MANITOU

HANDLING YOUR WORLD

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(EUROPEAN UNION)

OPERATOR'S MANUAL
(ORIGINAL MANUAL)

SE 0808 S1
SE 1008 S1

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EXPLANATION OF SYMBOLS

⚠ DANGER

Indicates an imminent hazardous situation which, if not avoided will result in death or serious injury.

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury.

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor injury or damage to property. It is also used to warn users of unsafe practices.

NOTICE

Indicates a practice not related to a physical injury which, if not avoided, may damage the machine.

Indicates a message to draw attention to important information regarding environmental protection.

Indicates special tools for performing a task.

Indicates the value of tightening torque to be applied.

Indicates the weight of an item.
e.g. it helps to anticipate an action linked to a person's health or the choice of lifting equipment.

1. SAFETY

1.1. FOREWORD

1.1.1 INTENDED USE OF THE MACHINE

This machine is a type 3a MEWP (mobile elevating work platform).

This machine is designed to transport and lift personnel with their tools and materials to an aerial work site.

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

1.2. INSTRUCTIONS TO THE COMPANY MANAGER

1.2.1 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.

1.2.2 OPERATOR

⚠ DANGER

Employers are responsible for ensuring that all operators are familiar with this machine before operating it.
Only qualified, trained and authorized personnel can operate this machine.

⚠ DANGER

This machine must always be operated with an operator present on the ground.
The operator on the ground must be qualified, trained and authorized to operate this machine and the rescue controls.

⚠ WARNING

Experience has shown that there are a number of inappropriate ways in which the machine might be operated.
Such foreseeable misuse, of which the main examples are listed below, is strictly prohibited:

- The foreseeable abnormal behavior resulting from ordinary negligence, but which does not result from any wish to put the machinery to any improper use.
- The reflex behavior of a person in the event of a malfunction, incident, fault, etc. during the operation of the machine.
- Behavior resulting from application of the "principle of least effort" when performing a task.
- The foreseeable behavior of some people such as: apprentices, teenagers, disabled people, 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 facility manager must take these criterias into account when assessing the driving aptitude of a person.

Authorization to operate the machine is given in writing by the facility manager and must be carried by the operator at all times.

Inform yourself about:

- *The behavior during a fire.*
- *The nearest first aid kit and fire extinguisher.*
- *The phone numbers for calling emergency services (doctors, ambulance, hospital and fire brigade).*

1.2.3 MACHINE OPERATION SUITABILITY

MANITOU has ensured that this machine is suitable for operation under the standard operating conditions defined in this operator's manual, with an OVERLOAD TEST coefficient of 1.25 and a FUNCTIONAL TEST coefficient of 1.1, as stipulated in the harmonized standard EN 280 for MEWP (Mobile Elevating Work Platform).

Before commissioning, the facility manager must make sure that the machine is appropriate for the work to be done, and perform certain tests (in accordance with applicable legislation).

1.2.4 ADAPTATION OF THE MACHINE TO NORMAL ENVIRONMENTAL CONDITIONS

⚠ WARNING

Machines with heat engines are designed for outdoor operation under normal atmospheric conditions and indoor operation in correctly aerated and ventilated premises.
Machines with an electrical power supply are designed for outdoor operation under normal atmospheric conditions and for indoor operation.
It is prohibited to operate the machine in areas which presents a risk of fire or which are potentially explosive (e. g. refineries, fuel or gas depots, stores of flammable products, etc.).
Specialized equipment are available when operating in these areas (ask your dealer for information).

NOTICE

Lubricants are topped up in the factory for operation in average weather conditions, i.e.: -15°C to +35°C.
For operation under more severe climatic conditions, before starting up, drain all circuits then fill using lubricants suitable for the ambient temperatures.
The same applies to the coolant.

In addition to standard equipment fitted on your machine, many options are available, such as: rotating beacon light, worklight, etc. Consult your dealer.

Take into account the climatic and atmospheric conditions of the operation site. Consult your dealer for the suitability of lubricants and frost protection.

Preventing fire risks associated with operation in dusty and flammable atmospheres.

A machine operating in an area without fire extinguishing equipment must be equipped with an individual extinguisher. Solutions exist, consult your dealer.

1.2.5 MODIFICATION OF THE MACHINE

⚠ WARNING

Risk of losing the stability of the machine:

- Depending on the model, your machine may be fitted with standard wheels or all-terrain wheels. Changing from one type of wheel to the other Is PROHIBITED .
- ELECTRIC MACHINES: Replacing the batteries with lighter batteries is PROHIBITED.

NOTICE

Replacing machine components with components not approved by Manitou (batteries, wheels, basket, etc.) is strictly prohibited.
Modifying the structure and settings of the various components of your machine (hydraulic pressure, taring of limiters, engine speed, sensors, addition of extra equipment, addition of counterweights, unapproved and unauthorized attachments, alarm systems, etc.) yourself is strictly prohibited. In this case, the manufacturer cannot be held responsible.

1.2.6 OPERATOR'S MANUAL

The operator's manual must always be in good condition, in the language of the operator and placed in the storage compartment in the platform.

You must replace the operator's manual, as well as any plates or decals, if they are no longer legible, missing or damaged.

1.2.7 MAINTENANCE

Refer to the MAINTENANCE chapter.

NOTICE

Your machine must be periodically inspected to ensure its continued compliance.
The frequency of this inspection is defined by the legislation in force in the country in which the machine is used.

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

Example for France: the manager of the establishment using a machine must open and maintain a maintenance log for each machine (Decree dated March 2, 2004).

1.3. INSTRUCTIONS FOR THE OPERATOR

1.3.1 PREAMBLE

⚠ WARNING

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 this instruction manual.
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 maneuvers described in these operator's manual must be performed. The manufacturer cannot predict all possible risky situations. Consequently, the safety instructions given in the operator's manual and on the 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 when you use it.

1.3.2 OPERATOR'S MANUAL

NOTICE

Carefully read and understand this operator's manual before operating this machine.

The operator's manual must always be in good condition, in the language of the operator and placed in the storage compartment in the platform.

You must replace the operator's manual, as well as any plates or decals, if they are no longer legible, missing or damaged.

Any operations or maneuvers not described in the operator's manual are proscribed.

Follow the safety advice and the instructions described on the machine's decals.

For safety reasons, the presence of a user on the ground is mandatory when operating the machine.

Familiarize yourself with the machine on the ground where it will be operated.

The machine must also be operated in accordance with the professional standards.

Do not operate the machine if the wind speed is over 45 km/h (12,5 m/s).

Do not push or pull structures or similar elements located outside the platform. The maximum allowable manual force is indicated in CHARACTERISTICS and on one or more decals located in the platform.

Machines intended exclusively for indoor use must not be operated outside buildings.

1.3.3 AUTHORIZATION FOR DRIVING IN FRANCE

This machine is not approved for use on public roads.

Only qualified, authorized personnel can use the machine. This authorization 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 cleared to authorize the driving of the machine by another person.

Refer to the legislation in force for other countries.

1.3.4 MAINTENANCE

⚠ WARNING

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.
For electrically powered machines, the operator must ensure:

- Safety goggles are always worn when charging the batteries.
- The batteries are not charged in an explosive environment.
- Do not smoke or direct a naked flame directed towards the batteries during handling phases (removal/refitting) and when monitoring filling levels.
- Do not leave the battery charger connected during a lightning storm.

The operator must carry out daily maintenance (see: Maintenance) before using the machine in its place of work.

If the operator observes that his machine is not in good working order or does not comply with the safety instructions must inform his manager of this immediately.

The operator is prohibited from carrying out any repairs or adjustments himself, unless he has been trained for this purpose. He must keep his machine perfectly clean if he is responsible for this task.

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 high-risk materials are likely to accumulate.

The operator must ensure that the wheels are appropriate for the type of ground or the ground contact surface (see: Technical characteristics and description). Optional solutions are available, please consult your dealer.

1.3.5 MODIFICATION OF THE MACHINE

See: Instructions to the company manager

See: Modification of the machine

1.3.6 SUSPENSION

Machines without an oscillating axle (depending on the model)

NOTICE

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

Machines with an oscillating axle (depending on the model)

NOTICE

The oscillating axle enables the machine to have a ground reach on four wheels in the transport position (within the limit of axle oscillation).
When moving in the working position, the oscillating axle is locked (the chassis is rigid) so the platform can only be load bearing on three wheels.

1.3.7 SAFETY DEVICES

This machine is equipped with specific safety devices that could restrict its operation depending on the circumstances (see: Machine operation), including:

- Platform overload.
- Tilting of the chassis over the authorized limits.
- Locking fault of the oscillating axle (according to model).
- Loose or cut telescopic boom cable (according to model).
- Opening of machine compartments and/or covers (according to model).

1.3.8 BEFORE USING THE MACHINE

Perform the daily service (see: Maintenance)

1.3.9 DRIVER'S CAB PROVISIONS

MANITOU strongly recommends wearing a safety harness attached to an attachment point in the platform (see: Description).

Wearing a safety harness or other personal protection equipment against falls may be compulsory. Comply with local, government and national regulations in force, employer's safety rules and work site regulations .

The safety harness or other personal protection equipment against falls must comply with local, government, and national regulations in force. They must be inspected in accordance with the regulations in force.

Safety helmets must be worn.

The machine must not be fitted with unauthorized attachments that increase the windage of the assembly.

Do not use ladders or improvised structures on the platform to gain extra height.

Do not climb onto the rails of the platform to gain extra height.

Do not enter or exit the platform unless it is fully lowered.

Always enter and exit the platform through the gate or using the sliding intermediate cross members (depending on the model).

Always enter and exit facing the interior of the platform.

Always use both hands and one foot or both feet and one hand to enter and exit the platform.

Make sure that the sliding intermediate cross members (depending on the model) are in the lower position and that the gate is properly closed (depending on the model) before using this machine.

Do not attach the sliding mid rails in the high position.

Wear suitable clothing for driving the platform; do not wear baggy clothes.

Never use the machine with hands or shoes that 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 his normal position in the driver's cab: it is prohibited to have arms or legs, or generally any part of the body, outside the platform.

The control units must never in any circumstances be used for any other purposes than those intended (e.g. getting in or out of the platform, davits, etc.).

Whatever his experience, the operator must familiarize himself with the position and use of the control panels before putting the machine into service.

1.3.10 ENVIRONMENT

⚠ DANGER

Operating the machine close to power lines is forbidden. Respect the safety distances. You must consult your local electrical supplier. You could be electrocuted or seriously injured if you operate or park the machine too close to power lines.
If the machine is in contact with power lines, push in the emergency stop button.
Call for help, warn people on the ground not to touch the machine, and ask them to switch off the power supply to the cables or have it switched off.

⚠ WARNING

Do not operate this machine during thunderstorms, snowstorms, periods of frost, or in hazardous weather conditions. In the event of strong wind exceeding 45 km/h, do not make any movements which can compromise the machine stability. Comply with worksite safety rules.

NOTICE

If the platform must remain stationary over a structure for a long period, there is a risk that the platform will lower and rest on this structure due to the oil cooling in the cylinders or a minor leak in the cylinder locking system. To avoid this risk, regularly check the distance between the platform and the structure, readjust if necessary.
If possible operate the machine at an oil temperature as close as possible to the ambient temperature

The machine can be maneuvered from the ground: ensure that you forbid access.

If you have to operate the machine in a dark area or work at night, make sure it is equipped with worklights.

The machines cannot 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 structure is strictly forbidden.

When operating, ensure that there is no one or anything disturbing the machine operation.

When raising the platform, ensure that no one or anything disturbs the machine operation and do not perform any inappropriate maneuvers.

Do not allow anybody to approach the working area of the machine or go underneath the lifting structure or under 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 value is not over the maximum slope values for the machine (see: Technical characteristics and description).

Take into account the machine dimensions before entering a narrow or low passageway.

Never move onto loading ramps without checking:

- That they are properly positioned and secured.
- That the vehicle to which they are connected cannot move (wagon, truck trailer, etc.).
- That they are suitable for size and mass of the machine (see: Technical characteristics and description).
- That the slope value is not over the maximum slope values for the machine (see: Technical characteristics and description).

Never move onto a foot bridge, floor or freight lift, without ensuring that they are suitable for the mass and size of the machine, and without checking that they are in good condition.

Be careful in loading docks, trenches, scaffoldings, soft grounds, manholes, etc.

Ensure that the ground under the wheels and/or stabilizers is firm and stable before raising the platform. If necessary, add appropriate wedging under the stabilizers.

Do not attempt to carry out operations that exceed the machine capacities.

Ensure that equipment and materials loaded onto the platform cannot fall out (pipes, cables, containers, etc.).

Do not pile these equipment and materials to the point where it is necessary to step over them.

Respect a safety distance between power lines or live components and any part of the body, any conductive object or any part of the machine, unless the local, government and national applicable regulations, the safety rules of the employer or construction site regulations are more strict in terms of distance required.

Allow for platform movement and swaying or sagging power lines.

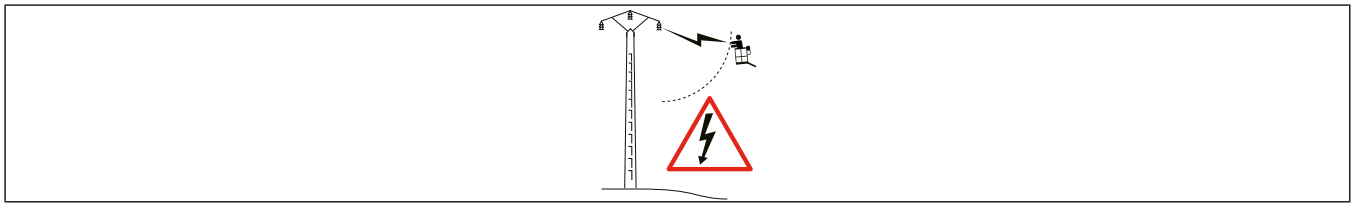


Figure 1: Power line safety distance warning

Table 1. Safety distance depending on nominal voltage

U = NOMINAL VOLTAGE (KILOVOLTS)	***SAFETY DISTANCE (METERS)***
U < 50	3
50 < U < 200	5
200 < U < 350	6
350 < U < 500	8
500 < U < 750	11
750 < U < 1000	14

To recognize the wind speed visually, refer to the empirical wind evaluation scale.

Table 2. BEAUFORT scale

Wind speed at a height of 10 m on flat ground

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.	Leaves and small twigs in constant motion. Very small waves, crests begin to break.
4	Moderate breeze	11 - 16	20 - 28	5.5 - 7.9	Wind raises dust and loose pieces of paper; small branches are moved.	Small waves, becoming longer, numerous whitecaps.
5	Fresh breeze	17 - 21	29 - 38	8 - 10.7	Small tees in leaf begin to sway.	Wavelets form on inland waters; moderate waves, taking longer form.
6	Strong breeze	22 - 27	39 - 49	10.8 - 13.8	Large branches in motion, whistling heard in overhead wires, umbrella use becomes difficult.	Larger waves forming, whitecaps everywhere, some spray.
7	Near gale	28 - 33	50 - 61	13.9 - 17.1	Whole trees in motion, inconvenience felt when walking against the wind.	Sea heaps up; white foam from breaking waves begins to be blown in streaks along the direction of the wind.
8	Gale	34 - 40	62 - 74	17.2 - 20.7	Wind breaks twigs off trees; impedes progress.	Moderately high waves of greater length; edges of crests begin to break into spindrift.
9	Strong gale	41 - 47	75 - 88	20.8 - 24.4	Wind damages roofs (chimneys, slates, etc.).	High waves, crests of waves begin to topple, streaks of foam; reduced visibility.
10	Storm	48 - 55	89 - 102	24.5 - 28.4	Seldom experienced inland; trees uprooted; considerable structural damage occurs.	Very high waves; white streaks of foam; reduced visibility.
11	Violent storm	56 - 63	103 - 117	28.5 - 32.6	Very rare, widespread damage.	Exceptionally high waves able to hide medium sized ships from view, reduced visibility.
12	Hurricane	64 +	118 +	32.7 +	Devastating damage.	Sea completely white; air filled with foam and spray, very reduced visibility.

1.3.11 VISIBILITY

Ensure good visibility on your path at all times.

Machines with a jib boom: to increase your visibility, you can drive forwards with the jib boom slightly raised (beware of the risk of falls in the platform from knocking into a low doorway, overhead power lines, overhead cranes, road bridges, rail tracks or any obstacle in the area in front of the machine).

When reversing, look directly behind you.

In all cases, avoid reversing over distances that are too long.

In all cases if the road visibility 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.

1.3.12 STARTING MACHINES WITH HEAT ENGINES

Instructions (see: Machine operation).

⚠ DANGER

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 in charge.

NOTICE

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

1.3.13 SWITCHING ON ELECTRICALLY POWERED MACHINES

Instructions (see: Machine operation).

Do not use the machine if the battery or batteries are discharged to the point of slowing down movements. In some cases, the machine may stop (see: Machine operation).

1.3.14 DRIVING THE MACHINE

⚠ WARNING

Risk of losing control.
Risk of losing the stability of the machine.
The operator must remain in control of the machine at all times.
Do not attempt to carry out operations that exceed the machine capacities.
Familiarize yourself with the machine on the ground where it will be operated.
Long distance driving must always be done with the machine in transport position (see: Machine operation).
Drive smoothly and adapt the machine speed to the operating conditions (ground configuration, load in the platform, etc.).
Depending on the machine model, select the appropriate speed according to the operating conditions (see: Machine operation).
Stay in control of your speed in all circumstances.
Ensure the brake efficiency ; take braking distances into account.
Only maneuver the machine with extreme care when the platform is 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 path.
Drive around obstacles.
Never drive on the edge of a ditch or severe slope.
Travel slowly on damp, slippery or uneven ground or on loading ramps.
Never leave the engine powered up in the absence of the operator.
Whatever your driving speed, this speed must be reduced as much as possible before stopping.
The machine must be operated in an area free of obstacles or hazards for lowering the platform to the ground.
Pay attention to structures, objects and people when maneuvering.
The operator operating the machine must be helped by someone on the ground with adequate training.
Comply with the machine range of motion limits (see: Technical characteristics and description).
Do not load the platform when driving the machine on a severe slope.

We draw the attention of operators to the risks connected with operating this machine, especially:

Machines with heat engines: never leave the engine running in the absence of the operator.

1.3.15 MACHINE POWER DOWN

NOTICE

Machines with heat engine: before stopping the engine after intensive use, idle the engine for several seconds to allow the coolant and oil to lower the temperature of the engine progressively and avoid damage.

Instructions (see: Description).

Park the machine on level ground.

Make sure the machine is not in a location where it could obstruct traffic.

In particular, the machine must not be less than one meter away from railway tracks.

Never leave the key in the machine in the absence of the operator.

Close and lock all the machine covers (if applicable).

In the event of prolonged parking on a site, protect the machine from bad weather, particularly in case of frost.

Machines with heat engine: check the level of antifreeze protection.

1.3.16 INSTRUCTIONS FOR WORK WITH ELECTRIC WELDING EQUIPMENT

⚠ WARNING

Ensure that the machine has no hydraulic or electrolyte leaks.

NOTICE

When welding, work in the opposite direction from the control panel to avoid sparks damaging it. Any welding work on metal building structures from the platform requires the following precautions to be taken:

It is essential that the machine has a discharge braid connecting the chassis of the machine to the ground.

The external structure to be welded must, without fail, be grounded.

If the above conditions are observed, the machine can, in this case, be in contact with the structure or elements to be welded without damaging the electronic components.

The power supply to the welding equipment must be via a grounded socked, including the extension lead if required.

In all cases, make sure that there are no electric arcs in the 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 platform of the machine; 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.

1.3.17 INSTRUCTIONS FOR WORKING WITH A BLOW TORCH

⚠ WARNING

Ensure that the machine has no hydraulic or electrolyte leaks.

NOTICE

When welding, work in the opposite direction from the control panel to avoid sparks damaging it. Any cutting work with a blow torch on metal building structures from the platform requires the following precautions to be taken:

Attach the cylinders for the blow torch to the vertical pillars on the platform.

Sparks and cutting waste must not be directed towards the battery or batteries.

Do not put 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.

1.4. MACHINE MAINTENANCE INSTRUCTIONS

1.4.1 GENERAL INSTRUCTIONS

⚠ WARNING

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

NOTICE

Carefully read and understand this operator's manual before any operation 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.

Wear clothes suitable for the maintenance of the machine. Avoid wearing jewelry and loose clothes. Tie back 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 heat engines:

- Make sure the area is adequately ventilated before starting the engine.
- Before any operation on the machine, stop the engine and power down the machine (see: Machine operation).

Electric powered machines:

- Before any operation on the machine, power down the machine (see: Machine operation).

1.4.2 MAINTENANCE LOGBOOK

NOTICE

Perform the periodic maintenance to keep your machine in good working condition. (see: Maintenance).

Failure to perform periodic maintenance may invalidate the contractual warranty.

The maintenance operations carried out in accordance with the recommendations (see: Maintenance) and the other inspection, servicing or repair operations or modifications made to the machine must be recorded in a maintenance logbook.

The entry for each operation should include the date of the work, the names of the individuals or companies having performed them, the type of operation and its frequency, if applicable.

If machine elements are replaced, the part numbers of these elements shall be indicated.

1.4.3 LUBRICANT AND FUEL LEVELS

Use the recommended lubricants; never use lubricants that have already been used.

Machines with heat engines:

⚠ WARNING

Do not fill the fuel tank when the engine is running.
Do not smoke or come close to the machine with a flame when the fuel tank is open or is being filled.
Only fill up the fuel tank in intended areas for this purpose.

1.4.4 HYDRAULICS

⚠ WARNING

Counterbalance valve: it is dangerous to change the setting or remove the counterbalance valves or safety valves which may be fitted to the cylinders of your machine. operation and must only be performed by approved personnel (consult your dealer).
Hydraulic accumulator (depending on the model): dismantling hydraulic accumulators and their pipes which may be fitted on your machine is dangerous. operation and must only be performed by approved personnel (consult your dealer).
Do not attempt to loosen connectors, hoses or hydraulic components with the circuit under pressure.

Any work on the hydraulic circuit is prohibited, except for the operations described in the Maintenance section.

1.4.5 ELECTRICITY

⚠ WARNING

Electrical accreditation may be required for some maintenance operations: comply with local, government and national regulations in force.
After each job, make sure that the electrical component protection systems are put back (covers, caps, grommets, etc.).
Do not drop metallic items on the battery or batteries (between the positive and negative terminal(s)).
Disconnect the battery or batteries before working on the electrical circuit.
The control panels on the ground and in the platform and all other electrical control boxes must only be opened by authorized personnel.

1.4.6 SENSORS

Some machines are equipped with a tilt sensor mounted to the turntable or to the chassis. Always perform a reset after removing/refitting the tilt sensor. Refer to the machine service manual.

Some machines are equipped with a built-in tilt sensor in the ground control panel. Always calibrate the tilt sensor after removing/refitting or loosening/tightening the ground control panel, its mounting plates or its fixing screws. Refer to the machine service manual.

Some machines are equipped with overload sensors. Always calibrate the overload system after removing/refitting the overload sensor(s). Refer to the machine service manual.

Some machines are equipped with hydraulic pressure sensors. Always calibrate the machine after removing/refitting the hydraulic pressure sensor(s). Refer to the machine service manual.

Some machines are equipped with angular sensors. Always calibrate the machine after removing/refitting the angular sensor(s). Refer to the machine service manual.

1.4.7 WELDING ON THE MACHINE

⚠ WARNING

Welding operations on the machine for the purposes of maintenance or repairs must only be carried out by people authorized by MANITOU.
Disconnect the battery or batteries before any welding operations on the machine.

NOTICE

If the machine is equipped with electronic controls, disconnect them before starting to weld, to avoid the risk of causing irreparable damage to the electronic components.
When carrying out electric welding work on the machine, connect the negative cable clip from the welding equipment to the part to be welded, so as to avoid the very intense current passing through the alternator or the ring gear.

1.4.8 WASHING THE MACHINE

NOTICE

When washing with a high pressure cleaner, avoid the engine air intakes, the cylinder rod wiper seals, the hinges, the structural components and the electrical connections, etc.
Close and lock all the machine covers (if applicable).
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 or at least the area concerned before any intervention.

Clean the machine of any traces of fuel, oil or grease.

After washing:

- Dry the electrical components.
- Grease the axles, pins, ring gear, etc.

1.5. MACHINE LONG-TERM STOPPAGE

1.5.1 INTRODUCTION

Procedures to follow for long duration standstill and for bringing back the machine into service must be performed by your dealership.

This period of long duration standstill must not exceed 12 months.

The recommendations below are intended to prevent the machine from being damaged when it is in long duration standstill period of more than 3 months.

After 12 months of the machine not being used, the procedure for bringing back the machine into service must be performed. The long duration standstill procedure must then be performed again.

1.5.2 PREPARATION OF THE MACHINE

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

1.5.3 MACHINES WITH HEAT ENGINES: ENGINE PROTECTION

- Fill the tank with fuel (see: Maintenance).
- Replace the engine oil and engine oil filter (see: Maintenance).
- Replace the coolant (see: Maintenance).
- Disconnect the battery and store it in a safe place away from the cold, after charging it to maximum capacity.
- 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.

1.5.4 ELECTRICALLY POWERED MACHINES: BATTERY CHARGING

In order to conserve battery life and capacity, check periodically and keep the charge level constant (see: Machine operation).

Do not leave the battery charger connected during a thunderstorm.

1.5.5 MACHINE PROTECTION

NOTICE

Protect cylinder rods which will not be retracted from corrosion.
Wrap the wheels.
If the machine is to be stored outdoors, cover it with a waterproof tarpaulin.

1.5.6 BRINGING BACK THE MACHINE INTO SERVICE

⚠ CAUTION

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

1. Remove the protection from the cylinder rods and wheels.
2. Check the hydraulic oil (see: Maintenance).
3. Perform the daily service (see: Maintenance).
4. Carry out a complete lubrication of the machine (see: Maintenance).
5. Carry out all the lifting system's hydraulic motions up to the end position for each cylinder.
6. Machines with heat engines:
   a. Put the battery back in place and reconnect it.
   b. Remove the waterproof adhesive tape from the exhaust outlet.
   c. Clean the fuel tank (replace the fuel), replace the fuel filter (s) (see: Maintenance).
   d. Put the belt back in place and adjust its tension (see: Maintenance).
   e. Reconnect the engine cut-off solenoid.
   f. Start the engine following the instructions and safety instructions.

1.6. DISPOSING OF THE MACHINE

1.6.1 RECYCLING OF MATERIALS

Consult your dealer before disposing of the machine.

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

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

Glass

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

1.6.2 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.

MANITOU aims to manufacture machines that provide the best performance and limit polluting emissions.

