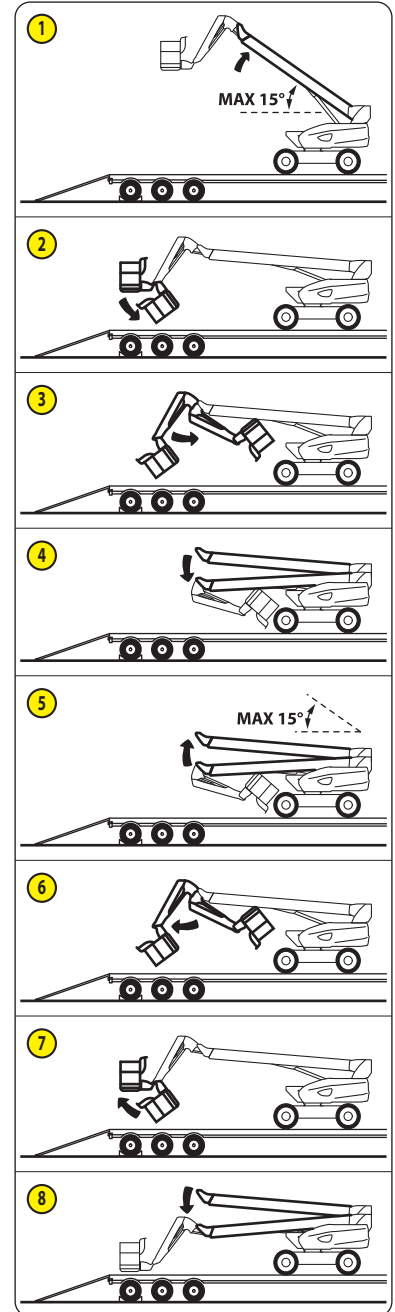
NB:  STICKERS: FOLDING/UNFOLDING THE PLATFORM

280 TJ - MOVE FROM THE FOLDED POSITION **B** TO THE TRANSPORT POSITION **A**:

NB: The turntable is locked.

- From the ground control panel or from the remote control unit (depending on version):
 - Switch on the engine.
 - **5** Raise the main arm (15° maximum).
 - **6** Tilt the basket/jib upwards until the gauge **C** reaches mark 0° on the sticker **D**  STICKER: JIB ANGLE. Ensure that the basket cannot hit the flatbed.
 - **7** Tilt the basket/jib upwards until the basket floor is horizontal. Ensure that the basket cannot hit the flatbed.
 - **8** Fully lower the main arm.
- Stop the engine. Switch off the power to the platform.

NB:  STICKERS: FOLDING/UNFOLDING THE PLATFORM.



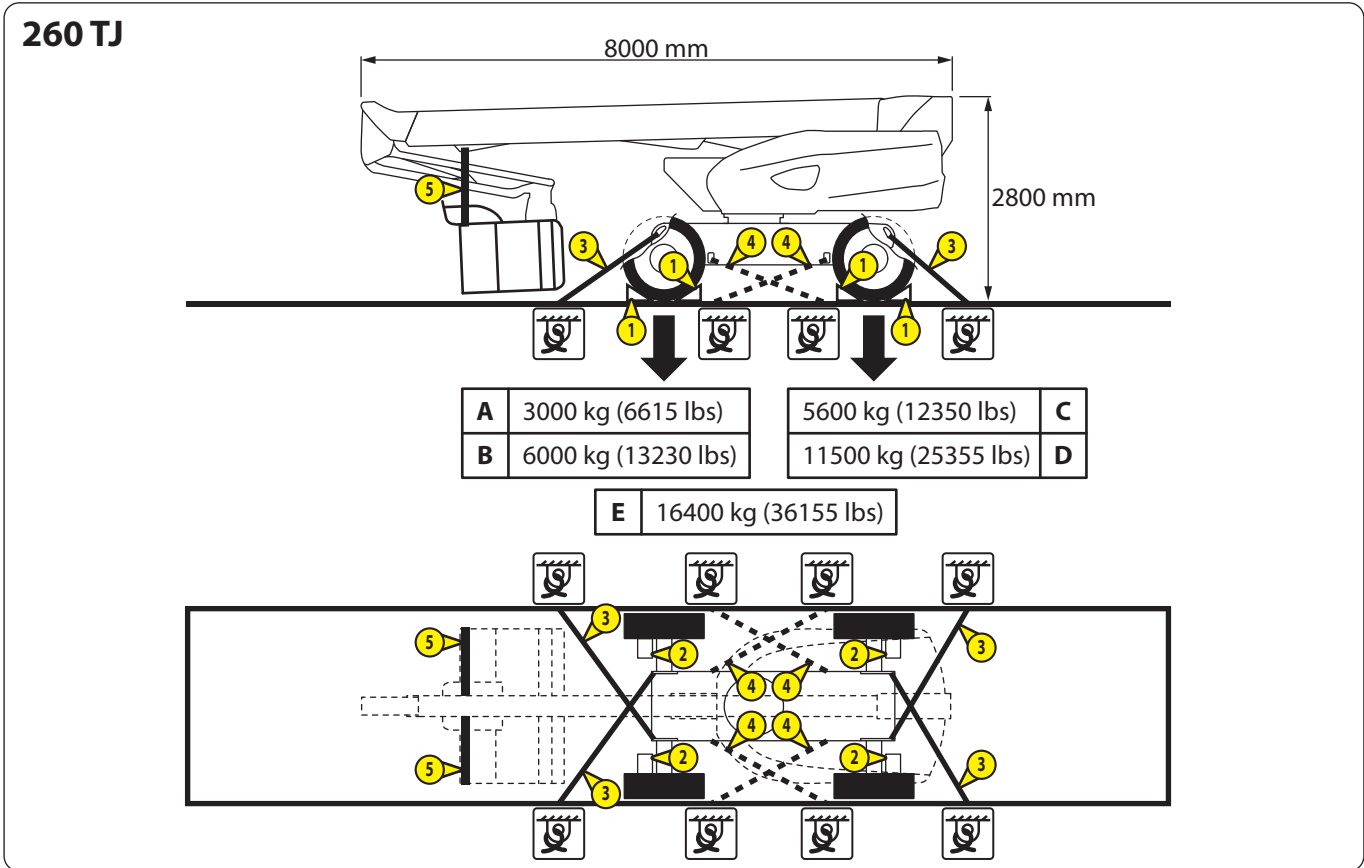
⚠ IMPORTANT ⚠

Turntable rotation is prohibited once on the flatbed.

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

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


Ensure that the platform is correctly secured to the flatbed.



KEY:

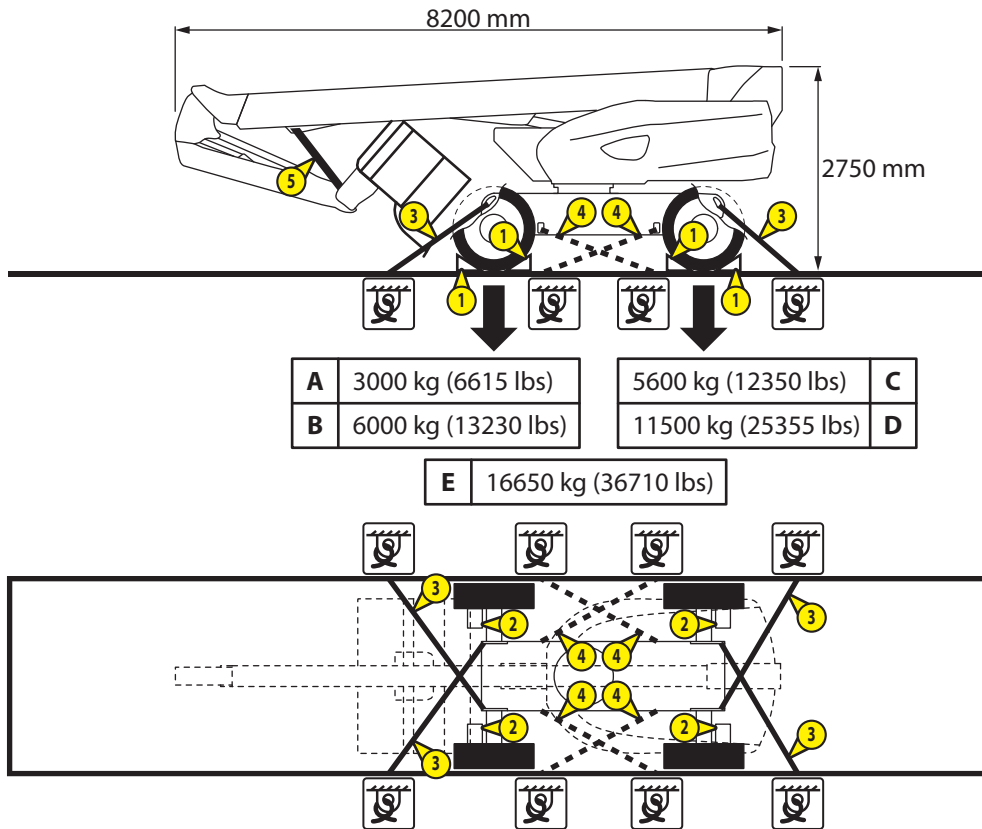
A	C	"LOAD ON 1 WHEEL" LOAD ON 1 WHEEL
B	D	"LOAD ON 2 WHEELS" LOAD ON 2 WHEELS
E		"TOTAL MASS" TOTAL WEIGHT

NB: The platform is powered down. The platform is in FOLDED position **B**, ⚠ CONFIGURING THE PLATFORM FOR TRANSPORT. The turntable is locked.

- Ensure that the platform is switched off: The key switch must be in the  position, the key must be removed and the battery cut-off (option) must be in the OFF position.
- Ensure that the turntable is unlocked, ⚠ SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
- Fix chocks **1** to the flatbed truck at the front and rear of each of the platform's wheels.
- Fix chocks **2** to the flatbed on the inner side of each of the platform's wheels.
- Secure the platform to the flatbed truck with straps or chains **3** and/or **4** (according to country regulations) attached to the platform's anchorage points, ⚠ STICKERS: ANCHORAGE POINT.
- Attach the basket with 2 straps **5** (supplied with the platform). Do not overtighten to avoid damage.

NB: ⚠ 2 - DESCRIPTION: STICKERS: ANCHORAGE.

280 TJ



KEY:

A	C	"LOAD ON 1 WHEEL" LOAD ON 1 WHEEL
B	D	"LOAD ON 2 WHEELS" LOAD ON 2 WHEELS
E		"TOTAL MASS" TOTAL WEIGHT

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

- Ensure that the platform is switched off: The key switch must be in the position, the key must be removed and the battery cut-off (option) must be in the OFF position.
- Ensure that the turntable is unlocked, SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
- Fix chocks (1) to the flatbed truck at the front and rear of each of the platform's wheels.
- Fix chocks (2) to the flatbed on the inner side of each of the platform's wheels.
- Secure the platform to the flatbed truck with straps or chains (3) and/or (4) (according to country regulations) attached to the platform's anchorage points, STICKERS: ANCHORAGE POINT.
- Attach the jib with 1 strap (5) (supplied with the platform). Do not overtighten to avoid damage.

NB: 2 - DESCRIPTION: STICKERS: ANCHORAGE.

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

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

If the engine has been started:


- Push and hold the switch ① to the right .
- Lower the basket using the appropriate control keys.
- Release the keys or the switch to stop the activated controls.

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

- Switch on the engine.
- Push and hold the switch ① to the right .
- Lower the basket using the appropriate control keys.
- Release the keys or the switch to stop the activated controls.

For 260 TJ and from machine no. 950124 for 280 TJ:

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

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

IF THERE IS A BREAKDOWN - EMERGENCY CONTROLS FROM THE BASKET

⚠ IMPORTANT ⚠

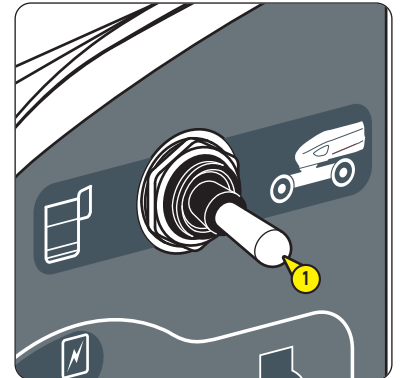
The backup pump should be activated for a maximum of 4 minutes, then wait 10 minutes before reactivating the pump for a new 4 minute cycle.

Do not try to use the controls simultaneously.

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

- Press and hold down the backup pump button ① to activate the backup pump.
- Use the appropriate switch or the appropriate control handle to activate a platform control.
- Release the switch or the control handle to stop the control that has been activated.
- Release the backup pump button.

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



IF THERE IS AN ACCIDENT OR BREAKDOWN - EMERGENCY CONTROLS

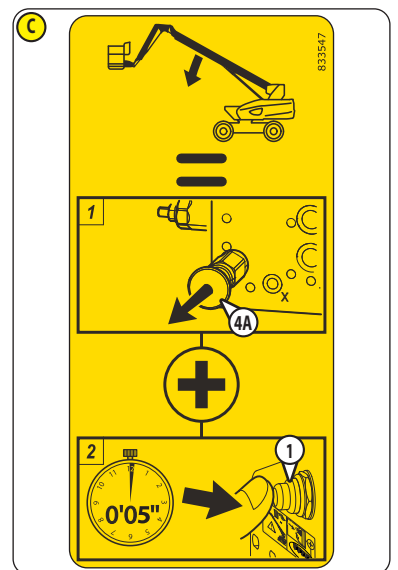
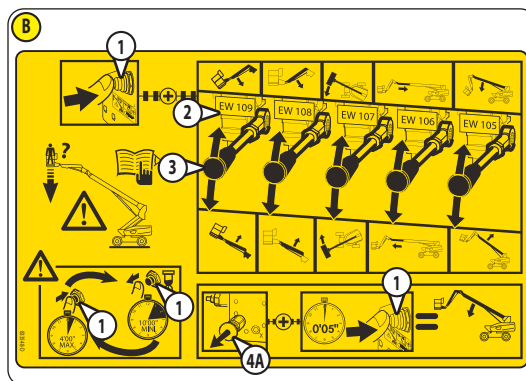
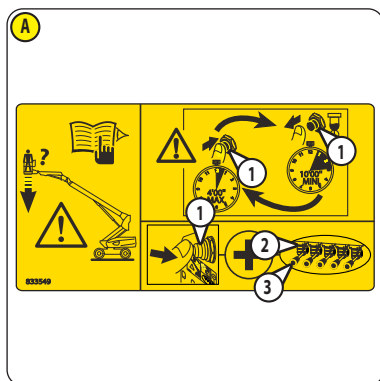
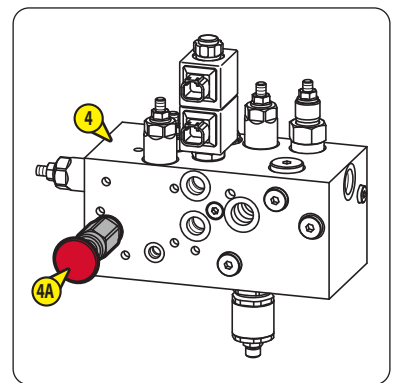
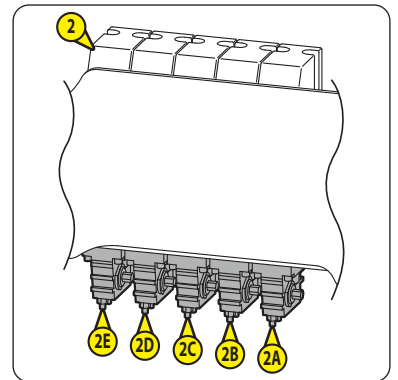
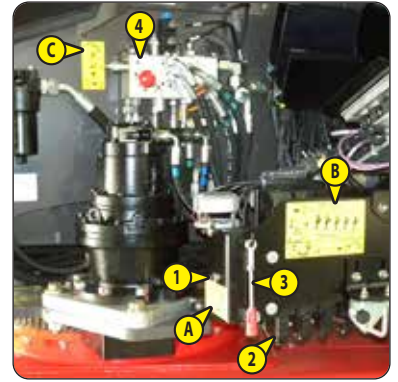
⚠ IMPORTANT ⚠

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

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

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

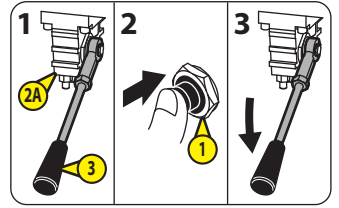
NB: Refer to the stickers BACKUP PUMP **A** and EMERGENCY CONTROL PROCEDURE **C** and **B**, STICKERS.



EMERGENCY CONTROLS FROM THE PROPORTIONAL DISTRIBUTOR ²

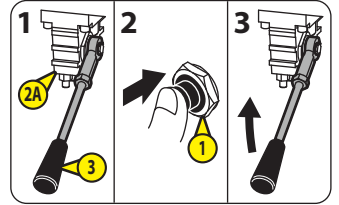
A- RAISE THE MAIN ARM

- 1 - Place the lever ³ on the manual control ^{2A}.
- 2 - Press the backup pump button ¹ and hold it down.
- 3 - Push the lever down to raise the main arm, stop when the desired position is reached. Release the backup pump button. Remove the lever.



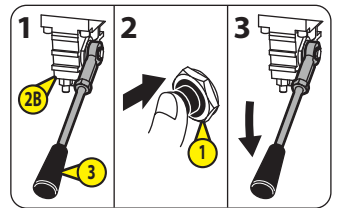
B- LOWER THE MAIN ARM

- 1 - Place the lever ³ on the manual control ^{2A}.
- 2 - Press the backup pump button ¹ and hold it down.
- 3 - Push the lever up to lower the main arm, stop when the desired position is reached. Release the backup pump button. Remove the lever.



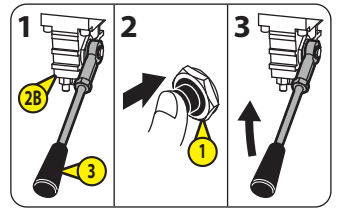
C - EXTEND THE TELESCOPE

- 1 - Place the lever ³ on the manual control ^{2B}.
- 2 - Press the backup pump button ¹ and hold it down.
- 3 - Push the lever down to extend the telescope, stop when the desired position is reached. Release the backup pump button. Remove the lever.



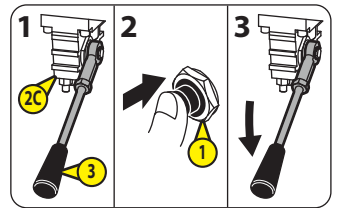
D - RETRACT THE TELESCOPE

- 1 - Place the lever ³ on the manual control ^{2B}.
- 2 - Press the backup pump button ¹ and hold it down.
- 3 - Push the lever up to retract the telescope, stop when the desired position is reached. Release the backup pump button. Remove the lever.



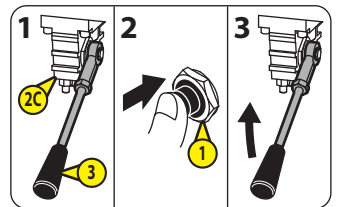
E- TURN THE TURNTABLE TO THE LEFT

- 1 - Place the lever ³ on the manual control ^{2C}.
- 2 - Press the backup pump button ¹ and hold it down.
- 3 - Push the lever down to turn the turntable to the left, stop when the desired position is reached. Release the backup pump button. Remove the lever.



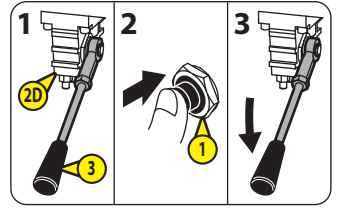
F- TURN THE TURNTABLE TO THE RIGHT

- 1 - Place the lever ³ on the manual control ^{2C}.
- 2 - Press the backup pump button ¹ and hold it down.
- 3 - Push the lever up to turn the turntable to the right, stop when the desired position is reached. Release the backup pump button. Remove the lever.



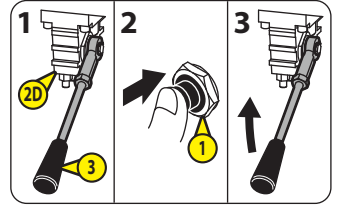
G- RAISE THE JIB

- 1 - Place the lever **3** on the manual control **2D**.
- 2 - Press the backup pump button **1** and hold it down.
- 3 - Push the lever down to raise the jib, stop when the desired position is reached. Release the backup pump button. Remove the lever.



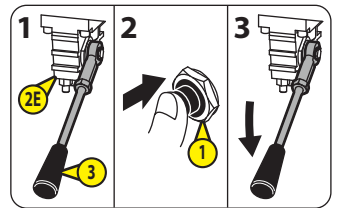
H- LOWER THE JIB

- 1 - Place the lever **3** on the manual control **2D**.
- 2 - Press the backup pump button **1** and hold it down.
- 3 - Push the lever up to lower the jib, stop when the desired position is reached. Release the backup pump button. Remove the lever.



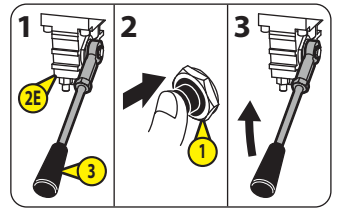
I- TILT BASKET/JIB UPWARDS

- 1 - Place the lever **3** on the manual control **2E**.
- 2 - Press the backup pump button **1** and hold it down.
- 3 - Push the lever down to tilt the basket/jib upwards, stop when the desired position is reached. Release the backup pump button. Remove the lever.



J- TILT BASKET/JIB DOWNWARDS


- 1 - Place the lever **3** on the manual control **2E**.
- 2 - Press the backup pump button **1** and hold it down.
- 3 - Push the lever up to tilt the basket/jib downwards, stop when the desired position is reached. Release the backup pump button. Remove the lever.

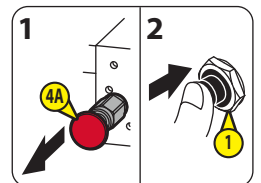


EMERGENCY CONTROLS FROM THE SECONDARY DISTRIBUTOR **4**

K- LOWER THE MAIN ARM

- 1 - Pull the manual control **4A** and hold it.
- 2 - Press and hold down the backup pump button **1** and hold it down for 5 seconds. Release the backup control once the main arm is lowered.

NB: If necessary, correct the tilt of the basket/jib,  EMERGENCY CONTROLS FROM THE PROPORTIONAL DISTRIBUTOR **2**.



OPTIONS

KEY LOCK FOR TURNTABLE COVERS

⚠ IMPORTANT ⚠

To guarantee access to the emergency controls, the right turntable cover must be unlocked before using the platform from the basket.

GENERATOR

⚠ IMPORTANT ⚠

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

Overvoltages could occur when the generator is started.

The engine must be started to activate the generator.