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 oils

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

Used batteries

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

1.7. DECALS LOCATION

1.7.1 DECALS LOCATION - SE 0808 S1

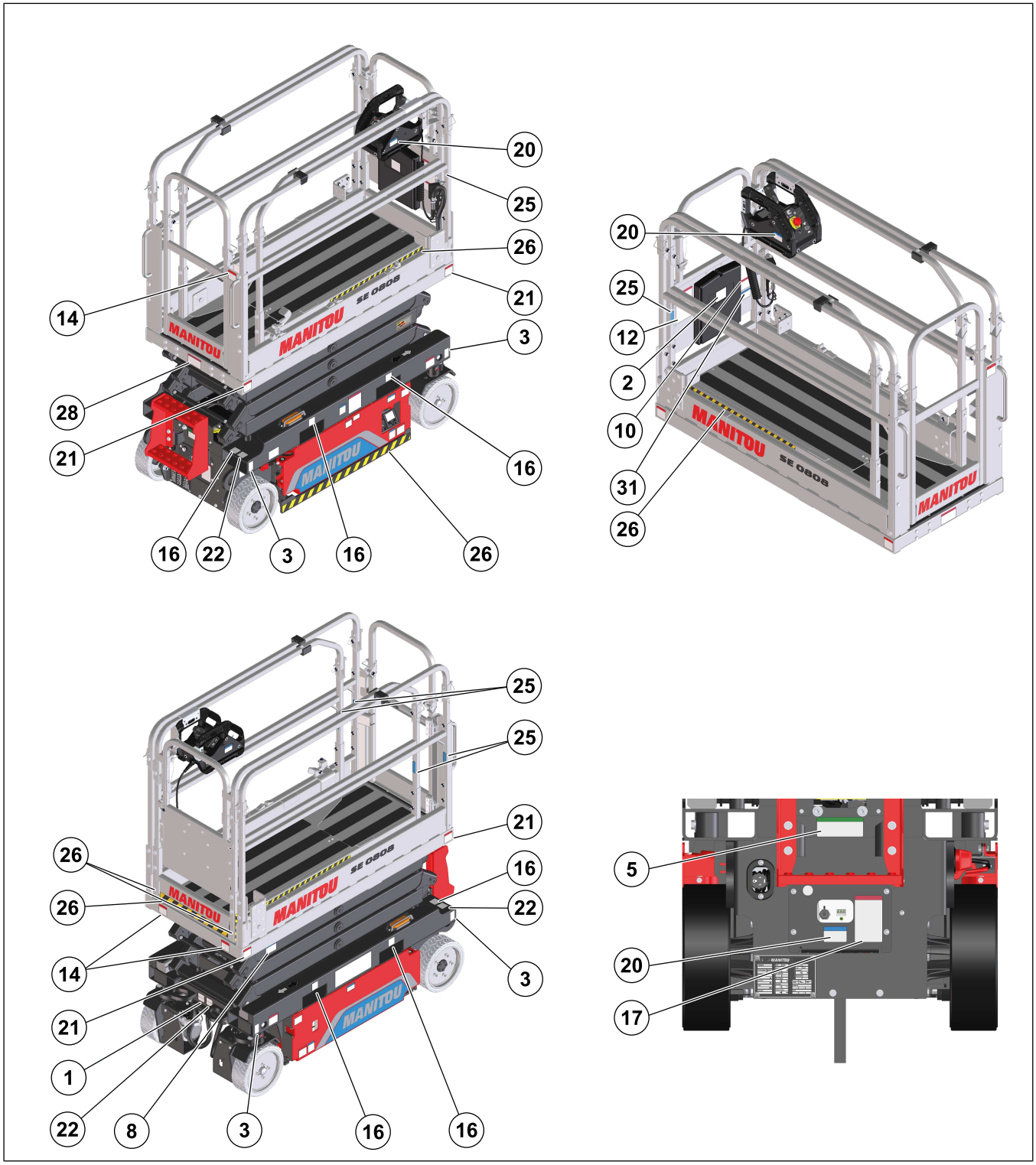


Figure 2: Decals location - SE 0808 S1

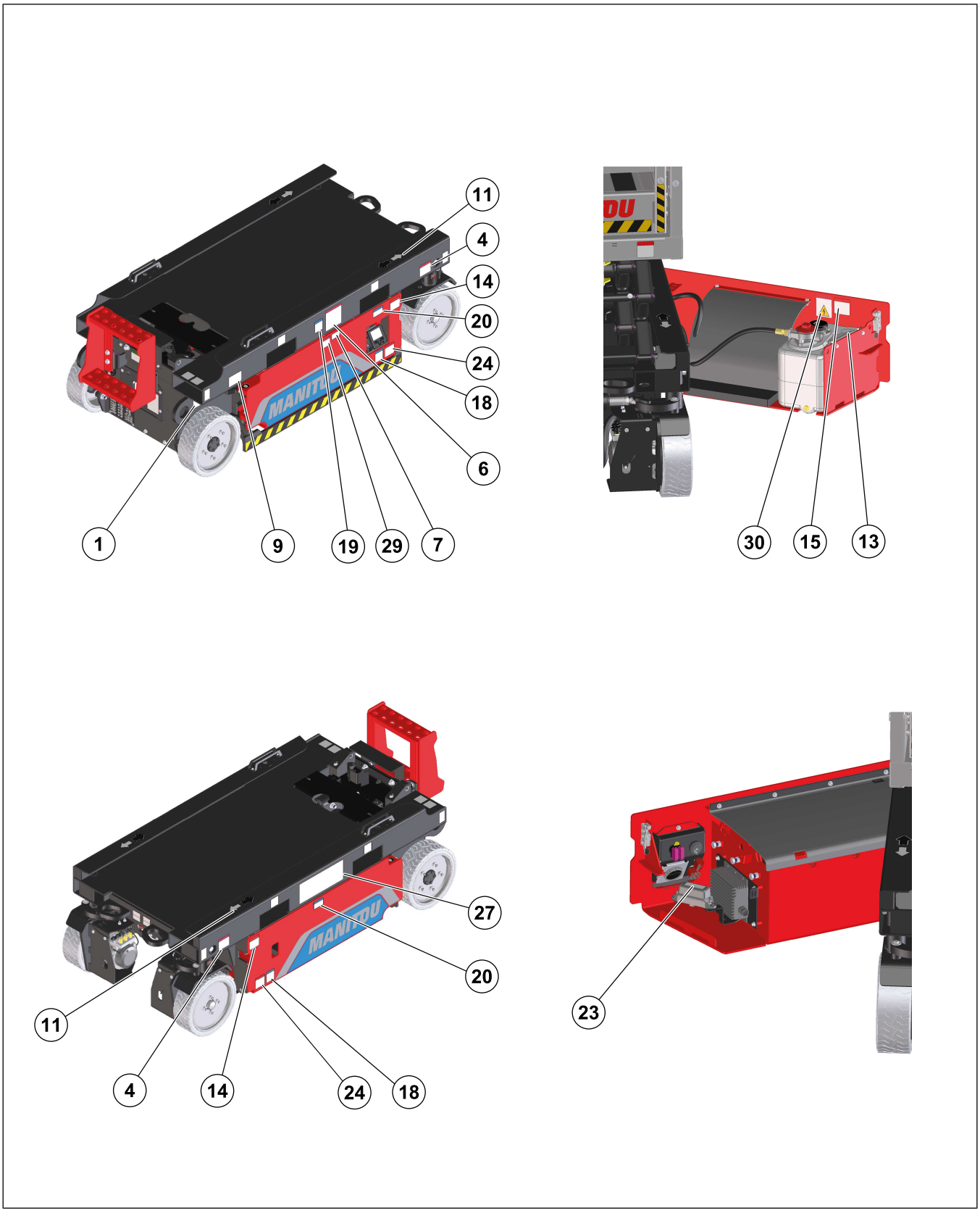


Figure 3: Decals location - SE 0808 S1

Table 3. Decals location - SE 0808 S1

Marker	Reference	Description	Option
1	52558007	1.8.1 Decal - Tie down point, page 30	
2	52562839	1.8.2 Decal - Operator's manual location, page 30	
3	53105793	1.8.3 Decal - Wheel load - SE 0808 S1, page 30	
4	53105794	1.8.5 Decal - Danger runaway hazard, page 31	
5	53105795	1.8.6 Decal - Rescue lowering instructions, page 31	
6	53105796	1.8.7 Decal - Danger tip over hazard, page 31	
7	53105798	1.8.8 Decal - Battery, page 31	
8	53105799	1.8.9 Decal - Notice safety stand, page 32	
9	53105800	1.8.10 Decal - Danger electrocution hazard, page 32	
10	53105803	1.8.11 Decal - Danger improper use hazard, page 32	
11	53105805	1.8.12 Decal - White and black arrows, page 32	
12	53105826	1.8.13 Decal - Danger improper use hazard - SE 0808 S1, page 33	
13	597652	1.8.15 Decal - Hydraulic oil, page 33	
14	676988	1.8.16 Decal - Danger crush hazard, page 34	
15	683112	1.8.17 Decal - Danger burn hazard, page 34	
16	53105823	1.8.18 Decal - Fork pockets, page 34	
17	53105825	1.8.19 Decal - Danger electrocution and explosion hazard, page 34	
18	53105867	1.8.20 Decal - Notice machine lifting, page 35	
19	53106328	1.8.21 Decal - Notice machine towing, page 35	
20	53106336	1.8.22 Decal - Notice high pressure washer, page 35	
21	679450	1.8.23 Decal - Danger collision hazard, page 35	
22	52558006	1.8.24 Decal - Lifting point, page 36	
23	53106660	1.8.25 Decal - Fuses and relays, page 36	
24	831516	1.8.26 Decal - Danger crush hazard, page 36	
25	834438	1.8.27 Decal - Lanyard anchorage point, page 36	
26	53116112 53116113 53116114 53116239	1.8.28 Decal - Black and yellow stripes, page 36	
27	53106659	1.8.29 Decal - Tie down and lifting - SE 0808 S1, page 36	
28	53106661	1.8.31 Decal - Tip over hazard, page 37	
29	52768441	1.8.32 Decal - Danger chemical burn hazard, page 37	
30	52720522	1.8.33 Decal - Danger electrocution hazard, page 37	
31	53116284	1.8.34 Decal - Lanyard anchorage point conformity, page 38	

1.7.5 DECALS LOCATION - SE 1008 S1

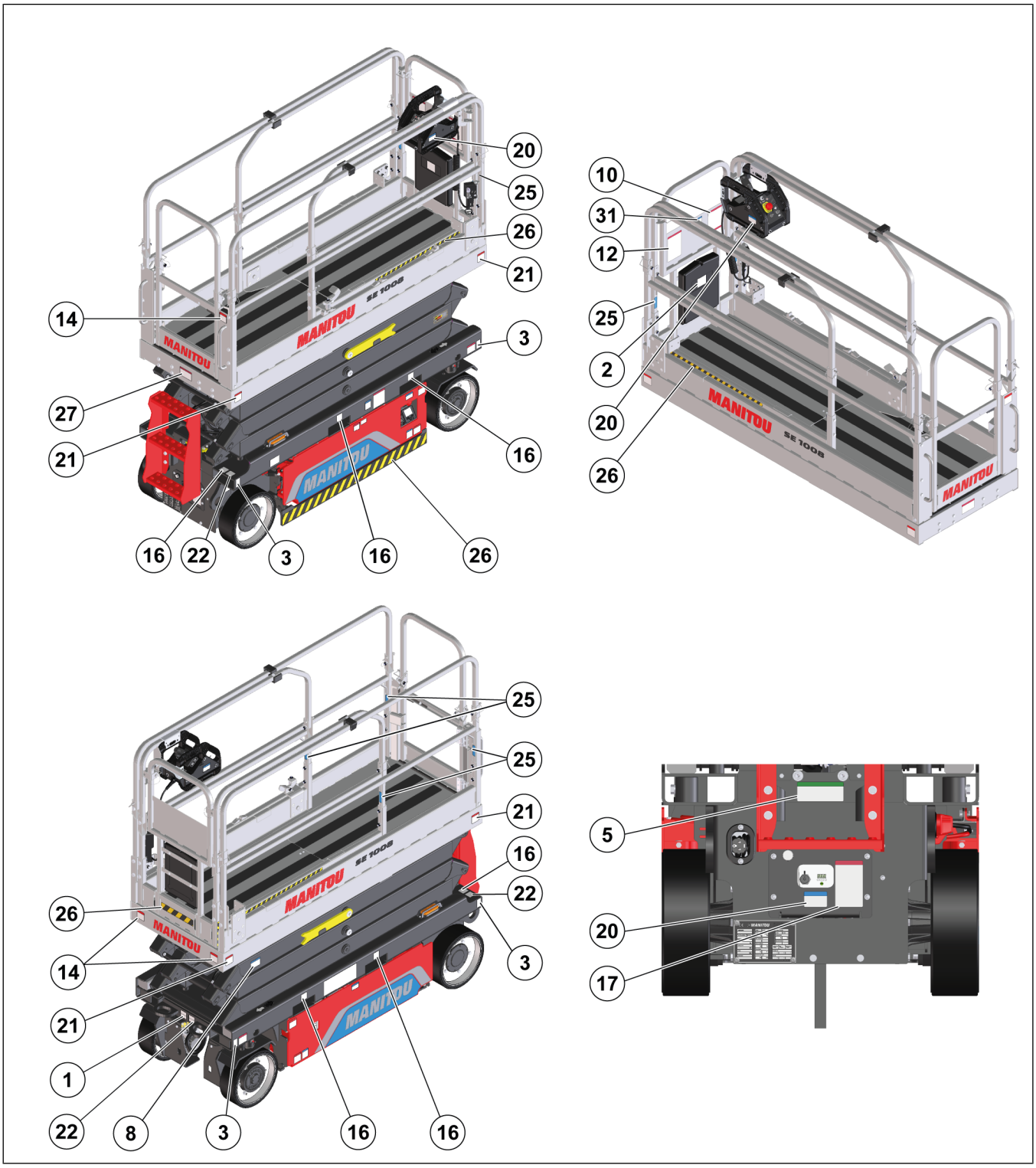


Figure 4: Decals location - SE 1008 S1

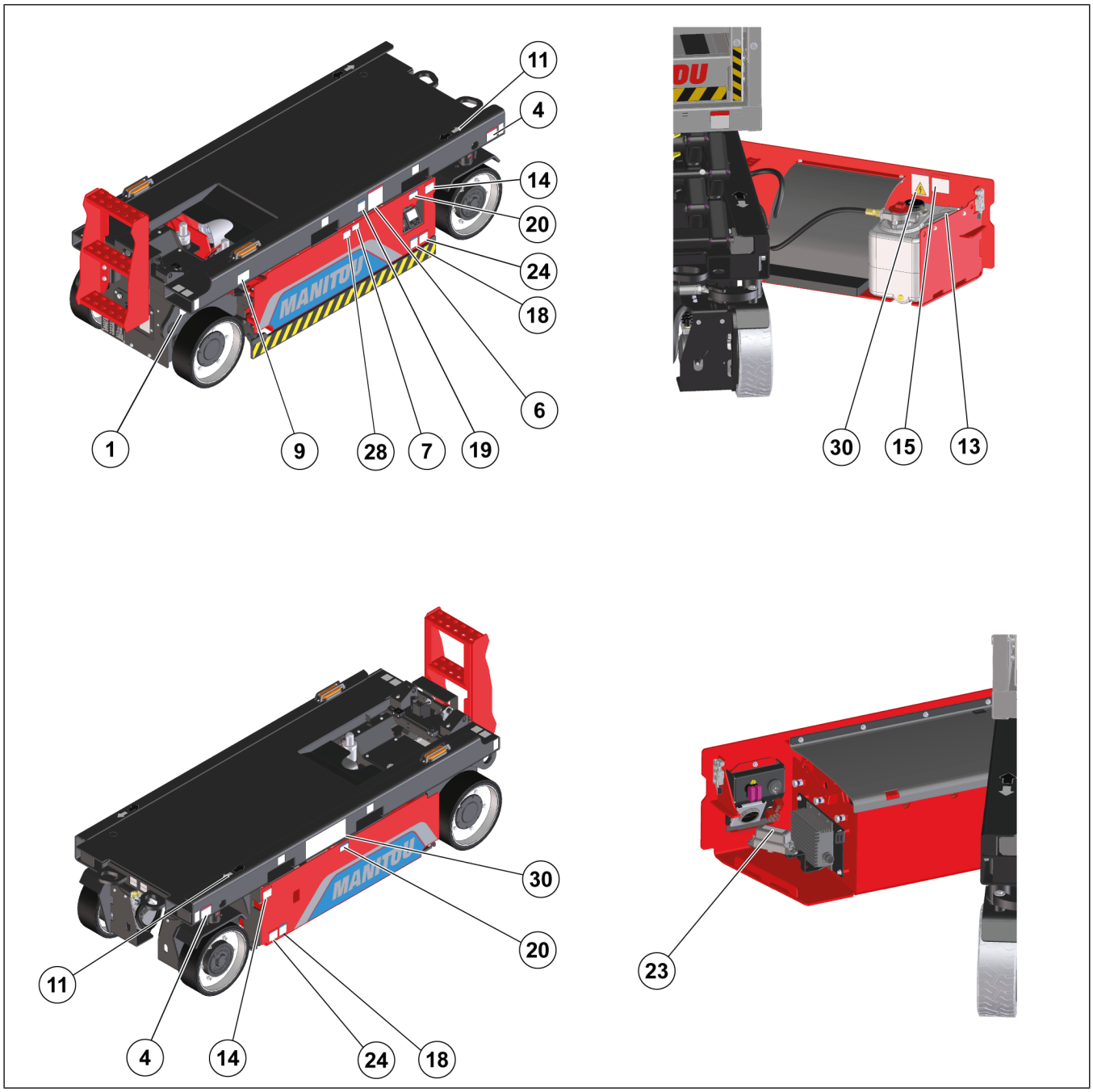


Figure 5: Decals location - SE 1008 S1

Table 4. Decals location - SE 1008 S1

Marker	Reference	Description	Option
1	52558007	1.8.1 Decal - Tie down point, page 30	
2	52562839	1.8.2 Decal - Operator's manual location, page 30	
3	53116208	1.8.4 Decal - Wheel load - SE 1008 S1, page 30	
4	53105794	1.8.5 Decal - Danger runaway hazard, page 31	
5	53105795	1.8.6 Decal - Rescue lowering instructions, page 31	
6	53105796	1.8.7 Decal - Danger tip over hazard, page 31	
7	53105798	1.8.8 Decal - Battery, page 31	
8	53105799	1.8.9 Decal - Notice safety stand, page 32	
9	53105800	1.8.10 Decal - Danger electrocution hazard, page 32	
10	53105803	1.8.11 Decal - Danger improper use hazard, page 32	
11	53105805	1.8.12 Decal - White and black arrows, page 32	
12	53116209	1.8.14 Decal - Danger improper use hazard - SE 1008 S1, page 33	
13	597652	1.8.15 Decal - Hydraulic oil, page 33	
14	676988	1.8.16 Decal - Danger crush hazard, page 34	
15	683112	1.8.17 Decal - Danger burn hazard, page 34	
16	53105823	1.8.18 Decal - Fork pockets, page 34	
17	53105825	1.8.19 Decal - Danger electrocution and explosion hazard, page 34	
18	53105867	1.8.20 Decal - Notice machine lifting, page 35	
19	53106328	1.8.21 Decal - Notice machine towing, page 35	
20	53106336	1.8.22 Decal - Notice high pressure washer, page 35	
21	679450	1.8.23 Decal - Danger collision hazard, page 35	
22	52558006	1.8.24 Decal - Lifting point, page 36	
23	53106660	1.8.25 Decal - Fuses and relays, page 36	
24	831516	1.8.26 Decal - Danger crush hazard, page 36	
25	834438	1.8.27 Decal - Lanyard anchorage point, page 36	
26	53116114 53116221 53116222 53116239	1.8.28 Decal - Black and yellow stripes, page 36	
27	53106661	1.8.31 Decal - Tip over hazard, page 37	
28	52768441	1.8.32 Decal - Danger chemical burn hazard, page 37	
29	52720522	1.8.33 Decal - Danger electrocution hazard, page 37	
30	53116211	1.8.30 Decal - Tie down and lifting - SE 1008 S1, page 37	
31	53116284	1.8.34 Decal - Lanyard anchorage point conformity, page 38	

1.8. DECALS DESCRIPTION

1.8.1 DECAL - TIE DOWN POINT

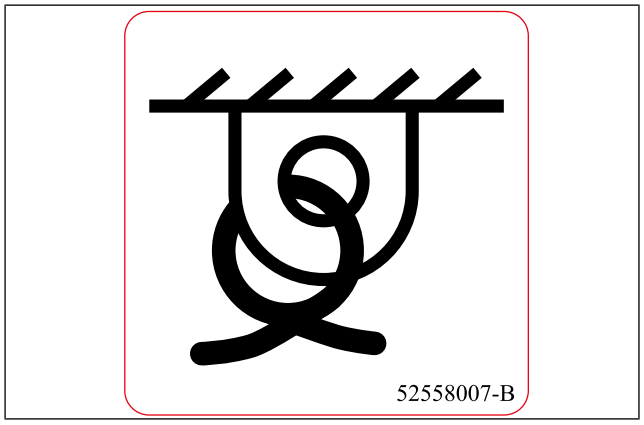


Figure 6: Decal - Tie down point

Indicates the location of the machine's tie down points.

1.8.2 DECAL - OPERATOR'S MANUAL LOCATION

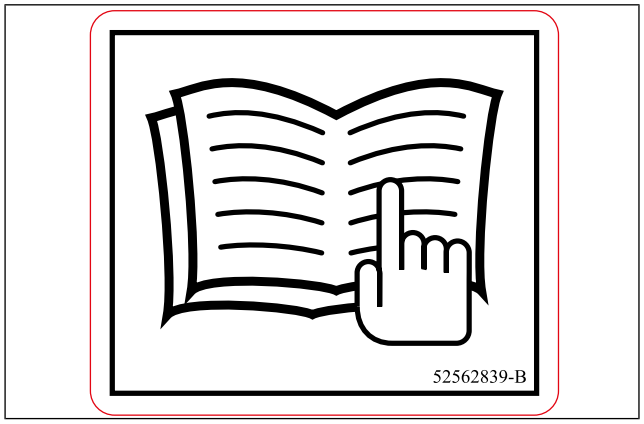


Figure 7: Decal - Operator's manual location

Indicates the location of the operator's manual.

1.8.3 DECAL - WHEEL LOAD - SE 0808 S1

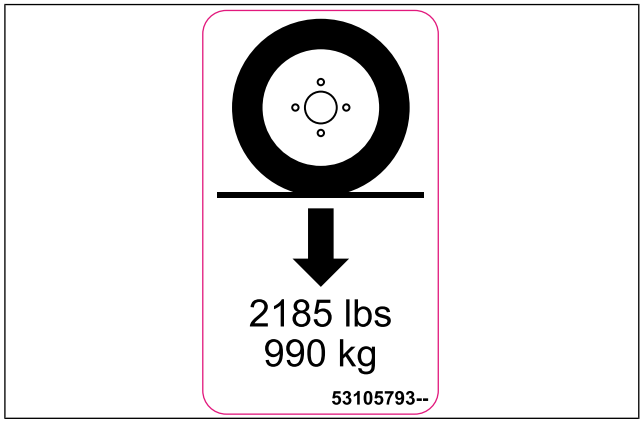


Figure 8: Decal - Wheel load - SE 0808 S1

Indicates the maximum ground load per wheel.

1.8.4 DECAL - WHEEL LOAD - SE 1008 S1

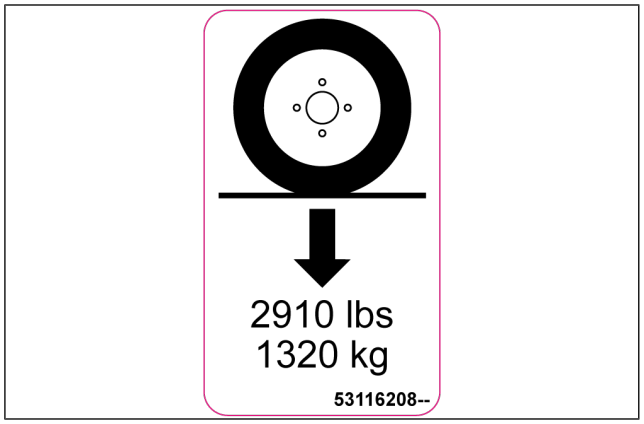


Figure 9: Decal - Wheel load - SE 1008 S1

Indicates the maximum ground load per wheel.

1.8.5 DECAL - DANGER RUNAWAY HAZARD

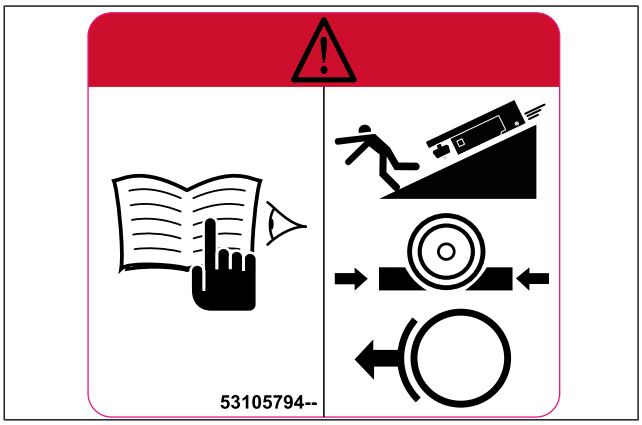


Figure 10: Decal - Danger runaway hazard

⚠ DANGER

Runaway hazard

The wheels must be chocked before free-wheeling the machine. The slope of loading ramps must not exceed the maximum slope ratings.

Refer to the corresponding chapter.

1.8.6 DECAL - RESCUE LOWERING INSTRUCTIONS

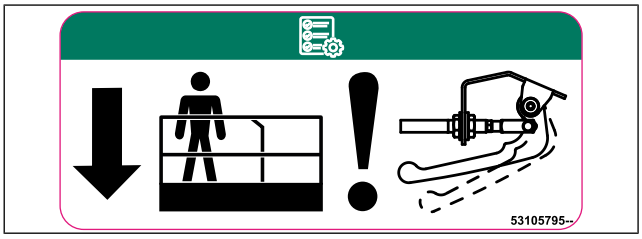


Figure 11: Decal - Rescue lowering instructions

Indicates the procedure to use the rescue controls from the ground.

Refer to the corresponding chapter.

1.8.7 DECAL - DANGER TIP OVER HAZARD

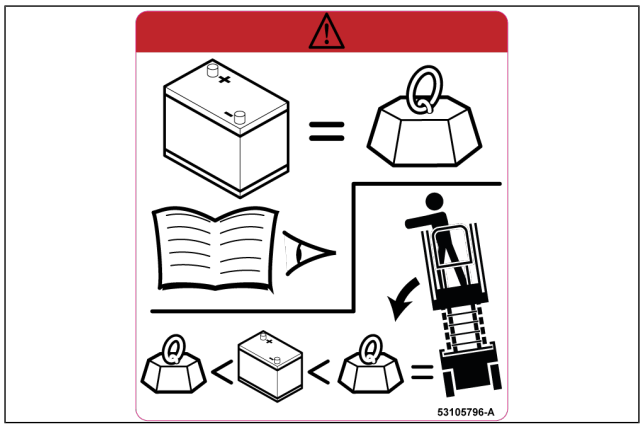


Figure 12: Decal - Danger tip over hazard

⚠ DANGER

Tip over hazard

The mass of the batteries must be equal to the mass of the replaced batteries.

Refer to the corresponding chapter.

1.8.8 DECAL - BATTERY

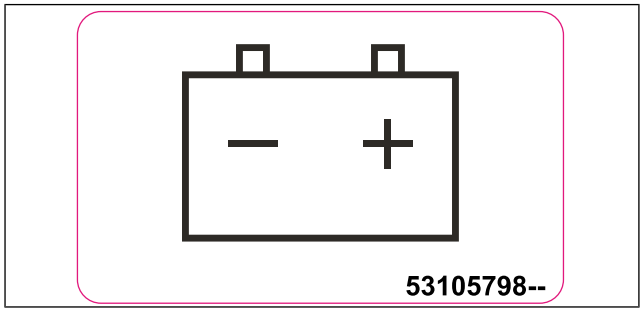


Figure 13: Decal - Battery

Indicates the location of the batteries.

1.8.9 DECAL - NOTICE SAFETY STAND

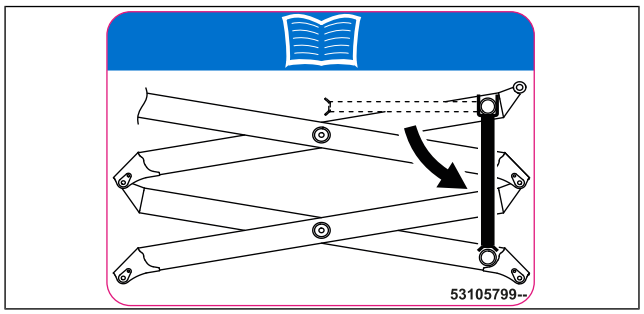


Figure 14: Decal - Notice safety stand

Indicates the procedure to use the safety stand.

Refer to the corresponding chapter.

1.8.10 DECAL - DANGER ELECTROCUTION HAZARD

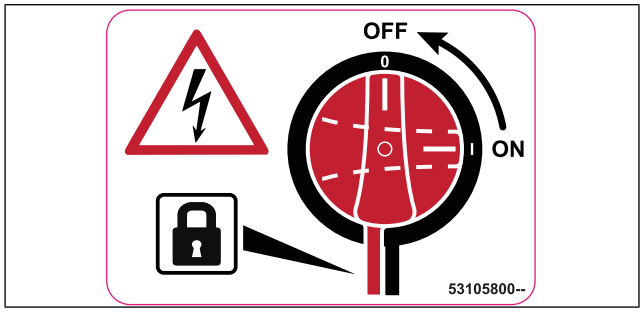


Figure 15: Decal - Danger electrocution hazard

⚠ DANGER

Danger electrocution hazard

Make sure to use the battery master switch properly.

1.8.11 DECAL - DANGER IMPROPER USE HAZARD

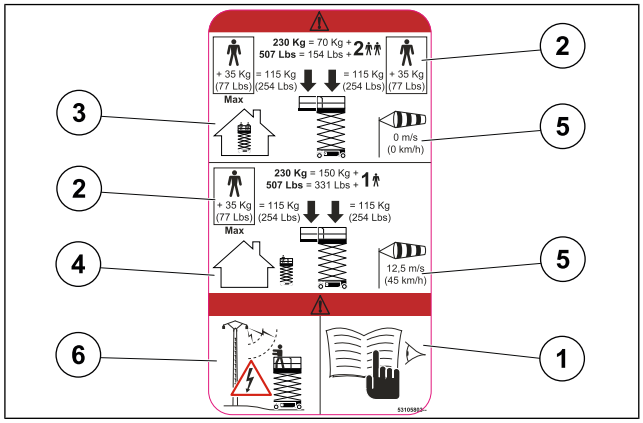


Figure 16: Decal - Danger improper use hazard

⚠ DANGER

Improper use hazard

(1) The operator's manual must be read before using the machine.
(2) Always check the maximum platform load capacity.
(3) Make sure to use the machine properly for the indoor use.
(4) Make sure to use the machine properly for the outdoor use.
(5) Always check the maximum wind speed.
(6) Make sure to maintain a proper clearance from power lines or energized components

1.8.12 DECAL - WHITE AND BLACK ARROWS

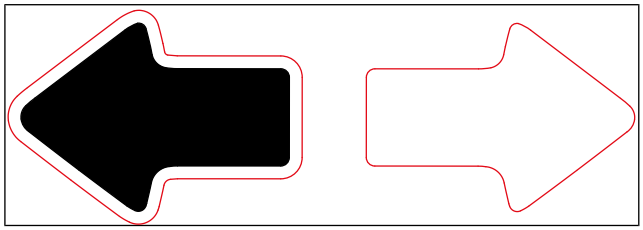


Figure 17: Decal - White and black arrows

Indicates the machine's direction of travel:

- black arrow = reverse driving
- white arrow = forward driving

1.8.13 DECAL - DANGER IMPROPER USE HAZARD - SE 0808 S1

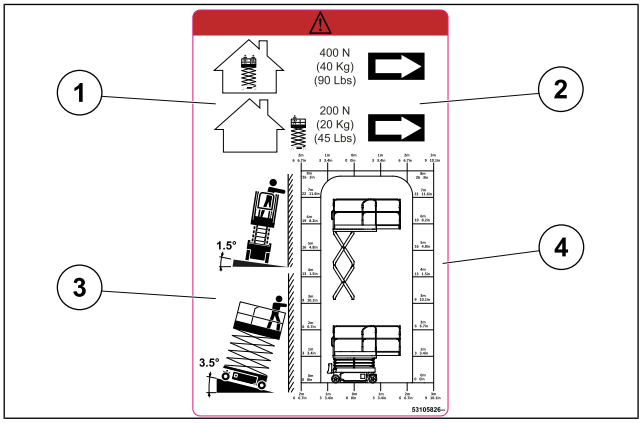


Figure 18: Decal - Danger improper use hazard - SE 0808 S1

⚠ DANGER

Improper use hazard

(1) Remember that the machine is meant for an indoor and an outdoor use.
(2) Always check the maximum manual force authorized.
(3) Always check the maximum slope authorized.
(4) The range of motion diagram must be known before using the machine. Refer to the corresponding chapter.