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

NB:

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

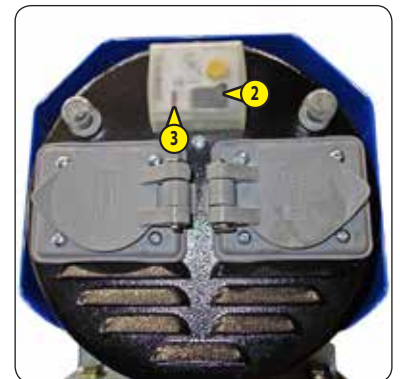
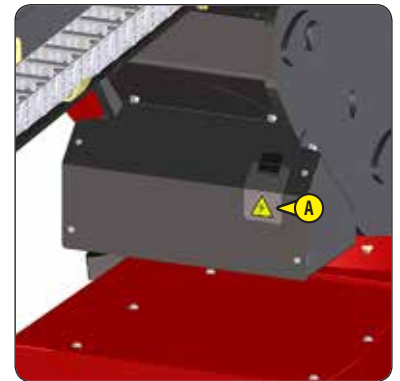
The generator has a circuit breaker for resetting it:

- Press the generator button ① and release it to stop the generator.
- Open the cover ① at the rear of the turntable.
- Locate the switch ② on the generator
- Push it to the ON position.

Result:

- The switch must remain in the ON position, the indicator ③ should be red.
- Press the generator button and release it to start the generator.
- Check that the switch remains in the ON position and that the indicator is red.
- Close the cover ①.

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



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 SPS "SafeManSystem" is deactivated; consult the maintenance personnel.

NB: The audible alarm sounds once and the blue 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.

NB: The flashing light SPS ① may 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.
- AUTOMATIC TELESCOPE RETRACTION option (depending on version): The telescope retracts automatically in less than 4 seconds.
- If you are still trapped between the pressure-sensitive bar SPS and the structure:
 - Press and release the reset button SPS ③.

Result:

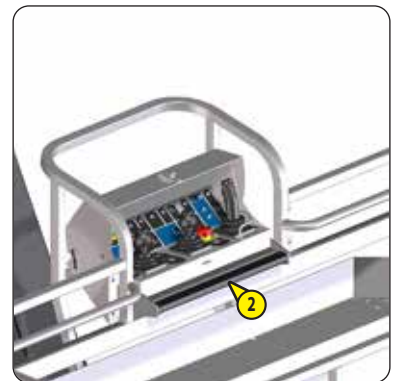
- The platform controls are unlocked, use them to get free.
- The horn stops sounding and the flashing light SPS stops flashing when you are no longer trapped.

- 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 ⚠

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 SPS is deactivated; consult the maintenance personnel.

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

NB: The flashing light SPS ① may 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.
- AUTOMATIC TELESCOPE RETRACTION option (depending on version): The telescope retracts automatically in less than 4 seconds.
- 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

INTRODUCTION	3-3
ORIGINAL MANITOU SPARE PARTS AND EQUIPMENT	3-3
DAILY AND MONTHLY MAINTENANCE	3-4
COMPULSORY SERVICES AND PERIODIC MAINTENANCE	3-5
OCCASIONAL MAINTENANCE AND OCCASIONAL OPERATIONS	3-9
FILTER CARTRIDGES AND BELTS	3-10
LUBRICANTS AND FUEL	3-11
➤ 10H - DAILY MAINTENANCE OR EVERY 10 HOURS OF SERVICE	3-13
➤ 50H - MONTHLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE	3-25
➤ ① 250H - PERIODIC MAINTENANCE - EVERY 250 HOURS OF SERVICE OR 6 MONTHS	3-30
➤ ② 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR	3-42
➤ ③ 1000H - PERIODIC SERVICE - EVERY 1,000 HOURS OF SERVICE OR 2 YEARS	3-54
➤ ④ 2000H - PERIODIC SERVICE - EVERY 2,000 HOURS OF SERVICE OR 4 YEARS	3-59
➤ ⑤ 6000H - PERIODIC SERVICE - EVERY 6,000 HOURS OF SERVICE OR 12 YEARS	3-59
➤ OCCASIONAL MAINTENANCE	3-60
➤ OCCASIONAL OPERATIONS	3-64

INTRODUCTION

MAINTENANCE OPERATIONS REQUIRE SPECIFIC PRECAUTIONS.

⚠ IMPORTANT ⚠

Unless specific instructions are given, during maintenance operations:

- *The platform must be powered down.*
- *The platform must be on a level surface. The wheels must be chocked.*
- *The platform must be in transport position, the turntable and the basket must be in neutral position, 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.*
- *The jib must be completely lowered.*
- *It is essential that the turntable is locked, 2 - DESCRIPTION: SAFETY COMPONENTS: TURNABLE LOCKING PIN.*
- *The basket must be empty.*
- *If installed, the pipe support must be empty.*
- *If installed, the panel support must be empty.*

ORIGINAL MANITOU SPARE PARTS AND EQUIPMENT

OUR PLATFORMS MUST BE SERVICED USING ORIGINAL MANITOU PARTS.

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

⚠ IMPORTANT ⚠

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

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

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

Through its network, MANITOU provides the user with,

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

DAILY AND MONTHLY MAINTENANCE

⚠ IMPORTANT ⚠

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

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

- CHECK	General inspection	3-13
- CHECK	Fuel level	3-13
- CHECK	Battery voltage	3-13
- CHECK	Engine oil level.....	3-14
- CHECK	Coolant level.....	3-14
- CHECK	Alternator/fan belt	3-15
- CHECK	Hydraulic oil level	3-15
- CHECK	Platform controls	3-16
- CHECK	Secondary protection system SPS - first version "SafeManSystem" (OPTION).....	3-23
- CHECK	Secondary protection system SPS - second version (OPTION)	3-24

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

ALSO PERFORM THE DAILY MAINTENANCE.

- CHECK	Injection pipes, fuel hoses and hose clamps.....	3-25
- CHECK	Reduction gearbox seal	3-25
- CHECK	Front and rear axle differential seals	3-25
- CHECK	Front and rear wheel reducer seals.....	3-25
- CHECK	Remote control unit.....	3-26
- CHECK	Generator (OPTION).....	3-27
- CHECK	Condition of pipe support (ATTACHMENT)	3-27
- CHECK	Condition of panel support (ATTACHMENT).....	3-27
- CLEAN	Coolant, air and oil radiators.....	3-27
- CLEAN	Dry air filter cartridge	3-28
- LUBRICATE	Front and rear axles	3-29
- RESET	Maintenance warning.....	3-29

COMPULSORY SERVICES AND PERIODIC MAINTENANCE

⚠ IMPORTANT ⚠

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

MAINTENANCE SCHEDULE

This schedule enables the compulsory services and 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	↓
DUE →	FIRST 50 HOURS	FIRST 6 MONTHS		FIRST 500 HOURS
MANDATORY SERVICE →	FIRST 50 HOURS	FIRST 500 HOURS OR 6 MONTHS		FIRST 500 HOURS OR 6 MONTHS + 2
MACHINE COUNTER →				
DATE OF SERVICING →				

DUE →	250 H	500 H or 1 YEAR	750 H	1000 H or 2 YEARS	1250 H
PERIODIC SERVICE →	1	1 + 2	1	1 + 2 + 3	1
MACHINE COUNTER →					
DATE OF SERVICING →					

DUE →	1500 H or 3 YEARS	1750 H	2000 H or 4 YEARS	2250 H	2500 H or 5 YEARS
PERIODIC SERVICE →	1 + 2	1	1 + 2 + 3 + 4	1	1 + 2
MACHINE COUNTER →					
DATE OF SERVICING →					

DUE →	2750 H	3000 H or 6 YEARS	3250 H	3500 H or 7 YEARS	3750 H
PERIODIC SERVICE →	1	1 + 2 + 3	1	1 + 2	1
MACHINE COUNTER →					
DATE OF SERVICING →					

DUE →	4000 H or 8 YEARS	4250 H	4500 H or 9 YEARS	4750 H	5000 H or 10 YEARS
PERIODIC SERVICE →	1 + 2 + 3 + 4	1	1 + 2	1	1 + 2 + 3
MACHINE COUNTER →					
DATE OF SERVICING →					

DUE →	5250 H	5500 H or 11 YEARS	5750 H	6000 H or 12 YEARS
PERIODIC SERVICE →	1	1 + 2	1	1 + 2 + 3 + 4 + 5
MACHINE COUNTER →				
DATE OF SERVICING →				

MANDATORY SERVICE - FIRST 50 HOURS

ALSO PERFORM THE MONTHLY MAINTENANCE.



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

- CHECK	Wheel nut tightening	3-31
- CHECK	Tightening of the fixing screws for the oscillating cylinders	3-31
- CHECK	Tightening of the fixing screws for the axles	3-32
- CHECK	Tightening of the fixing screws on the basket	3-42
- CHECK	Tightening of the fixing screws on the basket rotation cylinder	3-43
- REPLACE	Engine oil	3-50
- REPLACE	Engine oil filter	3-50

MANDATORY SERVICE - FIRST 500 HOURS OR 6 MONTHS

This service must be carried out after the first 500 hours of service or within 6 months of commissioning of the platform (whichever occurs first):

FIRST 500 HOURS BEFORE THE FIRST 6 MONTHS

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

FIRST 6 MONTHS BEFORE THE FIRST 500 HOURS

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

- CHECK	General inspection	3-13
- CHECK	Platform controls	3-16
- CHECK	Secondary protection system SPS - first version "SafeManSystem" (OPTION)	3-23
- CHECK	Secondary protection system SPS - second version (OPTION)	3-24
- CHECK	Injection pipes, fuel hoses and hose clamps	3-25
- CHECK	Reduction gearbox seal	3-25
- CHECK	Front and rear axle differential seals	3-25
- CHECK	Front and rear wheel reducer seals	3-25
- CHECK	Remote control unit	3-26
- CHECK	Generator (OPTION)	3-27
- CHECK	Condition of pipe support (ATTACHMENT)	3-27
- CHECK	Condition of panel support (ATTACHMENT)	3-27
- CLEAN	Coolant, air and oil radiators	3-27
- CLEAN	Dry air filter cartridge	3-28
- LUBRICATE	Front and rear axles	3-29
- CHECK	Remote control unit	3-30
- CHECK	Alternator/fan belt	3-31
- CHECK	Wheel nut tightening	3-31
- CHECK	Tightening of the fixing screws for the oscillating cylinders	3-31
- CHECK	Tightening of the transmission shaft fixing screws	3-31
- CHECK	Tightening of the fixing screws for the axles	3-32
- CHECK	Locking of the front axle oscillating cylinders	3-33
- CHECK	Overload alarm (260 TJ)	3-34
- CHECK	Overload alarm (280 TJ)	3-34
- CHECK	Braking	3-35
- CHECK	Turntable rotation motor oil level	3-36
- CHECK	Emergency controls	3-36
- CLEAN	Fuel filter cartridge	3-37
- LUBRICATE	Shafts, hubs and cylinder rings	3-38
- LUBRICATE	Telescope	3-40
- LUBRICATE	Jib telescope (only for 280 TJ)	3-40
- LUBRICATE	Crown gear	3-41
- CHECK	Tightening of the fixing screws on the basket	3-42
- CHECK	Tightening of the fixing screws on the basket rotation cylinder	3-43
- CHECK	Tightening of the fixing screws on the telescope cylinder	3-43
- CHECK	Jib telescope chocking (only for 280 TJ)	3-44
- CHECK	Telescope setting	3-45
- CHECK	Tightening of the fixing screws for the crown gear	3-46

- CHECK	Tightening of the fixing screws on the turntable rotation motor	3-46
- CHECK	Tightening of the cast iron counterweight fixing screws	3-47
- CHECK	Tightening of the concrete counterweight fixing screws	3-47
- CHECK	Tightening of the fixing screws for the lifting points (depending on version)	3-47
- CHECK	Hydraulic hoses	3-48
- CHECK	Engine silent blocks *	3-58
- CHECK	Engine speeds *	3-58
- CHECK	Valve lash *	3-58
- CHECK	Injectors *	3-58
- CHECK	Hydrostatic transmission circuit pressure *	3-58
- CHECK	Crown gear clearance *	3-58
- CHECK	Condition of telescope cables *	3-58
- CHECK	Speeds of hydraulic movements *	3-58
- CHECK	Condition of cylinders *	3-58
- CHECK	Condition of electric wiring *	3-58

** Contact your dealer.*

➔ ① 250H - PERIODIC MAINTENANCE - EVERY 250 HOURS OF SERVICE OR 6 MONTHS

ALSO PERFORM THE DAILY MAINTENANCE.

- CHECK	Injection pipes, fuel hoses and hose clamps	3-30
- CHECK	Reduction gearbox seal	3-30
- CHECK	Front and rear axle differential seals	3-30
- CHECK	Front and rear wheel reducer seals	3-30
- CHECK	Remote control unit	3-30
- CHECK	Generator (OPTION)	3-30
- CHECK	Condition of pipe support (ATTACHMENT)	3-30
- CHECK	Condition of panel support (ATTACHMENT)	3-30
- CHECK	Alternator/fan belt	3-31
- CHECK	Wheel nut tightening	3-31
- CHECK	Tightening of the fixing screws for the oscillating cylinders	3-31
- CHECK	Tightening of the transmission shaft fixing screws	3-31
- CHECK	Tightening of the fixing screws for the axles	3-32
- CHECK	Locking of the front axle oscillating cylinders	3-33
- CHECK	Overload alarm (260 TJ)	3-34
- CHECK	Overload alarm (280 TJ)	3-34
- CHECK	Braking	3-35
- CHECK	Turntable rotation motor oil level	3-36
- CHECK	Emergency controls	3-36
- CLEAN	Fuel filter cartridge	3-37
- LUBRICATE	Shafts, hubs and cylinder rings	3-38
- LUBRICATE	Telescope	3-40
- LUBRICATE	Jib telescope (only for 280 TJ)	3-40
- LUBRICATE	Crown gear	3-41
- RESET	Maintenance warning	3-41

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

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

- CHECK	Tightening of the fixing screws on the basket	3-42
- CHECK	Tightening of the fixing screws on the basket rotation cylinder	3-43
- CHECK	Tightening of the fixing screws on the telescope cylinder	3-43
- CHECK	Jib telescope chocking (only for 280 TJ)	3-44
- CHECK	Telescope setting	3-45
- CHECK	Tightening of the fixing screws for the crown gear	3-46
- CHECK	Tightening of the fixing screws on the turntable rotation motor	3-46
- CHECK	Tightening of the cast iron counterweight fixing screws	3-47
- CHECK	Tightening of the concrete counterweight fixing screws	3-47
- CHECK	Tightening of the fixing screws for the lifting points (depending on version)	3-47
- CHECK	Hydraulic hoses	3-48
- REPLACE	Alternator/fan belt	3-48
- REPLACE	Fuel pre-filter	3-49
- REPLACE	Fuel filter cartridge	3-49
- REPLACE	Engine oil	3-50
- REPLACE	Engine oil filter	3-50
- REPLACE	Dry air filter cartridge	3-51
- REPLACE	Turntable rotation motor oil	3-52
- REPLACE	Hydraulic pressure filter cartridge	3-52
- REPLACE	Hydrostatic transmission filter cartridge	3-53
- RESET	Maintenance warning	3-53

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

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

- CLEAN	Fuel tank	3-54
- REPLACE	Dry air filter safety cartridge	3-54
- REPLACE	Coolant	3-55
- REPLACE	Reduction gearbox oil	3-55
- REPLACE	Front and rear axle differential oil	3-56
- REPLACE	Front and rear wheel reduction gear oil	3-56
- REPLACE	Hydraulic oil	3-57
- CLEAN	Filling filter and suction strainer	3-57
- CHECK	Engine silent blocks *	3-58
- CHECK	Engine speeds *	3-58
- CHECK	Valve lash *	3-58
- CHECK	Injectors *	3-58
- CHECK	Hydrostatic transmission circuit pressure *	3-58
- CHECK	Crown gear clearance *	3-58
- CHECK	Condition of telescope cables *	3-58
- CHECK	Speeds of hydraulic movements *	3-58
- CHECK	Condition of cylinders *	3-58
- CHECK	Condition of electric wiring *	3-58
- REPLACE	Air intake line and air suction hose *	3-58
- REPLACE	Hoses and hose clamps for the coolant radiator *	3-58
- REPLACE	Injection pipes, fuel hoses and hose clamps *	3-58
- RESET	Maintenance warning	3-58

*** Contact your dealer.**

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

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

- CHECK	Coolant, air and oil radiators *	3-59
- CHECK	Water pump and thermostat *	3-59
- CHECK	Injection pump *	3-59
- CHECK	Alternator and starter *	3-59
- CHECK	Turbocharger *	3-59
- CHECK	Hydraulic circuit pressures *	3-59
- CHECK	Hydraulic circuit flow rates *	3-59
- CLEAN	Hydraulic oil tank *	3-59
- RESET	Maintenance warning	3-59

*** Contact your dealer.**

➔ 5 6000H - PERIODIC SERVICE - EVERY 6,000 HOURS OF SERVICE OR 12 YEARS

- REPLACE	Telescope cables	3-59
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OCCASIONAL MAINTENANCE AND OCCASIONAL OPERATIONS



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

➔ OCCASIONAL MAINTENANCE

- REPLACE	Wheels	3-60
- BLEED	Fuel supply circuit	3-61
- REPLACE	Fuses/relays	3-62

➔ OCCASIONAL OPERATIONS

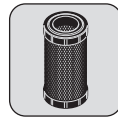
- USE	Swivelling engine plate	3-64
- WINCH	Platform	3-65
- LIFT	Platform	3-67
- TRANSPORT	Platform	3-72

FILTER CARTRIDGES AND BELTS

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



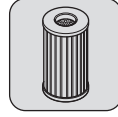
ENGINE OIL FILTER



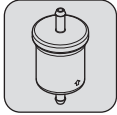
DRY AIR FILTER CARTRIDGE



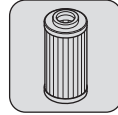
ALTERNATOR/FAN BELT



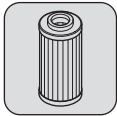
FUEL FILTER CARTRIDGE



FUEL PRE-FILTER



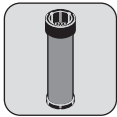
PRESSURE HYDRAULIC FILTER CARTRIDGE



HYDROSTATIC TRANSMISSION FILTER CARTRIDGE

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

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

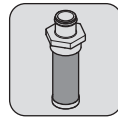


SAFETY DRY AIR FILTER CARTRIDGE

➔ OCCASIONAL MAINTENANCE



CAP/HYDRAULIC OIL TANK FILTER



HYDRAULIC OIL TANK SUCTION STRAINER

LUBRICANTS AND FUEL

⚠ 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 the engine, transmission and axle oils may be requested depending on the rate of use.

(*) SPECIFICATIONS OF RECOMMENDED FUEL

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

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

RECOMMENDATION

ENGINE		
DESCRIPTION	CAPACITY	RECOMMENDATION
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
ENGINE OIL	9.5 L	10W30
		10W40
		MANITOU OIL 15W40 API CH4
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
COOLING CIRCUIT	9 L	COOLANT -35 °C
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
FUEL TANK	72 L	DIESEL OIL GNR HP *

HYDRAULIC		
DESCRIPTION	CAPACITY	RECOMMENDATION
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
HYDRAULIC OIL TANK	94 L	ISO VG 100
		ISO VG 68
		MANITOU HYDRAULIC OIL ISO VG 46
		ISO VG 37
		ISO VG 32

TRANSMISSION		
DESCRIPTION	CAPACITY	RECOMMENDATION
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
REDUCTION GEARBOX	0.8 L	MANITOU MECHANICAL TRANSMISSION OIL SAE80W90

FRONT AXLE		
DESCRIPTION	CAPACITY	RECOMMENDATION
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
DIFFERENTIAL	7.5 L	SPECIAL MANITOU OIL FOR IMMERSSED BRAKES
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
WHEEL GEAR REDUCER	2 x 0.8 L	MANITOU MECHANICAL TRANSMISSION OIL SAE80W90
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
STEERING PIVOT PINS		MANITOU BLACK MULTI-PURPOSE LUBRICANT
		-40 °C -30 °C -20 °C -10 °C 0 °C 10 °C 20 °C 30 °C 40 °C 50 °C
OSCILLATION BEARINGS		MANITOU BLACK MULTI-PURPOSE LUBRICANT

REAR AXLE										
DESCRIPTION	CAPACITY	RECOMMENDATION								
		-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
DIFFERENTIAL	7.5 L	SPECIAL MANITOU OIL FOR IMMersed BRAKES								
		-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
WHEEL GEAR REDUCER	2 x 0.8 L	MANITOU MECHANICAL TRANSMISSION OIL SAE80W90								
		-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
STEERING PIVOT PINS		MANITOU BLACK MULTI-PURPOSE LUBRICANT								

LIFTING STRUCTURE										
DESCRIPTION	CAPACITY	RECOMMENDATION								
		-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
GENERAL GREASING		MANITOU BLACK MULTI-PURPOSE LUBRICANT								
		-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
TELESCOPE LUBRICATION LUBRICATION OF THE JIB TELESCOPE (280 TJ)		MANITOU BLACK MULTI-PURPOSE LUBRICANT								
		-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
CROWN GEAR BEARINGS		MANITOU BLACK MULTI-PURPOSE LUBRICANT								
		-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
CROWN GEAR TEETH		MANITOU MULTI-PURPOSE EXTREME PRESSURE LUBRICANT								
		-40 °C	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
TURNTABLE ROTATION MOTOR	3 L	MANITOU MECHANICAL TRANSMISSION OIL SAE80W90								

CHECK

General inspection

⚠ IMPORTANT ⚠

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

NB: The turntable covers must be opened to carry out the general inspection of the platform. They must be closed once finished.

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

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

CHECK

Fuel level

CHECK





Battery voltage

⚠ IMPORTANT ⚠

Never smoke or approach with a flame when filling with fuel or when the tank cap has been removed.

Never fill up with fuel while engine is running.

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

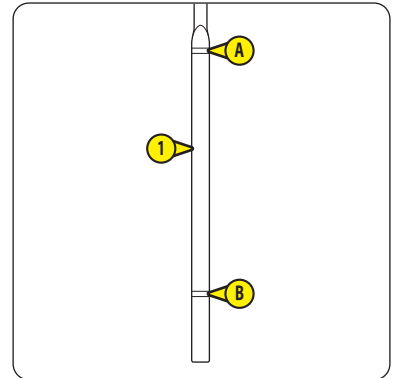
- Switch on the platform.
- Check the fuel level displayed on the interface screen.
- If the level is low:
 - Open the flap .
 - Remove the cap from the tank .
 - Add fuel until the maximum level is reached, LUBRICANTS AND FUEL.
 - Refit the tank cap and close the flap.
- If the level is correct:
 -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



CHECK

Engine oil level

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



CHECK

Coolant level

⚠ IMPORTANT ⚠

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

- NB: The left turntable cover is open.
- Remove the radiator plug ①. The level is correct when the coolant reaches the top of the filling hole.
 - If the level is low, add coolant until the correct level is reached, LUBRICANTS AND FUEL.
 - Refit the radiator cap.



CHECK

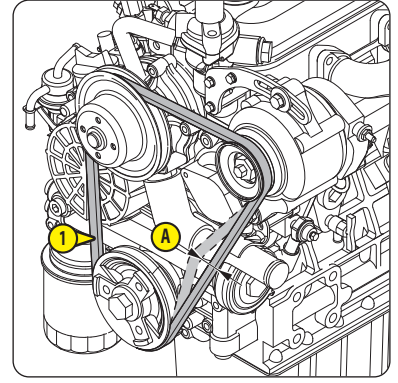
Alternator/fan belt

⚠ IMPORTANT ⚠

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

NB: The left turntable cover is open.

- Check the condition of the belt ①. Ensure there are no cracks or signs of wear.
- Check the belt tension between the crankshaft pulley and the alternator pulley:
 - Apply pressure with the thumb = 98 N. The clearance ② must be between 7 mm and 9 mm to be correct.
- Adjust if necessary:
 - Refer to the maintenance personnel.
- Close the left-hand turntable cover.



CHECK

Hydraulic oil level

⚠ IMPORTANT ⚠

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

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

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

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

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



⚠ IMPORTANT ⚠

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

STARTING THE ENGINE AND EMERGENCY STOP**GROUND LEVEL CONTROL PANEL:**

- Switch on the platform.

Result:

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

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

Result:

- The engine should start.

- Press the emergency stop button.

Result:

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

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

Result:

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

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

Result:

- The engine should start.

CONTROL PANEL IN THE BASKET:

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

Result:

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

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

Result:

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

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

Result:

- The engine should start.

HORN

NB: The engine has been started.

CONTROL PANEL IN THE BASKET:

- Press horn button and release it.

Result:

- The horn should sound.

OVERLOAD ALARM (260 TJ)

NB: The engine has been started.

CONTROL PANEL ON THE GROUND AND IN THE BASKET:

- Place a uniformly distributed weight in the basket:
 - Pipe support or panel support not installed = between 440 kg and 470 kg.
 - Pipe support installed = 425 kg and 455 kg.
 - Panel support installed = 430 kg and 460 kg.

Result:

- The overload alarm should go off.
- Try to operate the platform controls from the ground control panel and then from the control panel in the basket.

Result:

- It should not be possible to activate the controls.
- Remove the entire load from the basket.

Result:

- The overload alarm should stop.

OVERLOAD ALARM (280 TJ)

NB: The engine has been started.

CONTROL PANEL ON THE GROUND AND IN THE BASKET:

- Place a uniformly distributed weight in the basket:
 - Pipe support or panel support not installed = 385 kg and 415 kg.
 - Pipe support installed = between 370 kg and 400 kg.
 - Panel support installed = between 375 kg and 405 kg.

Result:

- The overload alarm should go off.
- Try to operate the platform controls from the ground control panel and then from the control panel in the basket.

Result:

- It should not be possible to activate the controls.
- Remove the entire load from the basket.

Result:

- The overload alarm should stop.
- Enter the basket.

Result:

- The restricted capacity warning light must be off.
- Raise the jib to the horizontal position.
- Fully extend the jib telescope.
- Fully extend the telescope.

Result:

- The restricted capacity warning light should flash.
- Lower the jib.
- Get out of the basket.
- Place a uniformly distributed weight in the basket:
 - Pipe support or panel support not installed = between 264 kg and 294 kg less your own weight.
 - Pipe support installed = between 249 kg and 279 kg less your own weight.
 - Panel support installed = between 254 kg and 284 kg less your own weight.
- Enter the basket.

Result:

- The overload alarm should go off.
- The restricted capacity warning light should come on.
- Try to operate the platform controls from the control panel in the basket.

Result:

- It should not be possible to activate the controls.
- Get out of the basket.

Result:

- The overload alarm should stop.
- Retract the telescope for 10 seconds from the ground level control panel.
- Enter the basket.

Result:

- The restricted capacity warning light should remain on.
- Extend the telescope.

Result:

- The telescope should not extend completely.
- Lower the jib.
- Get out of the basket.
- Remove the entire load from the basket.
- Fully retract the jib telescope.
- Fully retract the telescope.
- Fully lower the jib.

CONTROLS: BASKET/JIB TILT


NB: The engine has been started.

GROUND LEVEL CONTROL PANEL:

- Do not touch the selector switch on the controls at ground level/in the basket. Test the basket/jib tilt controls up and down one after the other.

Result:

- It should not be possible to activate the controls.

- Push and hold the ground/basket control selection switch to the right  .
- Raise the jib slightly.
- Test the basket/jib tilt controls up and down one after the other.

Result:

- It should be possible to activate the controls.
- Level the basket/jib.
- Fully lower the jib.

CONTROLS: BASKET TILT (280 TJ)

NB: The engine has been started.

CONTROL PANEL IN THE BASKET:

- Do not touch the foot switch. Test the basket tilt controls up and down one after the other.

Result:

- It should not be possible to activate the controls.

- Press and hold down the foot switch.
- Raise the jib slightly.
- Test the basket tilt controls up and down one after the other.

Result:

- It should be possible to activate the controls.
- Press and hold down the foot switch.
- Extend the telescope for 3 seconds.

Result:

- It should be possible to activate the control.
- Press and hold down the foot switch.
- Test the basket tilt controls up and down one after the other.

Result:

- Up to machine no. 950123: It should be possible to activate the controls.
- From machine no. 950124: It should not be possible to activate the controls.
- Fully retract the telescope.
- Level the basket.
- Fully lower the jib.

CONTROLS: ROTATION OF TURNTABLE, MAIN ARM, X-Y FUNCTIONS, TELESCOPE, JIB, JIB TELESCOPE (280 TJ) AND BASKET ROTATION

NB: The engine has been started.

GROUND LEVEL CONTROL PANEL:

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

Result:

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

- Push and hold the ground/basket control selection switch to the right . Test the controls one by one.

Result:

- It should be possible to activate all the controls.
- Place the platform in the transport position. Put the turntable and basket in neutral position. Fully lower the jib.

CONTROL PANEL IN THE BASKET:

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

Result:

- It should not be possible to activate any of the controls.
- Press and hold down the foot switch. Test the controls one by one.

Result:

- It should be possible to activate all the controls.
- Place the platform in the transport position. Put the turntable and basket in neutral position.

CONTROLS: DRIVING/BRAKING/STEERING (TRANSPORT POSITION)

NB: The engine has been started.

CONTROL PANEL IN THE BASKET:

- Raise the jib slightly for good visibility.

- Select TORTOISE speed .

- Do not touch the foot switch. Do not touch the control handle trigger. Try to drive and steer the platform.
- Do not touch the foot switch. Press and hold down the control handle trigger. Try to drive and steer the platform.
- Press and hold down the foot switch. Do not touch the control handle trigger. Try to drive and steer the platform.

Result:

- It should not be possible to activate the controls.
- Press and hold down the foot switch. Press and hold down the control handle trigger.
- Drive the platform forward, steer left/right and brake. Reverse the platform and brake.

- Select RAMP speed  and perform the test again.

- Select HARE speed  and perform the test again.

Result:


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

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

Result:

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

TURNABLE ORIENTATION MORE THAN 90° INDICATOR LIGHT

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

- Turn the turntable to the left more than 90° relative to the neutral position.

Result:

- The light indicating turntable orientation of more than 90° should be lit.

- Turn the turntable to the right more than 90° relative to the neutral position.

Result:

- The light indicating turntable orientation of more than 90° should be lit.

- Put the turntable in neutral position.

MAIN ARM AND TELESCOPE POSITION SENSORS

NB: The engine has been started.

CONTROL PANEL IN THE BASKET:

- Select TORTOISE speed .

- Drive the platform forward for a short distance. Assess and remember the speed of the platform.

- Raise the main arm for 3 seconds.

- Drive the platform forward for a short distance.


Result:

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

- Fully lower the main arm.

- Drive the platform forward for a short distance.

Result:

- The driving speed must be TORTOISE speed .

- Extend the telescope for 3 seconds.

- Drive the platform forward for a short distance.


Result:

- The driving speed must be WORKING POSITION speed.

- Fully retract the telescope.

- Drive the platform forward for a short distance.

Result:

- The driving speed must be TORTOISE speed .

TILT ALARM

NB: The engine has been started.

GROUND LEVEL CONTROL PANEL:

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

Result:

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

NB: The red light must stay on.

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

- Release the levelling sensor.

Result:

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

NB: The red light must stay on.

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

- Close the right-hand turntable cover panel.

CONTROL PANEL IN THE BASKET:

- Raise the main arm for 3 seconds.



- Select RAMP speed
- Select a slope between 15% (8.5°) and 25% (14°).
- Drive the platform forwards slowly on the slope, facing it, with the basket at the bottom of the slope.

Result:

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

- 260 TJ: Try to raise the main arm, extend the telescope and drive/operate.
- 280 TJ: Try to raise the main arm, extend the telescope, extend the jib telescope, tilt the basket upwards/downwards and drive/steer.

Result:

- It should not be possible to activate the controls.

- Fully lower the main arm.

Result:

- It should be possible to activate the control.

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

Result:

- The tilt alarm should stop.

- Stop the engine. 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.

NB: The flashing light SPS ① may be blue or red depending on the country.

- Switch on the platform.

Result:

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

NB: If the audible alarm sounds intermittently and the flashing light SPS ① flashes rapidly: The platform can function normally but the option is deactivated, consult maintenance personnel.

- Switch on the engine.

- Enter the basket.

- Extend the telescope for 5 seconds.

- Turn the basket to the right or the left. At the same time, press on the pressure-sensitive bar SPS ② and release it.

Result:

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

- 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.

- Extend the telescope for 5 seconds.

- Turn the basket to the right or the left. At the same time, press on the pressure-sensitive bar SPS ② and hold it down.

Result:

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

- Press on the reset button SPS ③ and release it without releasing the pressure-sensitive bar SPS ②.

Result:

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

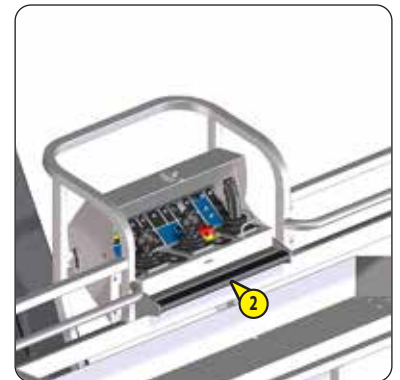
- Release the pressure-sensitive bar SPS.

Result:

- The horn should stop sounding and the flashing light SPS should stop flashing.
- Place the platform in the transport position. Put the turntable and basket in neutral position. Fully lower the jib.

- Get out of the basket.

- Stop the engine. Switch off the power to the platform.



CHECK

Secondary protection system SPS - second version (OPTION)

⚠ 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.

NB: The flashing light SPS ① may be blue or red depending on the country.

- Switch on the platform.

Result:

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

NB: If the audible alarm sounds intermittently and the flashing light SPS ① flashes rapidly: The platform can function normally but the option is deactivated, consult maintenance personnel.

- Switch on the engine.

- Enter the basket.

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

- Extend the telescope for 5 seconds.

- Turn the basket to the right or the left. At the same time, push the safety cable SPS ② forwards and release.

Result:

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

- 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.

- Extend the telescope for 5 seconds.

- Turn the basket to the right or the left. At the same time, push and hold the safety cable SPS ② forwards.

Result:

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

- Press and release the reset button SPS ③ without releasing the safety cable SPS ②.

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.

- Place the platform in the transport position. Put the turntable and basket in neutral position. Fully lower the jib.

- Get out of the basket.

- Stop the engine. Switch off the power to the platform.



50H - MONTHLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE

ALSO PERFORM THE DAILY MAINTENANCE.

CHECK

Injection pipes, fuel hoses and hose clamps

⚠ IMPORTANT ⚠



Never smoke or approach with a flame during this check.

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

- Open the left-hand turntable cover.
- Open the swivelling engine plate, OCCASIONAL OPERATION.
- Check the condition of all the injection pipes, fuel hoses and hose clamps.
- Check for fuel leaks.
- Close the swivelling engine plate, OCCASIONAL OPERATION.
- Close the left-hand turntable cover.

CHECK



Reduction gearbox seal

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



CHECK


Front and rear axle differential seals

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



CHECK

Front and rear wheel reducer seals

- NB: Check the gear reducers one by one.
- Check no oil is leaking from the gear reducers and plugs.
 - If a leak is detected:
 - Turn the wheel to put the drain/filler plug  in the horizontal position.
 - Clean the outside of the gear reducer with a clean cloth.
 - Remove the drain/filler plug .
 - Check that the oil reaches the filling hole.
 - Add oil if necessary, LUBRICANTS AND FUEL.
 - Refit the drain/filler plug:
- Tightening torque = 42 N.m ± 7 N.m



⚠ IMPORTANT ⚠

◀ 2 - DESCRIPTION for more information on the remote control unit.

Select a test area on a firm, level surface that is free of any obstacles.

Look around and above you when manoeuvring the platform.

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.

EMERGENCY STOP AND STARTING THE ENGINE (depending on the version)

- Start the engine from the ground control panel.

REMOTE CONTROL UNIT (all versions):

- Press the emergency stop button.

Result:

- The emergency stop button should be locked in the OFF position.
- The engine should stop.
- It should not be possible to activate the controls.
- First and second version: Turn the button a quarter turn to the right and release it.
- Third version: Pull the button or turn it a quarter turn to the right and release it.
- Turn the emergency stop button a quarter turn to the right and release it.

Result:

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

REMOTE CONTROL UNIT (first and second version):

- Start the engine from the ground control panel.

REMOTE CONTROL UNIT (third version):

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

Result:

- The engine should start.

CONTROLS: MAIN ARM, BASKET/JIB TILT AND BASKET TILT (280 TJ)

NB: The engine has been started.

REMOTE CONTROL UNIT (all versions):

- Do not touch the activation button. Test the controls one by one.

Result:

- It should not be possible to activate any of the controls.
- Press and hold down the activation button. Test the controls one by one.

Result:

- It should be possible to activate all the controls.
- 280 TJ: Level the basket.
- Level the basket/jib.
- Place the platform in the transport position.
- Stop the engine. Switch off the power to the platform.

CHECK

Generator (OPTION)

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

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

Result:

- The electrical appliance should operate.

- Open the cover **A**.
- Locate the test button **1** on the generator and press it.

Result:

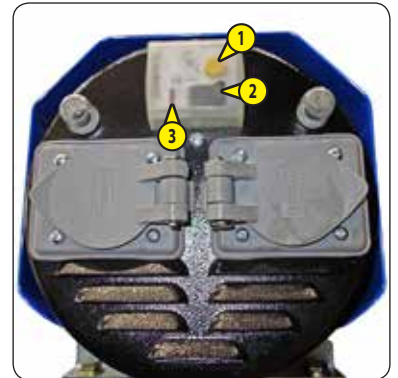
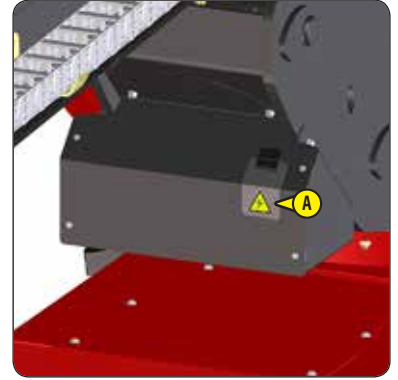
- The switch **2** must move from the ON position to the OFF position, the indicator **3** should be green.
- The electrical appliance should not operate.

- Push the switch to the ON position.

Result:

- The switch must remain in the ON position, the indicator should be red.
- The electrical appliance should operate.

- Disconnect the electrical appliance.
- Stop the generator.
- Close the cover **A**.
- Stop the engine. Switch off the power to the platform.



CHECK

Condition of pipe support (ATTACHMENT)

- Check the general condition of the components, the conformity of the installation and the tightening torques (≤ 4 - ATTACHMENTS: PIPE SUPPORT).

CHECK

Condition of panel support (ATTACHMENT)

- Check the general condition of the components, the conformity of the installation and the tightening torques (≤ 4 - ATTACHMENTS: PANEL SUPPORT).

CLEAN

Coolant, air and oil radiators

⚠ IMPORTANT ⚠

Clean the radiators more often when the platform is operating in a dusty environment.

If there is doubt about the condition of the hoses and hose clamps for the coolant and air radiators, it is essential to have them replaced by an authorised professional from the Manitou network.

- Open the left-hand turntable cover.
- Open the swivelling engine plate, ≤ 4 OCCASIONAL OPERATION.
- Clean the radiators **1** with a small brush to remove the dust.
- Clean them with compressed air, from the inside out.
- Check the condition of the hoses and tightening clamps for the coolant and air radiators.
- Check the condition of the oil radiator.
- Close the swivelling engine plate, ≤ 4 OCCASIONAL OPERATION.



⚠ IMPORTANT ⚠

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

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

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

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

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

NB: The left turntable cover is open.

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

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

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

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

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

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

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

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



⚠ IMPORTANT ⚠

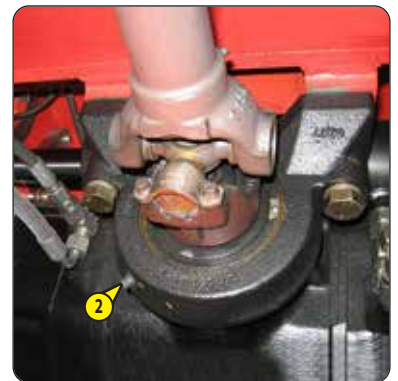
Lubricate the axles more often when the platform is operating in a dusty environment.

STEERING PIVOT PINS

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




OSCILLATING FRONT AXLE:

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



RESET

Maintenance warning

- Switch on the platform.
- ⏪ 2 - DESCRIPTION: DEFINITION OF SUB-MENUS:
 - Enter in the menu, CODE  .
 - Enter the access code.
 - Enter in the menu, MAINTENANCE  .
 - Zero the corresponding maintenance alerts.
 - Press the MENU key  twice to return to the WORK PAGE.
- Switch off the power to the platform.

➔ 1 250H - PERIODIC MAINTENANCE - EVERY 250 HOURS OF SERVICE OR 6 MONTHS

ALSO PERFORM THE DAILY MAINTENANCE.

CHECK

Injection pipes, fuel hoses and hose clamps

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

CHECK

Reduction gearbox seal

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

CHECK

Front and rear axle differential seals

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

CHECK

Front and rear wheel reducer seals

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

CHECK

Remote control unit

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

CHECK

Generator (OPTION)

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

CHECK

Condition of pipe support (ATTACHMENT)

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

CHECK

Condition of panel support (ATTACHMENT)

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

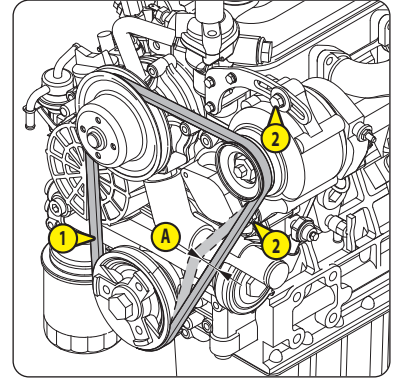
CHECK

Alternator/fan belt

⚠ IMPORTANT ⚠

If there is doubt about the condition of the belt, $\leq 500\text{H}$: REPLACE: ALTERNATOR/FAN BELT.

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



CHECK

Wheel nut tightening

⚠ IMPORTANT ⚠

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

- Check all the wheel nut tightening torques:
 - 550 N.m \pm 55 N.m

CHECK

Tightening of the fixing screws for the oscillating cylinders

⚠ IMPORTANT ⚠

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

- Remove the right and left covers ①.
- Check the tightening torques for all the fixing screws ②, left and right-hand sides:
 - 375 N.m \pm 74 N.m
- Refit the right and left covers.



CHECK

Tightening of the transmission shaft fixing screws

⚠ IMPORTANT ⚠

Failure to follow this instruction may result in the platform losing control.

- Check the tightening torque of all the fixing screws ①, at the front and rear:
 - 38 N.m \pm 3.5 N.m



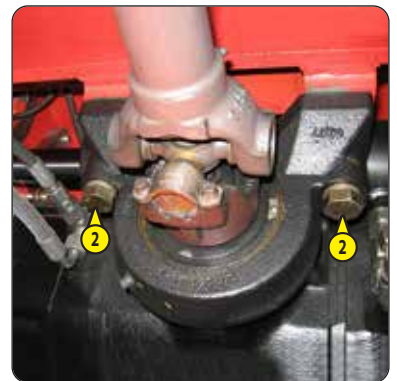
CHECK

Tightening of the fixing screws for the axles

⚠ IMPORTANT ⚠

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

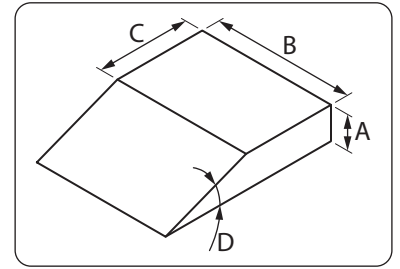
- Check all the fixing screw tightening torques:
 - ① (Front axle, left and right sides) = 280 N.m \pm 28 N.m
 - ② (Front axle oscillating bearings) = 375 N.m \pm 74 N.m
 - ③ (Rear axle, left and right sides) = 341 N.m \pm 68 N.m



CHECK

Locking of the front axle oscillating cylinders

- Place a sufficiently solid ramp in front of the right front wheel:
 - A = 7.5 cm minimum, 9 cm maximum.
 - B = 60 cm minimum.
 - C = 75 cm minimum, 100 cm maximum.
 - D = 10° minimum, 25° maximum.



- Switch on the engine.
- Enter the basket.



- Select RAMP speed
- Raise the jib slightly.
- Drive the platform slowly forwards until the right front wheel is at the top of the ramp. Brake the platform.
- Turn the turntable 90° to the left.
- Extend the telescope for 2 seconds.
- Drive the platform slowly backwards until the wheel is off the slope. Brake the platform.
- Ask someone on the ground to check the right front wheel and the oscillating cylinders.

Result:

- The right front wheel should be in the upper position and not in contact with the ground.
- The right oscillating cylinder should be retracted and the left one extended.
- Ask the person on the ground to move away.
- Fully retract the telescope.
- Ask the person on the ground to check the front wheels.

Result:

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

Result:

- The left front wheel should be in the upper position and not in contact with the ground.
- The left oscillating cylinder should be retracted and the right one extended.
- Ask the person on the ground to move away.
- Fully retract the telescope.
- Ask the person on the ground to check the front wheels.

Result:

- The two front wheels must be in contact with the ground.
- Put the turntable in neutral position.
- Fully lower the jib.
- Get out of the basket.