1.8.14 DECAL - DANGER IMPROPER USE HAZARD - SE 1008 S1

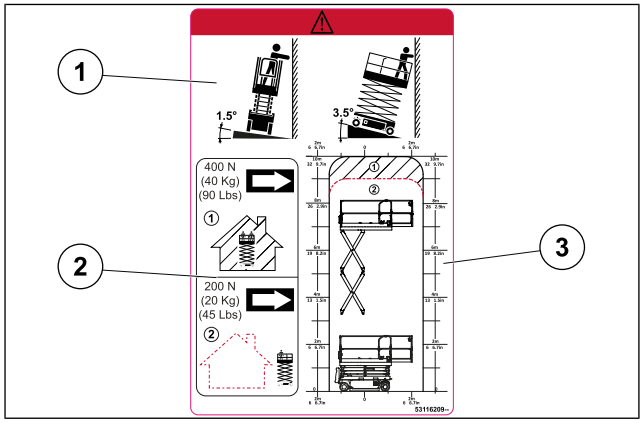


Figure 19: Decal - Danger improper use hazard - SE 1008 S1

⚠ DANGER

Improper use hazard

(1) Always check the maximum slope authorized.
(2) Remember that the machine is meant for an indoor and an outdoor use. Always check the maximum manual force authorized.
(3) The range of motion diagram must be known before using the machine. Refer to the corresponding chapter.

1.8.15 DECAL - HYDRAULIC OIL

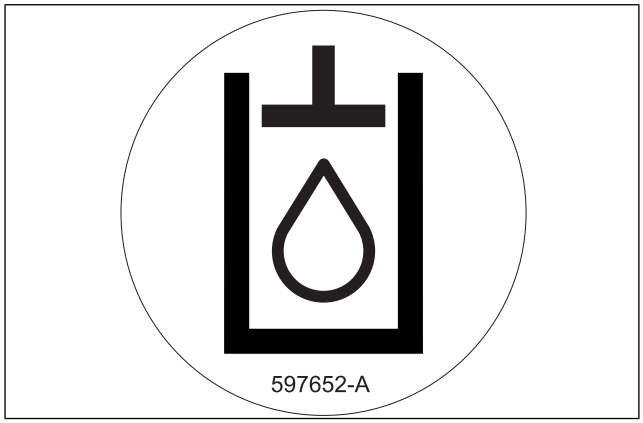


Figure 20: Decal - Hydraulic oil

Indicates the location of the hydraulic oil tank.

1.8.16 DECAL - DANGER CRUSH HAZARD

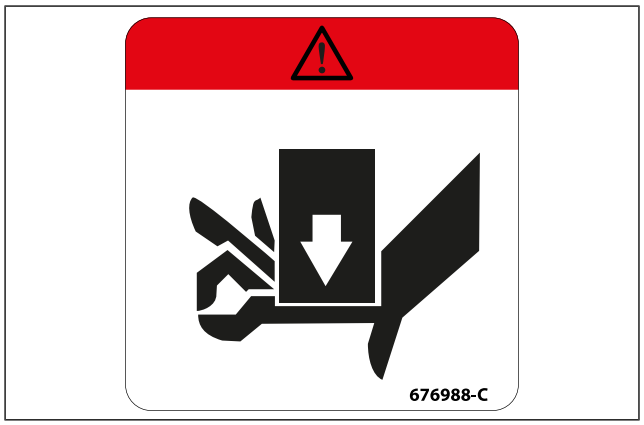


Figure 21: Decal - Danger crush hazard

⚠ DANGER

Crush hazard

Keep away from any mobile component.

1.8.17 DECAL - DANGER BURN HAZARD

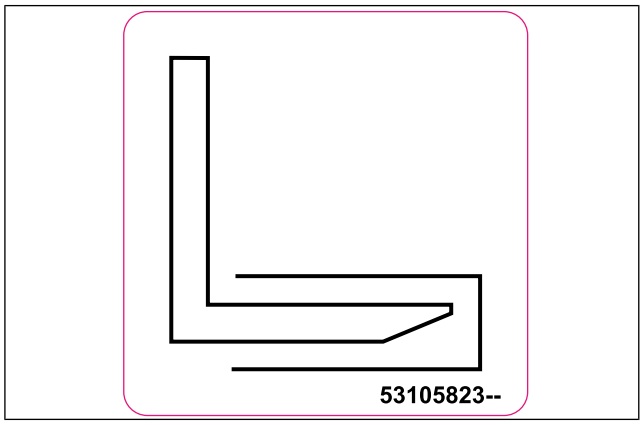
Figure 22: Decal - Danger burn hazard

⚠ DANGER

Burn hazard

Avoid contact with hot components and fluids.

1.8.18 DECAL - FORK POCKETS



Indicates the location of the machine's fork pockets.

1.8.19 DECAL - DANGER ELECTROCUTION AND EXPLOSION HAZARD

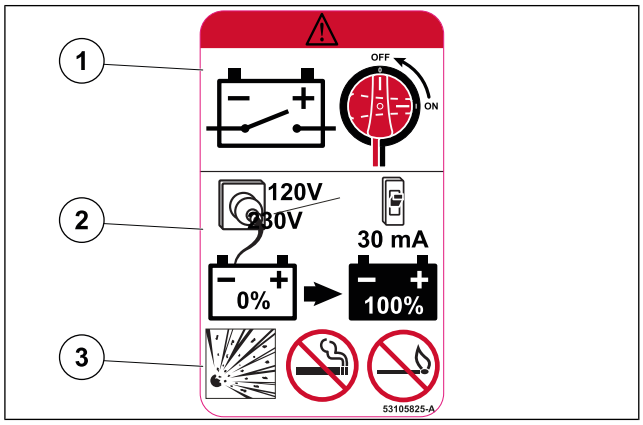


Figure 23: Decal - Danger electrocution and explosion hazard

⚠ DANGER

Electrocution hazard

(1) Make sure to use the battery master switch properly.
(2) Always plug the charging cable to a 230V/50Hz, 16A power source protected by a 30mA residual-current circuit breaker.

⚠ DANGER

Explosion hazard

(3) Do not allow flames or sparks and do not smoke near the battery during charging or maintenance.

1.8.20 DECAL - NOTICE MACHINE LIFTING

Figure 24: Decal - Notice machine lifting

The lifting procedure by means of a forklift must be properly done.

Refer to the corresponding chapter.

1.8.21 DECAL - NOTICE MACHINE TOWING

Figure 25: Decal - Notice machine towing

The towing procedure must be properly done.

Refer to the corresponding chapter.

1.8.22 DECAL - NOTICE HIGH PRESSURE WASHER

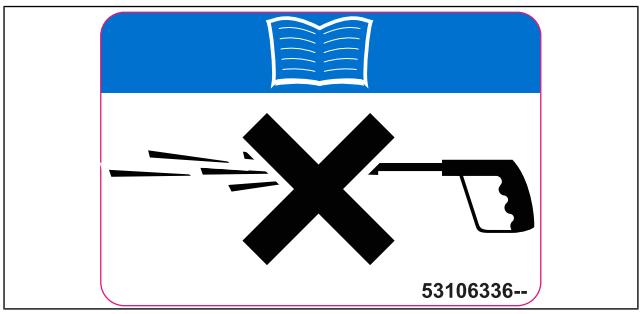


Figure 26: Decal - Notice high pressure washer

Indicates to not use a high pressure cleaner nozzle onto the components.

Refer to the corresponding chapter.

1.8.23 DECAL - DANGER COLLISION HAZARD

Figure 27: Decal - Danger collision hazard

⚠ DANGER

Collision hazard

Do not stand under the platform.
Keep away from any mobile component.

1.8.24 DECAL - LIFTING POINT

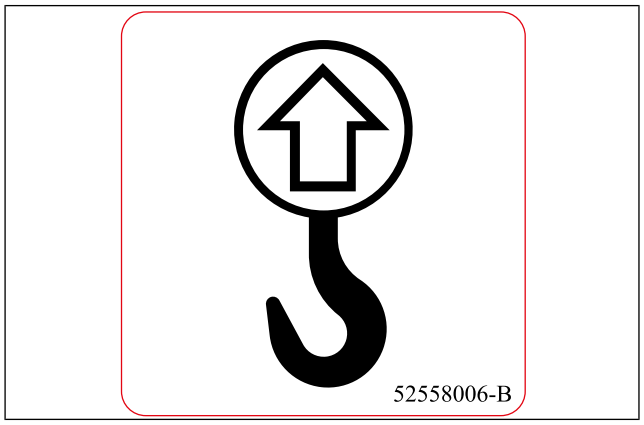


Figure 28: Decal - Lifting point

Indicates the location of the machine's lifting points.

1.8.25 DECAL - FUSES AND RELAYS

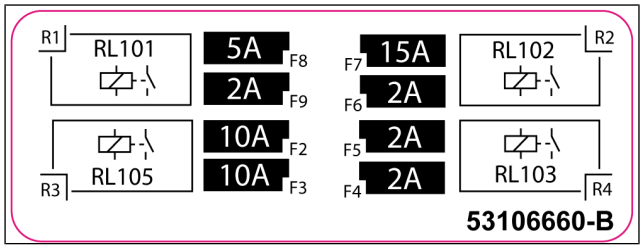


Figure 29: Decal - Fuses and relays

Indicates the fuses and relays that are in the fuse box.

1.8.26 DECAL - DANGER CRUSH HAZARD

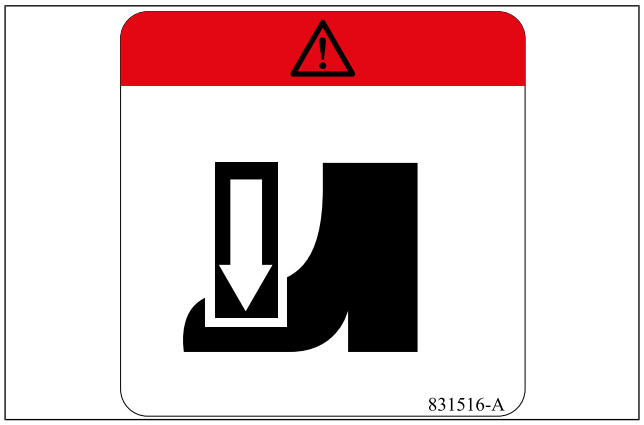


Figure 30: Decal - Danger crush hazard

⚠ DANGER

Crush hazard

Keep away from any mobile component.

1.8.27 DECAL - LANYARD ANCHORAGE POINT

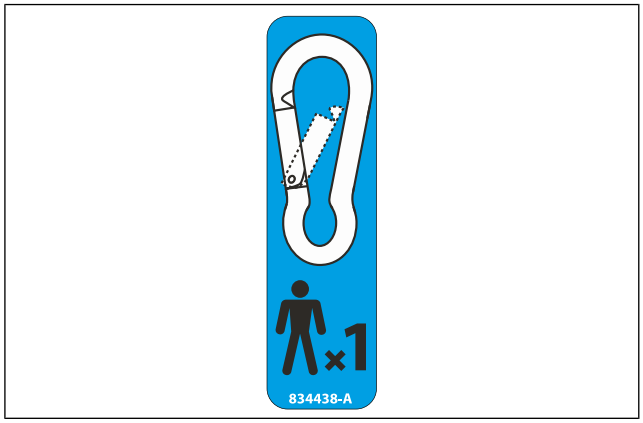


Figure 31: Decal - Lanyard anchorage point

Indicates:

- The location of the lanyard anchorage points.
- That only one operator/occupant is allowed per anchorage point.

1.8.28 DECAL - BLACK AND YELLOW STRIPES

Figure 32: Decal - Black and yellow stripes

Indicates the machine's mobile components.

1.8.29 DECAL - TIE DOWN AND LIFTING - SE 0808 S1

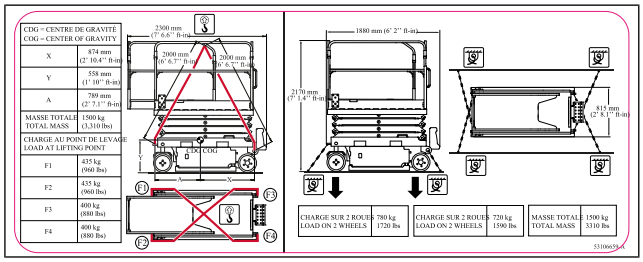


Figure 33: Decal - Tie down and lifting - SE 0808 S1

Indicates the main specifications to tie down and lift the machine.

Refer to the corresponding chapter.

1.8.30 DECAL - TIE DOWN AND LIFTING - SE 1008 S1

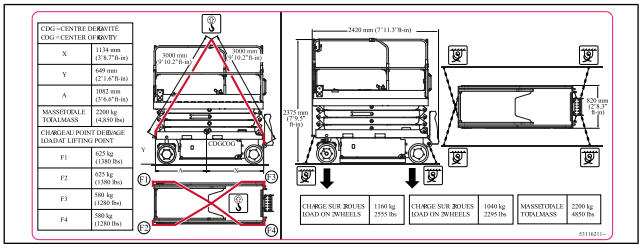


Figure 34: Decal - Tie down and lifting - SE 1008 S1

Indicates the main specifications to tie down and lift the machine.

Refer to the corresponding chapter.

1.8.31 DECAL - TIP OVER HAZARD

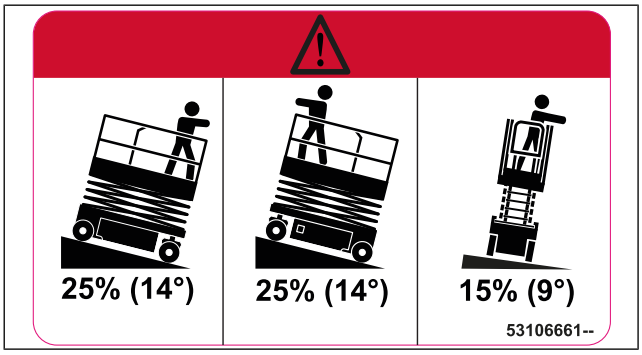


Figure 35: Decal - Tip over hazard

Always check the maximum slope authorized.

1.8.32 DECAL - DANGER CHEMICAL BURN HAZARD

Figure 36: Decal - Danger chemical burn hazard

⚠ DANGER

Chemical burn hazard

Batteries contain fluid that is highly corrosive. Always wear protective clothing, gloves, and safety eyewear or face shield during maintenance.
Avoid contact with any body parts and with clothing at all times. Flush any exposed area with clean water and seek advice a healthcare professional.

1.8.33 DECAL - DANGER ELECTROCUTION HAZARD

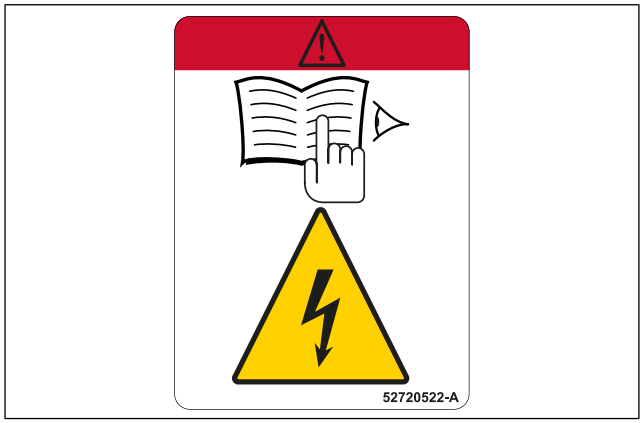


Figure 37: Decal - Danger electrocution hazard

⚠ DANGER

Electrocution hazard

In order to maintain the connectivity of the machine, some electrical components remain energized even when the battery master switch is in the

"OFF"

position. Refer to the corresponding chapter.

1.8.34 DECAL - LANYARD ANCHORAGE POINT CONFORMITY

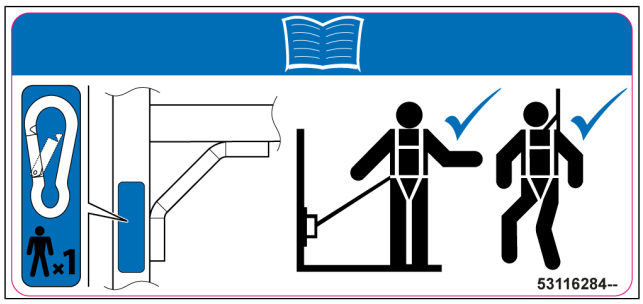


Figure 38: Decal - Lanyard anchorage point conformity

Indicates the security functions of the lanyard anchorage points:

- In the platform.
- Outside the platform if the operator/occupant falls over.

2. FAMILIARIZATION

2.1. MACHINE IDENTIFICATION

2.1.1 MANUFACTURER PLATE

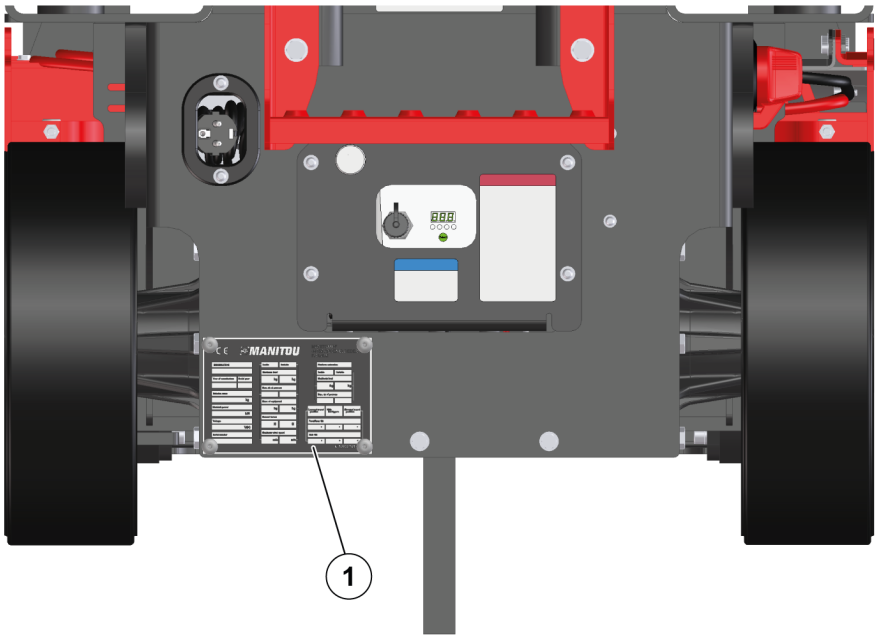


Figure 39: Manufacturer plate

"Designation" Designation	
"Year of manufacture" Year of manufacture	
"Model year" Model year	
"Unladen mass" Unladen mass	
"Nominal power" Nominal power	
"Voltage" Voltage	
"Serial Number" Serial number	
"Inside / Outside" Inside / Outside	
"Maximum load" Maximum load	
"Maximum number of persons" Maximum number of persons	
"Mass of equipment" Mass of equipment	
"Manual forces" Manual forces	
"Maximum wind speed" Maximum wind speed	
"Platform extension" Platform extension	
"Inside / Outside" Inside / Outside	
"Maximum load" Maximum load	
"Maximum number of persons" Maximum number of persons	
"Lowered travel position" Lowered travel position	
"With outriggers" With outriggers	
"Elevated travel position" Elevated travel position	
"Front/Rear tilt" Front/Rear tilt	
"Side tilt" Side tilt	

2.2. MACHINE DESCRIPTION

2.2.1 MAIN CHARACTERISTICS - SE 0808 S1

The technical designation of this machine is: SE 0808 S1.

The main characteristics of this machine are:

- Electrical power supply with integrated batteries.
- 2 steering wheels.
- 2 drive wheels.
- Maximum platform floor height in transport position: 1.8m (3-7ft).
- Maximum platform floor height in work position: 5.8m (19-0.3ft).
- Maximum load capacity on the platform: 280kg (617lbs).
- Maximum load capacity on the platform extension: 115kg (254lbs).

This machine is equipped of specific controls allowing to use the following functions from the ground and/or the platform:

- Drive, steer and brake.
- Raise/Lower the lifting structure.
- Open/retract the platform extension.

This machine is equipped with special safety devices capable to limit the machine functions depending on the circumstances:

- Platform overload sensor.
- Tilt sensor.
- Compartment lock sensors.
- Pothole sensors.

2.2.2 MAIN CHARACTERISTICS - SE 1008 S1

The technical designation of this machine is: SE 1008 S1.

The main characteristics of this machine are:

- Electrical power supply with integrated batteries.
- 2 steering wheels.
- 2 drive wheels.
- Maximum platform floor height in transport position: 2.2m (7-2.6ft).
- Maximum platform floor height in work position: 7.99m (26-2.6ft).
- Maximum load capacity on the platform: 280kg (617lbs).
- Maximum load capacity on the platform extension: 115kg (254lbs).

This machine is equipped of specific controls allowing to use the following functions from the ground and/or the platform:

- Drive, steer and brake.
- Raise/Lower the lifting structure.
- Open/retract the platform extension.

This machine is equipped with special safety devices capable to limit the machine functions depending on the circumstances:

- Platform overload sensor.
- Tilt sensor.
- Compartment lock sensors.
- Pothole sensors.

2.2.3 TRANSPORT POSITION AND WORK POSITION

This procedure only applies to SE 0808 S1 models.

Transport position

The machine is in transport position when:

- The lifting structure is lower or equal to 1.8m (3-7ft).

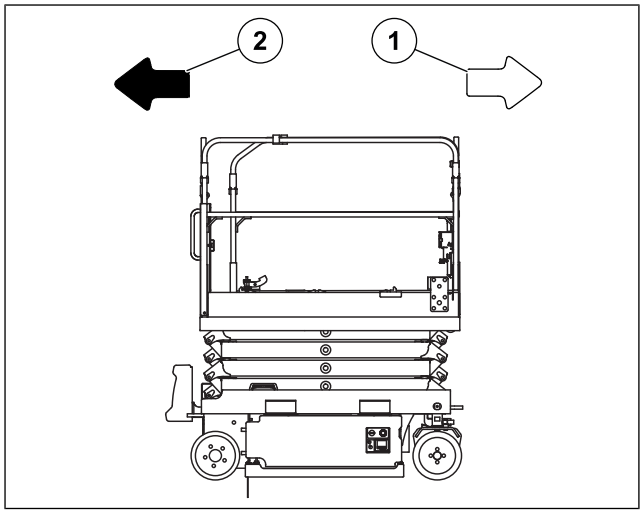


Figure 40: Transport position

Marker	Description
1	Forward
2	Reverse

Work position

The machine is in work position when:

- The lifting structure is raised above 1.8m (3-7ft).

2.2.4 TRANSPORT POSITION AND WORK POSITION

This procedure only applies to SE 1008 S1 models.

Transport position

The machine is in transport position when:

- The lifting structure is lower or equal to 2.2m (7-2.6ft).

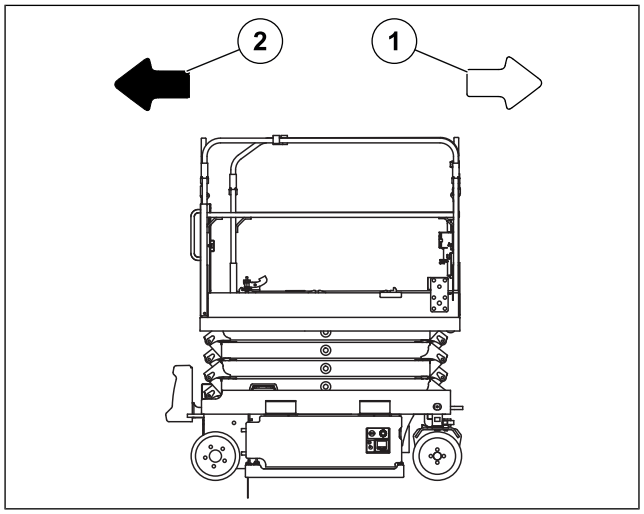


Figure 41: Transport position

Marker	Description
1	Forward
2	Reverse

Work position

The machine is in work position when:

- The lifting structure is raised above 2.2m (7-2.6ft).

2.2.5 DRIVING SPEEDS

This procedure only applies to SE 0808 S1 models.

Driving speeds depending on the speed selected

- Transport position

  Turtle and hare speed can only be activated when the machine is in transport position.

Direction of travel	Speed selected	Speed activated
Drive forward (white arrow)	Turtle	Turtle forward speed
	Hare	Hare forward speed
Drive reverse (black arrow)	Turtle	Turtle reverse speed
	Hare	Hare reverse speed

- Work position

  The work speed is automatically activated when the machine is in work position.

Driving speeds depending on the height of the lifting structure

-

Machine position	Platform floor height		Speed activated
	From mm (ft-in)	To mm (ft-in)	
Transport position	1020 (3-4.2)	1200 (3-11)	Maximum speed
	1200 (3-11)	1800 (3-7)	Reduced speed
Working position	1800 (3-7)	5800 (19-0.3)	Work speed

2.2.6 DRIVING SPEEDS

This procedure only applies to SE 1008 S1 models.

Driving speeds depending on the speed selected

- Transport position

  Turtle and hare speed can only be activated when the machine is in transport position.

Direction of travel	Speed selected	Speed activated
Drive forward (white arrow)	Turtle	Turtle forward speed
	Hare	Hare forward speed
Drive reverse (black arrow)	Turtle	Turtle reverse speed
	Hare	Hare reverse speed

- Work position

  The work speed is automatically activated when the machine is in work position.

Driving speeds depending on the height of the lifting structure

•

Machine position	*Platform floor height*		*Speed activated*
	From mm (ft-in)	*To mm (ft-in)*	
Transport position	1200 (3-11)	1500 (4-11)	Maximum speed
	1500 (4-11)	2200 (7-2.6)	Reduced speed
Working position (outdoor use)	2200 (7-2.6)	7000 (22-11.6)	Work speed
Working position (indoor use)	7000 (22-11.6)	7990 (26-2.6)	Work speed

2.3. MACHINE COMPONENTS

2.3.1 MACHINE COMPONENTS LOCATION - SE 0808 S1

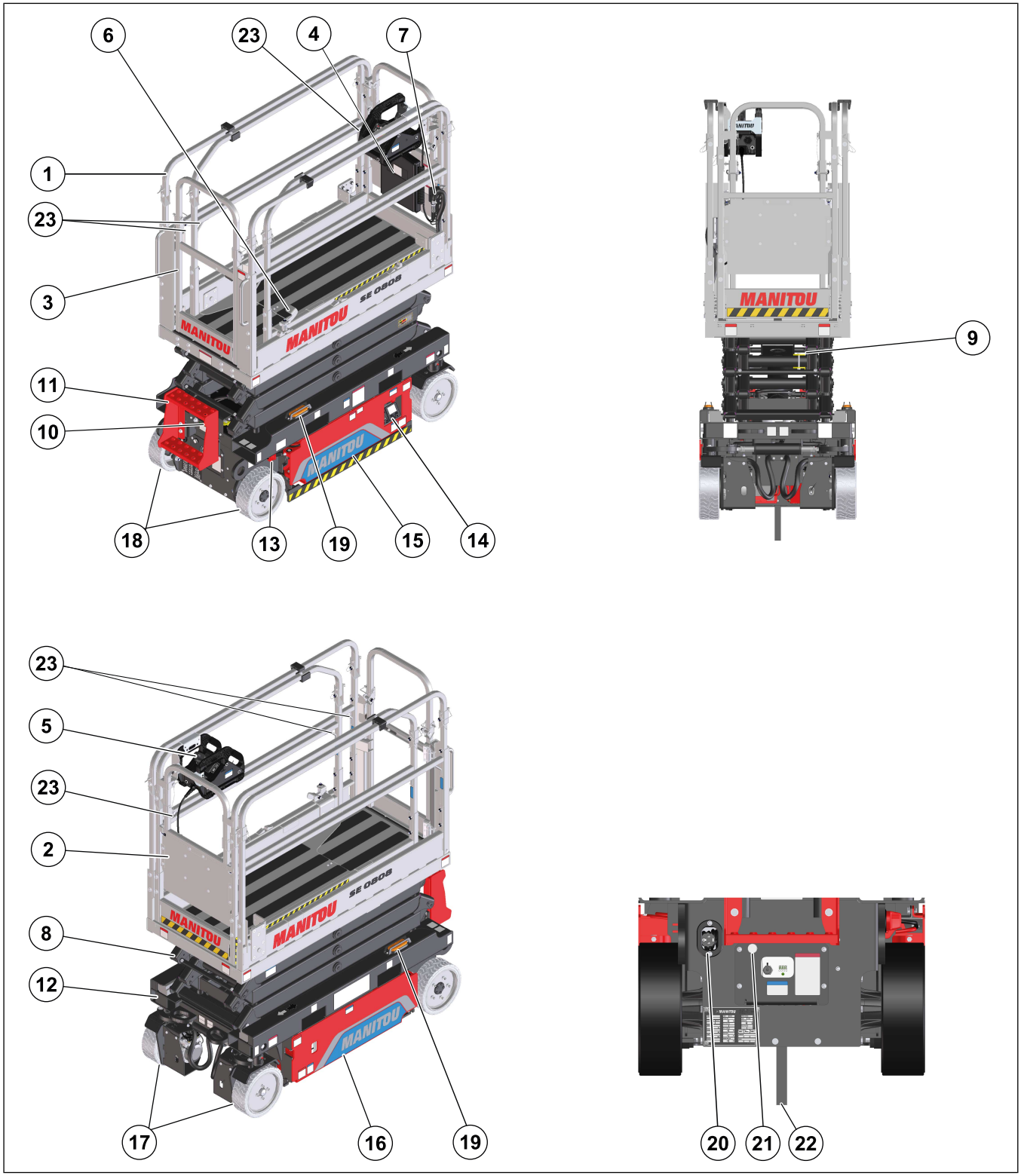


Figure 42: Machine components location - SE 0808 S1

Table 5. Machine components location - SE 0808 S1

Marker	Description	Option
1	Platform	
2	Platform extension	
3	Gate	
4	Storage box	
5	Platform control panel	
6	Platform extension pedal	
7	Electric power socket in the platform	
8	Lifting structure	
9	Safety stand	
10	Emergency control	
11	Platform access ladder	
12	Chassis	
13	Battery switch	
14	Ground level control panel	
15	Right battery compartment (1)	
16	Left hydraulic compartment (1)	
17	Front wheels	
18	Rear wheels	
19	Orange flashing beacons	
20	Battery charger electric plug	
21	Battery charge indicator lamp	
22	Static strap	
23	Sling anchor point	

(1) Press and hold the compartment latch, and:

- Pull the compartment to open it.
- Push the compartment to close it.

The compartment does not fully open or close if the latch is not held while opening or closing it.

For any other operations, the compartments must be properly closed, except during maintenance operations when the lifting structure needs to be raised/lowered (Refer to the corresponding chapters).