⚠ IMPORTANT ⚠

*Failure to follow this instruction may result in the platform tipping over.
The PIPE SUPPORT or PANEL SUPPORT attachments must be removed before checking the overload alarm, 4 - ATTACHMENTS.
Refer to the platform repair manual if the overload system is not correctly calibrated.*

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

- Place a uniformly distributed 440 kg weight in the basket:

Result:

• The overload alarm should go off.

- Remove 40 kg to obtain a load of 400 kg in the basket.

Result:

• The overload alarm should stop.

- Remove the entire load from the basket.

- Stop the engine. Switch off the power to the platform.

⚠ IMPORTANT ⚠

*Failure to follow this instruction may result in the platform tipping over.
The PIPE SUPPORT or PANEL SUPPORT attachments must be removed before checking the overload alarm, 4 - ATTACHMENTS.
Refer to the platform repair manual if the overload system is not correctly calibrated.*

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

- Place a uniformly distributed 385 kg weight in the basket:

Result:

• The overload alarm should go off.

- Remove 35 kg to obtain a load of 350 kg in the basket.

Result:

• The overload alarm should stop.

- Remove the entire load from the basket.

- Enter the basket.

Result:

• The restricted capacity warning light must be off.

- Raise the jib to the horizontal position.

- Fully extend the jib telescope.

- Fully extend the telescope.

Result:

• The restricted capacity warning light should flash.

- Lower the jib.

- Get out of the basket.

- Place a uniformly distributed 264 kg weight in the basket.

Result:

• The overload alarm should go off.

- Remove 24 kg to obtain a load of 240 kg in the basket.

Result:

• The overload alarm should stop.

- Remove the entire load from the basket.

- Fully retract the telescope.

- Fully retract the jib telescope.

- Fully lower the jib.

- Stop the engine. Switch off the power to the platform.

⚠ IMPORTANT ⚠


*Failure to follow this instruction may result in the platform losing control.
The PIPE SUPPORT or PANEL SUPPORT attachments must be removed before checking the braking, < 4 - ATTACHMENTS.*

PLACING IN FREEWHEEL MODE

- NB: The engine has not been started. The platform is in transport position. The turntable and basket are in the neutral position. The jib is completely lowered.
- Perform the freewheel and brake function restoration procedure, < OCCASIONAL OPERATION: PLATFORM WINCHING.

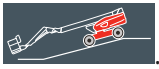
STOPPING DISTANCE ON LEVEL GROUND

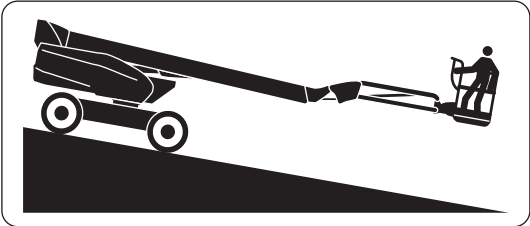
- NB: The engine has not been started. The platform is in transport position. The turntable and basket are in the neutral position. The jib is completely lowered.
- Switch on the engine.
 - Place a uniformly distributed weight in the basket:
 - 260 TJ: Place 400 kg less the operator's weight.
 - 280 TJ: Place 350 kg less the operator's weight.
 - Drive the platform forward, reach maximum speed and then release the joystick to stop the platform.
- Required results:

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

CHECKING THE BRAKES ON A SLOPE

NB: The engine has been started. A load of 400 kg (260 TJ) or 350 kg (280 TJ) less the weight of the operator is in the basket.

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

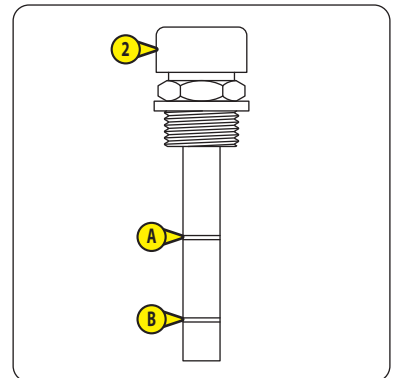
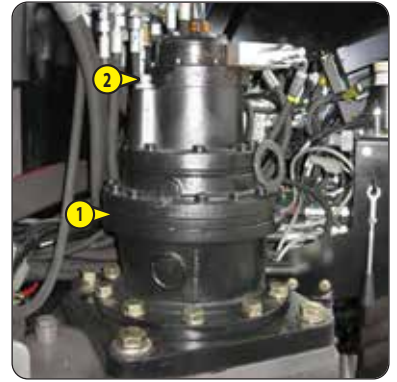


- Result:
- The platform must not have moved back after one minute.
- Switch on the engine.
 - Drive the platform off the slope to a level surface.
 - Fully lower the jib.
 - Remove the entire load from the basket.
 - Stop the engine. Switch off the power to the platform.

CHECK

Turntable rotation motor oil level

- Open the right-hand turntable cover.
- Check no oil is leaking from the turntable rotation motor ①.
- Remove the filler plug ②.
- Clean the gauge on the filler cap with a clean cloth and put it back in place.
- Remove the filler cap. The level is correct when the oil is between the 2 marks A and B.
- If the level is low, add oil until the correct level is reached, LUBRICANTS AND FUEL.
- Refit the filler cap.
- Close the right-hand turntable cover panel.



CHECK

Emergency controls

⚠ IMPORTANT ⚠

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

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

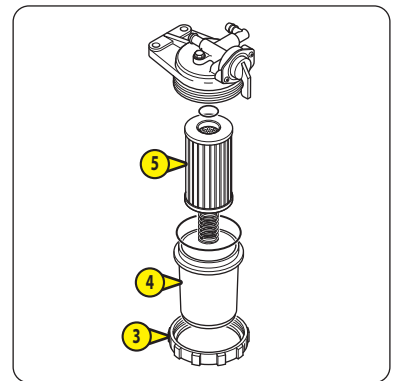
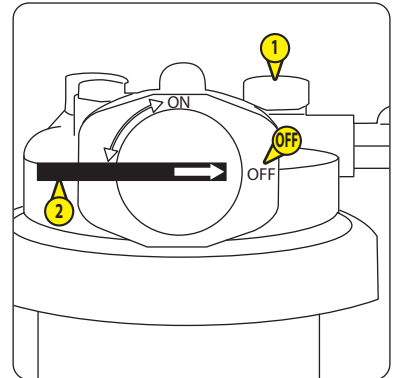
⚠ IMPORTANT ⚠




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

Never use the platform without the fuel filter cartridge or if it is damaged. If there is doubt about its condition,

⚠ 500H: REPLACE: FUEL FILTER CARTRIDGE.

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

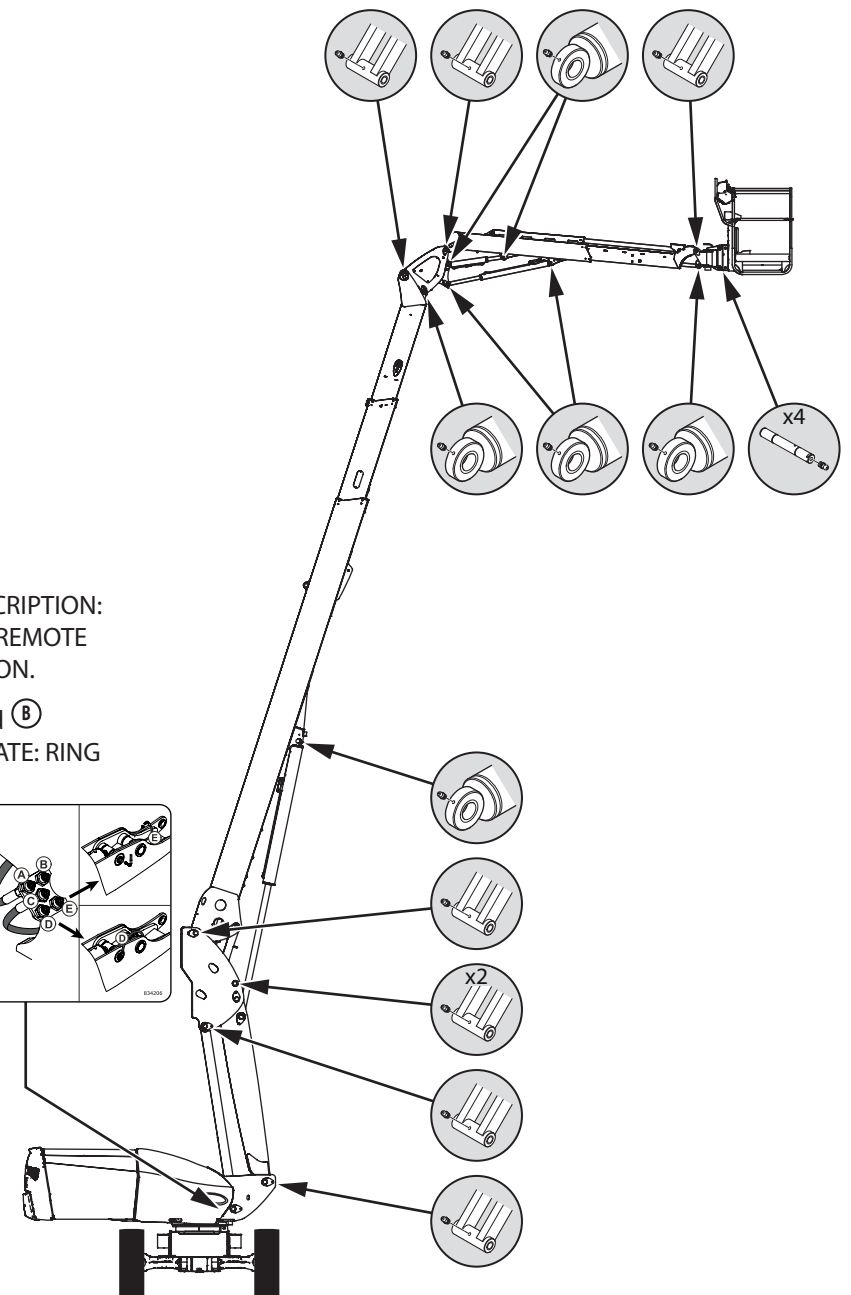
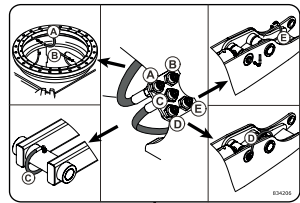


280 TJ
KEY
PIN

HUB

CYLINDER RING


◀ 2 - DESCRIPTION:
STICKERS: REMOVE
LUBRICATION.

NB: (A) and (B)

◀ LUBRICATE: RING
GEAR.



LUBRICATE

Telescope

⚠ IMPORTANT ⚠

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

NB: The engine has been started.

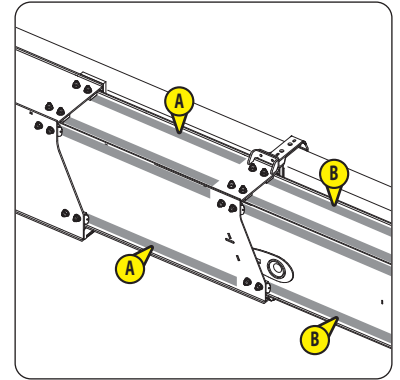
- Raise the jib slightly.
- Fully extend the telescope.

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

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

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

- Fully retract the telescope.
- 260 TJ: Fully lower the jib.



LUBRICATE

Jib telescope (only for 280 TJ)

⚠ IMPORTANT ⚠

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

NB: The engine has been started. The jib is slightly raised.

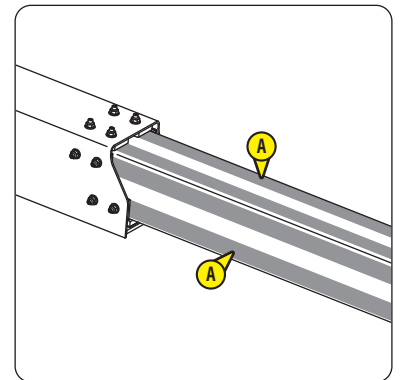
- Fully extend the jib telescope.

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

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

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

- Fully retract the jib telescope.
- Fully lower the jib.



LUBRICATE

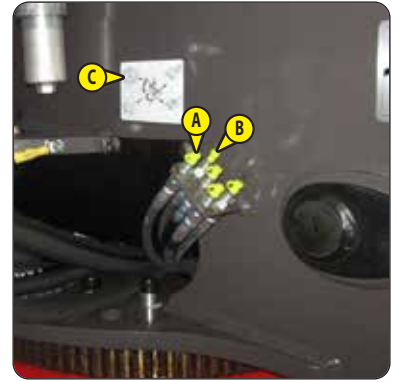
Crown gear

NB: The engine has been started.

- Open the left-hand turntable cover.
- Remove the caps of the lubrication connectors.
- Inject the lubricant into the lubrication connectors, **A** and **B**. \triangleleft LUBRICANTS AND FUEL.

NB: \triangleleft 2 - DESCRIPTION: STICKERS: REMOTE LUBRICATION **C**.

- Turn the turntable 90° to the left or the right and inject lubricant again.
- Refit the caps on the lubrication connectors.
- Close the left-hand turntable cover.
- Lubricate the teeth of the crown gear **1**, \triangleleft LUBRICANTS AND FUEL.
- Turn the turntable a full turn to spread the lubricant.
- Put the turntable in neutral position.
- Stop the engine. Switch off the power to the platform.



RESET

Maintenance warning

\triangleleft 50H: RESET: MAINTENANCE WARNING.

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

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

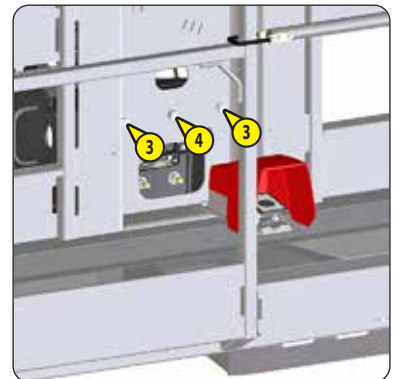
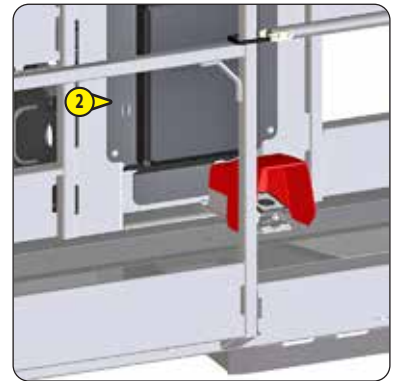
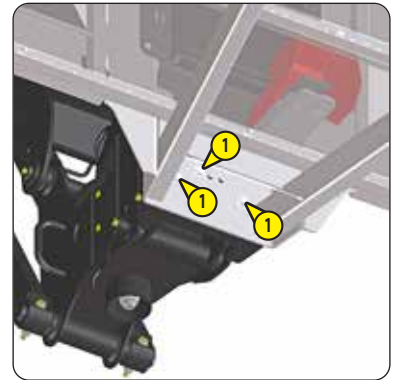
CHECK

Tightening of the fixing screws on the basket

⚠️ IMPORTANT ⚠️

*Failure to follow this instruction may result in the basket falling.
Always secure the raised jib using a suitable lifting device.*

- Switch on the engine.
- Raise the jib and secure it using a suitable lifting device.
- Check all the fixing screw tightening torques ①:
 - $90 \text{ N.m} \pm 17.5 \text{ N.m}$
- Fully lower the jib arm.
- Stop the engine. Switch off the power to the platform.
- Take off the cover ②.
- Check all the fixing screw tightening torques ③:
 - $90 \text{ N.m} \pm 17.5 \text{ N.m}$
- Check the tightening torque of the fixing screw ④:
 - $76 \text{ N.m} \pm 15 \text{ N.m}$
- Put the cover ② back in place.



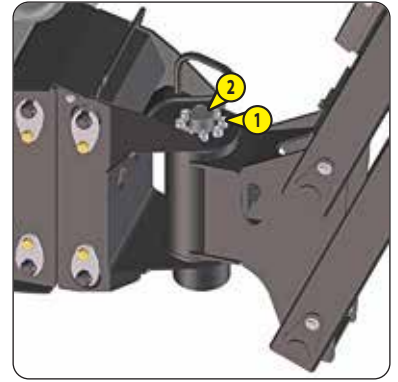
CHECK

Tightening of the fixing screws on the basket rotation cylinder

⚠ IMPORTANT ⚠

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

- Check all the fixing screw tightening torques ①:
 - $76 \text{ N.m} \pm 15 \text{ N.m}$
- Check the tightening torque of the pin ②:
 - $80 \text{ N.m} \pm 16 \text{ N.m}$



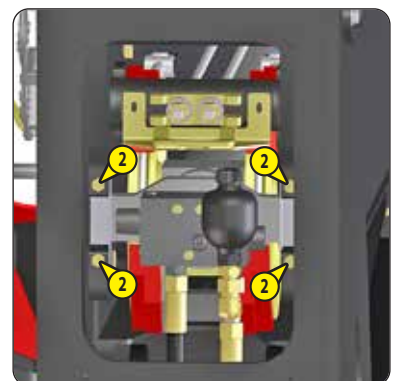
CHECK

Tightening of the fixing screws on the telescope cylinder

⚠ IMPORTANT ⚠

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

- Take off the cover ①.
- Check all the fixing screw tightening torques ②:
 - $44 \text{ N.m} \pm 8.5 \text{ N.m}$
- Put the cover ① back in place.



CHECK

Jib telescope chocking (only for 280 TJ)

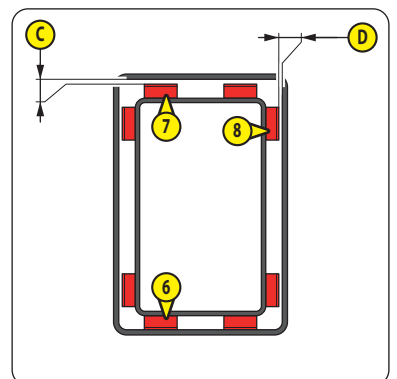
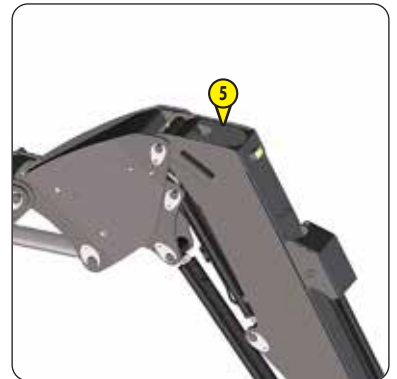
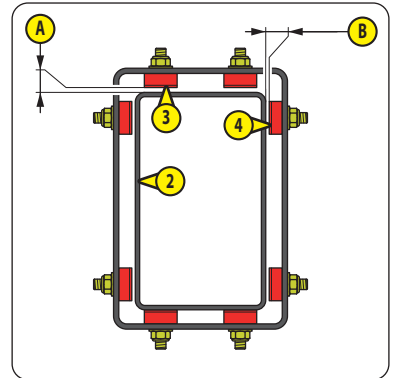
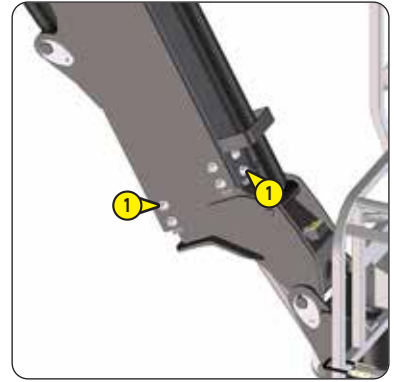
⚠ IMPORTANT ⚠

*It is recommended that the jib telescope chocking is adjusted if the clearances are higher than the maximum values, **REPAIR MANUAL.***

- Switch on the engine.
- Raise the jib slightly.
- Check all the wheel nut tightening torques **1**:
 - 69 N.m ± 6.5 N.m
- Extend the jib telescope for 1 second.
- Check the clearances between the pads and the jib telescope **2**:
 - **A** (Upper pads **3**) must be between 1 mm and 1.5 mm.
 - **B** (Side pads **4**) must be between 0.5 mm and 0.75 mm on either side.
- Fully extend the jib telescope.

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

- Check the clearances **A** and **B** again.
- Fully retract the jib telescope.
- Take off the cover **5**.
- Place several pallets under the basket.
- Slowly lower the jib until the pads **6** are in contact with the jib.
- Check the clearances between the pads and the jib:
 - **C** (Upper pads **7**) must be between 1 mm and 1.5 mm.
 - **D** (Side pads **8**) must be between 0.5 mm and 0.75 mm on either side.
- Raise the jib slightly.
- Remove the pallets.
- Fully lower the jib.
- Put the cover **5** back in place.



⚠ IMPORTANT ⚠

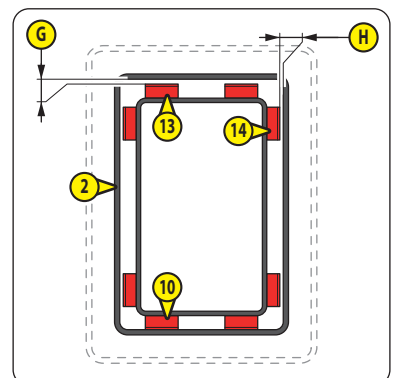
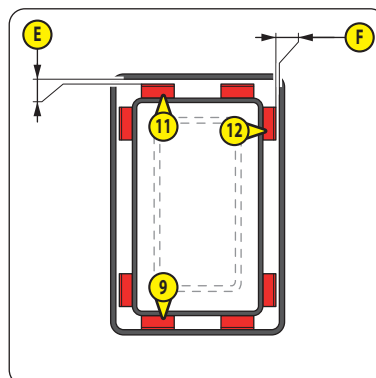
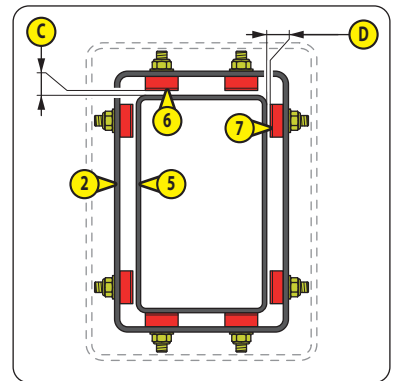
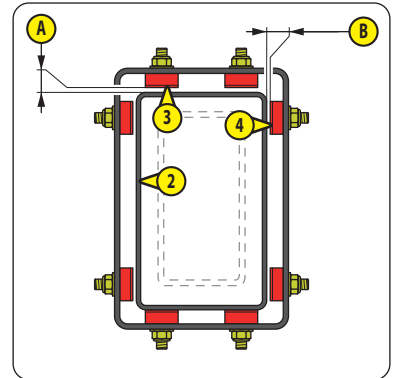
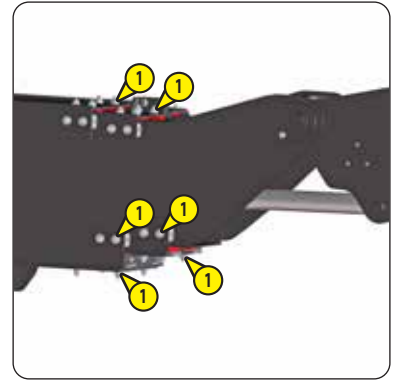
*It is recommended that the telescope wedging is adjusted if the clearances are higher than the maximum values,
 ↩ REPAIR MANUAL.*

NB: 280 TJ, the engine has been started.

- Check all the wheel nut tightening torques **1**:
 - 69 N.m ± 6.5 N.m
- 260 TJ: Switch on the engine.
- Raise the jib slightly.
- Extend the telescope for 1 second.
- Check the clearances between the pads and the intermediate telescope **2**:
 - **A** (Upper pads **3**) must be between 1 mm and 1.5 mm.
 - **B** (Side pads **4**) must be between 0.5 mm and 0.75 mm on either side.
- Check the clearances between the pads and the telescope **5**:
 - **C** (Upper pads **6**) must be between 1 mm and 1.5 mm.
 - **D** (Side pads **7**) must be between 0.5 mm and 0.75 mm on either side.
- Fully extend the telescope.

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

- Check the clearances **A**, **B**, **C** and **D** again.
- Fully retract the telescope.
- Take off the cover **8**.
- Raise the main arm slightly.
- Place several pallets under the basket.
- Slowly lower the main arm until the pads **9** are in contact with the main arm and the pads **10** are in contact with the intermediate telescope **2**.
- Check the clearances between the pads and the main arm:
 - **E** (Upper pads **11**) must be between 1 mm and 1.5 mm.
 - **F** (Side pads **12**) must be between 0.5 mm and 0.75 mm on either side.
- Check the clearances between the pads and the intermediate telescope **2**:
 - **G** (Upper pads **13**) must be between 1 mm and 1.5 mm.
 - **H** (Side pads **14**) must be between 0.5 mm and 0.75 mm on either side.
- Raise the main arm slightly.
- Remove the pallets.
- Fully lower the main arm.
- Stop the engine. Switch off the power to the platform.
- Put the cover **8** back in place.



CHECK

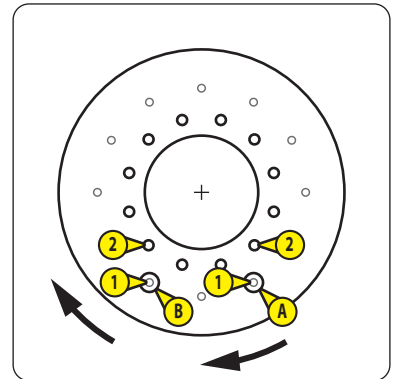
Tightening of the fixing screws for the crown gear

⚠ IMPORTANT ⚠

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

If one or more screws are loose, replace them with new screws and tighten them to torque.

- Remove the right and left chassis covers.
 - Open the right-hand turntable cover.
 - Locate the drill hole **A**.
 - Open the left-hand turntable cover.
 - Locate the drill hole **B**.
 - Switch on the engine.
 - Turn the turntable to align the drill holes **A** and **B** with 2 fixing screws **1**.
 - Check the tightening torque for the first 2 fixing screws **1**:
 - 145 N.m ± 14.5 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.
 - Check the tightening torque for the fixing screws **2**:
 - 145 N.m ± 14.5 N.m
- NB: The fixing screws **2** are protected by a plastic cap.
- Put the turntable in neutral position.
 - Stop the engine. Switch off the power to the platform.



CHECK

Tightening of the fixing screws on the turntable rotation motor

⚠ IMPORTANT ⚠

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

- NB: The right and left turntable covers are open. The left and right chassis covers have been removed.
- Check all the fixing screw tightening torques:
 - Screw **1** = 192 N.m ± 38 N.m
 - Screw **2** = 341 N.m ± 68 N.m
 - Close the left and right turntable covers.



CHECK

Tightening of the cast iron counterweight fixing screws

⚠ IMPORTANT ⚠

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

NB: The left and right chassis covers are removed.

- Check all the fixing screw tightening torques ①:
 - 341 N.m ± 68 N.m



CHECK

Tightening of the concrete counterweight fixing screws

Illustrations: ① = version without lifting points, ② = version with lifting points.

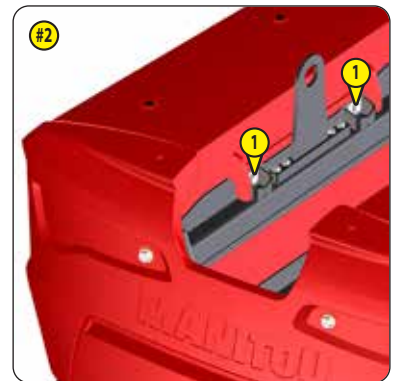
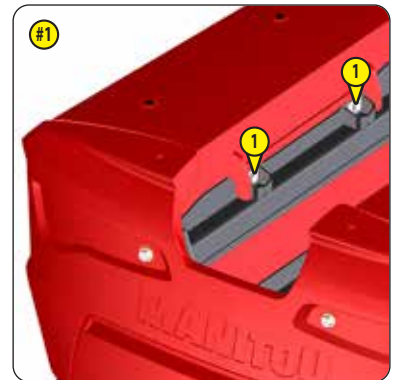
⚠ IMPORTANT ⚠

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

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

NB: The left and right chassis covers are removed.

- Switch on the engine.
- Raise the main arm as far as possible and secure it using a suitable lifting device.
- Stop the engine. Switch off the power to the platform.
- Check the tightening torques for all the fixing screws ①, left and right-hand sides:
 - 341 N.m ± 68 N.m



CHECK

Tightening of the fixing screws for the lifting points (depending on version)

⚠ IMPORTANT ⚠

Failure to follow this instruction may result in the platform falling during lifting.

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

NB: The left and right chassis covers are removed. The main arm is raised and secured.

- Check the tightening torques for all the fixing screws ①, left and right-hand sides:
 - 256 N.m ± 25 N.m



⚠ IMPORTANT ⚠

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

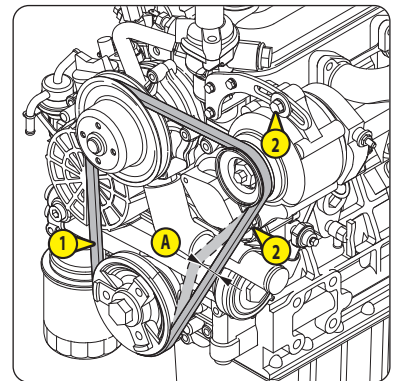
NB: The left and right chassis covers are removed. The main arm is raised and secured.

- Open the left and right turntable covers.
- Open the swivelling engine plate, ⚠ OCCASIONAL OPERATION.
- Remove the rear chassis cover.
- Check the condition of all the hydraulic hoses and that there are no leaks.
- Refit the right chassis cover.
- Refit the right and left chassis covers.
- Close the swivelling engine plate, ⚠ OCCASIONAL OPERATION.
- Switch on the engine.
- Fully lower the main arm.
- Stop the engine. Switch off the power to the platform.
- Check the condition of all the other hydraulic hoses and check that there are no leaks.

REPLACE**Alternator/fan belt**

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

- Replace the belt ①, ⚠ FILTER CARTRIDGES AND BELTS:
 - Loosen the screws ②.
 - Remove the used belt by swivelling the alternator.
 - Replace it with a new belt.
 - Tighten the screws ②.
- Check the belt tension between the crankshaft pulley and the alternator pulley:
 - Apply pressure with the thumb = 98 N. The clearance ③ must be between 7 mm and 9 mm to be correct.
- Adjust if necessary:
 - Loosen the screws ②.
 - Adjust the belt tension by swivelling the alternator.
 - Tighten the screws ②.
 - Check the belt tension again.



REPLACE

Fuel pre-filter

⚠ IMPORTANT ⚠

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

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

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

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



REPLACE

Fuel filter cartridge

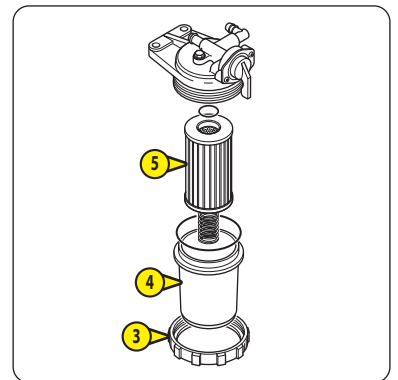
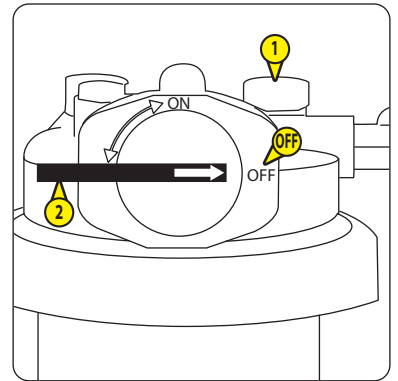
⚠ IMPORTANT ⚠

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

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

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

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



REPLACE

Engine oil

REPLACE

Engine oil filter

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

CHANGE THE OIL

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



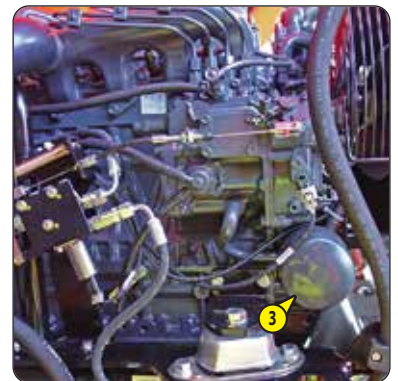
REPLACE THE ENGINE OIL FILTER

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



FILL THE ENGINE

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



⚠ IMPORTANT ⚠

Never use the platform with a damaged air filter unit. Replace it if there is any doubt about its condition.

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

Never use the platform without a dry air filter safety cartridge or if it is damaged. If there is doubt about its condition,

⏪ 1000H: REPLACE: DRY AIR FILTER SAFETY CARTRIDGE.

If there is doubt about the condition of the air intake line, the air suction outlet hose and hose clamps, ⏪ 1000H:

REPLACE: AIR INTAKE LINE AND AIR SUCTION OUTLET HOSE.

NB: The right and left turntable covers are open.

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

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

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

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

- Refit the air filter unit cover ②, the valve ③ facing downwards, the marking "TOP" facing upwards.



REPLACE

Turntable rotation motor oil

⚠ IMPORTANT ⚠

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

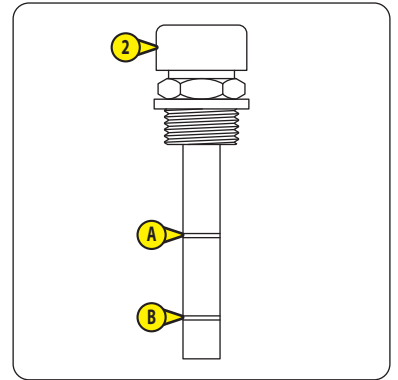
NB: The right and left turntable covers are open.

CHANGE THE OIL

- Place a drain tank under the drain plug ①.
- Remove the drain plug and the filler plug ②.
- Wait until the crankcase is completely drained.

FILL THE TURNTABLE ROTATION MOTOR

- Clean around the drain hole with a clean cloth.
- Refit the drain plug.
- Fill the turntable rotation motor with new oil, ⚡ LUBRICANTS AND FUEL.
- Clean the gauge on the filler cap with a clean cloth and put it back in place.
- Remove the filler cap. The level is correct when the oil is between the 2 marks ① and ②.
- If the level is low, add oil until the correct level is reached, ⚡ LUBRICANTS AND FUEL.
- Refit the filler cap.



REPLACE

Hydraulic pressure filter cartridge

⚠ IMPORTANT ⚠

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

NB: The right and left turntable covers are open.

Clean the outside of the hydraulic pressure filter ① with a clean cloth.

- Place a drain tank underneath.
- Replace the hydraulic pressure filter cartridge ②, ⚡ FILTER CARTRIDGES AND BELTS:
 - Unscrew the hydraulic pressure filter tank.
 - Remove the used hydraulic pressure filter cartridge.
 - Replace it with the new hydraulic pressure filter cartridge.
 - Put the hydraulic pressure filter tank back in place.
- Switch on the engine.
- Lift/lower the main arm and the jib for several minutes.
- Fully lower the main arm and the jib.
- Check for leaks.
- Close the right-hand turntable cover panel.
- Stop the engine. Switch off the power to the platform.



REPLACE

Hydrostatic transmission filter cartridge

⚠ IMPORTANT ⚠

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

NB: The left turntable cover is open.

- Clean the outside of the hydrostatic transmission filter **1** with a clean cloth.
- Place a drain tank underneath.
- Replace the hydrostatic transmission filter cartridge **2**, \triangleleft FILTER CARTRIDGES AND BELTS:
 - Unscrew the hydrostatic transmission filter tank.
 - Remove the used hydrostatic transmission filter cartridge.
 - Replace it with the new hydrostatic transmission filter cartridge.
 - Put the hydrostatic transmission filter tank back in place.
- Close the left-hand turntable cover.
- Switch on the engine.
- Drive the platform forwards and backwards for several minutes.
- Open the left-hand turntable cover.
- Check for leaks.
- Check the hydraulic oil level, \triangleleft 10H: CHECK: HYDRAULIC OIL LEVEL.
- Close the left-hand turntable cover.
- Stop the engine. Switch off the power to the platform.



RESET

Maintenance warning

\triangleleft 50H: RESET: MAINTENANCE WARNING.

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

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

CLEAN

Fuel tank

⚠️ IMPORTANT ⚠️

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

- Open the right-hand turntable cover.
- Locate the drain plug ① and put a drain container underneath.
- Open the flap ②.
- Remove the drain plug and the tank plug ③.
- Wait until the tank is completely drained.
- Rinse the tank with 10 litres of clean fuel, \leq LUBRICANTS AND FUEL.
- Clean around the drain hole with a clean cloth.
- Refit the drain plug.
- Fill the tank completely with clean fuel, \leq 10H: CHECK: FUEL LEVEL.
- Refit the tank cap and close the flap.
- Bleed the fuel supply circuit \leq OCCASIONAL MAINTENANCE.
- Close the right-hand turntable cover panel.



REPLACE

Dry air filter safety cartridge

⚠️ IMPORTANT ⚠️

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

- Open the left-hand turntable cover.
 - Follow the instructions described in 500H: REPLACE: DRY AIR FILTER CARTRIDGE and replace the dry air filter safety cartridge ⑤, \leq FILTER CARTRIDGES AND BELTS:
 - Remove the used dry air filter safety cartridge pulling it gently to prevent dust dispersion.
 - Block the outlet of the air filter unit with a clean cloth.
 - Clean the inside of the air filter unit with a clean, slightly damp cloth.
 - Remove the cloth from the air filter unit outlet.
 - Clean the seal of the new dry air filter safety cartridge with a clean cloth.
 - Put the new dry air filter safety cartridge in place by pushing it gently.
- NB: Do not press the centre of the dry air filter safety cartridge.



⚠ IMPORTANT ⚠

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

NB: The left turntable cover is open.

- Open the swivelling engine plate, ⚠ OCCASIONAL OPERATION.

DRAIN THE COOLANT

- Locate the drain plug **1** under the coolant radiator and put a drain container underneath.
- Remove the drain plug and the radiator cap **2**.
- Wait until the coolant has completely drained.

FILL THE COOLING CIRCUIT

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



⚠ IMPORTANT ⚠

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

CHANGE THE OIL

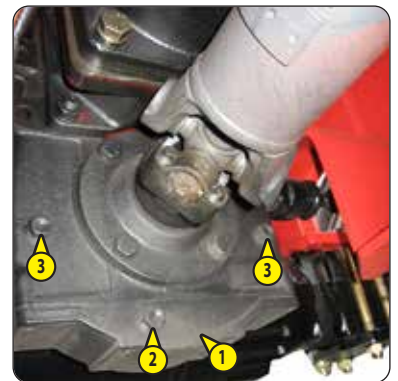
- Locate the reduction gearbox **1** on the rear axle.
- Clean the outside of the reduction gearbox with a clean cloth.
- Place a drain tank under the drain plug **2**.
- Remove the drain plug and the filler plug **3**.

NB: 2 filler caps (left and right sides).

- Wait until the reduction gearbox is completely drained.

FILL THE ENGINE REDUCTION GEARBOX

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



REPLACE

Front and rear axle differential oil

⚠ IMPORTANT ⚠


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

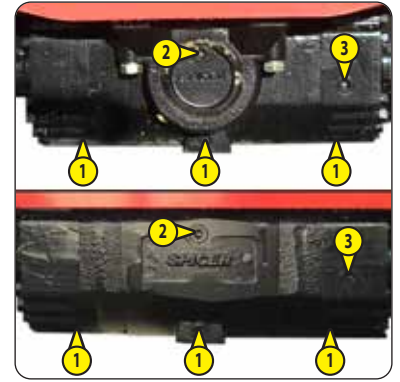
NB: Check the oil in the axle differentials one by one.

CHANGE THE OIL

- Clean the outside of the axle differential with a clean cloth.
- Place a drain tank under the 3 drain plugs ①.
- Remove the 3 drain plugs and the filler plug ②.
- Wait until the axle differential is completely drained.

FILL THE AXLE DIFFERENTIAL

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



REPLACE

Front and rear wheel reduction gear oil

⚠ IMPORTANT ⚠


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

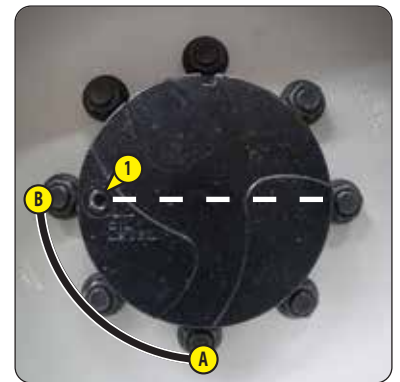
NB: Check the oil in the wheel reduction gears one by one.

CHANGE THE OIL

- Clean the outside of the gear reducer with a clean cloth.
- Turn the wheel to put the drain/filler plug ① in position ①.
- Place a drain tank underneath.
- Remove the drain/filler plug .
- Wait until the wheel reduction gear is completely drained.

FILL THE WHEEL REDUCTION GEAR

- Clean around the drain/filler hole with a clean cloth.
- Turn the wheel to put the drain/filler plug ① in position ②.
- Fill the wheel reduction gear with new oil,  LUBRICANTS AND FUEL. The level is correct when the oil reaches the rim of the filling hole.
- Refit the drain/filler plug:
 - Tightening torque = 42 N.m ± 7 N.m



⚠ 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.*

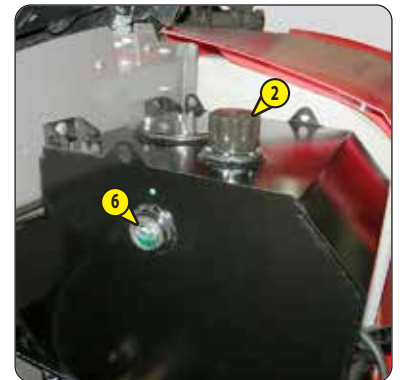
CHANGE THE OIL

- Open the right-hand turntable cover.
- Locate the drain plug ① and put a drain container underneath.
- Remove the drain plug and the tank plug ②.
- Wait until the tank is completely drained.



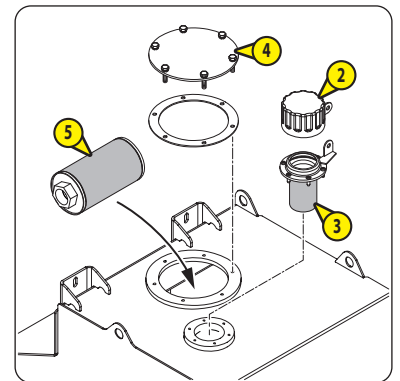
CLEAN THE FILLING FILTER AND SUCTION STRAINER

- Remove the filling filter ③.
- Clean it with compressed air, from the inside out:
 - Maximum pressure = 3 bars. Minimum distance = 30 mm.
- Check its condition. Replace it if necessary, FILTER CARTRIDGES AND BELTS.
- Refit the filling filter.
- Remove the panel ④.
- Remove the suction strainer ⑤ located inside the tank.
- Clean the suction strainer with compressed air, from the inside out.
 - Maximum pressure = 3 bars. Minimum distance = 30 mm.
- Check its condition. Replace it if necessary, FILTER CARTRIDGES AND BELTS.
- Put the suction strainer and the panel back in place.



FILL THE HYDRAULIC OIL TANK

- Refit the drain plug.
- Fill the tank with new hydraulic oil, LUBRICANTS AND FUEL. The level is correct when the oil reaches the red dot on the level indicator ⑥.
- Refit the tank cap.
- Switch on the engine.
- Use the platform controls for 10 minutes.
- Check for leaks.
- Place the platform in the transport position. Put the turntable and basket in neutral position. Fully lower the jib.
- Check the hydraulic oil level. The level is correct when the oil reaches the red dot on the level indicator.
- Add hydraulic oil if necessary.
- Close the right-hand turntable cover panel.
- Stop the engine. Switch off the power to the platform.



CHECK	Engine silent blocks *
CHECK	Engine speeds *
CHECK	Valve lash *
CHECK	Injectors *
CHECK	Hydrostatic transmission circuit pressure *
CHECK	Crown gear clearance *
CHECK	Condition of telescope cables *
CHECK	Speeds of hydraulic movements *
CHECK	Condition of cylinders *
CHECK	Condition of electric wiring *
REPLACE	Air intake line and air suction hose *
REPLACE	Hoses and hose clamps for the coolant radiator *
REPLACE	Injection pipes, fuel hoses and hose clamps *
RESET	Maintenance warning

⚠ 50H: RESET: MAINTENANCE WARNING.

** Contact your dealer.*

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

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

CHECK *Coolant, air and oil radiators **

CHECK *Water pump and thermostat **

CHECK *Injection pump **

CHECK *Alternator and starter **

CHECK *Turbocharger **

CHECK *Hydraulic circuit pressures **

CHECK *Hydraulic circuit flow rates **

CLEAN *Hydraulic oil tank **

RESET *Maintenance warning*

 50H: RESET: MAINTENANCE WARNING.

** Contact your dealer.*

5 6000H - PERIODIC SERVICE - EVERY 6,000 HOURS OF SERVICE OR 12 YEARS

REPLACE *Telescope cables*

Please contact your dealer.

REPLACE

Wheels

⚠ 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:

- Always use a suitable jack for lifting the platform.
- Make sure that the 2 wheels on the opposite side to the lift are chocked.
- Position the jack near the wheel to be raised.
- Always use suitable jack stands to secure the raised platform.