2.3.2 COMPONENTS LOCATION - SE 1008 S1

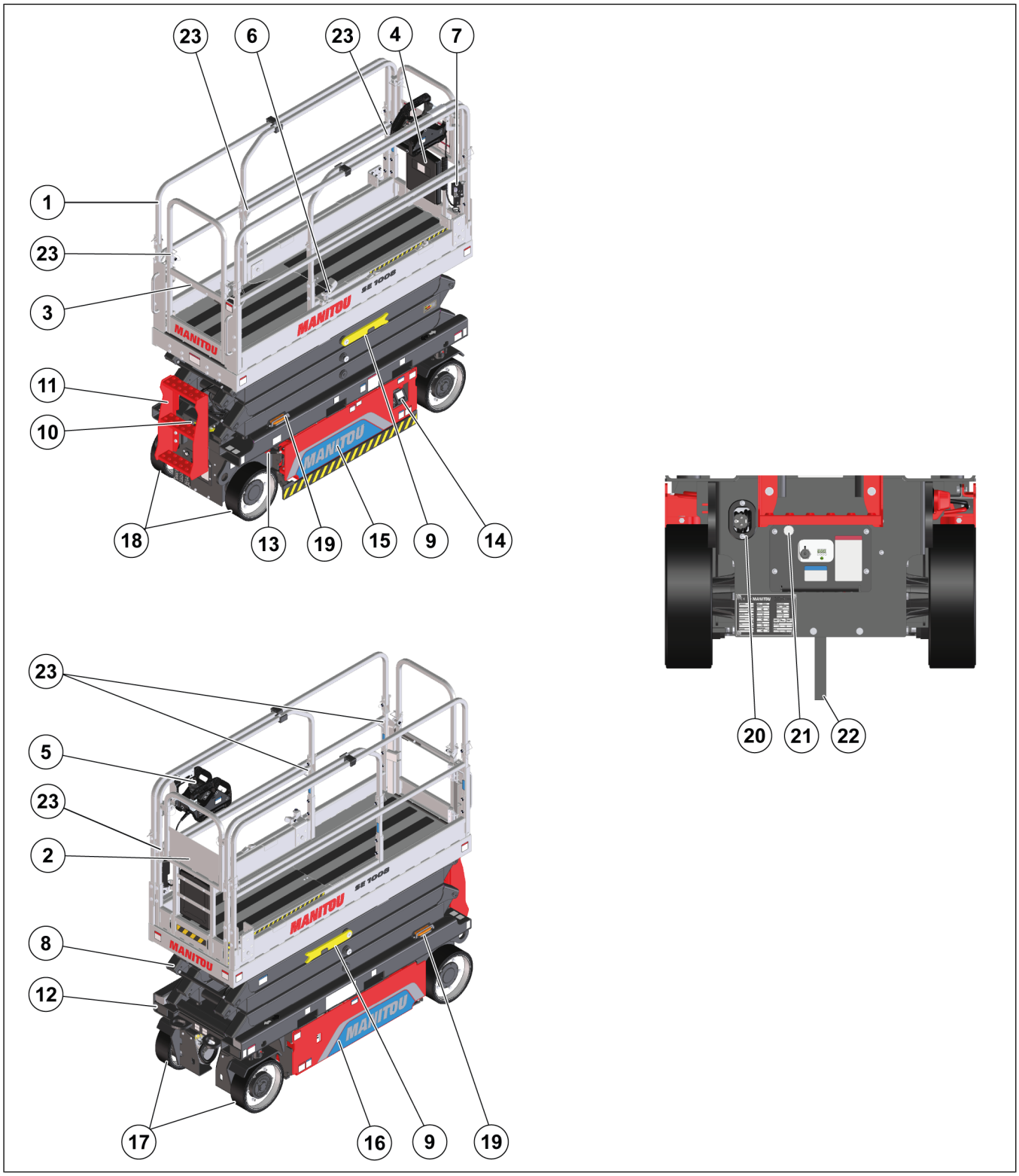


Figure 43: Components location - SE 1008 S1

Table 6. Machine components location - SE 1008 S1

Marker	Description	Option
1	Platform	
2	Platform extension	
3	Gate	
4	Storage box	
5	Platform control panel	
6	Platform extension pedal	
7	Electric power socket in the platform	
8	Lifting structure	
9	Safety stand	
10	Emergency control	
11	Platform access ladder	
12	Chassis	
13	Battery switch	
14	Ground level control panel	
15	Right battery compartment (1)	
16	Left hydraulic compartment (1)	
17	Front wheels	
18	Rear wheels	
19	Orange flashing beacons	
20	Battery charger electric plug	
21	Battery charge indicator lamp	
22	Static strap	
23	Sling anchorage point	

(1) Press and hold the compartment latch, and:

- Pull the compartment to open it.
- Push the compartment to close it.

The compartment does not fully open or close if the latch is not held while opening or closing it.

For any other operations, the compartments must be properly closed, except during maintenance operations when the lifting structure needs to be raised/lowered (Refer to the corresponding chapters).

2.3.3 ORANGE FLASHING BEACON

Standard use: the orange flashing beacons turn on automatically when the machine functions are activated.

Automatic flashing beacons (OPTION): the orange flashing beacons turn on automatically when the machine is powered up.

2.3.4 HORN

Standard use: the horn sounds when the horn push-button is pressed and held down.

2.3.5 STORAGE BOX

The storage box is resistant to weather conditions.

It must contain the operator’s manual.

2.3.6 PLATFORM EXTENSION

NOTICE

Improper use hazard

The platform extension must be latched.
Refer to the chapter "Using the platform extension".

2.4. MACHINE CONTROLS

2.4.1 GROUND CONTROLS

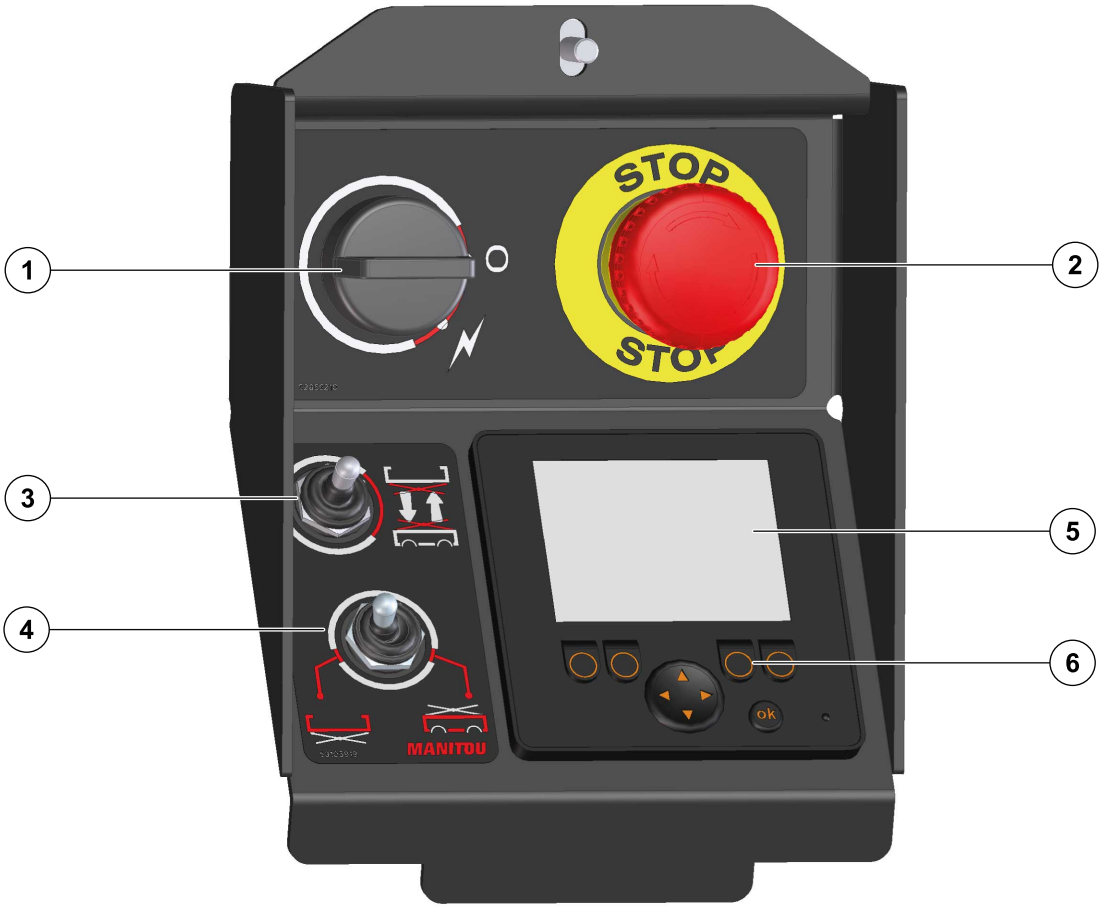


Figure 44: Ground controls

Table 7. Ground controls

Marker	Designation		Description
1	Key switch		Turn the key switch to the OFF position to power down the control system.
1	Key switch		Turn the key switch to the ON position to power up the control system.
2	Emergency stop button		Push in the emergency stop button to set it in the OFF position. Pull out the emergency stop button or turn it a quarter turn clockwise and release it to switch from the OFF position to the ON position. ***This emergency stop has priority at all times, even when machine functions are activated from the platform control panel.***
3	Platform lifting/lowering activation switch		Push and hold the controls activation switch (4) to the left and, • Push and hold the activation switch upwards to raise the lifting structure. • Push and hold the activation switch downwards to lower the lifting structure.
4	Controls activation switch		The platform controls are automatically activated.
4	Controls activation switch		Push and hold the activation switch to the left to activate the ground controls.
5	Ground display screen		Refer to the corresponding chapter.
6	Ground display screen control keys		Refer to the corresponding chapter.

2.4.2 CONTROLS IN THE PLATFORM

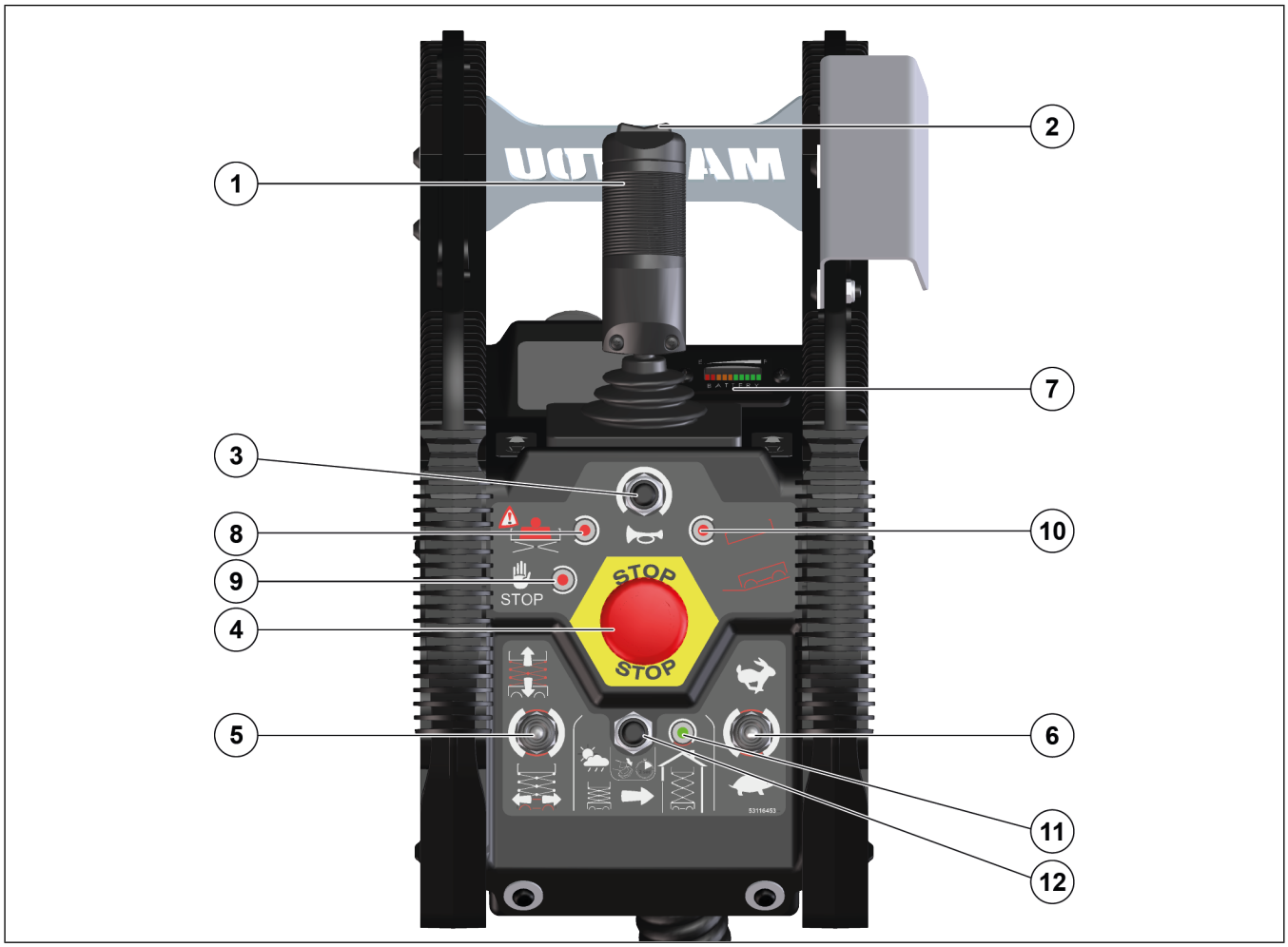


Figure 45: Controls in the platform

Table 8. Controls in the platform

Marker	Designation		Description
1	Driving/steering control handle		Select the desired driving speed (6), and: • Push and hold the control handle forward to drive the machine forward. Release to brake. • Pull and hold the control handle backwards to drive the machine reverse. Release to brake.
1	Driving/steering control handle		Push the activation switch (5) upwards, and: • Push and hold the control handle forward to lower the lifting structure. Release to stop. • Pull and hold the control handle backwards to raise the lifting structure. Release to stop.
2	Activation trigger		Push the activation switch (5) downwards, and: • Press and hold the left trigger to steer to the left. Release to stop. • Press and hold the right trigger to steer to the right. Release to stop.
3	Horn push-button		Press the horn push-button and release it to sound the horn.
4	Emergency stop button		Push in the emergency stop button to set it in the OFF position. Pull out the emergency stop button or turn it a quarter turn clockwise and release it to switch from the OFF position to the ON position. ***This emergency stop has priority at all times, except when the emergency stop button of the ground panel is in the OFF position.*** ***The controls of the ground panel have priority at all times, even when the emergency stop button of the platform control panel is in the OFF position.***
5	Activation switch		Push the activation switch upwards to control the lifting structure.
5	Activation switch		Push the activation switch downwards to control the steering functions.
6	Driving speed switch		Push the switch upwards to select the hare speed.
6	Driving speed switch		Push the switch downwards to select the turtle speed.
7	Platform display screen		Refer to the corresponding chapter.
8	Overload indicator light		Indicates an overload alert.
9	Fault indicator light		Indicates a fault.
10	Tilt indicator light		Indicates a tilt alert.

Marker	Designation		Description
			This indicator lights on in work position, and flashes in transport position.
11	Platform elevation limit indicator		Indicates that the machine has been switched to the indoor height limit. ***This control is only available on SE 1008 S1 models.***
12	Platform elevation limit switch		Press and hold the button for 2 seconds to switch between indoor and outdoor platorm elevation limits. The machine is set to the outdoor height limit by default and will return to this setting upon reboot. ***This control is only available on SE 1008 S1 models.***

2.5. GROUND DISPLAY SCREEN

2.5.1 GROUND POWER UP CYCLE

The following pages are displayed one after the other when the machine is powered up.

The battery charger is powered down.

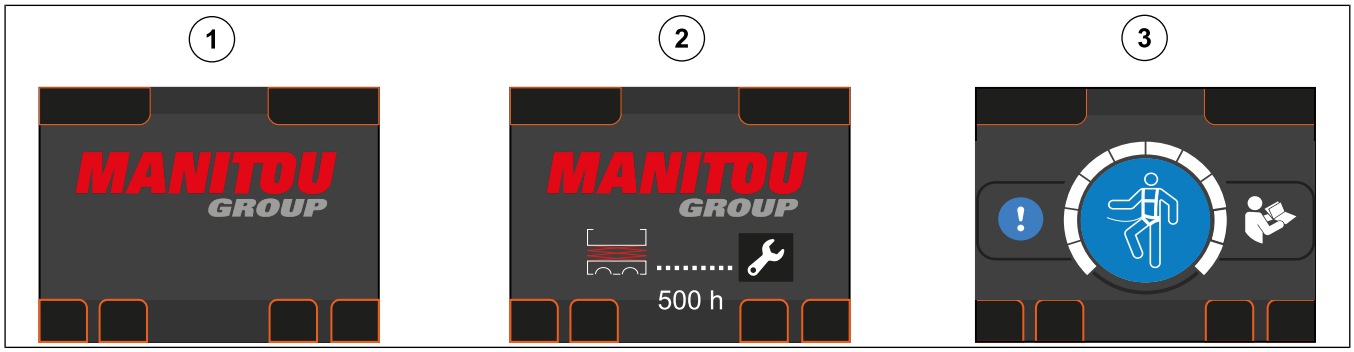


Figure 46: Ground power cycle

Table 9. Ground power cycle

Marker	Designation	Description
1	Initial page	Welcome message
2	Charge page	Remaining time before next maintenance
3	Check page	Use a personal fall protection equipment: refer to the operator's manual

2.5.2 GROUND DISPLAY FIELDS

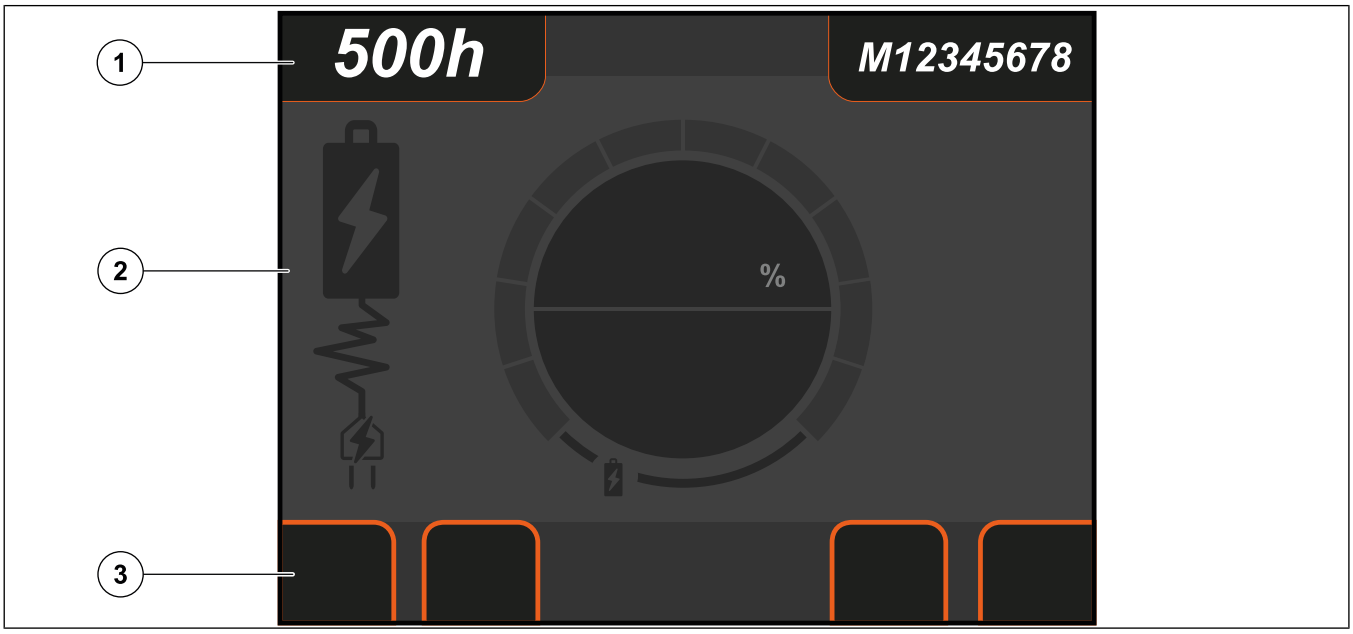


Figure 47: Ground display fields

Table 10. Ground display fields

Marker	Designation	Description
1	Display area No. 1	Displayed from left to right: • Hour meter of the machine. • Serial number of the machine.
2	Display area No. 2	Ground work page
3	Navigation pictograms	Refer to the corresponding chapter

2.5.3 GROUND WORK PAGE

The following informations are displayed when:

- The battery charger is powered down.
- No alert occurs.
- No fault occurs.

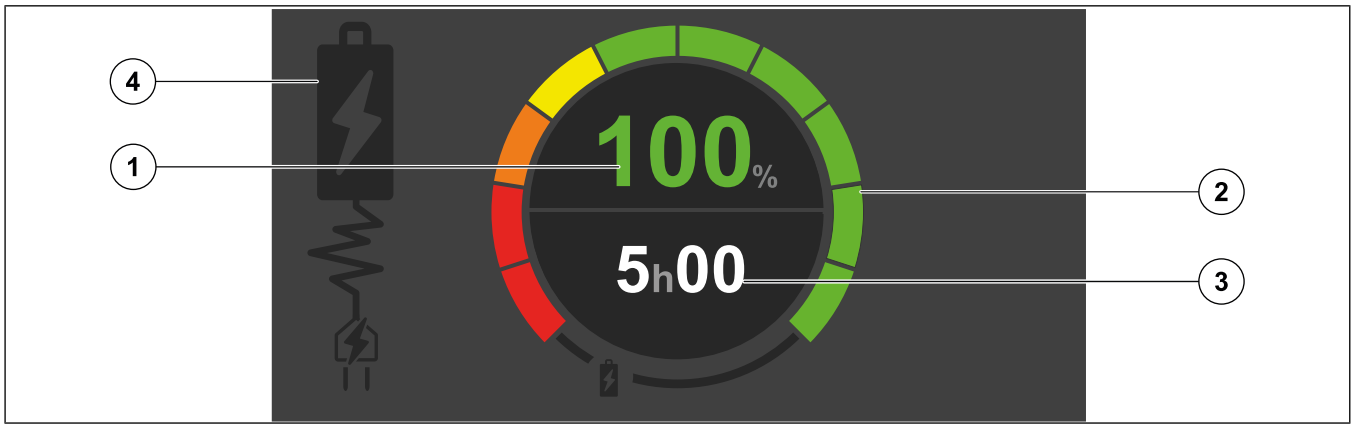


Figure 48: Ground work page

Table 11. Ground work page

Marker	Designation	Description
1	Batteries charge level	Batteries charge level in percentage: • Red text between 0% and 20%. • Orange text between 21% and 30% (1). • Yellow text between 31% and 40%. • Green text between 41% and 100%.
2	Batteries charge level	Segments displayed: • 2 red segments between 0% and 20%. • 1 orange segment between 21% and 30%. • 1 yellow segment between 31% and 40%. • 6 green segments between 41% and 100%.
3	Estimated remaining runtime	Values displayed in days and minutes.
4	Machine status indicator	Indicator: • Displayed in red between 0% and 20% (2). • Displayed in orange between 21% and 30%. • Displayed in yellow between 31% and 40%. • Displayed in black between 41% and 100%.

(1) It is recommended to charge the batteries.

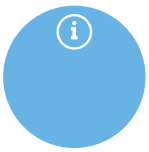
(2) Flashes when the batteries charge level is below 20%.

2.5.4 GROUND ALERT PAGES AND GROUND FAULT PAGES

Figure 49: Ground alert pages and ground fault pages

Ground alert pages

Table 12. Ground alert pages

Marker	Designation		Description
1	Danger - pictogram		Displayed: red background with a pictogram depending on the alert. Indicates a hazardous situation which, if not avoided, will result in death or serious injuries.
1	Warning - pictogram		Displayed: orange background with a pictogram depending on the alert. Indicates a hazardous situation which, if not avoided, can result in death or serious injuries.
1	Caution - pictogram		Displayed: yellow background with a pictogram depending on the alert. Indicates a hazardous situation which, if not avoided, can result in minor or moderate injuries.
1	Notice - pictogram		Displayed: blue background with a pictogram depending on the alert. Indicates a normal machine operation or a procedure to be followed that does not present any personal injury hazard.

Ground fault pages

Table 13. Ground fault pages

Marker	Designation		Description
1	Danger - pictogram		Displayed: grey background with a safety alert pictogram. Indicates a situation which, if not avoided, will result in damage to the machine and which does not present any personal injury hazard.
1	Major machine fault - pictogram		Displayed: grey background with a safety alert pictogram and a pictogram depending on the alert. Indicates a situation which, if not avoided, will result in damage to the machine and does not present any personal injury hazard.

2.5.5 GROUND DISPLAY SCREEN CONTROL KEYS

Figure 50: Ground display screen control keys

Table 14. Ground display screen control keys

Marker	Designation		Description
1	Ground display screen control keys		Press the keys (1) to activate the controls corresponding to the navigation pictograms (2).
2	Menu		Press the key (1) to access the menus.
2	Previous		Press the key (1) to return to previous menu.
2	OK		Press the key (1) to validate the selection.
4	OK		Press the key (4) to validate the selection.
2	Navigation in the menu/page to the left		Press the key (1) to navigate in the menu/page to the left.
2	Navigation in the menu/page to the right		Press the key (1) to navigate in the menu/page to the right.
3	Navigation in the menu		Press the navigation key (3) to navigate in the menu.
2	Plus		Press the key (1) to increment a value.
2	Minus		Press the key (1) to decrement a value.
2	Maintenance menu		Press the key (1) to access the maintenance menu.
2	Maintenance alert		Indicates a maintenance alert. Press the key (1) to access the corresponding menus.
2	Alerts/Faults		Indicates an alert or a fault. Press the key (1) to access the alerts and faults list.
2	Reset		Press the key (1) to reset the menu.

2.5.6 MENU LIST

2.6. PLATFORM DISPLAY SCREEN

2.6.1 PLATFORM DISPLAY FIELDS

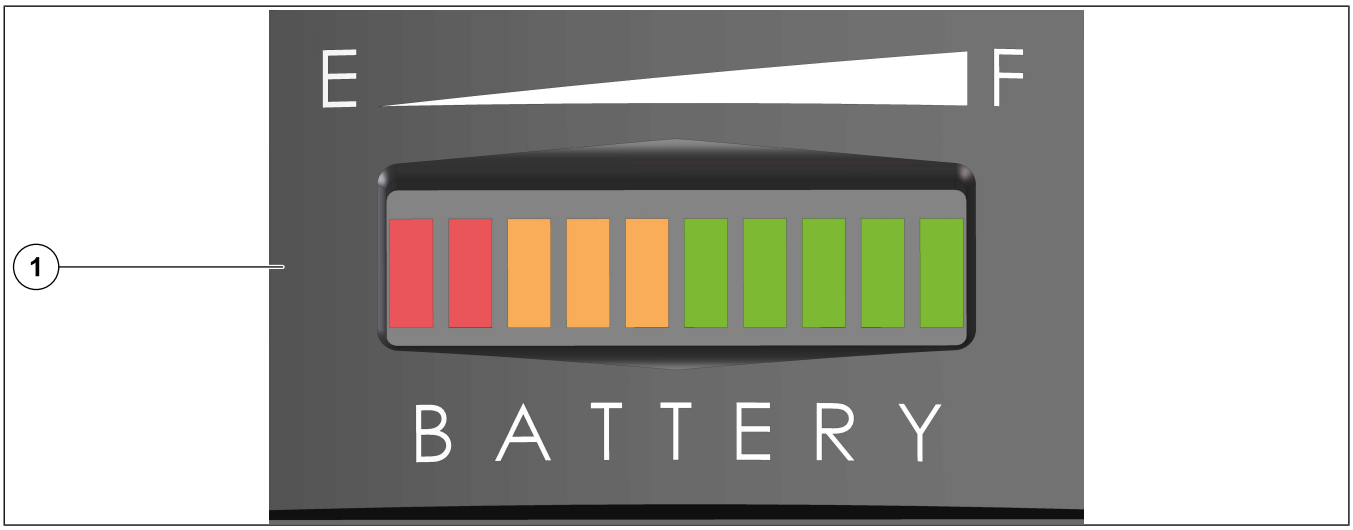


Figure 51: Platform display fields

Table 15. Platform display fields

Marker	Designation	Description
1	Battery charger page	Indicates the level of charge of the batteries.

2.6.2 PLATFORM WORK PAGE

Table 16. Platform work page

Marker	Designation	Description
1	Batteries charge level	Batteries charge level in percentage: • 2 red segments between 0% and 25%.(1) • 3 orange segments between 26% and 50%. • 5 green segments between 51% and 100%.

(1) Flashes between 0% and 5%.

2.7. ALERTS AND FAULTS

2.7.1 ALERTS DEFINITION

Overload alert

It occurs when the load in the platform has reached the maximum platform load capacity.

Tilt alert

It occurs when the chassis tilt has reached the maximum allowed chassis tilt.

Open compartment alert

It occurs when one of the compartments is not properly closed when using the machine.

Potholes position alert

It occurs when the potholes are not properly positioned.

Maintenance alert

It occurs when a maintenance is necessary.

2.7.2 SIGNALING OF ALERTS AND FAULTS

Signaling of ground alerts

Table 17. Signaling of ground alerts

Alert	Ground display screen		Horn
Overload alert	An alert page is displayed		Sounds continuously
Tilt alert	An alert page is displayed		OFF
Open compartment alert	An alert page is displayed		OFF
Potholes position alert	An alert page is displayed		OFF
Maintenance alert	The maintenance pictogram is displayed		OFF

Signaling platform alerts

Table 18. Signaling platform alerts

Alert	Overload indicator	Tilt indicator	Buzzer
Overload alert	Flashes(1)	OFF	Sounds continuously
Tilt alert (transport position)	OFF	Flashes(1)	Sounds intermittently (1)
Tilt alert (work position)	OFF	ON	Sounds intermittently (1)
Maintenance alert	OFF	OFF	OFF

(1) ON = 1 second, OFF = 1 second.