⚠ IMPORTANT ⚠

Weight of a wheel = 290 kg

NB: We recommend the use of the hydraulic jack (MANITOU Part No. 505507) and the safety jack stand MANITOU Part No. 554772.

- Loosen the wheel nuts slightly.
- Raise the platform.
- Remove the wheel nuts and the wheel.
- Put the new wheel in place.
- Refit the wheel nuts and tighten them slightly with a spanner.
- Lower the platform to the ground.
- Tighten the wheel nuts, ⚠ 50H: CHECK: WHEEL NUT TIGHTENING.



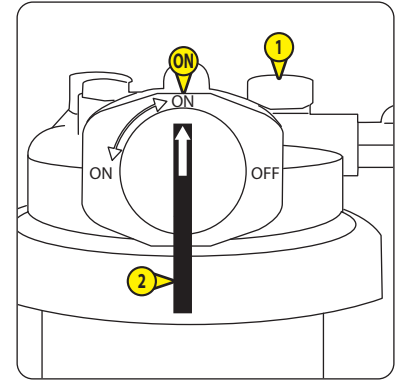
⚠ IMPORTANT ⚠

Never smoke or approach with a flame when the fuel supply circuit is being bled.

Always bleed the fuel supply circuit when:

- *The fuel tank has been drained and then filled.*
- *There has been a fuel breakdown and then the fuel tank has been filled.*
- *A component of the fuel supply circuit has been cleaned or replaced.*

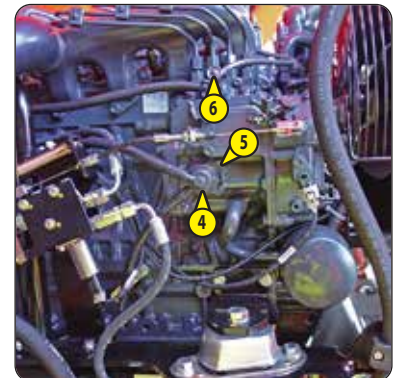
If the engine runs irregularly or stops after bleeding the fuel supply circuit, check the condition of the entire fuel supply circuit.

**BLEED THE FUEL FILTER**

- Open the left-hand turntable cover.
- Open the swivelling engine plate, ⚠ OCCASIONAL OPERATION.
- Place a drain tank under the fuel filter ① .
- Turn the tap ② to the position ON.
- Unscrew the bleeder screw ③ .
- Locate the fuel pump ④ .
- Action the manual pump ⑤ until fuel runs out of the bleeder screw.
- Continue pumping and tighten the bleeder screw.

BLEED THE INJECTION PUMP

- Locate the bleeder screw ⑥ and put a drain container underneath.
- Unscrew bleeder screw.
- Action the manual pump ⑤ until fuel runs out of the bleeder screw.
- Continue pumping and tighten the bleeder screw.
- Switch on the engine.
- Allow it to run for 5 minutes.
- Check for leaks.
- Stop the engine. Switch off the power to the platform.
- Close the swivelling engine plate, ⚠ OCCASIONAL OPERATION.
- Close the left-hand turntable cover.



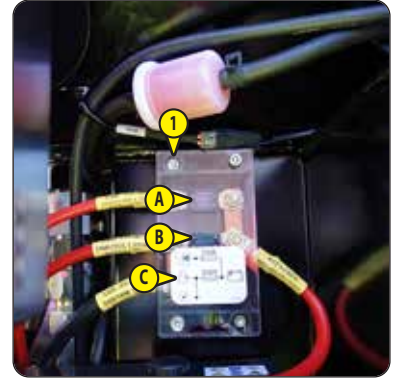
MAIN FUSE BOX

- Open the right-hand turntable cover.
- Locate the main fuse box ①.
- Remove the cover of the box.
- Replace the appropriate fuse:

Ⓐ	Backup pump	250 A fuse
Ⓑ	General power supply - up to machine no. 964802	250 A fuse
Ⓑ	General power supply - from machine no. 964803	350 A fuse

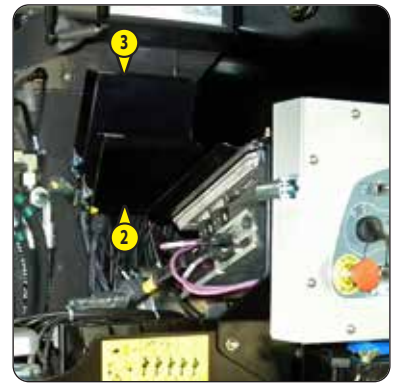
- Put the box cover back in place.
- Close the right-hand turntable cover panel.

NB: ⚠ STICKERS: POWER FUSES ③.



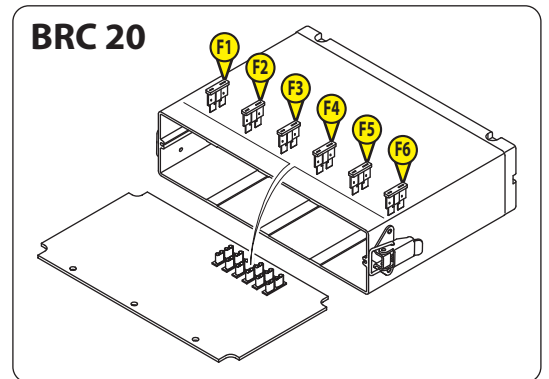
CONNECTION BOX FUSES/RELAYS BRC 20 AND BRC 30

- Open the right-hand turntable cover.
- Locate the connection boxes BRC 20 ② and BRC 30 ③.
- Unlock and remove the appropriate connection box cover.
- Only for BRC 30: Switch on the platform. Lights over the fuses ④ to ⑭ indicate their status:
 - On = the fuse is OK.
 - Off = the fuse is blown.
- Switch off the power to the platform.
- Replace the appropriate fuse/relay.
- Put the connection box cover back in place.
- Close the right-hand turntable cover panel.



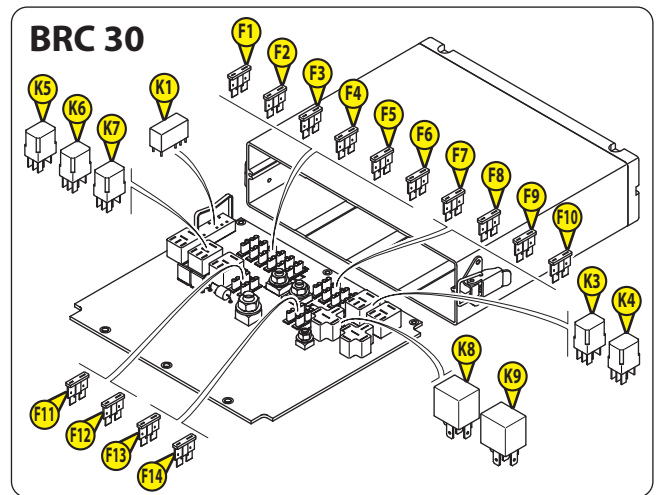
BRC 20:

④	ECU power supply (+BAT) UPC 20	25 A fuse
⑤	ECU power supply (+BAT) UPC 20	25 A fuse
⑥	Connection box power supply (+BAT) BRC 20	25 A fuse
⑦	Connection box power supply (+BAT) BRC 20	25 A fuse
⑧	ECU power supply (+BAT) UPC 20 and interface screen CEK 20	5 A fuse
⑨	Working light power supply (OPTION)	10 A fuse



BRC 30:

F1	Engine starter button	5 A fuse
F2	ECU power supply (+BAT) UPC 30	30 A fuse
F3	ECU power supply (+BAT) UPC 30	30 A fuse
F4	Backup pump power supply	10 A fuse
F5	ECU power supply (+BAT) UPC 110	5 A fuse
F6	Ignition switch	10 A fuse
F7	Engine starter power supply	30 A fuse
F8	Engine preheat power supply	30 A fuse
F9	Engine preheat power supply	30 A fuse
F10	ECU power supply (+BAT) UPC 110	5 A fuse
F11	Connection box power supply (-BAT) UPC 30	10 A fuse
F12	Connection box power supply (-BAT) BRC 30	30 A fuse
F13	Connection box power supply (-BAT) BRC 30	30 A fuse
F14	ECU power supply (-BAT) UPC 110	5 A fuse
K1	Overload safety	12 V relay
K3	Engine starter	12 V relay
K4	Engine immobiliser system (OPTION)	12 V relay
K5	Emergency stop	12 V relay
K6	Emergency stop	12 V relay
K7	Engine shut-down	12 V relay
K8	Engine preheat	12 V relay
K9	Engine preheat	12 V relay



USE

Swivelling engine plate

⚠ IMPORTANT ⚠

- Always use the handle **A** to open and close the swivelling engine plate.

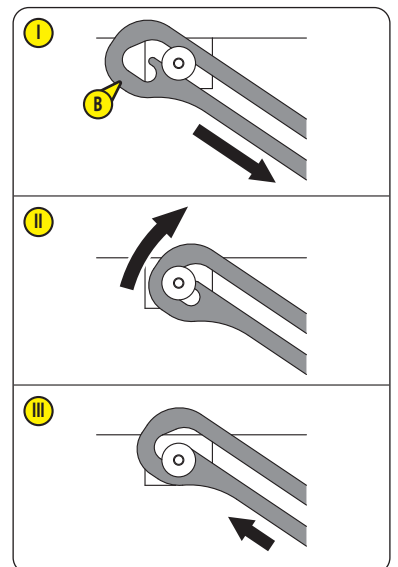
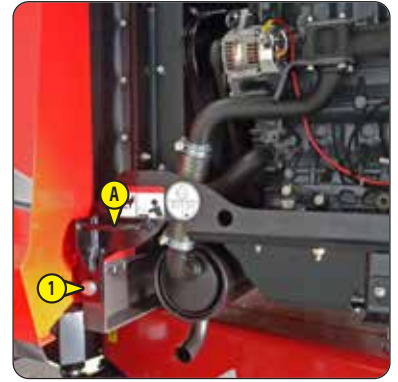
- Ensure the safety slide is in position **III** (swivelling engine plate locked) before working on the platform.

OPEN THE SWIVELLING ENGINE PLATE

- Open the left-hand turntable cover.
- Remove the screw, nut and washer **I**.
- Pull the handle **A** to pivot the engine plate.
- Locate the safety slide **B**.
- Ensure that the safety slide is correctly locked, refer to steps **I**, **II** and **III** in the illustration.

CLOSE THE SWIVELLING ENGINE PLATE

- Unlock the safety slide **B** in the reverse order of the procedure for locking it.
- Push on the handle **A** to refit the swivelling engine plate.
- Refit the screw, nut and washer **I**.
- Close the left-hand turntable cover.



⚠ IMPORTANT ⚠

It is forbidden to tow the platform.

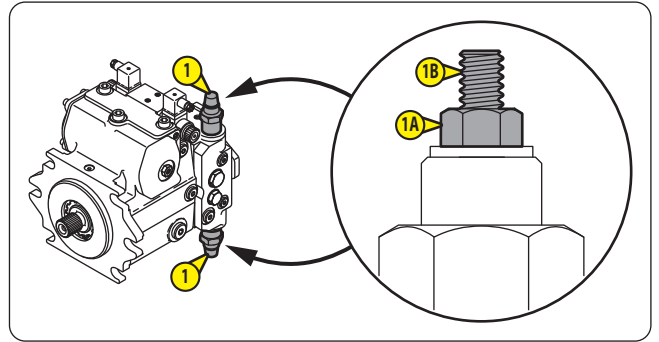
The platform should be winched in transport position. Winching the platform in working position is prohibited, 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.

Always use a suitable winch for winching the platform.

The basket must be empty when the platform is being winched.

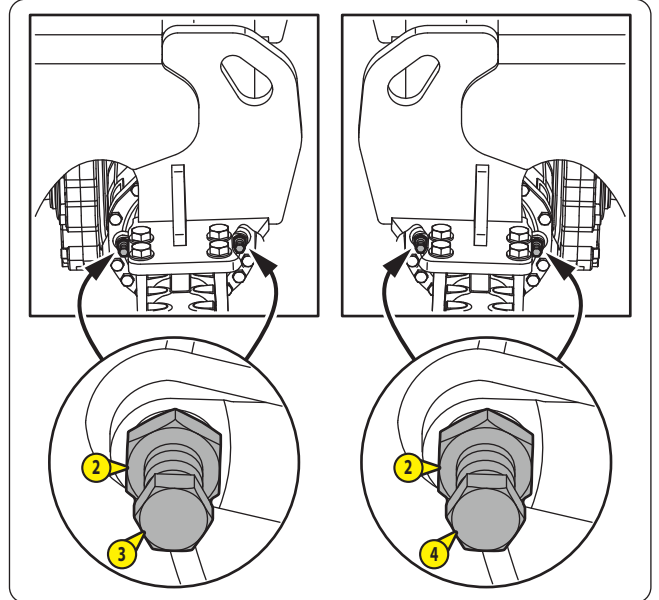
Before putting the platform into freewheel:

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



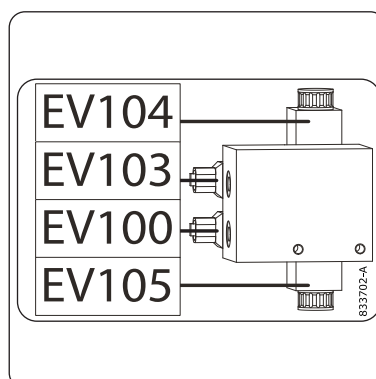
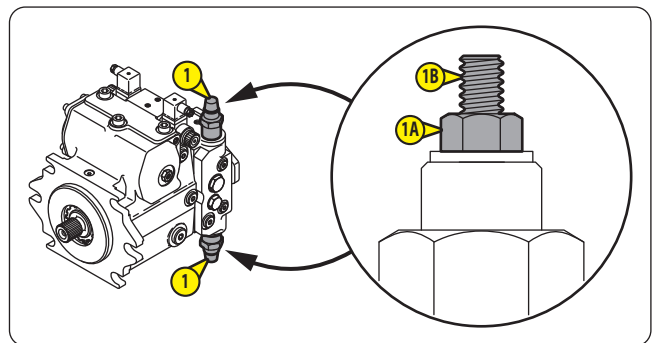
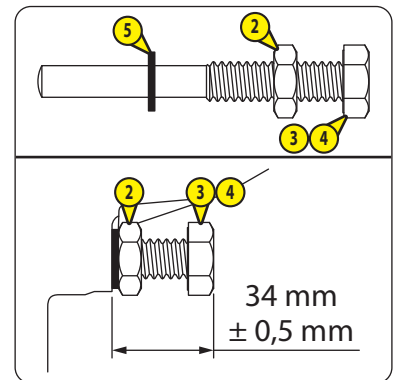
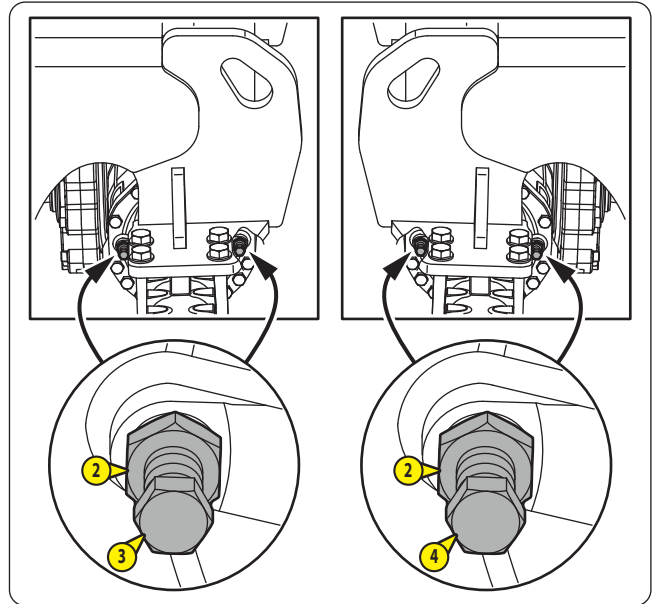
FREEWHEEL AND WINCH

- Attach the winch to the platform's anchorage points, 2 - DESCRIPTION: STICKERS: ANCHORAGE POINT.
- Bypass the hydrostatic circuit:
 - Open the left-hand turntable cover.
 - Locate the hydrostatic pump and the 2 pressure relief valves 1.
 - Unscrew the nuts 1A. Tighten the screws 1B to the hard spot and then tighten them a half turn more.
 - Tighten the nuts 1A: Tightening torque 22 N.m.
 - Close the left-hand turntable cover.
- Loosen the rear axle brakes:
 - Locate the 2 screws 3 and the 2 screws 4 to the left and right of the rear axle.
 - Loosen the 2 locknuts 2 by about 8 mm.
 - Tighten the screws 3 and 4 by hand to the hard spot.
 - Tighten the 2 screws alternately 3 by a quarter turn each time until you have gone all the way round.
 - Tighten the 2 screws alternately 4 by a quarter turn each time until you have gone all the way round.
- Disengage front axle brakes:
 - Do the same as for the rear axle.
- Make sure the route is free of any obstruction.
- Remove the wheel chocks.
- Winch the platform slowly.
- Chock the wheels when the platform is in the desired position.



RESTORING BRAKE FUNCTION

- Restore rear axle brake function:
 - Loosen the 2 screws alternately **3** by a quarter turn each time until you have gone all the way round.
 - Loosen the 2 screws alternately **4** by a quarter turn each time until you have gone all the way round.
 - Unscrew the 4 screws **3** and **4** completely.
 - Change the 4 seals **5**.
 - Lubricate the screws **3** and **4** with MANITOU BLACK MULTI-PURPOSE LUBRICANT (← LUBRICANTS AND FUEL) and put them back in place.
 - Adjust the distance between the body of the axles and the screw heads = 34 mm ±0.5 mm.
 - Tighten the 4 locknuts **2** and check the distances between the body of the axle and the screw heads.
 - Restore front axle brake function:
 - Do the same as for the rear axle.
 - Put the hydrostatic circuit back into action:
 - Open the left-hand turntable cover.
 - Unscrew the nuts **1A**. Loosen the screws **1B** up to the mechanical stop.
 - Tighten the nuts **1A**: Tightening torque 22 N.m.
 - Close the left-hand turntable cover.
 - Detach the winch and remove the wheel chocks.
 - Test the brakes:
 - Remove the right chassis cover.
 - Locate the coil EV100 on the hydraulic block **6**, ← 2 - DESCRIPTION: STICKERS: BRAKE BLOCK COILS. Disconnect it.
 - Start the engine and try to drive the platform forwards and backwards.
- Result: The platform should remain stationary.
- Reconnect the coil EV100.
 - Refit the right chassis cover.
 - Stop the engine. Switch off the power to the platform.



VERSION WITHOUT LIFTING POINTS

⚠ IMPORTANT ⚠

It is forbidden to lift the platform. The platform can be modified to fit it with lifting points on the turntable, TECHNICAL INFORMATION No. 2664.

FIRST VERSION WITH 2 LIFTING POINTS

⚠ IMPORTANT ⚠

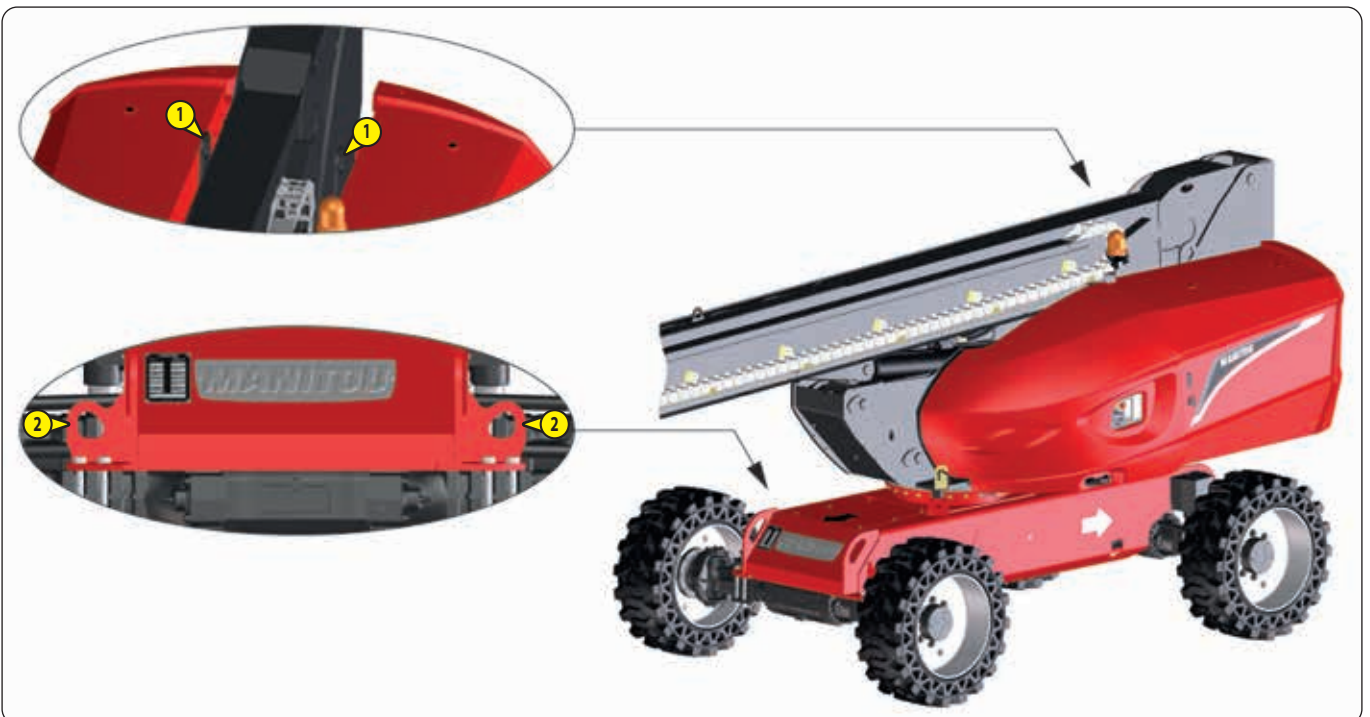
Only for platforms modified according to TECHNICAL INFORMATION No. 2664: Platforms fitted with 2 lifting points  on the turntable (no lifting points on the chassis at the rear of the platform, illustration ).



SECOND VERSION WITH 4 LIFTING POINTS

⚠ IMPORTANT ⚠

Only for platforms fitted with 2 lifting points  on the turntable and 2 lifting points  on the chassis at the rear of the platform.



FIRST VERSION WITH 2 LIFTING POINTS

⚠ IMPORTANT ⚠

The surface of the unloading/destination zone must be solid, level and even.

If the unloading/destination zone is a flatbed truck:

- *The flatbed truck must be stationary on firm, level ground.*
- *The wheels of the flatbed truck must be chocked.*

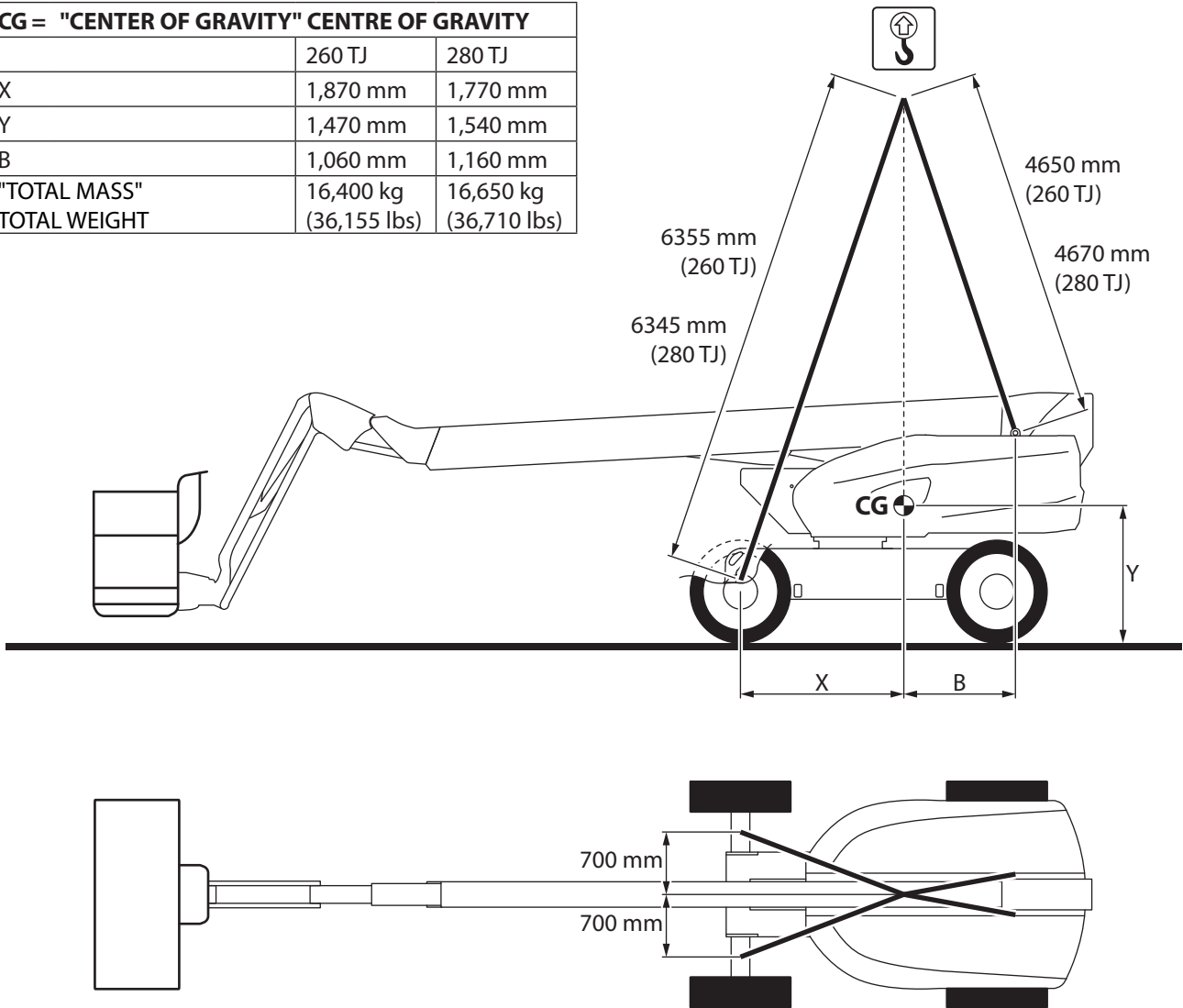
Make sure that the slings are solid enough to bear the weight of the platform.

Make sure that the lifting capacity of the crane is sufficient to bear the weight of the platform.

The turntable must be locked before the platform is lifted, ⚠ 2-DESCRIPTION: SAFETY COMPONENTS: TURNABLE LOCKING PIN.

Covers must be closed and locked (if applicable) while the platform is being lifted.

CG = "CENTER OF GRAVITY" CENTRE OF GRAVITY		
	260 TJ	280 TJ
X	1,870 mm	1,770 mm
Y	1,470 mm	1,540 mm
B	1,060 mm	1,160 mm
"TOTAL MASS"	16,400 kg	16,650 kg
TOTAL WEIGHT	(36,155 lbs)	(36,710 lbs)



- Mark out a large safety zone around the platform.
- Switch on the engine.
- Put the platform in transport position. Put the turntable and basket in neutral position, 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Fully lower the jib.
- Lock the turntable, 2 - DESCRIPTION: SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
- Stop the engine. Switch off the power to the platform. Remove the key.
- Attach slings to the 2 lifting points on the turntable, 2 - DESCRIPTION: STICKERS: LIFTING POINT.
- Attach the slings around the rear axle as shown in the illustration.
- Attach the slings at 1 point to the crane's lifting hook.
- Slowly raise the crane's lifting hook until the slings are moderately taut.
- If necessary, adjust the slings to prevent damage and keep the platform level.
- Make sure that there is nobody in the safety zone.
- Slowly lift the platform and move it to the destination zone.
- Slowly lower the platform until the 4 wheels are in contact with the destination surface.
- Lower the crane's lifting hook until the slings are no longer taut.
- Detach the slings.

NB: 2 - DESCRIPTION: STICKERS: LIFTING.

SECOND VERSION WITH 4 LIFTING POINTS

⚠ IMPORTANT ⚠

The surface of the unloading/destination zone must be solid, level and even.

If the unloading/destination zone is a flatbed truck:

- *The flatbed truck must be stationary on firm, level ground.*
- *The wheels of the flatbed truck must be chocked.*

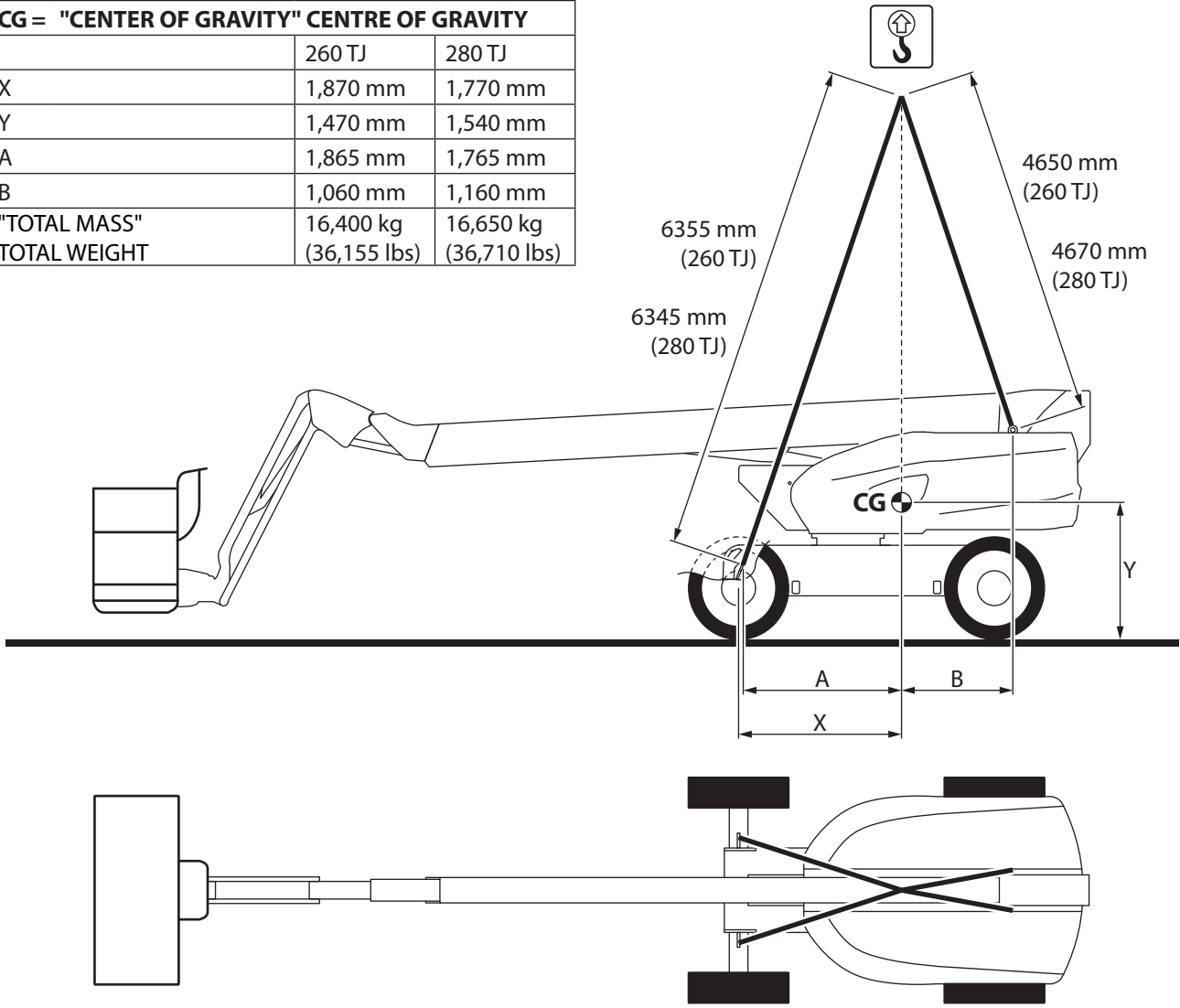
Make sure that the slings are solid enough to bear the weight of the platform.

Make sure that the lifting capacity of the crane is sufficient to bear the weight of the platform.

The turntable must be locked before the platform is lifted, ⚠ 2-DESCRIPTION: SAFETY COMPONENTS: TURNABLE LOCKING PIN.

Covers must be closed and locked (if applicable) while the platform is being lifted.

CG = "CENTER OF GRAVITY" CENTRE OF GRAVITY		
	260 TJ	280 TJ
X	1,870 mm	1,770 mm
Y	1,470 mm	1,540 mm
A	1,865 mm	1,765 mm
B	1,060 mm	1,160 mm
"TOTAL MASS"	16,400 kg	16,650 kg
TOTAL WEIGHT	(36,155 lbs)	(36,710 lbs)



- Mark out a large safety zone around the platform.
- Switch on the engine.
- Put the platform in transport position. Put the turntable and basket in neutral position, 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Fully lower the jib.
- Lock the turntable, 2 - DESCRIPTION: SAFETY COMPONENTS: TURNTABLE LOCKING PIN.
- Stop the engine. Switch off the power to the platform. Remove the key.
- Attach slings to the 4 lifting points, 2 - DESCRIPTION: STICKERS: LIFTING POINT.
- Attach the slings at 1 point to the crane's lifting hook.
- Slowly raise the crane's lifting hook until the slings are moderately taut.
- If necessary, adjust the slings to prevent damage and keep the platform level.
- Make sure that there is nobody in the safety zone.
- Slowly lift the platform and move it to the destination zone.
- Slowly lower the platform until the 4 wheels are in contact with the destination surface.
- Lower the crane's lifting hook until the slings are no longer taut.
- Detach the slings.

NB: 2 - DESCRIPTION: STICKERS: LIFTING.

◀ 2 - DESCRIPTION: TRANSPORTING THE PLATFORM.

4 - ATTACHMENTS

4 - ATTACHMENTS

PIPE SUPPORT *Part no. 52571261OPT* *4-4*

PANEL SUPPORT *Part No. 52571261OPT* *4-10*

INTRODUCTION

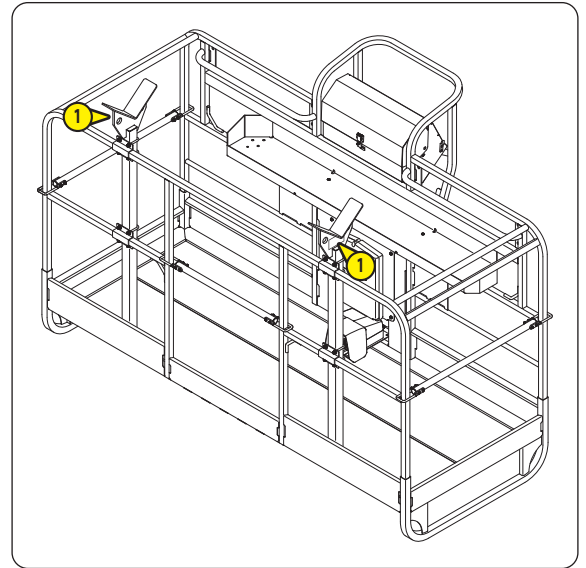
⚠ IMPORTANT ⚠

*The PIPE SUPPORT and the PANEL SUPPORT must not be installed at the same time on the same platform:
- Remove the PANEL SUPPORT to install the PIPE SUPPORT.
The PIPE SUPPORT must be installed or removed by qualified maintenance personnel.*

STICKERS

⚠ IMPORTANT ⚠

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

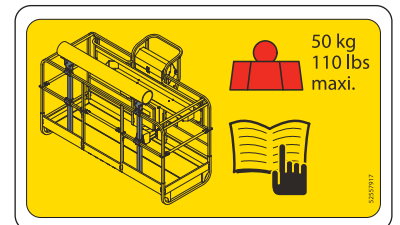


1 - PIPE SUPPORT STICKER

Part No. 52557917

Indicates the maximum permissible weight on the PIPE SUPPORT.

NB: 1 sticker on each support, total quantity = 2.



SPECIFICATIONS



The weight of the PIPE SUPPORT reduces the basket's maximum load capacity.

LOAD SPECIFICATIONS		260 TJ			±
Platform					
- Maximum load capacity in the basket: Nobody is in the basket, the PIPE SUPPORT is installed without any load on it	kg (lbs)	385 (848)			-
- Maximum number of people in the basket (indoor use/outdoor use)		1 / 1	2 / 2	3 / 3	-
- Maximum load capacity of the PIPE SUPPORT	kg (lbs)	50 (110)	50 (110)	50 (110)	-
- Remaining maximum load capacity of the basket depending on the number of people in the basket: The PIPE SUPPORT is installed with the maximum load on it	kg (lbs)	255 (562)	175 (385)	95 (209)	-

LOAD SPECIFICATIONS	280 TJ						±
	ZONE A*			ZONE B*			
Platform							
- Maximum load capacity in the basket: Nobody is in the basket, the PIPE SUPPORT is installed without any load on it	kg (lbs)	335 (738)			225 (496)		-
- Maximum number of people in the basket (indoor use/outdoor use)		1 / 1	2 / 2	3 / 3	1 / 1	2 / 2	-
- Maximum load capacity of the PIPE SUPPORT	kg (lbs)	50 (110)	50 (110)	50 (110)	50 (110)	50 (110)	-
- Remaining maximum load capacity of the basket depending on the number of people in the basket: The PIPE SUPPORT is installed with the maximum load on it	kg (lbs)	205 (451)	125 (275)	45 (99)	95 (209)	15 (33)	-

*:  2 - DESCRIPTION: DIMENSIONS AND DIAGRAM 280 TJ for definition of the zones.

⚠ IMPORTANT ⚠

Check the condition of all the components and stickers before any PIPE SUPPORT is installed. Replace them if necessary.

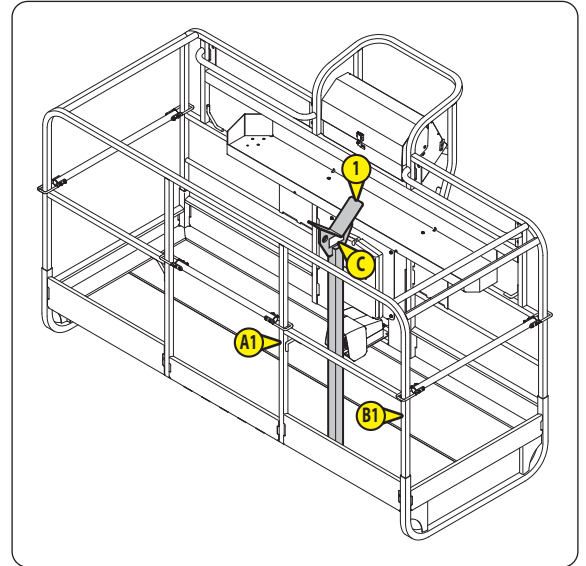
Replace the nuts ⑤ each time the PIPE SUPPORT is installed.

The supports ① must be fitted inside the basket and must be resting on the floor of the basket.

The supports ① must be fitted symmetrically on each side of the basket and must be perpendicular to the basket floor.

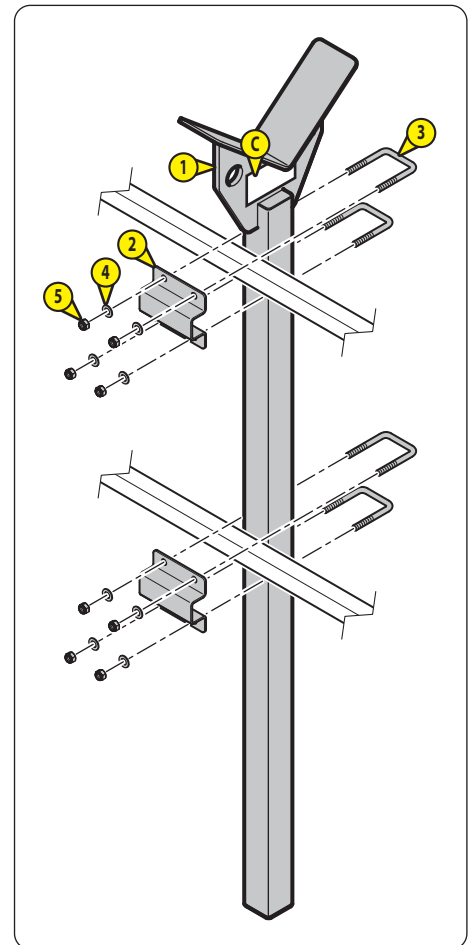
- Switch on the engine.
- Move the platform to a level surface.
- Put the platform in transport position. Put the turntable and basket in neutral position, $\sphericalangle 2$ - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Fully lower the jib.
- Stop the engine. Switch off the power to the platform.
- Put the first support ① inside the basket between the 2 vertical guardrails A1 and B1.

NB: Place the sticker C towards the outside.

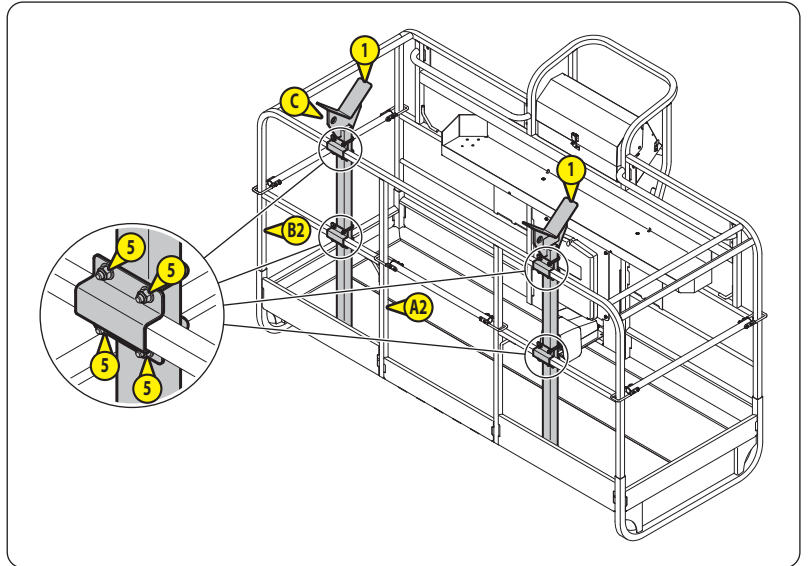


- Screw the first support ① to the basket using 2 flanges ② and fixing elements ③, ④ and ⑤.

NB: Tighten the nuts ⑤ by hand.



- Put the second support **1** inside the basket between the 2 vertical guardrails **A2** and **B2**.
NB: Place the sticker **C** towards the outside.
- Screw the second support **1** to the basket using 2 flanges **2** and fixing elements **3**, **4** and **5**, refer to the previous page.
- NB: Tighten the nuts **5** by hand.
- Adjust the distance between the 2 supports **1**.
- Tighten all the nuts **5** in a criss-cross fashion:
 - The nuts are correctly tightened when 2 threads of the U-bolts **3** are visible.



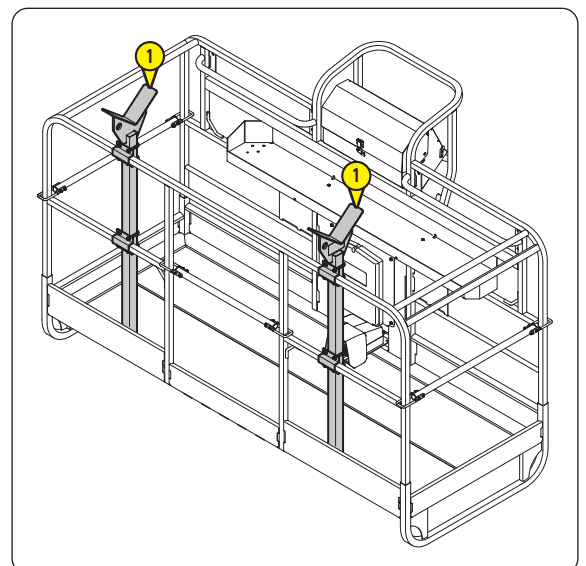
DISMANTLING

⚠ IMPORTANT ⚠

After each time the PIPE SUPPORT is dismantled:

- The nuts **5** must be replaced whenever the PIPE SUPPORT is installed, it is recommended to replace them with new ones for the next installation.
- Check the condition of all the other components and stickers. Replace them if necessary.
- Store the PIPE SUPPORT in a clean, dry place.

- Switch on the engine.
- Move the platform to a level surface.
- Put the platform in transport position. Put the turntable and basket in neutral position, 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Fully lower the jib.
- Stop the engine. Switch off the power to the platform.
- Unscrew the fixing elements **3**, **4** and **5**, refer to the previous page.
- Remove the 2 supports **1** and the 4 flanges **2**.
- Discard the nuts **5**.
- Store the PIPE SUPPORT with new nuts **5**.



⚠ IMPORTANT ⚠

The weight of the PIPE SUPPORT reduces the basket's maximum load capacity, \triangleleft SPECIFICATIONS.

Check that the PIPE SUPPORT is correctly adjusted, \triangleleft ADJUSTMENT.

The platform must be on a level surface and the basket must be level before pipes can be placed on the PIPE SUPPORT.

The length of the pipes should not be greater than the width of the basket.