Signaling of ground faults

Table 19. Signaling of ground faults

Fault	Ground display screen	Horn
Motor/controller major fault	A fault page is displayed	OFF
Machine major fault	A fault page is displayed	OFF
Motor/controller major fault	A fault page is displayed	OFF
Machine minor fault	A fault page is displayed	OFF

Signaling platform faults

Table 20. Signaling platform faults

Fault	Fault indicator	Buzzer	Comments
Motor/controller major fault	ON	Sounds intermittently (1)	-
Machine major fault: proportional distributor fault	ON	Sounds intermittently (1)	-
Machine major fault: inconsistency of the overload sensors	ON	Sounds intermittently (1)	-
Machine major fault: inconsistency of the tilt sensors calibration	ON	Sounds intermittently (1)	Simultaneous functions are locked.
Other machine major fault	ON	Sounds intermittently (1)	-
Motor/controller major fault	ON	Sounds intermittently (1)	-
Machine minor fault: the activation switch is blocked	ON	Sounds intermittently (1)	-
Machine minor fault: the trigger of the drive/steer control handle is blocked	ON	Sounds intermittently (1)	-
Other machine minor fault	ON	Sounds intermittently (1)	-

(1) ON = 0.4 second, OFF = 0.4 second.

2.7.3 LOCKED FUNCTIONS IN THE EVENT OF AN ALERT OR A FAULT

Machine in work position

Locked functions from the ground:

Table 21. Machine in work position, locked functions from the ground

Function	Overload alert (1)	Tilt alert	Batteries charge level less than or equal to 5%
Raise the lifting structure	●	●	-
Lower the lifting structure	●	-	-

(1) The overload alert starts when the lifting structure reaches 2.2m (7-2.6ft).

Locked functions from the platform:

Table 22. Machine in work position, locked functions from the platform

Function	Overload alert (1)	Tilt alert	Batteries charge level less than or equal to 5%
Drive (forward/reverse)	●	●	-
Steer (to the left/to the right)	●	●	-
Raise the lifting structure	●	●	-
Lower the lifting structure	●	-	●

(1) The overload alert starts when the lifting structure reaches 2.2m (7-2.6ft).

Locked functions when the batteries charge level is too low

Table 23. Machine in work or transport position, locked functions when the batteries charge level is too low

Function	*Batteries charge level between 10% and 5%*	*Batteries charge level between 5% and 0%*	*Batteries charge level equal to 0%*	*Batteries charge level less than 0%*
Raise the lifting structure	● (movement limited to 3 seconds)	-	-	-
All movement (except driving)	-	●	-	-
All movement	-	-	●	-
All movement (except driving, if the dealer code is used)	-	-	-	●

3. MACHINE OPERATION

3.1. SAFETY PRECAUTIONS: OPERATING THE MACHINE

⚠ DANGER

Improper use hazard

The operator has the responsibilities to read and fully understand this operator's manual.
The operator has the responsibilities to read and fully understand this operator's manual and the manual of responsibilities.
Do not operate the machine other than to transport and lift personnel with their tools and materials to an areal work site.
Do not operate the machine in the event of unsafe weather conditions. Always check the wind speed or an imminent storm.

⚠ DANGER

Collision hazard

Sound the horn to warn the personnel from the ground in the event of an unsafe situation.

NOTICE

Improper use hazard

Make sure the compartments are properly closed before operating the machine.
Do not drive the machine in water.

3.2. PLATFORM INSTALLATION

3.2.1 ENTERING AND EXITING THE PLATFORM

⚠ DANGER

Fall hazard

Do not enter and exit the platform if the lifting structure is not fully lowered.
Always enter and exit the platform facing the inside of the platform.
Always use two hands and one foot, or two feet and one hand when entering and exiting the platform.

- Enter or exit the platform:
  a. Open the swing gate.
  b. Enter or exit the platform using the steps.
  c. Close the swing gate.
  d. Make sure that the swing gate is properly closed.

3.2.2 ATTACHING THE LANYARD OF THE SAFETY HARNESS

⚠ DANGER

Fall hazard

Always remember that only one operator/occupant is allowed to be attached to a lanyard anchorage point.

1. Put on the safety harness.
2. Attach the lanyard of the harness to a lanyard anchorage point in the platform.
3. Check that the lanyard is properly attached.

3.3. BEFORE USING THE MACHINE

3.3.1 SAFETY PRECAUTIONS: BEFORE OPERATING THE MACHINE

⚠ DANGER

Improper use hazard

The walk-around inspection, the routine maintenance, the workplace inspection and the function tests must be properly performed by the operator in the same order as described in this manual before operating the machine.

3.3.2. WALK-AROUND INSPECTION

3.3.2.1 Safety precautions: walk-around inspection

⚠ DANGER

Improper use hazard

Do not operate the machine if damages or malfunctions are discovered.

The walk-around inspection is designed to ensure that the machine does not have any damage.

The operator has the responsibility to perform the walk-around inspection before operating this machine.

The operator has the authority to remove the machine from service if any problem is detected.

If damages or malfunctions are discovered, the machine must be repaired by a qualified service technician accredited by Manitou.

The walk-around inspection must be done again after repairing.

During the walk-around inspection:

- The machine must be powered down.
- The machine must be in transport position.
- The platform extension must be retracted and latched.

3.3.2.2 Performing the walk-around inspection

The right and left compartments must be open to perform the walk-around inspection. They must be closed once completed.

- Perform a visual and tactile inspection of the machine:
  a. Check that the operator's manual and the manual of responsibilities are clean and complete.
  b. Check the decals and be sure they are all present, clean and legible.
  c. Check for leaks: battery fluid, hydraulic oil and lubricants.
  d. Check the machine structure for dents or damages.
  e. Check the machine structure for welds or component cracks and for excessive corrosion.
  f. Check for excessive mechanical clearance or wear in the structure.
  g. Check that the platform is in good condition: structure, guardrails, floor, swing gate, lanyard anchorage points, extension, etc.
  h. Check that the hydraulic components are in good condition: pumps, distributors, valves, motors, cylinders, hoses, fittings, etc.
  i. Check that the mechanical components are in good condition: axles, cardan shaft, wheels, tires, tie-rods, ring gear, pins, etc.
  j. Check that the electrical components are in good condition: controls panels, batteries, cables, fuses, beacons, electric wires, connectors, keys, switches, push-buttons, control handles, etc.
  k. Check that the static strap under the chassis is in good condition.
  l. Check that the covers panels, the handles and the latches are in good condition.
  m. Check for missing or loose components: pins, fasteners, nuts, bolts, etc.
  n. Check for unauthorized parts or modifications.
  o. Check the general cleanliness of the machine: platform floor, compartment, etc.

3.3.3. ROUTINE MAINTENANCE

3.3.3.1 Safety precautions: routine maintenance

The walk-around inspection must be properly done before performing the routine maintenance.

The routine maintenance is designed to ensure that the machine is in good condition and can be operated safely.

The operator has the responsibility to perform the routine maintenance before operating this machine.

During the routine maintenance, except when specific instructions are given:

- The machine must be powered down.
- The machine must be on a level surface.
- The machine must be in transport position.
- The platform extension must be retracted and latched.
- The lifting structure must be fully lowered.
- The platform must be empty.

3.3.3.2 Checking the charge level of the high-voltage batteries

NOTICE

Improper use hazard

Do not operate the machine if the batteries charge level is lower than 10%.

1. Power up the machine.
2. Check the high-voltage batteries charge level displayed on the ground display screen.
3. Make sure that the ground display screen and the platform display screen operate properly and that all informations are clearly visible.
4. Power down the machine.

If the batteries charge level is low:

- Refer to the maintenance personnel.

3.3.3.3 Checking the fluid level of the high-voltage batteries

⚠ DANGER

Explosion hazard

Only fill the tank with distilled water.
Do not allow flames or sparks and do not smoke near the batteries during maintenance.

⚠ WARNING

Electrocution hazard

At any time make sure that the positive terminals can not come into contact with the negative terminals or with metallic parts of the machine.

⚠ CAUTION

Burn hazard

Batteries contain fluid that is highly corrosive. Always wear protective clothing, gloves, and safety eyewear or face shield during maintenance.
Avoid contact with any body parts and with clothing at all times. Flush any exposed area with clean water and seek advice from a healthcare professional.

NOTICE

Improper use hazard

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

The machine must be on a level surface.

- **Check the high-voltage batteries fluid with the manual filling:**

Each battery has an individual filling circuit.

a. Open the right battery compartment.

b. Check the water level of each vent well.

The water level must be 3mm (0.125in) below the bottom of the vent well (1) or must be reaching the MAX indicator (2) on machines with battery fluid level indicators.

Figure 52: Vent well without level indicator

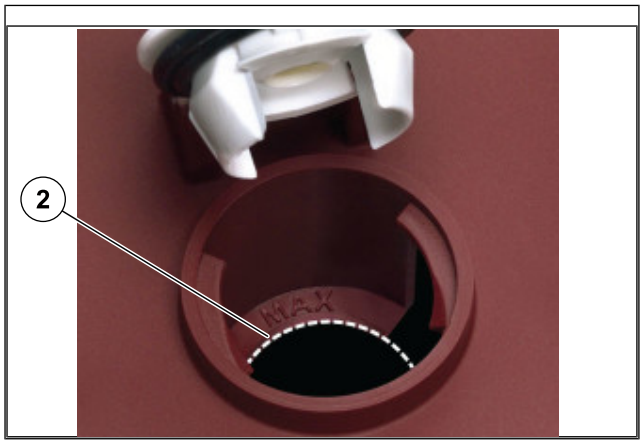


Figure 53: Vent well with level indicator

c. Close the right battery compartment.

If one or several fill level are below the specified level:

1. Fill the tank (3) with distilled water.

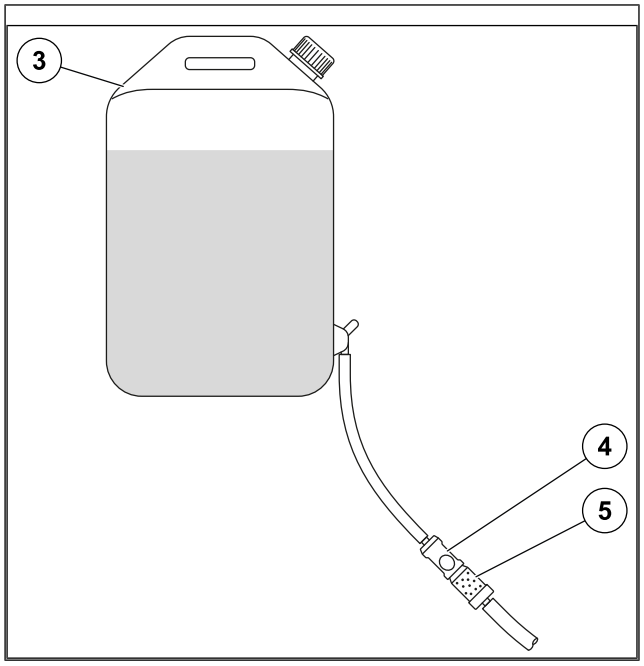


Figure 54: Manual filling

2. Open the right battery compartment.
3. Connect the tank fitting (4) with the fitting (5) of the battery filling circuit.
4. Place the tank at least at 3m (9ft-10in) from the ground.

Make sure not to damage the filling hose.

5. Open the tap of the tank.
6. Close the tap of the tank when the level reaches 3mm (0.125in) below the bottom of the vent well (1) or reaches the MAX indicator (2) on machines with battery fluid level indicators.
7. Disconnect the fittings (4) and (5).
8. Close the right battery compartment.

3.3.3.4 Checking the hydraulic oil level

NOTICE

Improper use hazard

The machine must be in transport position before checking the hydraulic oil level.
There may be a difference between a hot and a cold oil. It is recommended to check again the level when the hydraulic oil is hot.

1. Open the left hydraulic compartment.
2. Check that the hydraulic oil level is located between the MIN and MAX marks (1).

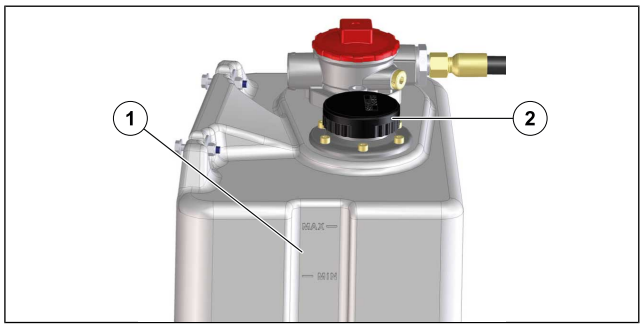


Figure 55: Hydraulic tank level and tank cap location

3. If the level is correct, make sure that the tank cap is properly closed.
4. Close the left hydraulic compartment.

If the hydraulic oil level is low:

1. Remove the tank cap.
2. Add hydraulic oil until the correct level is reached.
3. Put the tank cap back in place.
4. Close the left hydraulic compartment.

3.3.3.5 Checking the potholes operation

⚠ WARNING

Tip over hazard

Always make sure that the potholes function properly before operating the machine.

1. Power up the machine.
2. Raise the lifting structure for a few seconds.
   - The potholes should position under the compartments properly.

3.3.3.6 Checking the wear of the wheels

1. Check that the wheels do not have any anomaly, such as:
   - Tears, damages, distortions.
   - Cuts or holes superior to 3cm (2in).
   - Important wear or tear superior to 4mm.

If the wheels present any wear:

- Refer to the chapter "Replacing the wheel".

3.3.4. WORKPLACE INSPECTION

3.3.4.1 Safety precautions: workplace inspection

⚠ DANGER

Workplace related hazard

Do not operate the machine if the workplace is not safe.
Do not operate the machine in the event of unsafe weather condition.

The walk-around inspection and the routine maintenance must be properly done before performing the workplace inspection.

The workplace inspection is essential to collect a wide range of informations about the working area before operating the machine.

The operator has the responsibility to perform the workplace inspection.

The operator has the responsibility to detect and remember any possible hazards to avoid them while operating the machine.

3.3.4.2 Inspecting the workplace

1. Check and remember weather conditions like the wind speed or an imminent storm.
2. Check and remember electric lines, cranes, building structures, trees and any possible hazardous overhead obstructions.
3. Check and remember electrical components, building structures, fenaces and any possible hazardous ground obstructions.
4. Check and remember holes, drop-offs, bumps, debris and any possibly hazardous ground conditions.
5. Check and remember slopes, slippery/uneven surfaces and any possibly hazardous surface conditions.
6. Check and remember the travel of the persons on ground, other machines or vehicles and any possibly hazardous circulation conditions.
7. Check and remember bridges, gateways, ramps and any possibly hazardous structures that would not withstand with the mass of the machine.
8. Check and remember any other possibly hazardous locations.

3.3.5. FUNCTION TESTS

3.3.5.1 Safety precautions: function tests

⚠ DANGER

Improper use hazard

Do not use the machine if any malfunction is discovered.

The walk-around inspection, the routine maintenance and the workplace inspection must be properly done before performing the function tests.

Continue to perform the walk-around inspection during the function tests.

The function tests are designed to detect any malfunctions before putting the machine in service.

The operator has the responsibility to perform the function tests before operating this machine.

The function tests must be performed on a firm and level surface, clear of any obstructions and debris.

The function tests must be performed in the same order as described in this operator's manual.

The platform must be empty when performing the function tests, except if specific instructions are given.

The operator has the authority to remove the machine from service if any problem is detected.

If damages or malfunctions are discovered, the machine must be repaired by a qualified service technician accredited by Manitou.

The walk-around inspection, the routine maintenance and the workplace inspection must be done again after repairing.

3.3.5.2 Testing the power up and the emergency stop from the ground

The key switch is in the OFF position.

The machine is in transport position.

1. Make sure that the **emergency stop** buttons of the ground control panel and of the platform control panel are in the ON position.
2. Turn the key switch to the ON position.

   Result:

   - The ground display screen should turn on and the power up cycle should be displayed.
   - The buzzer should sound one time.
3. Wait for the end of the power up cycle.

4. Push in the **emergency stop** button.

   Result:

   - The emergency stop button should be pushed in the OFF position.
   - The ground display screen should turn off.

5. Pull out the **emergency stop** button or turn it a quarter clockwise and release it.

   Result:

   - The emergency stop button should be in the ON position.
   - The ground display screen and the power up cycle should turn on.
   - The buzzer should sound one time.

6. Wait for the end of the power up cycle.

3.3.5.3 Testing the machine functions from the ground

The machine is powered up.

The machine is in transport position.

1. Do not touch the **activation** switch. Try to activate all machine functions one after the other.

   Result:

   - No function should be able to activate.

2. Push and hold the **activation** switch to the right.
3. Activate all machine functions one after the other. Check that all movements are complete until mechanical stops.

   Result:

   - All functions should be able to activate.
   - All movements should operate properly and smoothly.
   - All movements should be complete until mechanical stops

4. Set the machine in transport position.
5. Release the **activation** switch.

3.3.5.4 Testing the rescue controls from the ground

The machine is powered up.

The machine is in transport position.

1. Turn the key switch to the OFF position.
2. Push in the **emergency stop** button of the platform control panel.
3. Turn the key switch to the ON position.
4. Push and hold the **activation** switch to the right.

   Result:

   - The ground display screen should turn on and the power up cycle should be displayed.
   - The buzzer should sound one time.

5. Wait for the end of the power up cycle.
6. Activate all machine functions one after the other.

   Result:

   - Every function should be able to activate.

7. Raise the lifting structure for 4 seconds.
8. Release the **activation** switch.
9. Perform the rescue controls as described in the corresponding chapter.

   - The rescue controls should operate properly.

10. Set the machine in transport position.
11. Pull out the **emergency stop** button or turn it a quarter turn clockwise and release it.

3.3.5.5 Testing the overload alert from the ground

This function test only applies to SE 0808 S1 and SE 1008 S1 models.

The machine is powered up.

The machine is in transport position.

1. Put a uniformly distributed load of 280kg (617lb) in the platform.
2. Raise the platform to 2.2m (7-2.6ft).

   Result:

   - An alert page should be displayed on the ground display screen.
   - The buzzer should sound continuously.

3. Try to activate all machine functions one after the other.

   Result:

   - No function should be able to activate.

4. Remove about 50kg to have a 230kg (507lb) load in the platform.

   Results:

   - The alert page should no longer be displayed.
   - The buzzer should stop.

5. Activate all machine functions one after the other.

   Result:

   - All functions should be able to activate.

6. Set the machine in transport position.

3.3.5.6 Testing the overload alert from the platform

This function test only applies to SE 0808 S1 and SE 1008 S1 models.

The machine is powered up.

The machine is in transport position.

A 280kg (617lb) load is in the platform.

1. Enter the platform.
2. Raise the platform to 2.2m (7-2.6ft).

   Result:

   - The overload indicator light should flash.
   - The buzzer should sound continuously.

3. Try to activate all machine functions one after the other.

   Result:

   - No function should be able to activate.

4. Exit the platform.

   Result:

   - The overload indicator light should turn off.
   - The buzzer should stop.

5. Remove all the load from the platform.

3.3.5.7 Testing the emergency stop from the platform

The key switch is in the ON position.

The machine is in transport position.

An operator is in the platform.

1. Push in the **emergency stop** button.

   Result:

   - The emergency stop button should be pushed in the OFF position.
   - The platform display screen should turn off.

2. Pull out the **emergency stop** button or turn it a quarter turn clockwise and release it.

   Result:

   - The emergency stop button should be in the ON position.
   - The platform display screen should turn on.
   - The buzzer should sound one time.

3. Wait for the end of the power up cycle.
4. Raise the lifting structure and push in the **emergency stop** button at the same time.

   Result:

   - The emergency stop button should be pushed in the OFF position.
   - The lifting structure should stop lifting.

5. Pull out the **emergency stop** button or turn it a quarter turn clockwise and release it.

   Result:

   - The emergency stop button should be in the ON position.

6. Fully lower the lifting structure.

3.3.5.8 Testing the horn

The machine is powered up.

The machine is in transport position.

1. Press the horn key and release it.

   Result:

   - The horn should sound.

3.3.5.9 Testing the machine functions from the platform

The machine is powered up.

The machine is in transport position.

Do not drive and steer the machine during this test. In case of storage or use of temperatures less than or equal to 0°, make 3 complete elevations of the structure from the ground before the test.

An operator is in the platform.

1. Do not touch the **activation** trigger. Try to activate all machine functions one after the other.

   Result:

   - No function should be able to activate.

2. Push and hold the **activation** trigger.

3. Activate all machine functions one after the other. Check that all movements are complete until mechanical stops.

   Result:

   - All functions should be able to activate.
   - All movements should operate properly and smoothly.
   - All movements should be complete until mechanical stops

4. Set the machine in transport position.
5. Release the **activation** trigger.

3.3.5.10 Testing the driving/steering functions from the platform

The machine is powered up.

The machine is in transport position.

An operator is in the platform.

1. Put the **driving speed** switch on the hare position.
2. Push and hold the driving/steering control handle forward.
3. Drive forward, test the driving/steering functions and brake.

   Evaluate and remember the braking distance of the machine.

   Result:

   - The driving/steering functions should be able to activate.
   - Driving and steering should operate properly and smoothly.
   - Braking should operate properly.
   - The driving speed should be the forward hare speed.

4. Push and hold the driving/steering control handle backwards.
5. Drive reverse on a short distance and brake.

   Evaluate and remember the braking distance of the machine.

   Result:

   - The driving/steering functions should be able to activate.
   - Driving and steering should operate properly and smoothly.
   - Braking should operate properly.
   - The driving speed should be the hare reverse speed.

6. Put the **driving speed** switch on the turtle position.
7. Push and hold the driving/steering control handle forward.
8. Drive forward, test the driving/steering functions and brake.

   Evaluate and remember the braking distance of the machine.

   Result:

   - The driving/steering functions should be able to activate.
   - Driving and steering should operate properly and smoothly.
   - Braking should operate properly.
   - The driving speed should be the hare forward speed.

9. Push and hold the driving/steering control handle backwards.
10. Drive reverse on a short distance and brake.

    Evaluate and remember the braking distance of the machine.

    Result:

    - The driving/steering functions should be able to activate.
    - Driving and steering should operate properly and smoothly.
    - Braking should operate properly.
    - The driving speed should be the hare reverse speed.

3.3.5.11 Testing the work speed from the platform

The machine is powered up.

The machine is in transport position.

The hare speed is selected.

An operator is in the platform.

1. Put the **driving speed** switch on the turtle position.
2. Drive the machine forward on a short distance and brake.

   Evaluate and remember the braking distance of the machine.

3. Raise the lifting structure for 4 seconds.

4. Drive the machine forward on a short distance and brake.

   Result:

   • The driving speed should be the work speed.

5. Fully lower the lifting structure.
6. Drive the machine forward on a short distance and brake.

   Result:

   • The driving speed should be the turtle speed.

3.3.5.12 Testing the maximum elevation limit from the platform

This function test only applies to SE 1008 S1 models.

The machine is powered up.

The machine is in transport position.

An operator is in the platform.

1. Test the outdoors maximum platform elevation limit from the platform.
   a. Push the **activation** switch upwards.
   b. Raise the lifting structure until it stops.

      Result:

      • The height of the platform floor should correspond to the maximum platform elevation limit outdoors.

   c. If the lifting structure is at the maximum elevation limit indoors when the switch is pushed to the outdoors position:

      • The buzzer should sound continuously.

      • Only the lowering of the lifting structure should be able to activate until reaching the maximum platform elevation limit outdoors.

   d. Fully lower the lifting structure.
   e. Release the **activation** switch.
2. Test the maximum platform elevation limit indoors from the platform.
   a. Push the **platform elevation limit** switch for 2 seconds to switch to the indoor platform elevation limit.

      Result:

      • The platform elevation limit indicator lights up.

   b. Push the **activation** switch upwards.
   c. Raise the lifting structure until it stops.

      Result:

      • The height of the platform floor should correspond to the maximum platform elevation limit indoors.

   d. Fully lower the lifting structure.
   e. Release the **activation** switch. and the **platform elevation limit** switch.
   f. Push the **platform elevation limit** switch for 2 seconds to switch to to return to the default outdoor platform elevation limit.

      Result:

      • The platform elevation limit indicator lights off.

3.3.5.13 Testing the tilt alert from the platform

The machine is powered up.

The machine is in transport position.

The turtle speed is selected.

An operator is in the platform.

1. Select a slope between 3.5° and 1.5°.

2. Test the tilt alert in transport position.
   a. Enter the platform.
   b. Slowly drive the machine on the slope.

      We recommend driving the machine reverse on the slope.

      Result:

      - The platform tilt indicator light should flash.
      - The buzzer should sound.

   c. Brake the machine on the slope.

      Result:

      - Braking should operate properly.
      - The machine should be completely stationary for at least a minute.

   d. Try to raise the lifting structure.

      - The functions should not be able to activate.

   e. Slowly drive to set the machine off the slope on a level surface.

      - The platform tilt indicator light should be off.
      - The buzzer should stop.

   f. Brake the machine.

3. Test the tilt alert in work position.
   a. Enter the platform.
   b. Raise the lifting structure for 4 seconds.
   c. Slowly drive the machine on the slope.

      We recommend driving the machine reverse on the slope.

      Result:

      - The machine should brake automatically.
      - The platform tilt indicator light should be on.
      - The buzzer should sound.

   d. Try to raise the lifting structure.

      - The functions should not be able to activate.

   e. Lower completely the lifting structure.

      Result:

      - The functions should be able to activate.
      - The platform tilt indicator light should be on.

   f. Slowly drive to set the machine off the slope on a level surface.

      - The platform tilt indicator light should turn off.
      - The buzzer should stop.

   g. Brake the machine.
   h. Power down the machine.

3.3.5.14 Testing the 230V electrical outlet in the platform

⚠ DANGER

Electrocution hazard

Plug the electrical plug to a 230V/50Hz, 16A power source.
Only plug electrical devices that operate at 230V/50Hz, maximum 16A.

The machine is powered down.

The machine is in transport position.

1. Plug the electrical plug to a power source.
2. Enter the platform.
3. Plug an electrical device to the electrical outlet.

4. Power up the electrical device.

   Result:

   - The electrical device should power up.
5. Power down the electrical device.
6. Unplug the device.
7. Exit the platform.
8. Unplug the electrical plug.

3.4. EMERGENCY STOP

3.4.1 OPERATING THE EMERGENCY STOP

1. Push in the **emergency stop** button to stop all machine functions in the event of an anomaly or a dangerous situation.

   The machine functions can stop abruptly when pushing in the emergency stop button.

3.5. CHARGING THE BATTERIES

⚠ DANGER

Electrocution hazard

Always plug the charging cable to a 230V/50Hz, 16A power source protected by a 30mA residual-current circuit breaker.

⚠ WARNING

Electrocution and explosion hazard

Always charge the batteries in a well-ventilated areas sheltered from the sun and the rain.
Do not charge the batteries if the electrolyte temperature exceeds 40°C (104°F).
The right compartment must be open during charging.
Do not allow flames or sparks and do not smoke near the battery during charging.
At any time, make sure that the positive terminal can not come into contact with the negative terminal or with any metallic part of the machine.

NOTICE

Improper use hazard

Do not interrupt the charge cycle, refer to the informations displayed on the ground control panel.
Do not charge the batteries during thunderstorm.
Do not leave the charging cable plug during thunderstorm.
It is recommended to charge the battery to 100% to preserve its lifespan.

The built-in battery charger is designed to charge the high-voltage batteries.

It is recommended to charge the batteries at the end of each operating day only if the batteries charge level is less than 50%.

The charging time from 20% to 100% is around 7 hours.

1. Park the machine, refer to the corresponding chapter.
2. Open the right battery compartment.
3. Plug the electrical plug of the battery charger (1) into a power source.

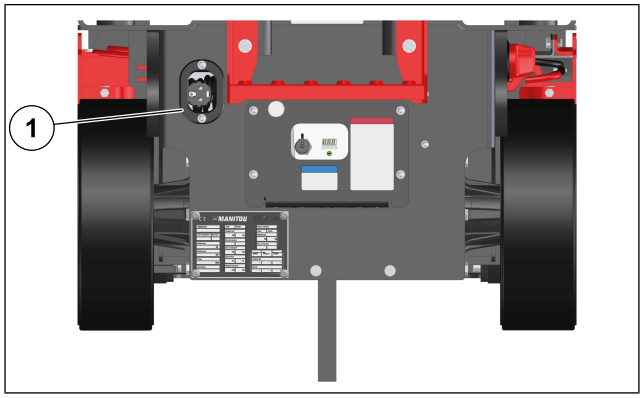


Figure 56: Battery charger

   Result:

   - The charging must start.
4. Wait until the batteries are fully charged.
5. Unplug the electrical plug.
6. Power up the machine.
7. Check the batteries charge level.
8. Close the right battery compartment.
9. Power down the machine.
10. Check the fluid level of the batteries.

3.6. OPERATING THE MACHINE FROM THE GROUND

3.6.1 POWERING UP THE MACHINE FROM THE GROUND

1. Make sure that the **emergency stop** buttons of the ground control panel and of the platform control panel are in the ON position
2. Turn the key switch to the ON position.

   Result:

   - The ground display screen should turn on and the power up cycle should be displayed.

3.6.2 POWERING DOWN THE MACHINE FROM THE GROUND

NOTICE

Battery drain

Connected machine equipment remain active even with the battery master switch on the OFF position. A small current drain will occur. Check the battery charge level every week during long term storage to avoid deep discharges.

NOTICE

Improper use hazard

Do not use the emergency stop button to power down the machine.

1. Turn the key switch to the OFF position.
2. Turn the battery master switch to the OFF position.

3.6.3 POSITIONING THE PLATFORM FROM THE GROUND

A protective function of the lifting structure controls automatically the load of the platform every time the lifting structure is raised.

1. Power up the machine.
2. Push the **controls activation** switch to the left to activate the ground controls.
3. To position the platform:
   a. Push and hold the **platform lifting/ lowering activation** switch upwards to raise the lifting structure.
   b. Push and hold the **platform lifting/ lowering activation** switch downwards to lower the lifting structure.
4. Release the **activation** switch.

⚠ WARNING

Risk of Hand Crushing

Do not put your hands on the guardrails when moving the platform.

3.7. OPERATING THE MACHINE FROM THE PLATFORM

3.7.1. DRIVING THE MACHINE

3.7.1.1 Driving, steering and braking the machine

⚠ DANGER

Driving direction hazard

Always refer to the color-coded direction arrows on the chassis and on the platform control panel before driving/ steering the machine.

NOTICE

Improper use hazard

Make sure the compartments are properly closed before operating the machine.

1. Power up the machine.
2. Push and hold the **activation** switch downwards to control the steering functions.
3. Push the **driving speed** switch on the desired driving speed.
4. Push and hold the **activation** trigger.
5. Push and hold the **driving/steering control handle**.
6. Release the **driving/steering control handle** .

7. Release the **activation** trigger.
8. Release the **activation** switch.

3.7.1.2 Driving the machine over a long distance

1. Set the machine in transport position.
2. Put the **driving speed** switch on the hare position.
3. Drive forward.

3.7.1.3 Driving the machine on a slope

⚠ DANGER

Runaway hazard

Always measure the slope grade before driving: use a digital inclinometer or refer to the following procedure.
Do not drive the machine on slopes that exceed the maximum slope ratings.
Refer to the machine transportation and lifting chapters if the slope exceeds the maximum slope ratings.

- **Measure the slope grade:**
  a. Place a straight wood stud (1) and level it with a spirit level (2).

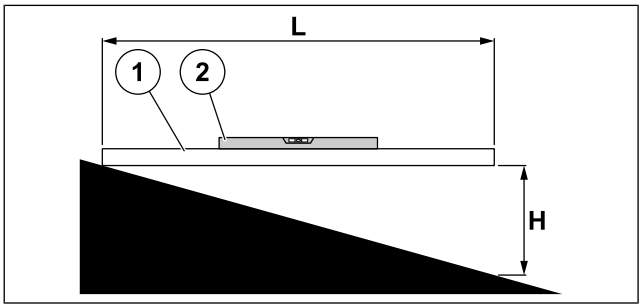


Figure 57: Measuring the slope grade

One straight wood stud (1) at least 90cm (36in).

One spirit level (2) at least 30cm (12in).

  b. Measure L and H.

H is the height perpendicularly to the levelled wood stud.

  c. Divide H by L.
  d. Multiply result by 100.

Example:

- L = 122cm (48in).
- H = 25cm (10in).
- Slope rating = (H/L) x 100 = (25/122) x 100.
- 20.5%.

- **Drive the machine on a slope:**
  a. Set the machine in transport position.
  b. Select the turtle speed.
  c. Drive the machine on the slope.

We recommend driving the machine reverse on the slope.

3.7.2 POSITIONING THE PLATFORM FROM THE PLATFORM

⚠ DANGER

Fall hazard

Make sure that the platform is on a level surface before setting the machine in work position.

A protective function of the lifting structure controls automatically the load of the platform every time the lifting structure is raised.

1. Power up the machine from the ground.
2. Enter the platform.

Make sure the swing gate is properly closed.

3. Push the **activation** switch upwards.
4. Put the **platform elevation limit** switch on the desired position.

This step only applies to SE 1008 S1 models.

5. To position the platform:
   a. Push and hold the driving/steering control handle forward to lower the lifting structure.
   b. Pull and hold the driving/steering control handle forward to raise the lifting structure.
6. Release the platform controls.

⚠ WARNING

Risk of Hand Crushing

Do not put your hands on the guardrails when moving the platform.

3.7.3 USING THE PLATFORM EXTENSION

NOTICE

Improper use hazard

Do not stand on the extension while opening/retracting it.
The platform extension must be latched when operating the machine.

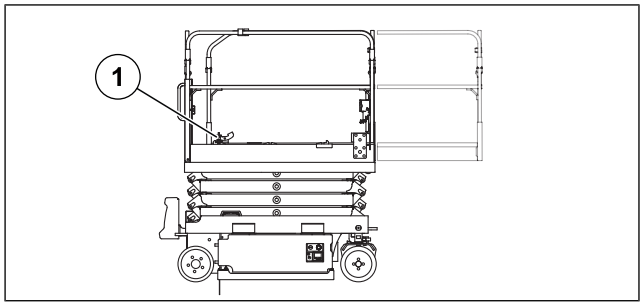


Figure 58: Platform extension

1. Press the platform extension pedal (1).
2. Push the extension to the desired latch.

⚠ WARNING

Risk of tilting and impossible rescue

Extending the platform above an obstacle makes the descent impossible without retracting the platform extension. Any attempt to lower the platform with the extension engaged above an obstacle will result in a collision between the platform extension and the obstacle, potentially causing machine tilting and resulting in ejecting the operator from the platform.
Always carry a secondary rescue means when extending the platform above an obstacle. Secondary rescue means include : ladder of proper height, secondary lift.

3.7.4 OPERATING THE 230V ELECTRICAL OUTLET IN THE PLATFORM

⚠ DANGER

Electrocution hazard

Always plug the charging cable to a 230V/50Hz, 16A power source protected by a 30mA residual-current circuit breaker.
Only plug electrical devices that operate at 230V/50Hz, maximum 16A.
Do not plug extension cords, power strips or multi-outlet plugs into the electrical outlet.

1. Plug the electrical plug to a power source.
2. Plug an electrical device into the electrical outlet.
3. Power up the electrical device.
4. Power down the electrical device.
5. Unplug the electrical plug.

Reset the residual-current circuit breaker:

1. Power down the electrical device.
2. Open the cover of the electrical box.
3. Put the switch on the ON position: the switch should remain on the ON position, the indicators should be red.
4. Close the cover of the electrical box.

3.8. PROCEDURE TO FOLLOW IN THE EVENT OF AN ALERT

- **Stop the tilt alert in transport position:**
  a. Move the machine on a level surface.
- **Stop the tilt alert in work position:**
  a. Fully lower the lifting structure.
  b. Move the machine on a level surface.
- **Stop the overload alert:**
  a. Remove the excessive load in the platform.
- **Stop the maintenance alert:**
  a. Stop using the machine.
  b. Refer to the maintenance personnel.

3.9. PROCEDURE TO FOLLOW IN THE EVENT OF A FAULT

- **Follow this procedure in the event of a fault:**
  a. Set the machine in transport position.
  b. Power down the machine.
  c. Refer to the personnel maintenance.

3.10. USING THE RESCUE CONTROLS

3.10.1. PROCEDURE TO FOLLOW IF THE MACHINE IS WORKING

3.10.1.1 Operating the priority controls from the ground

⚠ DANGER

Tip over and crush hazard

Activate the machine functions with extreme caution and check for obstructions at all times.

A person can activate machine functions from the ground when the operator can no longer operate from the platform.

- **Follow this procedure when:**
  - The machine is powered up.
  - The emergency stop button in the platform is in the ON position (the ground display screen is turned on).
  a. Push and hold the **activation** switch to the right.
  b. Press and hold the appropriate control keys to activate machine functions.
  c. Release the **activation** switch.
- **Follow this procedure when:**
  - The machine is powered up.
  - The emergency stop button in the platform is in the OFF position (the ground display screen is turned off).
  a. Push and hold the **activation** switch to the right.

     Result :
     - The ground display screen should turn on.
  b. Press and hold the appropriate control keys to activate machine functions.
  c. Release the **activation** switch.

3.10.2. PROCEDURE TO FOLLOW IF THE MACHINE IS NOT WORKING

3.10.2.1 Operating the rescue controls from the ground

⚠ DANGER

Tip over and crush hazard

Activate machine functions with extreme caution and check for obstructions at all times.
The tilt alert and the overload alert could be no longer activated: the activation of machine functions that could potentially tip-over or unbalance the machine is forbidden.

A person can activate machine functions from the ground when the operator can no longer operate from the platform.

The rescue control is a proportional control.

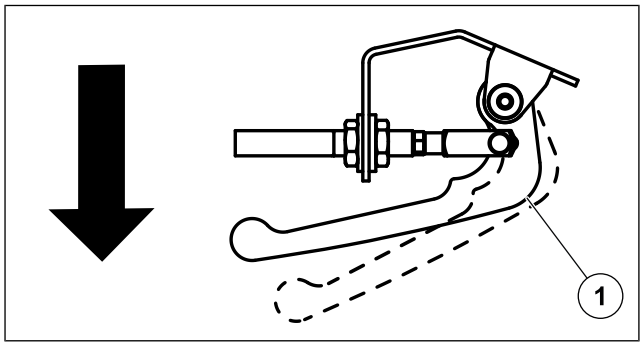


Figure 59: Rescue controls

- **Operating the rescue controls:**
  a. Locate the rescue control at the rear of the machine.
  b. Pull the lever (1) of the rescue pump and release it.
  c. Repeat the operation until the lifting structure is fully lowered.

3.10.3 PARKING THE MACHINE

⚠ DANGER

Improper use hazard

Follow this procedure when the machine is not being used.

NOTICE

Improper use hazard

Check the batteries charge level according to the supplier's recommendations. Charge them every week if necessary.

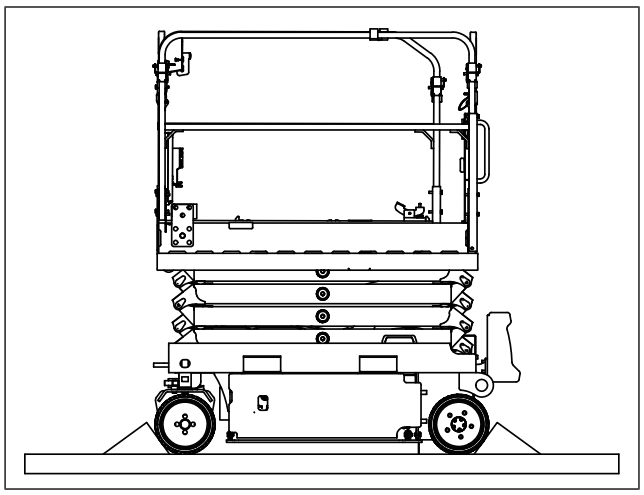


Figure 60: Parking the machine

1. Park the machine on a level surface in a protected area.
2. Set the machine in transport position.
3. Chock the wheels.
4. Fully empty the platform.
5. Power down the machine.
6. Close the right and left compartments.

3.11. MACHINE TRANSPORTATION AND LIFTING

3.11.1 WINCHING THE MACHINE - SE 0808 S1

This procedure only applies to SE 0808 S1 models.

⚠ DANGER

Fall hazard

The platform must be empty, without occupants or tools when winching the machine.

⚠ WARNING

Runaway hazard

Always winch the machine in transport position.
Make sure the platform extension is retracted and latched.
Do not drive the machine on a slope that exceeds the maximum slope ratings.
Always park the machine on a level surface before the free-wheel configuration.
Always chock the wheels before the free-wheel configuration.
Always use an appropriate winch to winch the machine.

NOTICE

Improper use hazard

Do not exceed 5km/h (3.1 mph) when winching the machine.
Do not winch the machine on a distance that exceeds 50m (164ft).

Winching the machine can be necessary when:

- The machine is not working and you need to move it.
- The machine does not have enough grip to drive on the slope.
- **Winching the machine:**
  a. Power down the machine.
  b. Chock the wheels.
  c. Attach the winch to the tie down points of the machine.

  Perform this procedure on the right and left front wheels one after the other.

  d. Locate the rubber cap (1) on the wheel.

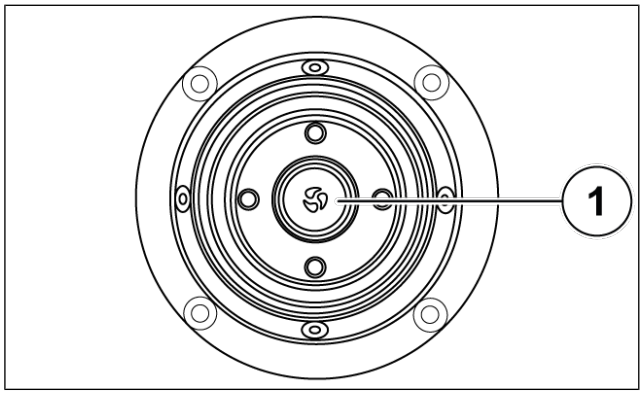


Figure 61: Rubber cap

  e. Remove the rubber cap.

f. Loosen the axle (2) with a square wrench until it stops.

One 3/8 square wrench.

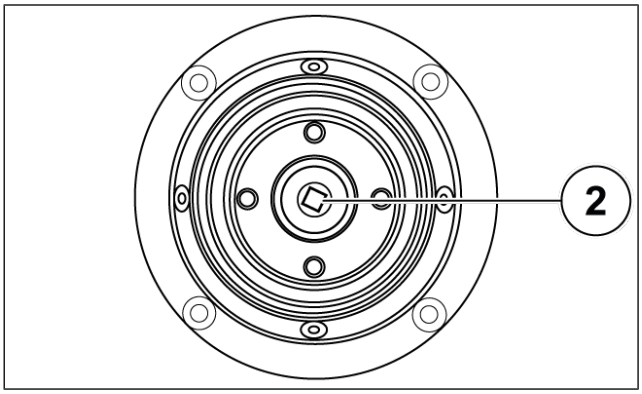


Figure 62: Loosen the axle

g. Make sure the path is clear of any obstructions.

h. Remove the wheels chocks.

i. Winch the machine.

j. Chock the wheels when the machine is in the desired position.

- **Restore the brakes:**

a. Tighten the axle with the square wrench until it stops.

b. Put the rubber cap back on.

3.11.2 WINCHING THE MACHINE - SE 1008 S1

This procedure only applies to SE 1008 S1 models.

⚠ DANGER

Fall hazard

The platform must be empty, without occupants or tools when winching the machine.

⚠ WARNING

Runaway hazard

Always winch the machine in transport position.
Make sure the platform extension is retracted and latched.
Do not drive the machine on a slope that exceeds the maximum slope ratings.
Always park the machine on a level surface before the free-wheel configuration.
Always chock the wheels before the free-wheel configuration.
Always use an appropriate winch to winch the machine.

NOTICE

Improper use hazard

Do not exceed 5km/h (3.1 mph) when winching the machine.
Do not winch the machine on a distance that exceeds 50m (164ft).

Winching the machine can be necessary when:

- The machine is not working and you need to move it.
- The machine does not have enough grip to drive on the slope.
- **Winching the machine:**

a. Power down the machine.

b. Chock the wheels.

c. Attach the winch to the tie down points of the machine.

Perform this procedure on the right and left front wheels one after the other.

d. Locate the cap (1) on the wheel.

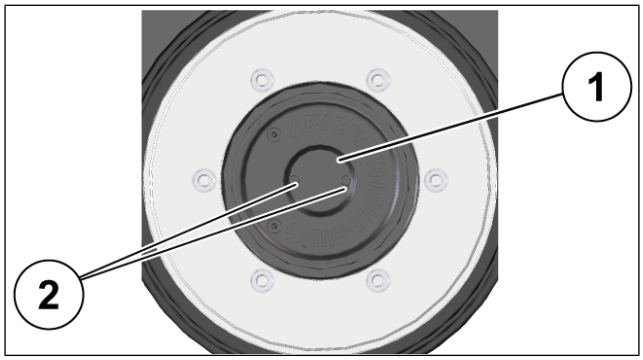


Figure 63: Cap location

e. Place a tank underneath the wheel.

f. Unscrew the two screws of the cap (2).

One 2.5 wrench.

g. Remove the cap.

Oil will leak from the gear.

h. Locate the central gear (3).

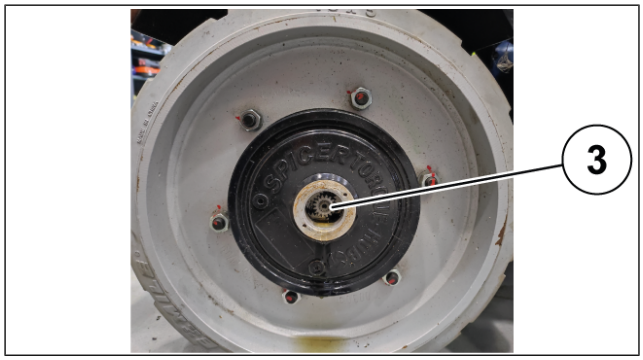


Figure 64: Central gear location

i. Remove the central gear (4).

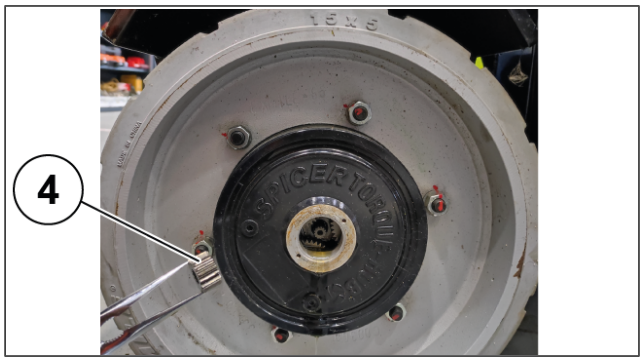


Figure 65: Central gear

j. Make sure the path is clear of any obstructions.

k. Remove the wheels chocks.

l. Winch the machine.

m. Chock the wheels when the machine is in the desired position.

- **Restore the brakes:**

a. Check the condition of the central gear.

b. Put the central gear back in place.

c. Put the cap back in place.

d. Tighten the two screws of the cap.

e. Perform the braking tests.

Refer to the corresponding chapters.

f. If necessary, add oil.

3.11.3. MACHINE TRANSPORTATION

3.11.3.1 Safety precautions: machine transportation

⚠ DANGER

Fall and collision hazard

The transportation and lifting instructions are only recommended. Make sure the driver is aware of the dimensions and mass of the machine.
Make sure that the transportation vehicle, the loading ramps, the winch, the chains and/or the straps are strong enough to withstand the mass of the machine.

NOTICE

Improper use hazard

The right and left compartments must be closed when transporting the machine.
The platform control panel must be secured at its dedicated place. Refer to the chapter "Using the platform mobile control panel".

Drivers have the responsibility to ensure that the machine is properly secured and that the transportation vehicle complies with the applicable regulations of the Department of Transportation, the applicable local regulations and their company policy.

The transportation by container must be performed by a qualified freight company that must ensure that the loading/unloading, the securing and the lifting of the machine are properly done.

3.11.3.2 Loading the machine on a transportation vehicle

⚠ DANGER

Runaway hazard

The transportation vehicle must be parked on a level surface. The wheels must be chocked to avoid rolling when loading the machine.
The slope of loading ramps must not exceed the maximum slope ratings.
The machine must be loaded by means of a winch if the loading ramps are slippery.
The machine must be loaded by means of a crane if the slope of the loading ramps exceeds the maximum slope ratings.

⚠ DANGER

Improper use hazard

Only qualified and trained operators should drive the machine to load it on the transportation vehicle and to unload it.

1. Power up the machine.
2. Set the machine in transport position from the ground control panel.
3. Enter the platform.

   Make sure the swing gate is properly closed.
4. Select the turtle speed.
5. Slowly drive the machine on the slope, refer to the illustration.

   We recommend driving the machine reverse on the slope.

   The machine can be unloaded with a forklift.

   Refer to the chapter "Lifting the machine by means of a forklift".

Figure 66: Loading the machine on a transportation vehicle

3.11.3.3 Setting the machine: tie down on a transportation vehicle

The transportation vehicle must be parked on a level surface. The wheels must be chocked to avoid rolling when loading and unloading the machine.

The machine must be powered up.

The machine must be in transport position.

The platform extension must be retracted and latched.

- **Set the machine in transport position:**
  a. Fully lower the lifting structure from the platform.
  b. Step out of the platform.
  c. Power down the machine.
  d. Make sure the right and left compartments are properly closed.

3.11.3.4 Folding the guardrails

NOTICE

Improper use hazard

The platform extension must be retracted and latched.

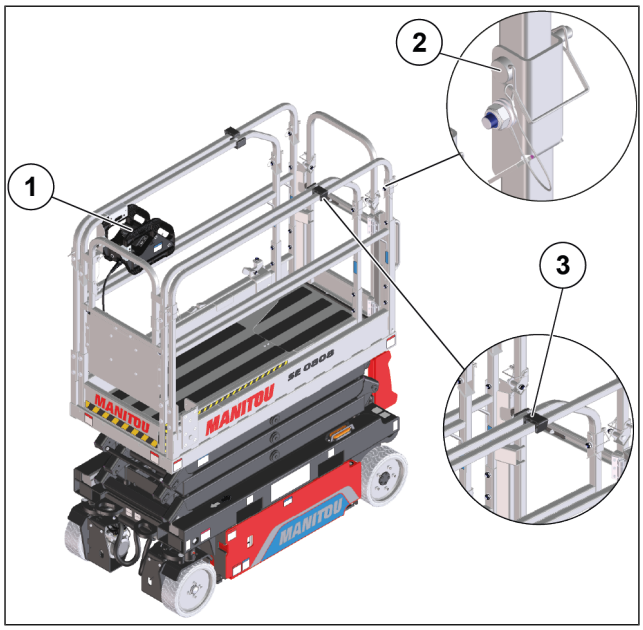


Figure 67: Folding the guardrails

1. Remove the platform control panel (1).
2. Remove the lock pins (2).

3. Fold the gate and the front guardrails (4).

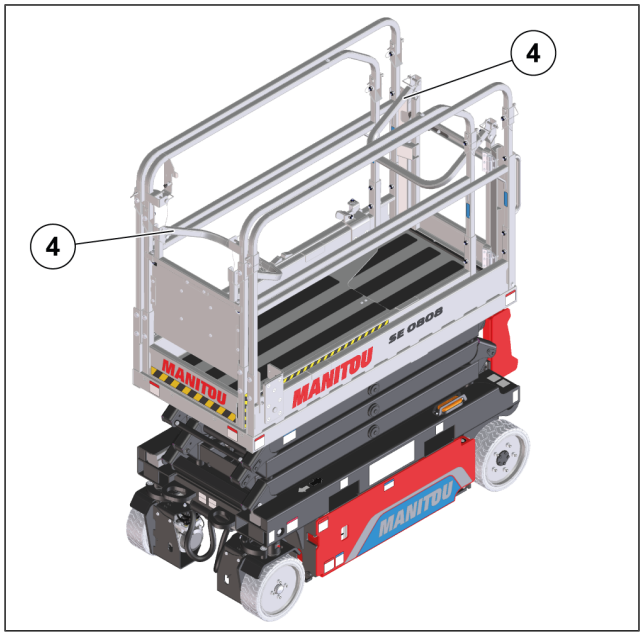


Figure 68: Folding the guardrails

4. Fold the lateral guardrails (4) without removing the alignment bracket.

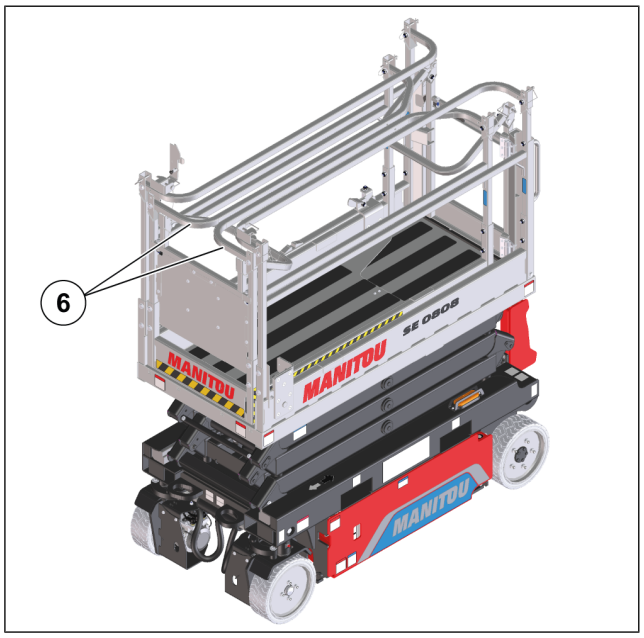


Figure 69: Folding the guardrails

5. Push in the lock pins to secure the guardrails (2).
6. Unfolding is reverse of folding the guardrails.

3.11.3.5 Tying down the machine on a transportation vehicle - SE 0808 S1

NOTICE

Improper use hazard

Make sure that the chains and/or straps are not in contact with the wheels and that the machine is properly tie down to the transportation vehicle.

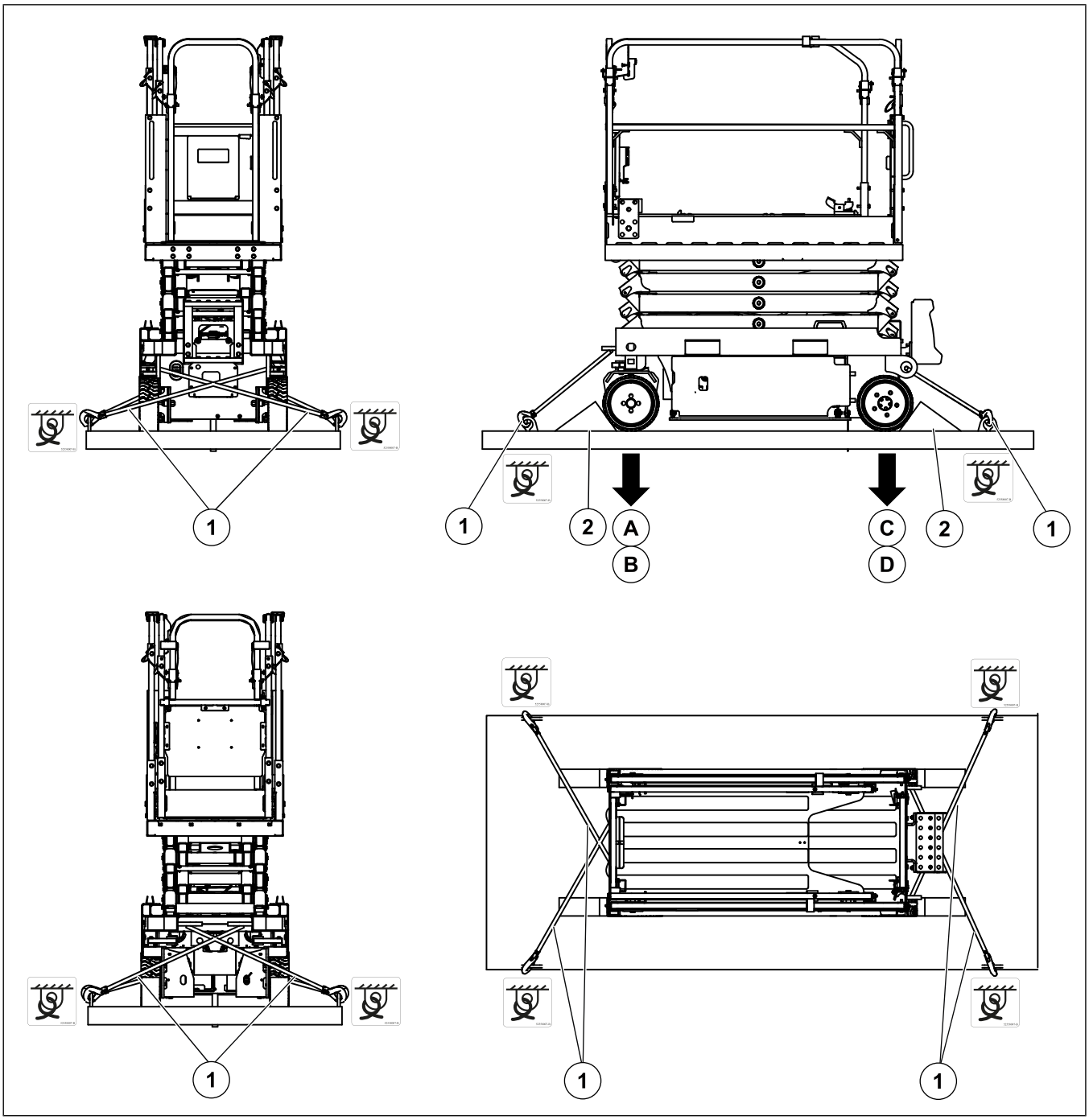


Figure 70: Tying down the machine - SE 0808 S1

Table 24. Wheel loads and total weight

Marker	Description	Unit	Value
A	Load on one front wheel	kg (lbs)	390 (860)
B	Load on two front wheels	kg (lbs)	780 (1720)
C	Load on one rear wheel	kg (lbs)	360 (795)
D	Load on two rear wheels	kg (lbs)	720 (1590)
-	Total weight	kg (lbs)	1500 (3310)

The transportation vehicle must be parked on a level surface. The wheels must be chocked to avoid rolling when loading and unloading the machine.

The machine is powered down.

The machine is in transport position.

The platform extension is latched.

The right and left compartments are closed.

1. Chock the wheels of the transportation vehicle at the front and the rear of the wheels.
2. Chock the wheels of the machine (2).
3. Locate the 4 tie down points.
4. Tie down the machine to the transportation vehicle with chains and/or straps (1).

3.11.3.6 Tying down the machine on a transportation vehicle - SE 1008 S1

NOTICE

Improper use hazard

Make sure that the chains and/or straps are not in contact with the wheels and that the machine is properly tie down to the transportation vehicle.