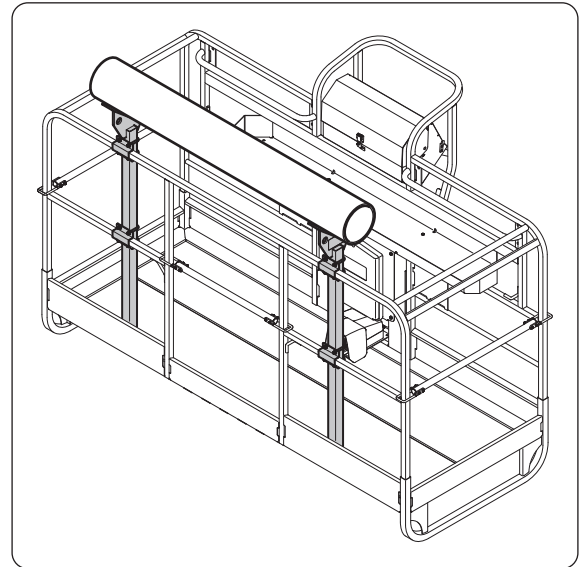
The pipes must be centred with the basket.

Make sure that the straps are solid enough to bear the weight of the pipes.

Make sure that the pipes are correctly attached with straps before the basket is lifted.

- Move the platform to a level surface.
- Put the platform in transport position. Put the turntable and basket in neutral position, \triangleleft 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Fully lower the jib.
- Make sure that the basket is level. If necessary, tilt the basket/jib upwards or downwards.
- If necessary, adjust the distance between the supports, \triangleleft ADJUSTMENT.
- Place one or more pipes on the PIPE SUPPORT.
- Attach the pipes to the supports using a strap on each side.

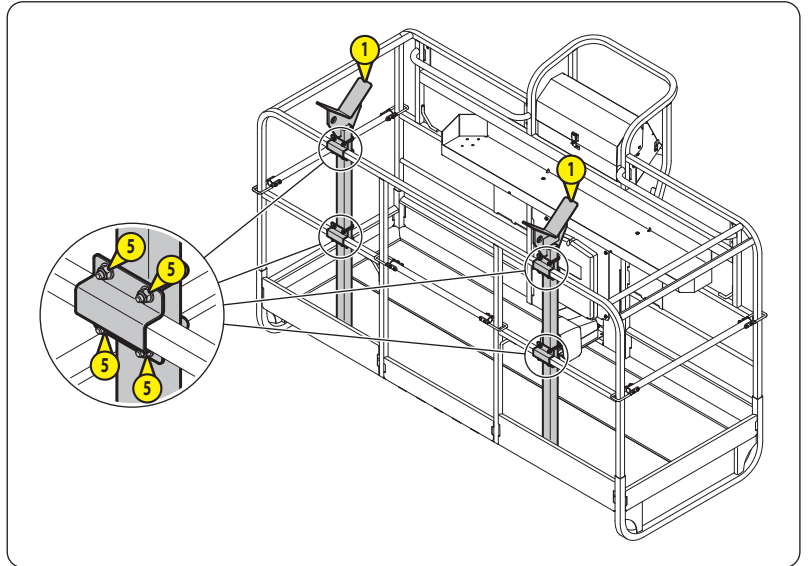
NB: The straps are not supplied with the PIPE SUPPORT.



⚠ IMPORTANT ⚠

The supports ① must be fitted inside the basket and must be resting on the floor of the basket.
The supports ① must be fitted symmetrically on each side of the basket and must be perpendicular to the basket floor.

- Move the platform to a level surface.
- Put the platform in transport position. Put the turntable and basket in neutral position, 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Fully lower the jib.
- Stop the engine. Switch off the power to the platform.
- Loosen the nuts ⑤ slightly.
- Adjust the width between the 2 supports ①.
- Tighten all the nuts ⑤ in a criss-cross fashion:
 - The nuts are correctly tightened when 2 threads of the U-bolts ③ are visible.



INTRODUCTION

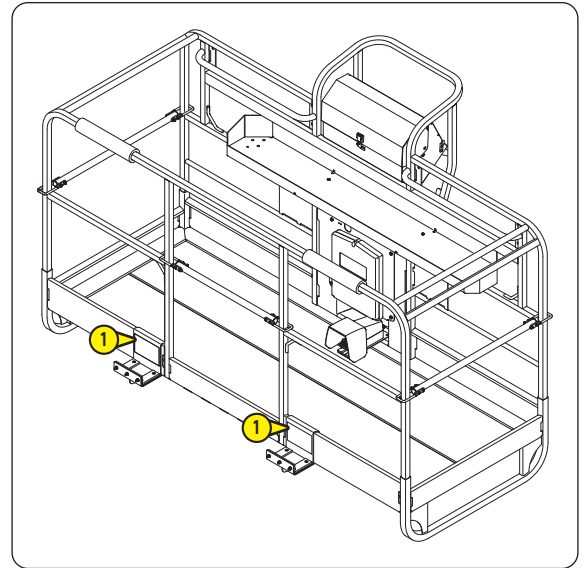
⚠ IMPORTANT ⚠

*The PIPE SUPPORT and the PANEL SUPPORT must not be installed at the same time on the same platform:
 - Remove the PIPE SUPPORT to install the PANEL SUPPORT.
 The PANEL SUPPORT must be installed or removed by qualified maintenance personnel.*

STICKERS

⚠ IMPORTANT ⚠

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

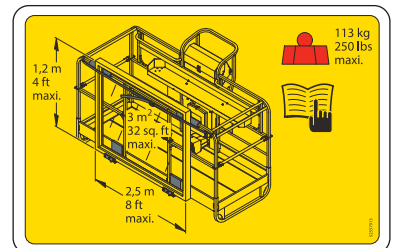


1 - PANEL SUPPORT STICKER

Part No. 52557913

Indicates the maximum permissible weight on the PANEL SUPPORT and the maximum permissible dimensions of the panel(s).

NB: 1 sticker on each support, total quantity = 2.



SPECIFICATIONS



The weight of the PANEL SUPPORT reduces the basket's maximum load capacity.

LOAD SPECIFICATIONS		260 TJ			±
Platform					
- Maximum load capacity in the basket: Nobody is in the basket, the PANEL SUPPORT is installed without any load on it	kg (lbs)	390 (860)			-
- Maximum number of people in the basket (indoor use/outdoor use)		1 / 1	2 / 2	3 / 3	-
- Maximum load capacity of the PANEL SUPPORT.	kg (lbs)	113 (250)	113 (250)	113 (250)	-
- Remaining maximum load capacity of the basket depending on the number of people in the basket: The PANEL SUPPORT is installed with the maximum load on it	kg (lbs)	197 (434)	117 (258)	37 (81)	-

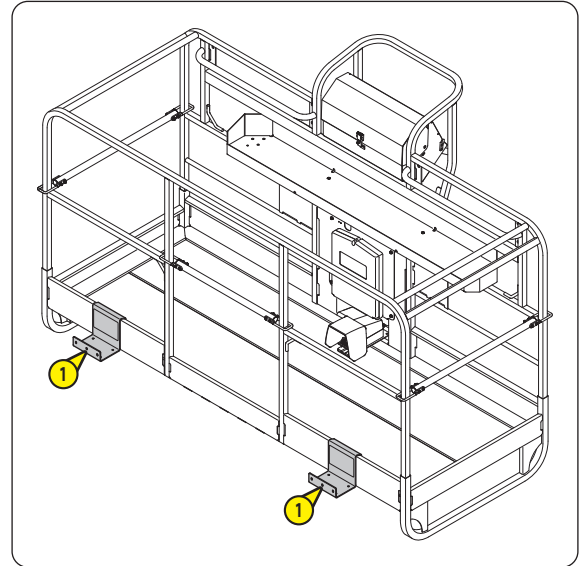
LOAD SPECIFICATIONS		280 TJ					±
		ZONE A*			ZONE B*		
Platform							
- Maximum load capacity in the basket: Nobody is in the basket, the PANEL SUPPORT is installed without any load on it	kg (lbs)	340 (749)			230 (507)		-
- Maximum number of people in the basket (indoor use/outdoor use)		1 / 1	2 / 2	3 / 3	1 / 1	2 / 2	-
- Maximum load capacity of the PANEL SUPPORT.	kg (lbs)	113 (250)	113 (250)	100 (220)	113 (250)	70 (154)	-
- Remaining maximum load capacity of the basket depending on the number of people in the basket: The PANEL SUPPORT is installed with the maximum load on it	kg (lbs)	147 (324)	67 (147)	0 (0)	37 (81)	0 (0)	-

*: 2 - DESCRIPTION: DIMENSIONS AND DIAGRAM 280 TJ for definition of the zones.

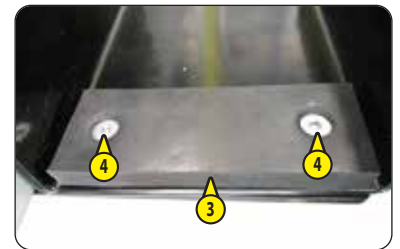
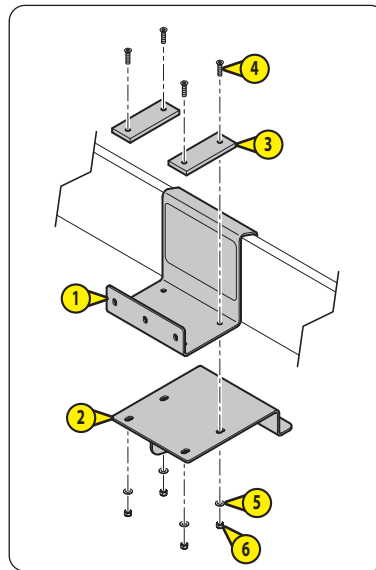
⚠ IMPORTANT ⚠

*Check the condition of all the components and stickers before any PANEL SUPPORT is installed. Replace them if necessary.
 Replace the nuts ⑥ and ⑬ each time the PANEL SUPPORT is installed.
 The configurations ① and ② are the only ones authorised.
 Always use the original strap supplied with the PANEL SUPPORT.*

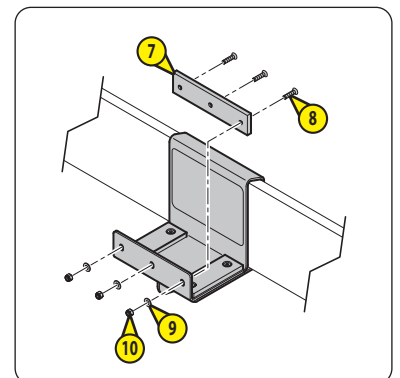
- Switch on the engine.
- Move the platform to a level surface.
- Put the platform in transport position. Put the turntable and basket in neutral position, 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Raise the jib until the basket floor is about 1.2 m (4 ft) from the ground.
- Stop the engine. Switch off the power to the platform.
- Position the 2 supports ① on the base boards on either side of the basket.



- Screw the 2 supports ① to the basket using the flanges ②, the pads ③ and the fixing elements ④, ⑤ and ⑥:
 - The nuts are correctly tightened when the screw heads ④ are recessed into the pads by approximately 2.5 mm (2 screw threads ④ must be visible).



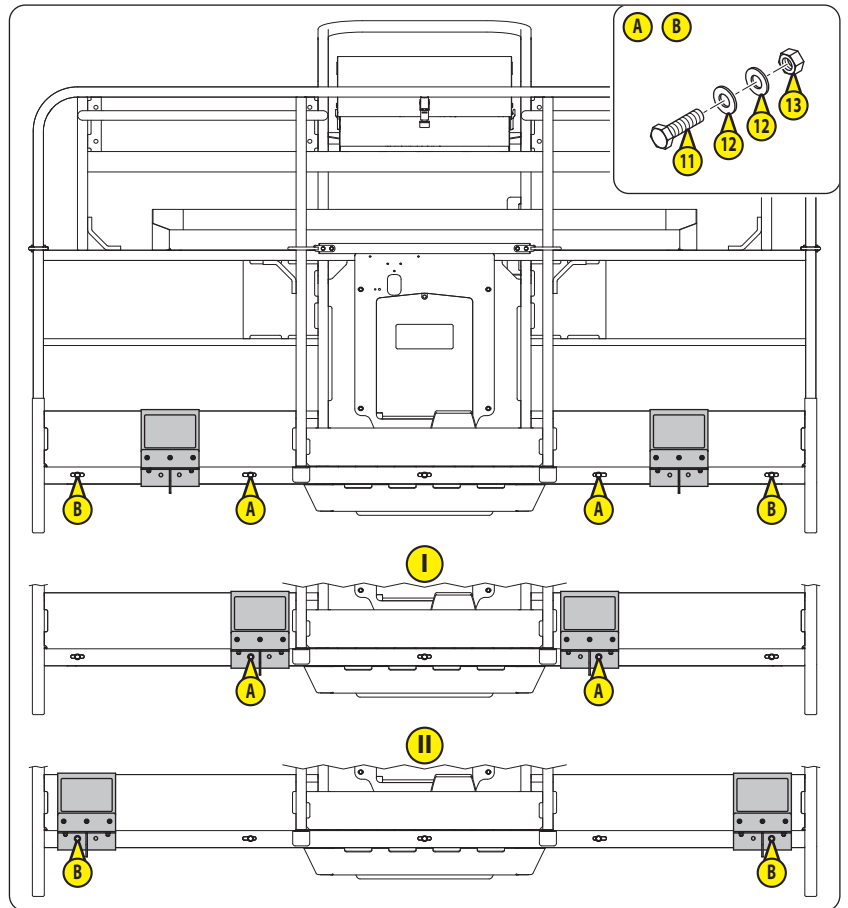
- If the pads ⑦ are not in place, screw them using the fixing elements ⑧, ⑨ and ⑩:
 - Tightening torque = 8.2 N.m ± 1.6 N.m



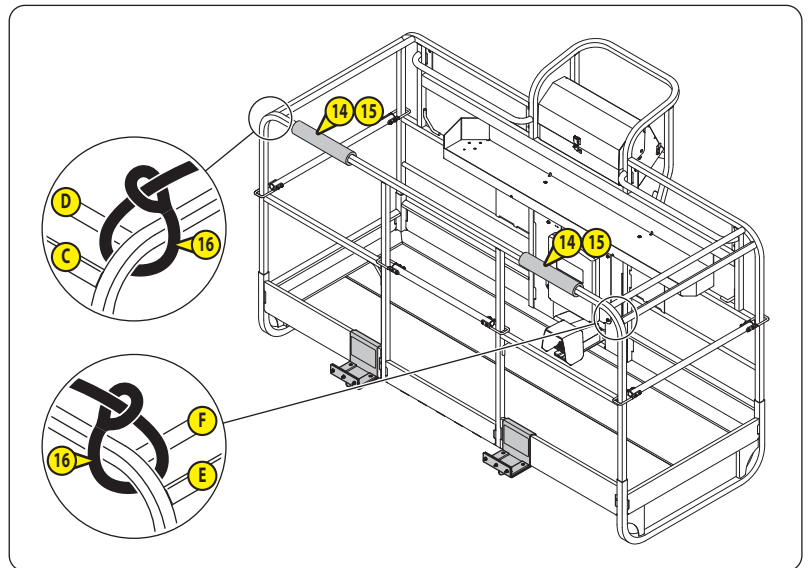
- Choose one of the 2 configurations:

CONFIGURATION	I	II
Minimum panel width	m (ft) 1.2 (4)	2.2 (6.5)
Maximum panel width	m (ft) 2.5 (8)	
Maximum panel height	m (ft) 1.2 (4)	

- Unscrew the fixing elements **A** or **B** (screws **11**, washers **12** and nuts **13**) depending on the configuration chosen.
- Discard the nuts **13**.
- Move and screw the 2 supports using the fixing elements **A** or **B**, replace the nuts **13** with new ones:
 - Tightening torque = 20 N.m ± 4 N.m



- Switch on the engine.
- Fully lower the jib.
- Stop the engine. Switch off the power to the platform.
- Install the foam profiles **14** and the sleeves **15**.
- Attach the strap **16** provided between the 2 guardrails **C** and **D** and between the 2 guardrails **E** and **F**.



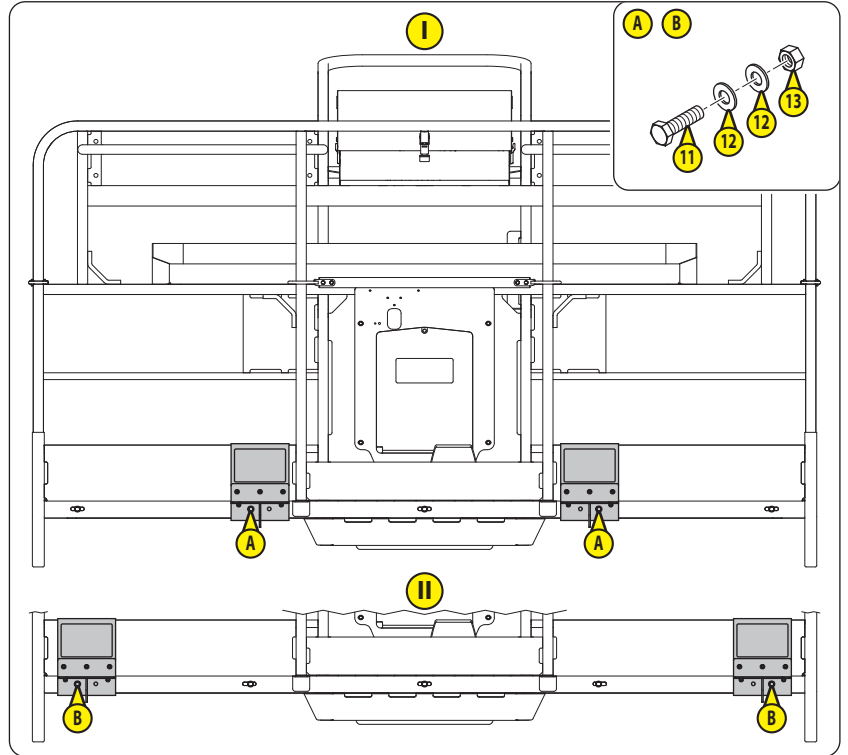
⚠ IMPORTANT ⚠

Replace the nuts **13** each time the PANEL SUPPORT is dismantled.

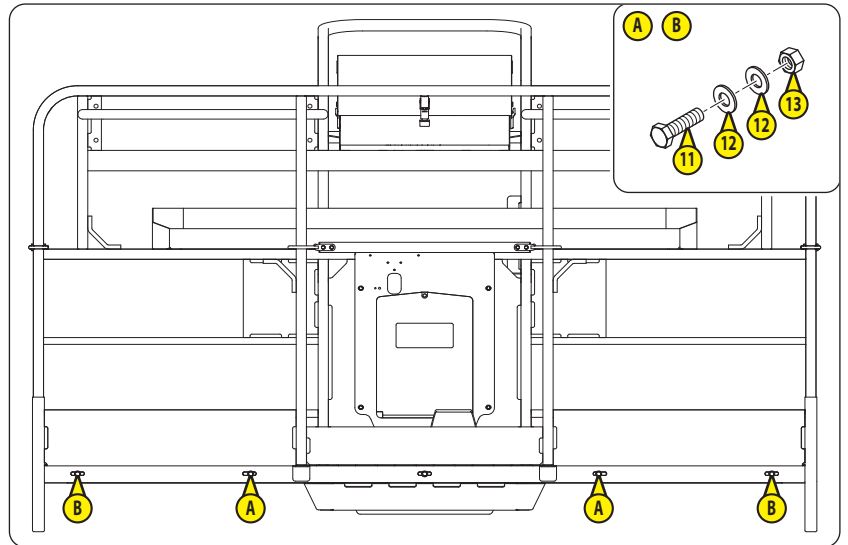
After each time the PANEL SUPPORT is dismantled:

- The nuts **6** and **13** must be replaced whenever the PANEL SUPPORT is installed, it is recommended to replace them with new ones for the next installation.
- Check the condition of all the other components and stickers. Replace them if necessary.
- Store the PANEL SUPPORT in a clean, dry place.

- Switch on the engine.
- Move the platform to a level surface.
- Put the platform in transport position. Put the turntable and basket in neutral position, 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
- Raise the jib until the basket floor is about 1.2 m (4 ft) from the ground.
- Stop the engine. Switch off the power to the platform.
- Unscrew the fixing elements **A** or **B** (screws **11**, washers **12** and nuts **13**) depending on the configuration **I** or **II**.
- Unscrew the fixing elements **4**, **5** and **6**, INSTALLATION.
- Remove the 2 supports **1**, the 2 flanges **2** and the 4 pads **3**, INSTALLATION.
- Discard the nuts **6** and **13**.



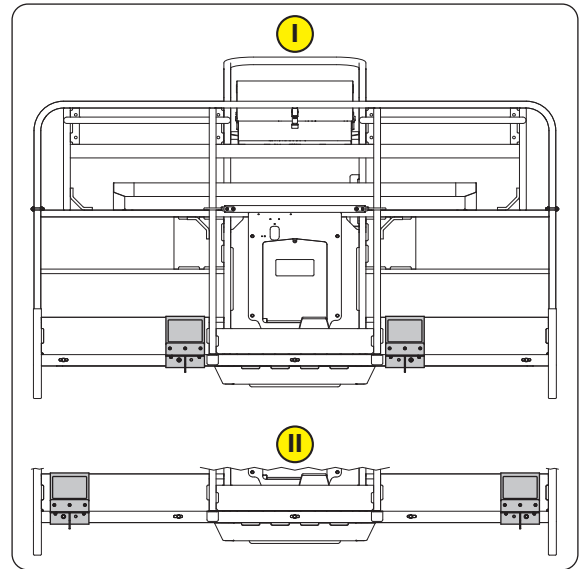
- Refit the fixing elements **A** or **B** (screws **11**, washers **12** and nuts **13**), replace the nuts **13** with new ones:
 - Tightening torque = 20 N.m ± 4 N.m
- Store the PANEL SUPPORT with new nuts **6** and **13**.



⚠ IMPORTANT ⚠

The weight of the PANEL SUPPORT reduces the basket's maximum load capacity, \triangleleft SPECIFICATIONS.
 The configurations ① and ② are the only ones authorised, \triangleleft INSTALLATION to change the configuration.
 The platform must be on a level surface and the basket must be level before panels can be placed on the PANEL SUPPORT.
 The panels must be centred with the basket.
 Make sure that the panels are correctly attached with the strap before the basket is lifted.

CONFIGURATION		①	②
Minimum panel width	m (ft)	1.2 (4)	2.2 (6.5)
Maximum panel width	m (ft)	2.5 (8)	
Maximum panel height	m (ft)	1.2 (4)	



- Move the platform to a level surface.
 - Put the platform in transport position. Put the turntable and basket in neutral position, \triangleleft 2 - DESCRIPTION: PLATFORM OPERATION: TRANSPORT/WORKING POSITION.
 - Lift or lower the jib to put the PANEL SUPPORT at a comfortable height.
 - Make sure that the basket is level. If necessary, tilt the basket/jib upwards or downwards.
 - Place one or more panels on the PANEL SUPPORT.
 - Attach the panels to the basket using the strap.
- NB: The strap is supplied with the PANEL SUPPORT.