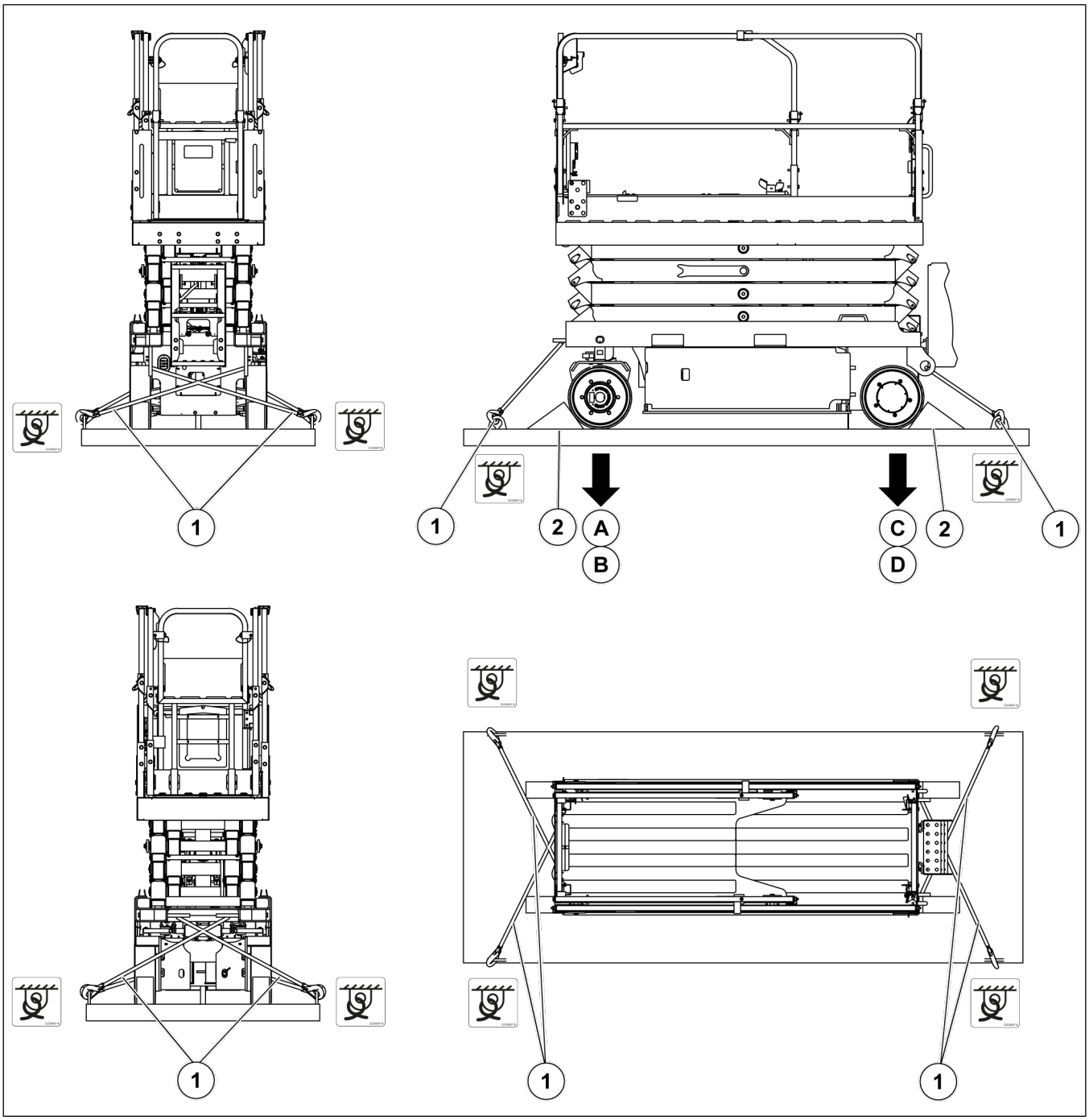


Figure 71: Tying down the machine - SE 1008 S1

Table 25. Wheel loads and total weight

Marker	Description	Unit	Value
A	Load on one front wheel	kg (lbs)	580 (1278)
B	Load on two front wheels	kg (lbs)	1160 (2555)
C	Load on one rear wheel	kg (lbs)	520 (1148)
D	Load on two rear wheels	kg (lbs)	1040 (2295)
-	Total weight	kg (lbs)	2200 (4850)

The transportation vehicle must be parked on a level surface. The wheels must be chocked to avoid rolling when loading and unloading the machine.

The machine is powered down.

The machine is in transport position.

The platform extension is latched.

The right and left compartments are closed.

1. Chock the wheels of the transportation vehicle at the front and the rear of the wheels.
2. Chock the wheels of the machine (2).
3. Locate the 4 tie down points.
4. Tie down the machine to the transportation vehicle with chains and/or straps (1).

3.11.3.7 Setting the machine: unloading from a transportation vehicle

⚠ DANGER

Runaway hazard

The transportation vehicle must be parked on a level surface. The wheels must be chocked to avoid rolling when unloading the machine.

The machine must be powered down.

The machine must be in transport position.

The platform extension must be retracted and latched.

The machine can be unloaded with a forklift. Refer to the chapter "Lifting the machine by means of a forklift".

- **Set the machine when in transport position:**
  a. Remove all chains and/or straps to untie the machine from the transportation vehicle.
  b. Unchock the front and rear wheels of the transportation vehicle.
  c. Power down the machine.

3.11.3.8 Unloading the machine from a transportation vehicle

⚠ DANGER

Runaway hazard

The transportation vehicle must be parked on a level surface. The wheels must be chocked to avoid rolling when unloading the machine.
The slope of loading ramps must not exceed the maximum slope ratings.
The machine must be unloaded by means of a winch if the loading ramps are slippery.
The machine must be unloaded by means of a crane if the slope of the loading ramps exceeds the maximum slope ratings.

⚠ DANGER

Improper use hazard

Only qualified and trained operators should drive the machine to load it on the transportation vehicle and to unload it.

The machine is powered down.

The machine must be in transport position.

The extension must be retracted and latched.

1. Power up the machine.
2. Enter the platform.
   Make sure the swing gate is properly closed.
3. Select the turtle speed.

4. Slowly drive the machine on the slope, refer to the illustration.

Figure 72: Unloading the machine on a transportation vehicle

The machine can be unloaded with a forklift.

Refer to the chapter "Lifting the machine by means of a forklift".

3.11.4. MACHINE LIFTING

3.11.4.1 Lifting the machine by means of a crane - SE 0808 S1

⚠ DANGER

Fall and collision hazard

Only qualified riggers should rig the machine for lifting in accordance with the applicable regulations.
Only certified crane operators should lift the machine in accordance with the applicable crane regulations.
The surface of the start/finish area must be firm, level and even.
If the starting/finishing area is a transportation vehicle:

- The transportation vehicle must be parked on a firm and level surface.
- The wheels of the transportation vehicle must be chocked.

Make sure that the lifting slings are strong enough to withstand the mass of the machine.
Make sure that the lifting capacity of the crane is sufficient to withstand the mass of the machine.
Make sure the compartments are properly closed before lifting the machine.

The transportation by container must be performed by a qualified freight company that must ensure that the loading/unloading, the securing and the lifting of the machine are properly done.

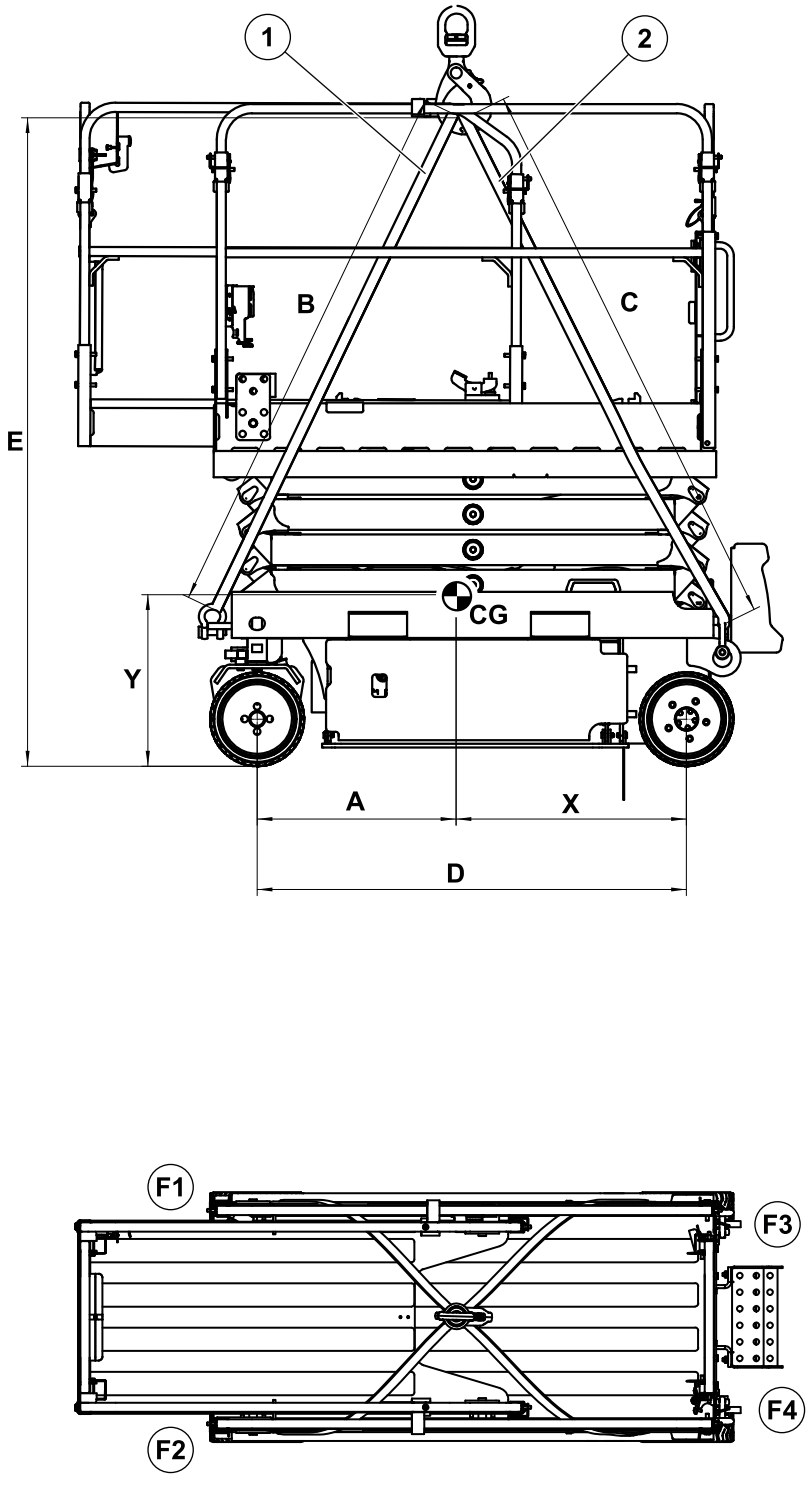


Figure 73: Lifting the machine by means of a crane - SE 0808 S1

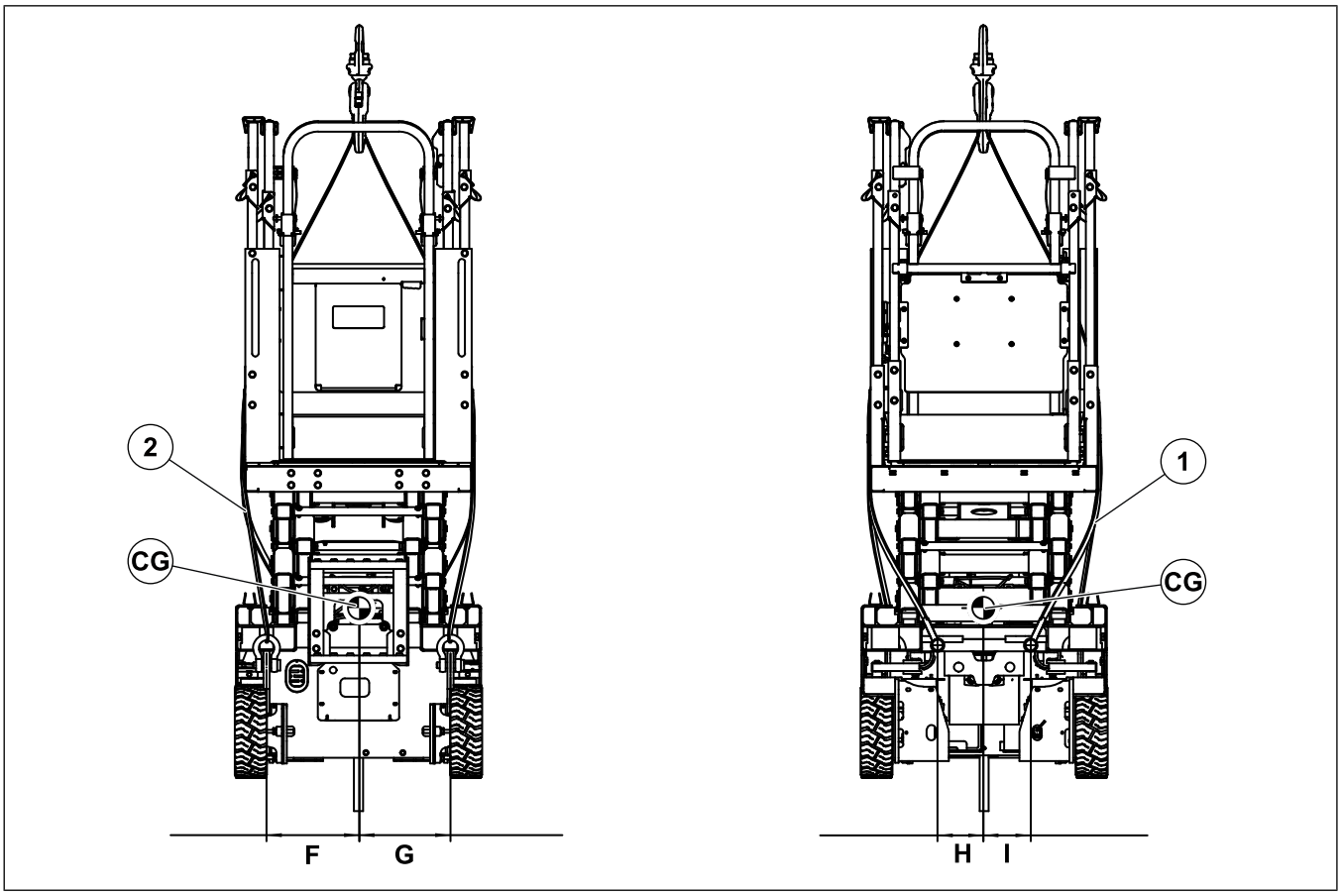


Figure 74: Lifting the machine by means of a crane - SE 0808 S1

Table 26. Lifting the machine

Marker	Description	Unit	Value
CG	Center of gravity	-	-
X	Distance between the rear wheels/the rear lifting point and the center of gravity	mm (ft-in)	874 (2-10.4)
Y	Distance between the ground and the center of gravity	mm (ft-in)	558 (1-10.0)
F1	Load of lifting point (right front)	kg (lbs)	435 (960)
F2	Load of lifting point (left front)	kg (lbs)	435 (960)
F3	Load of lifting point (right rear)	kg (lbs)	400 (880)
F4	Load of lifting point (left rear)	kg (lbs)	400 (880)
A	Distance between the front lifting point and the center of gravity	mm (ft-in)	789 (2-7.1)
B	Length of the front lifting slings	mm (ft-in)	2000 (6-6.7)
C	Length of the rear lifting slings	mm (ft-in)	2000 (6-6.7)
D	Distance between the front and the rear wheels	mm (ft-in)	1400 (4-7.1)
E	Height in transport position	mm (ft-in)	2115 (6-11.3)
F	Distance between the front lifting points and the axle of the machine/the center of gravity	mm (ft-in)	304 (0-12)
G	Distance between the front lifting points and the axle of the machine/the center of gravity	mm (ft-in)	303 (0-11.9)
H	Distance between the rear lifting points and the axle of the machine/the center of gravity	mm (ft-in)	153 (0-6)
I	Distance between the rear lifting points and the axle of the machine/the center of gravity	mm (ft-in)	154 (0-6.1)
1	Front lifting slings	-	-
2	Rear lifting slings	-	-

1. Mark off a large safety zone around the machine.
2. Power up the machine.
3. Set the machine in transport position.
4. Latch the platform extension in an intermediate position.
5. Power down the machine.
6. Attach the lifting sling (1) to the 2 lifting points at the front of the chassis. Make sure that the sling goes under the guardrails.
7. Attach the lifting sling (2) to the 2 lifting points at the rear of the chassis. Make sure that the sling goes under the guardrails.
8. Slowly lift the crane lifting hook until the lifting slings are slightly tensioned.
9. If necessary, adjust the lifting slings to prevent damages and to keep the machine level.
10. Keep every person away from the safety zone.
11. Slowly lift the machine and move it to the finish area.

    The machine can slightly lean during the lifting.

12. Slowly lower the machine until the 4 wheels area are in contact with the receiving surface.
13. Lower the crane lifting hook until the slings are no longer tensioned.
14. Remove the lifting slings.

3.11.4.2 Lifting the machine by means of a crane - SE 1008 S1

⚠ DANGER

Fall and collision hazard

Only qualified riggers should rig the machine for lifting in accordance with the applicable regulations.
Only certified crane operators should lift the machine in accordance with the applicable crane regulations.
The surface of the start/finish area must be firm, level and even.
If the starting/finishing area is a transportation vehicle:

- The transportation vehicle must be parked on a firm and level surface.
- The wheels of the transportation vehicle must be chocked.

Make sure that the lifting slings are strong enough to withstand the mass of the machine.
Make sure that the lifting capacity of the crane is sufficient to withstand the mass of the machine.
Make sure the compartments are properly closed before lifting the machine.

The transportation by container must be performed by a qualified freight company that must ensure that the loading/unloading, the securing and the lifting of the machine are properly done.

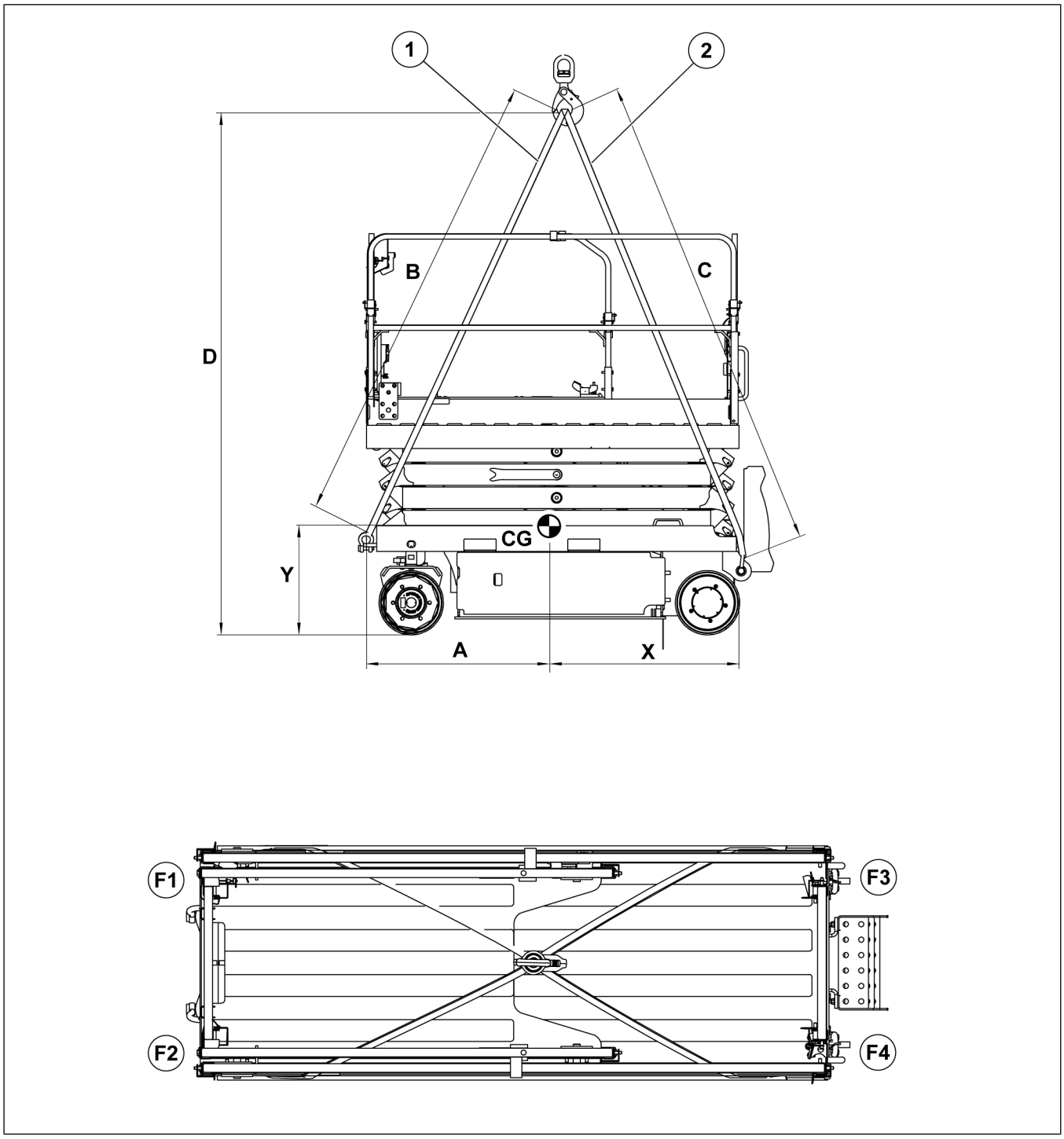


Figure 75: Lifting the machine by means of a crane - SE 1008 S1

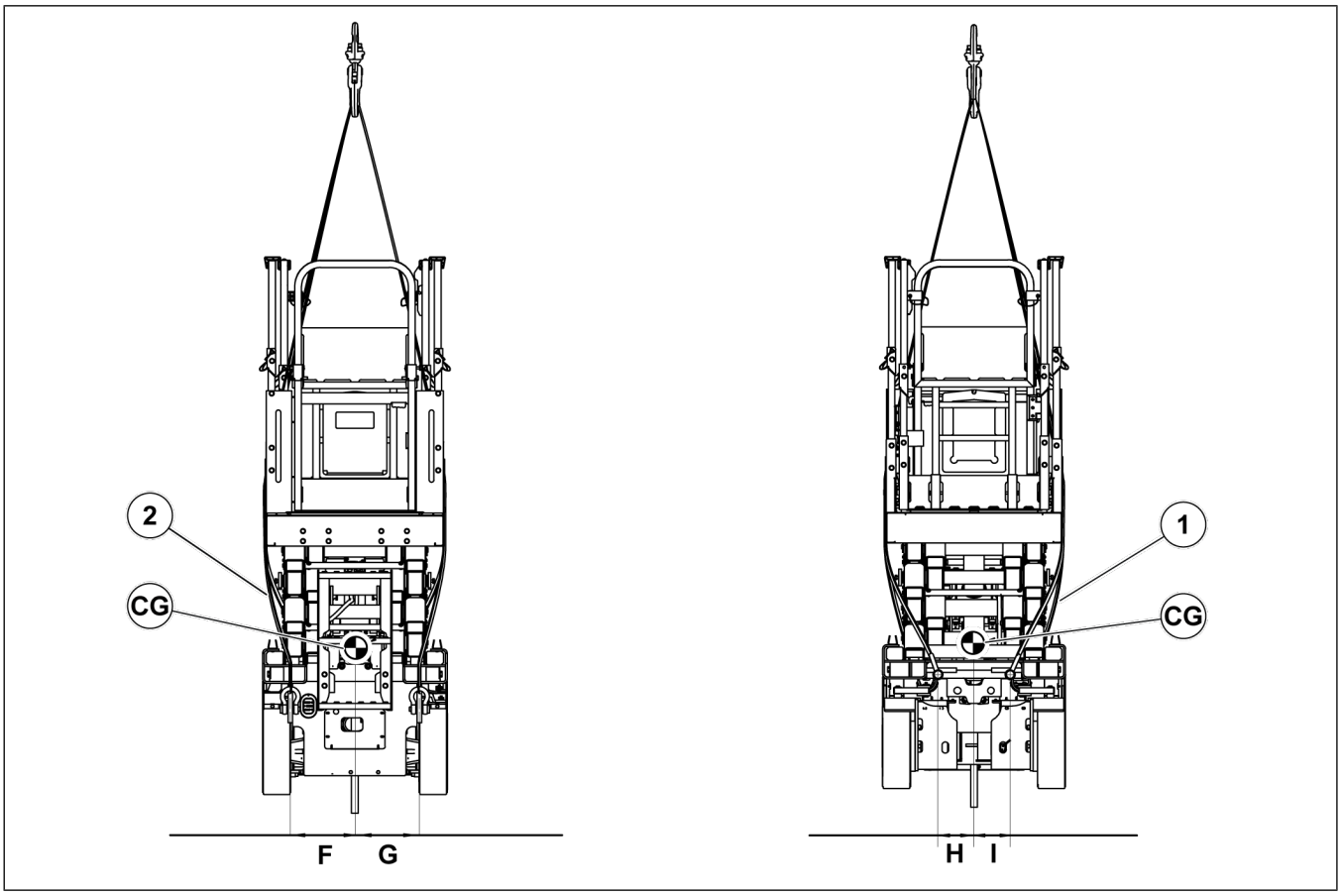


Figure 76: Lifting the machine by means of a crane - SE 1008 S1

Table 27. Lifting the machine

Marker	Description	Unit	Value
CG	Center of gravity	-	-
X	Distance between the rear wheels/the rear lifting point and the center of gravity	mm (ft-in)	1134 (3-8.7)
Y	Distance between the ground and the center of gravity	mm (ft-in)	649 (2-1.6)
F1	Load of lifting point (right front)	kg (lbs)	625 (1380)
F2	Load of lifting point (left front)	kg (lbs)	625 (1380)
F3	Load of lifting point (right rear)	kg (lbs)	580 (1280)
F4	Load of lifting point (left rear)	kg (lbs)	580 (1280)
A	Distance between the front lifting point and the center of gravity	mm (ft-in)	1082 (3-6.6)
B	Length of the front lifting slings	mm (ft-in)	3000 (9-10.2)
C	Length of the rear lifting slings	mm (ft-in)	3000 (9-10.2)
D	Height in transport position	mm (ft-in)	3063 (10-0.6)
F	Distance between the front lifting points and the axle of the machine/the center of gravity	mm (ft-in)	289 (0-11.4)
G	Distance between the front lifting points and the axle of the machine/the center of gravity	mm (ft-in)	284 (0-11.2)
H	Distance between the rear lifting points and the axle of the machine/the center of gravity	mm (ft-in)	160 (0-6.3)
I	Distance between the rear lifting points and the axle of the machine/the center of gravity	mm (ft-in)	164 (0-6.5)
1	Front lifting slings	-	-
2	Rear lifting slings	-	-

1. Mark off a large safety zone around the machine.
2. Power up the machine.
3. Set the machine in transport position.
4. Latch the platform extension in an intermediate position.
5. Power down the machine.
6. Attach the lifting sling (1) to the 2 lifting points at the front of the chassis. Make sure that the sling goes under the guardrails.
7. Attach the lifting sling (2) to the 2 lifting points at the rear of the chassis. Make sure that the sling goes under the guardrails.
8. Slowly lift the crane lifting hook until the lifting slings are slightly tensioned.
9. If necessary, adjust the lifting slings to prevent damages and to keep the machine level.
10. Keep every person away from the safety zone.
11. Slowly lift the machine and move it to the finish area.

    The machine can slightly lean during the lifting.

12. Slowly lower the machine until the 4 wheels area are in contact with the receiving surface.
13. Lower the crane lifting hook until the slings are no longer tensioned.
14. Remove the lifting slings.

3.11.4.3 Lifting the machine by means of a forklift - SE 0808 S1

⚠ DANGER

Fall and collision hazard

Only certified forklift operators should lift and move the machine.
Make sure that the forks are appropriate and strong enough to lift the machine.
Make sure that the lifting capacity of the forklift is sufficient to withstand the mass of the machine.
Do not lift the machine from the front. Only lift the machine from the sides or the rear.
Make sure the compartments are properly closed before lifting the machine.

The transportation by container must be performed by a qualified freight company that must ensure that the loading/unloading, the securing and the lifting of the machine are properly done.

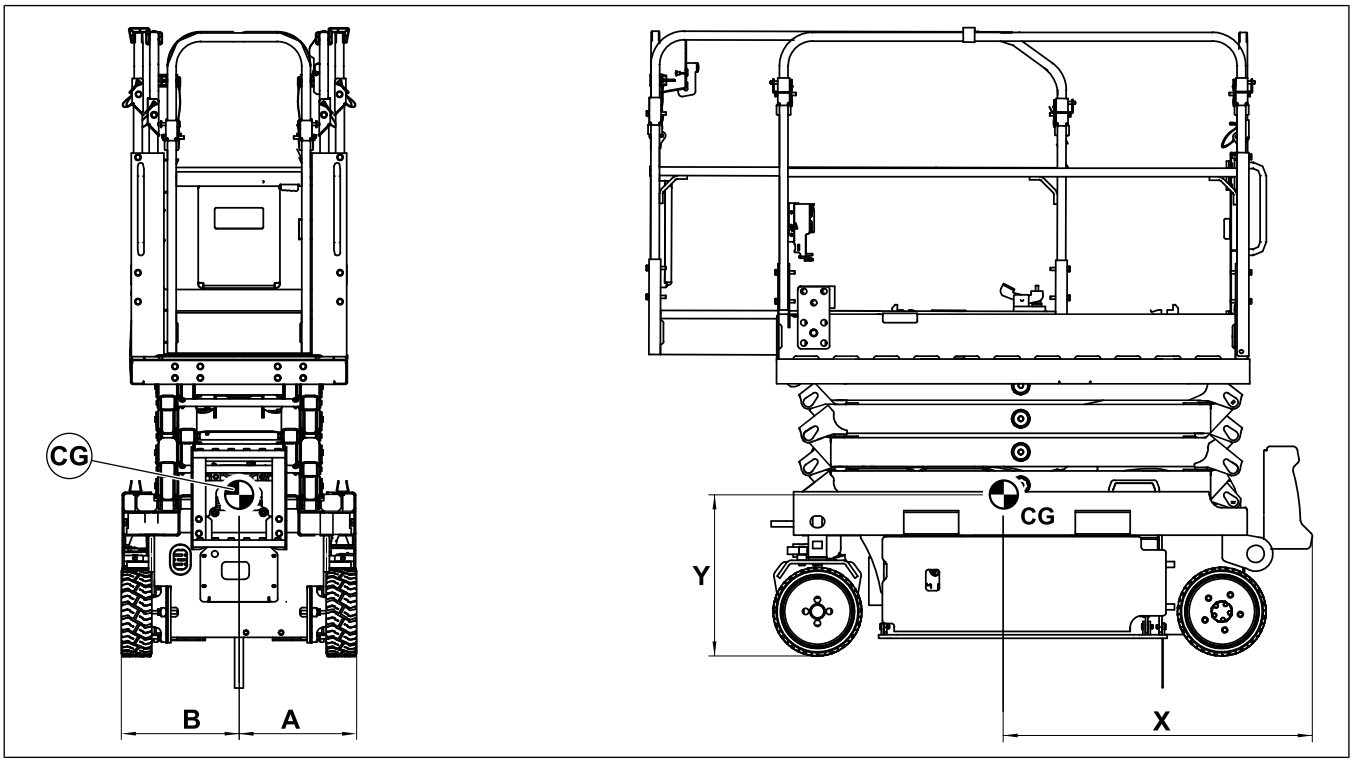


Figure 77: Lifting the machine by means of a forklift - SE 0808 S1

Table 28. Lifting the machine

Marker	Description	Unit	Value
CG	Center of gravity	-	-
X	Distance between the center of gravity and the rear of the machine	mm (ft-in)	1070 (3-6.1)
Y	Distance between the ground and the center of gravity	mm (ft-in)	558 (1-10.0)
A	Distance between the front left wheel and the axle of the machine/the center of gravity	mm (ft-in)	407 (1-4)
B	Distance between the right left wheel and the axle of the machine/the center of gravity	mm (ft-in)	408 (1-4.1)

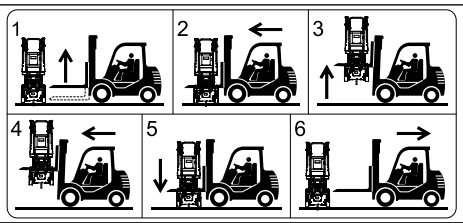


Figure 78: Lifting the machine by means of a forklift

1. Mark off a large safety zone around the machine.
2. Power up the machine.
3. Set the machine in transport position.
4. Fully retract and latch the platform extension.
5. Power down the machine.
6. Raise the forks of the forklift up to the fork pockets (1).

   The machine can be lifted from the sides and the rear.
7. Slowly drive forward to insert the forks in the fork pockets (2).
8. Slowly lift the machine (3).
9. Keep every person away from the safety zone.
10. Slowly drive to move the machine to the finish area (4).
11. Slowly lower the machine until the 4 wheels area are in contact with the receiving surface (5).
12. Slowly drive reverse to remove the forks from the fork pockets (6).

3.11.4.4 Lifting the machine by means of a forklift - SE 1008 S1

⚠ DANGER

Fall and collision hazard

Only certified forklift operators should lift and move the machine.
Make sure that the forks are appropriate and strong enough to lift the machine.
Make sure that the lifting capacity of the forklift is sufficient to withstand the mass of the machine.
Do not lift the machine from the front. Only lift the machine from the sides or the rear.
Make sure the compartments are properly closed before lifting the machine.

The transportation by container must be performed by a qualified freight company that must ensure that the loading/unloading, the securing and the lifting of the machine are properly done.

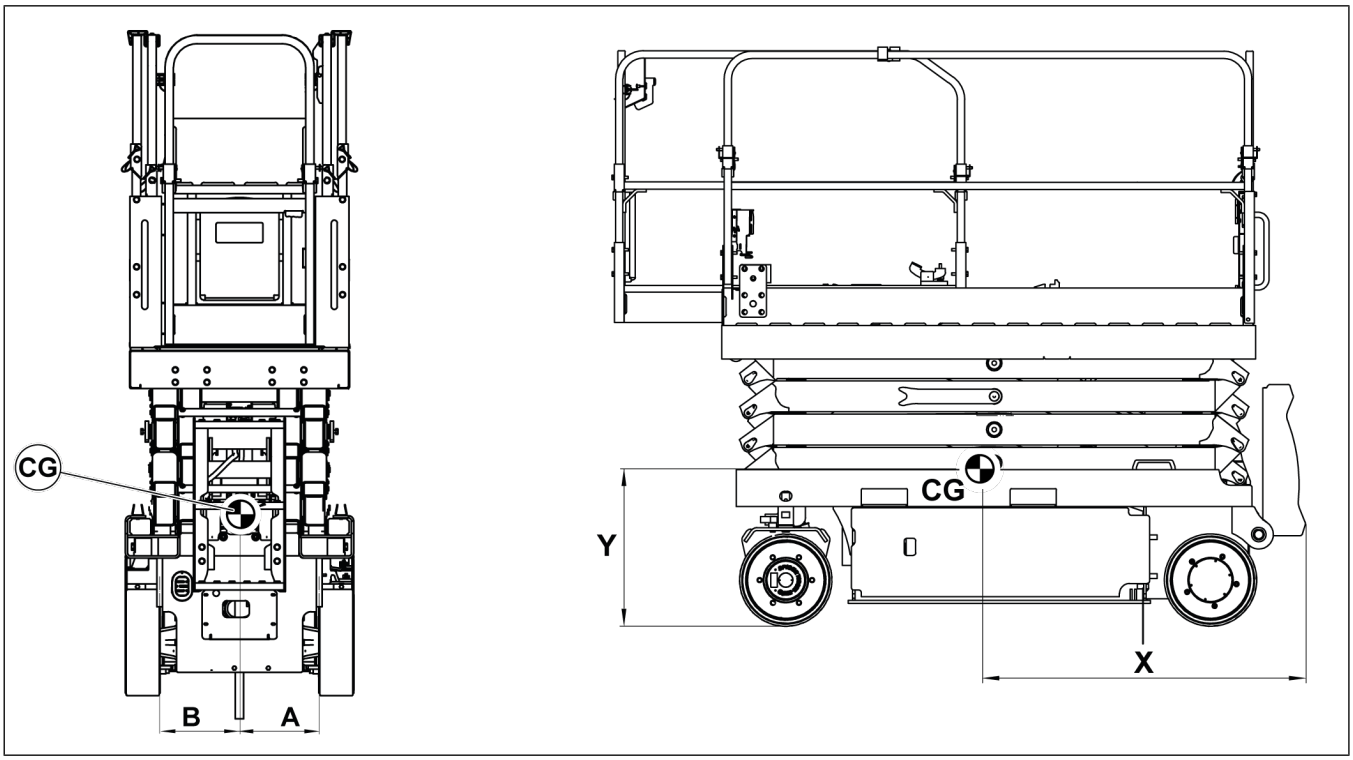


Figure 79: Lifting the machine by means of a forklift - SE 1008 S1

Table 29. Lifting the machine

Marker	Description	Unit	Value
CG	Center of gravity	-	-
X	Distance between the center of gravity and the rear of the machine	mm (ft-in)	1326 (4-4.2)
Y	Distance between the ground and the center of gravity	mm (ft-in)	649 (2-1.6)
A	Distance between the front left wheel and the axle of the machine/the center of gravity	mm (ft-in)	412 (1-4.2)
B	Distance between the right left wheel and the axle of the machine/the center of gravity	mm (ft-in)	408 (1-4.1)

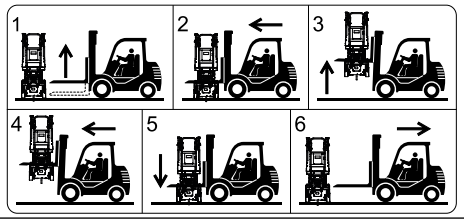


Figure 80: Lifting the machine by means of a forklift

1. Mark off a large safety zone around the machine.
2. Power up the machine.
3. Set the machine in transport position.
4. Fully retract and latch the platform extension.
5. Power down the machine.
6. Raise the forks of the forklift up to the fork pockets (1).

The machine can be lifted from the sides and the rear.

7. Slowly drive forward to insert the forks in the fork pockets (2).
8. Slowly lift the machine (3).
9. Keep every person away from the safety zone.
10. Slowly drive to move the machine to the finish area (4).
11. Slowly lower the machine until the 4 wheels area are in contact with the receiving surface (5).
12. Slowly drive reverse to remove the forks from the fork pockets (6).

4. MAINTENANCE

4.1. GENERAL

4.1.1 MAINTENANCE INSTRUCTIONS

⚠ DANGER

Fall and collision hazard

Maintenance operations require special precautions:

- The machine must be on a level surface.
- The wheels must be chocked.
- The machine should be in transport position.
- The lifting structure must be lowered.
- The platform must be retracted and latched.
- The platform must be empty.
- The machine must be powered down.

NOTICE

Loss of warranty hazard

The use of counterfeit parts or components not approved by the manufacturer, will cause you to loose the benefit of the contractual guarantee.

Manitou machines maintenance must be carried out with original Manitou parts.

By allowing the use of parts that are not original Manitou parts, you risk:

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

By using original Manitou parts for maintenance operations, you will benefit:

- From the Manitou network,
- From expertise,
- From the guarantee of high-quality work,
- From original replacement parts,
- From help with preventive maintenance,
- From improvements as a result of feedback,
- From operator training.

Only the MANITOU network has detailed knowledge of the design of the machine and therefore the best technical ability to provide maintenance.

Original spare parts are distributed exclusively by Manitou and its dealer network. The list of the dealer network is available on the MANITOU website www.manitou.com

4.1.2 MAINTENANCE INTERVALS

This schedule enables mandatory and scheduled maintenances on the machine to be kept up to date by reporting the total number of hours worked (machine counter) and the date of the service.

Mandatory and scheduled maintenances must be carried out by an approved professional from the Manitou network.

Table 30. Maintenance intervals

Operation	First		Every						
	50 H	150 H	Daily	Weekly	40 H or 3 months	75 H or 6 months	150 H or 1 year	300 H or 2 years	450 H or 3 years
Performing the walk-around inspection (see chapter 3)	●	●	●	●	●	●	●	●	●
Performing the routine maintenance (see chapter 3)	●	●	●	●	●	●	●	●	●
Performing the function tests (see chapter 3)	●	●	●	●	●	●	●	●	●
Checking the wheel nuts tightening	●				●	●	●	●	●
Checking the overload sensor					●	●	●	●	●
Checking the battery electrolyte density					●	●	●	●	●
Checking the tightness of the platform	●				●	●	●	●	●
Checking the tightness of the lifting structure					●	●	●	●	●
Checking the breather plug					●	●	●	●	●
Refilling the battery electrolyte					●	●	●	●	●
Checking the wheel reducers for leaks					●	●	●	●	●
Checking the 230V electrical outlet in the platform					●	●	●	●	●
Bleeding the high-voltage battery cases					●	●	●	●	●
Lubricating the hubs						●	●	●	●
Checking the tightness of the travel motors						●	●	●	●
Checking the platform extension ball bearings						●	●	●	●
Checking the condition of the lifting structure	●					●	●	●	●
Checking the tightness of the electrical connections							●	●	●
Lubricating the platform and chassis scissors pads							●	●	●
Replacing the hydraulic oil filter	●						●	●	●
Replacing the gear box oil	●						●	●	●
Checking the condition of hoses and flexible pipes							●	●	●
Checking the condition of the cylinders							●	●	●
Checking the condition of the wiring harness							●	●	●
Checking the movements speed							●	●	●
Setting the maintenance alert to zero							●	●	●

Operation	First		Every						
	50 H	150 H	Daily	Weekly	40 H or 3 months	75 H or 6 months	150 H or 1 year	300 H or 2 years	450 H or 3 years
Checking the hydraulic circuit pressure								●	●
Checking the hydraulic circuit outputs								●	●
Checking the scissors pads								●	●
Checking the electric pump motor silent blocks								●	●
Checking the condition of the electrical control wiring								●	●
Recalibrating the overload sensor								●	●
Replacing the hydraulic oil									●

4.2. MAINTENANCE COMPONENTS

4.2.1 MAINTENANCE COMPONENTS LOCATION

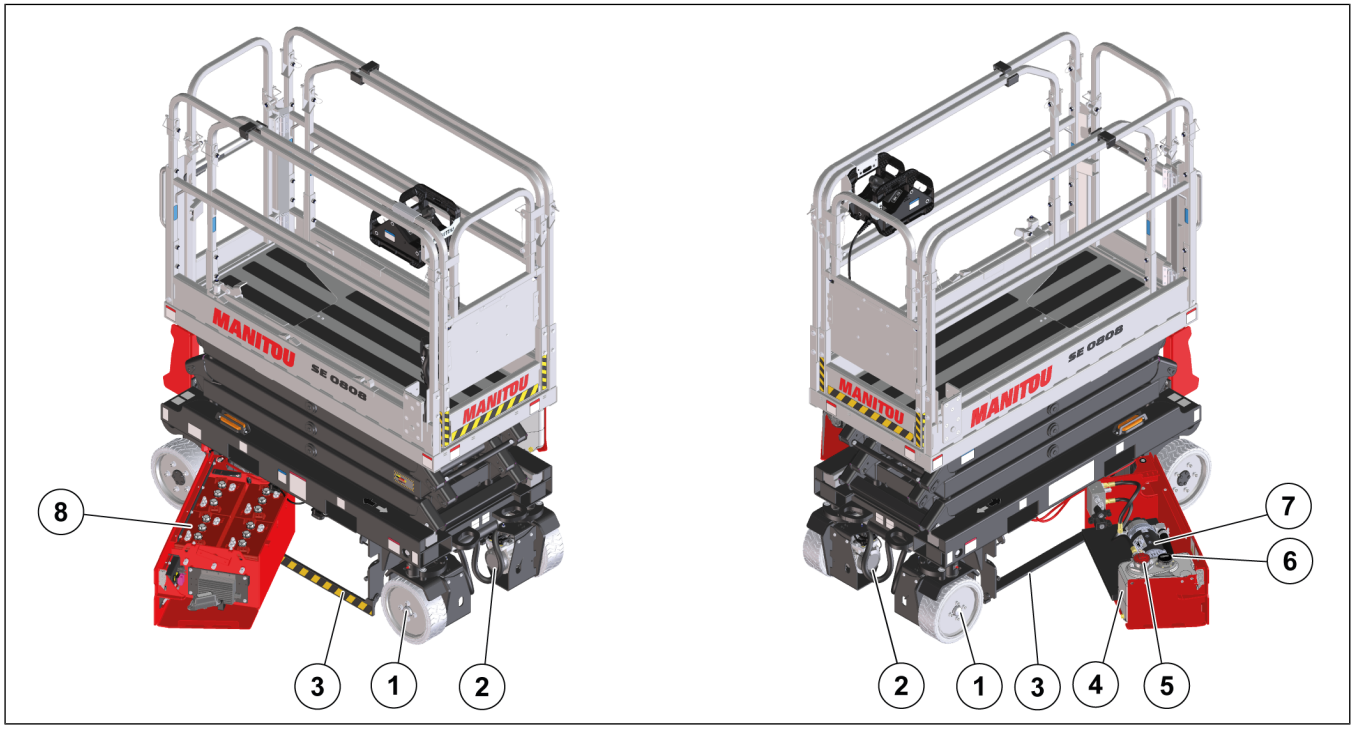


Figure 81: Maintenance components location

Table 31. Maintenance components location

Marker	Description	Option
1	Wheel reducers	
2	Travel motors	
3	Potholes	
4	Hydraulic tank	
5	Hydraulic filter	
6	Breather plug	
7	Electropump	
8	High-voltage batteries	

4.3. MANDATORY MAINTENANCE

4.3.1 FIRST 50 HOURS

This mandatory maintenance must be carried out at the first 50 hours of service.

The mandatory maintenance operations are only performed once. Refer to the scheduled maintenance tables once these operations have been carried out.

These operations must be performed by the maintenance personnel.
These operations may require some disassembly and specific tools.

Table 32. Mandatory maintenance - First 50 hours

	Operation	Note
☐	Performing the walk-around inspection	Refer to "Machine operation : Before using the machine : Walk-around inspection"
☐	Performing the routine maintenance	Refer to "Machine operation : Before using the machine : Routine maintenance"
☐	Performing the function tests	Refer to "Machine operation : Before using the machine : Function tests"
☐	4.5.1.1 Checking the wheel nuts tightening, page 107	
☐	4.5.1.4 Checking the tightness of the platform, page 108	
☐	4.5.2.4 Checking the condition of the lifting structure, page 111	
☐	4.5.3.3 Replacing the hydraulic oil filter, page 112	
☐	4.5.3.4 Replacing the gear box oil, page 112	

4.3.2 FIRST 150 HOURS OR FIRST 6 MONTHS

This mandatory maintenance must be carried out at the first 150 hours or first 6 months of service.

The mandatory maintenance operations are only performed once. Refer to the scheduled maintenance tables once these operations have been carried out.

These operations must be performed by the maintenance personnel.
These operations may require some disassembly and specific tools.

Table 33. Mandatory maintenance - First 150 hours or first 6 months

	Operation	Note
☐	Performing the walk-around inspection	Refer to "Machine operation : Before using the machine : Walk-around inspection"
☐	Performing the routine maintenance	Refer to "Machine operation : Before using the machine : Routine maintenance"
☐	Performing the function tests	Refer to "Machine operation : Before using the machine : Function tests"

4.4. SCHEDULED MAINTENANCE

4.4.1 EVERY 40 HOURS OR EVERY 3 MONTHS

This maintenance must be carried out at the first 40 hours of service or every 3 months.

These operations must be performed by the maintenance personnel.
These operations may require some disassembly and specific tools.

Table 34. Scheduled maintenance - Every 40 hours or every 3 months

	Operation	Note
☐	Performing the walk-around inspection	Refer to "Machine operation : Before using the machine : Walk-around inspection"
☐	Performing the routine maintenance	Refer to "Machine operation : Before using the machine : Routine maintenance"
☐	Performing the function tests	Refer to "Machine operation : Before using the machine : Function tests"
☐	4.5.1.1 Checking the wheel nuts tightening, page 107	
☐	4.5.1.2 Checking the overload sensor, page 107	
☐	4.5.1.3 Checking the battery electrolyte density, page 107	
☐	4.5.1.4 Checking the tightness of the platform, page 108	
☐	4.5.1.5 Checking the tightness of the lifting structure, page 108	
☐	4.5.1.6 Checking the breather plug, page 108	
☐	4.5.1.7 Refilling the battery electrolyte, page 108	
☐	4.5.1.8 Checking the wheel reducers for leaks, page 109	
☐	4.5.1.9 Checking the 230V electrical outlet in the platform, page 109	
☐	4.5.1.10 Bleeding the high-voltage battery cases, page 110	

4.4.2 EVERY 75 HOURS OR EVERY 6 MONTHS

This maintenance must be carried out at the first 75 hours of service or every 6 months.

These operations must be performed by the maintenance personnel.
These operations may refer to the repair manual.

Table 35. Scheduled maintenance - Every 75 hours or every 6 months

	Operation	Note
☐	Performing the walk-around inspection	Refer to "Machine operation : Before using the machine : Walk-around inspection"
☐	Performing the routine maintenance	Refer to "Machine operation : Before using the machine : Routine maintenance"
☐	Performing the function tests	Refer to "Machine operation : Before using the machine : Function tests"
☐	4.5.2.1 Lubricating the hubs, page 110	
☐	4.5.2.2 Checking the tightness of the travel motors, page 110	
☐	4.5.2.3 Checking the platform extension ball bearings, page 111	
☐	4.5.2.4 Checking the condition of the lifting structure, page 111	

4.4.3 EVERY 150 HOURS OR EVERY YEAR

This maintenance must be carried out at the first 150 hours of service or every year.

These operations must be performed by the maintenance personnel.
These operations may refer to the repair manual.

Table 36. Scheduled maintenance - Every 150 hours or every year

	Operation	Note
□	Performing the walk-around inspection	Refer to "Machine operation : Before using the machine : Walk-around inspection"
□	Performing the routine maintenance	Refer to "Machine operation : Before using the machine : Routine maintenance"
□	Performing the function tests	Refer to "Machine operation : Before using the machine : Function tests"
□	4.4.1 Every 40 hours or every 3 months, page 103	
□	4.4.2 Every 75 hours or every 6 months, page 104	
□	4.5.3.1 Checking the tightness of the electrical connections, page 111	
□	4.5.3.2 Lubricating the platform and chassis scissors pads, page 111	
□	4.5.3.3 Replacing the hydraulic oil filter, page 112	
□	4.5.3.4 Replacing the gear box oil, page 112	
□	4.5.3.5 Checking the condition of hoses and flexible pipes, page 112	Refer to the repair manual
□	4.5.3.6 Checking the condition of the cylinders, page 113	Refer to the repair manual
□	4.5.3.7 Checking the condition of the wiring harness, page 113	Refer to the repair manual
□	4.5.3.8 Checking the movement speed, page 113	Refer to the repair manual
□	4.5.3.9 Setting the maintenance alert to zero, page 113	

4.4.4 EVERY 300 HOURS OR EVERY 2 YEARS

This maintenance must be carried out at the first 300 hours of service or every 2 years.

These operations must be performed by the maintenance personnel.
These operations may refer to the repair manual.

Table 37. Scheduled maintenance - Every 300 hours or every 2 years

	Operation	Note
□	Performing the walk-around inspection	Refer to "Machine operation : Before using the machine : Walk-around inspection"
□	Performing the routine maintenance	Refer to "Machine operation : Before using the machine : Routine maintenance"
□	Performing the function tests	Refer to "Machine operation : Before using the machine : Function tests"
□	4.4.1 Every 40 hours or every 3 months, page 103	
□	4.4.2 Every 75 hours or every 6 months, page 104	
□	4.4.3 Every 150 hours or every year, page 104	
□	4.5.4.1 Checking the hydraulic circuit pressure, page 113	Refer to the repair manual
□	4.5.4.2 Checking the hydraulic circuit outputs, page 113	Refer to the repair manual
□	4.5.4.3 Checking the scissors pads, page 113	
□	4.5.4.4 Checking the electric pump motor silent blocks, page 113	Refer to the repair manual
□	4.5.4.5 Checking the condition of the electrical control wiring, page 113	Refer to the repair manual
□	4.5.4.6 Recalibrating the overload sensor, page 113	Refer to the repair manual

4.4.5 EVERY 450 HOURS OR EVERY 3 YEARS

This maintenance must be carried out at the first 450 hours of service or every 3 years.

These operations must be performed by the maintenance personnel.
These operations may refer to the repair manual.

Table 38. Scheduled maintenance - Every 450 hours or every 3 years

	Operation	Note
☐	Performing the walk-around inspection	Refer to "Machine operation : Before using the machine : Walk-around inspection"
☐	Performing the routine maintenance	Refer to "Machine operation : Before using the machine : Routine maintenance"
☐	Performing the function tests	Refer to "Machine operation : Before using the machine : Function tests"
☐	4.4.1 Every 40 hours or every 3 months, page 103	
☐	4.4.2 Every 75 hours or every 6 months, page 104	
☐	4.4.3 Every 150 hours or every year, page 104	
☐	4.4.4 Every 300 hours or every 2 years, page 105	
☐	4.5.5.1 Replacing the hydraulic oil, page 113	

4.4.6 OPTIONAL MAINTENANCE

These operations must be performed by the maintenance personnel.
These operations may require some disassembly and specific tools.

Table 39. Optional maintenance - Occasional maintenance

	Operation	Note
☐	4.6.1 Replacing the wheels, page 114	
☐	4.6.2 Replacing the high-voltage batteries, page 114	

Table 40. Optional maintenance - Occasional operations

	Operation	Note
☐	4.7.1 Using the safety stand, page 114	
☐	4.7.2 Using the safety stands, page 115	
☐	4.7.3 Using the platform mobile control panel, page 115	
☐	4.7.4 Adjusting the compartments, page 116	

4.5. MAINTENANCE INSTRUCTIONS

4.5.1. EVERY 40 HOURS OR EVERY 3 MONTHS

4.5.1.1 Checking the wheel nuts tightening

⚠ DANGER

Tip over hazard

Always respect the maintenance intervals of this procedure.

1. Check the tightening torque of all the wheel nuts.

   Front wheels: 124 N.m ±20 N.m.
   Rear wheels: 120 N.m.

   Always tighten the wheel nuts in a cross or a star order.

2. Check the tightening of the fixing screws of the rear axle.

   80 N.m ±10 N.m.

4.5.1.2 Checking the overload sensor

The machine is in transport position.

1. Put a uniformly distributed load of 280kg (617lb) in the platform.
2. Power up the machine.
3. Raise the lifting structure to 2.2m (7-2.6ft).
   - An alert page should be displayed on the ground display screen.
   - The buzzer should sound continuously.

   If the alert page is not displayed and the buzzer does not sound:

   - Refer to the repair manual to recalibrate the overload sensor.

4.5.1.3 Checking the battery electrolyte density

⚠ DANGER

Explosion hazard

At any time, make sure that the positive terminal can not come into contact with the negative terminal or with any metallic part of the machine.
Do not allow flames or sparks and do not smoke near the batteries during maintenance.

⚠ WARNING

Severe chemical burns hazard

Avoid contact with any body parts and with clothing at all times. Always wear protective clothing, gloves, and safety eyewear or face shield during maintenance.
Flush any exposed area with clean water ad seek advice from a healthcare professional.
Avoid any contact with the body and clothing.

The batteries are charged and the last addition of distilled water was over an hour ago.

1. Open the right battery compartment.

2. Open one of the batteries cell caps (1).

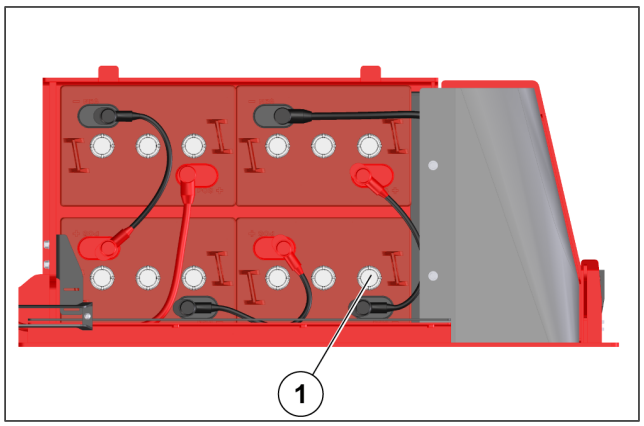


Figure 82: Battery cell cap

3. Check the battery electrolyte density of a battery cell with a hydrometer.

Percentage charge	Specific gravity	Cell	6 Volt
100	1.277	2.122	6.37
90	1.258	2.103	6.31
80	1.238	2.083	6.25
70	1.217	2.062	6.19
60	1.195	2.040	6.12
50	1.172	2.017	6.05
40	1.148	1.993	5.98
30	1.124	1.969	5.91
20	1.098	1.943	5.83
10	1.073	1.918	5.75

The density should be at least 1.23 g/cm³ with a percentage of charge of 80%.
If the density is incorrect, replace the battery. Refer to the corresponding chapter.

4. Close the battery cell cap.

Clean and dry the battery cell caps before closing them.

5. Repeat these steps for all the battery cells.

4.5.1.4 Checking the tightness of the platform

1. Check the tightening of the fixing screws of the platform.

52 N.m ±20 N.m.

4.5.1.5 Checking the tightness of the lifting structure

1. Check the tightening of the fixing screws of the lifting structure.

102 N.m ±20 N.m.

4.5.1.6 Checking the breather plug

NOTICE

Improper use hazard

Check the breather more often if the environment is dirty to avoid a deterioration of the plug and the hydraulic components.

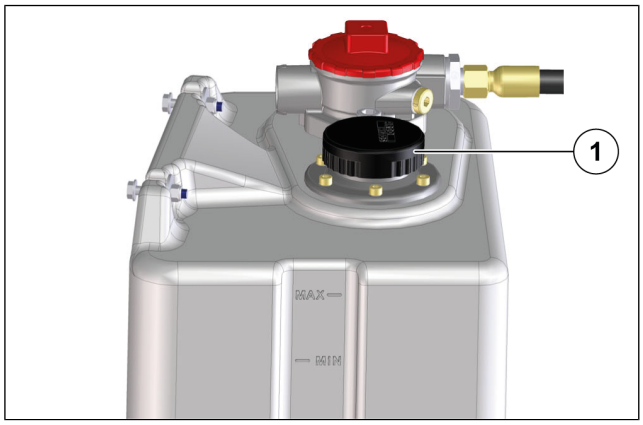


Figure 83: Breather plug

1. Check the breather plug. Replace it if necessary.

4.5.1.7 Refilling the battery electrolyte

⚠ DANGER

Explosion hazard

At any time, make sure that the positive terminal can not come into contact with the negative terminal or with any metallic part of the machine.
Do not allow flames or sparks and do not smoke near the batteries during maintenance.

⚠ WARNING

Severe chemical burns hazard

Avoid contact with any body parts and with clothing at all times. Always wear protective clothing, gloves, and safety eyewear or face shield during maintenance.
Flush any exposed area with clean water ad seek advice from a healthcare professional.
Avoid any contact with the body and clothing.

1. Check the electrolyte level in each cell of the battery.
2. Open the right battery compartment.
3. Open one of the batteries cell caps (1).

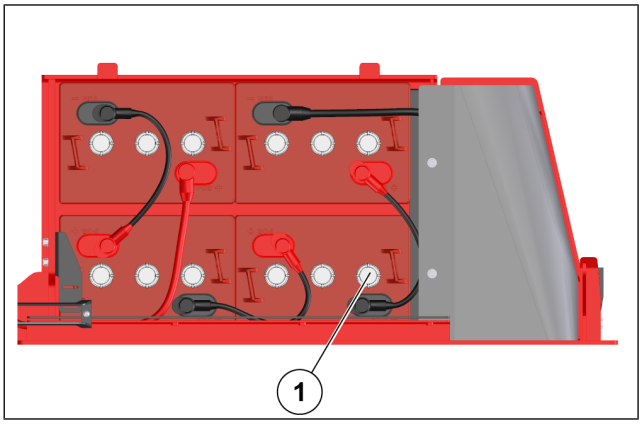


Figure 84: Battery cell cap

4. Check the electrolyte level in each cell of the battery.
5. Refill if necessary.
6. Close the battery cell cap.
7. Repeat these steps for all the other battery cells.
8. Close the right battery compartment.

4.5.1.8 Checking the wheel reducers for leaks

1. Check that no oil is leaking from the wheel reducers and the plugs.

Check the wheel reducers one after the other.

If a leak is detected:

1. Turn the wheel to put the drain/filler plug (1) in the horizontal position.

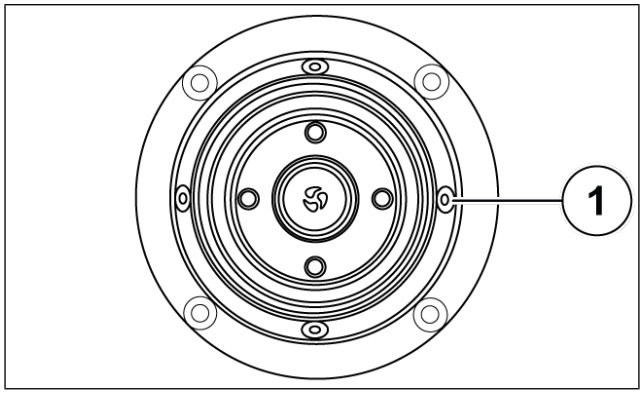


Figure 85: Wheel reducers

2. Clean the outside of the wheel reducer with a clean cloth.
3. Remove the filling/draining plug.
4. Check that the oil reaches the filling hole.
5. Add oil if necessary.
6. Refit the drain/filler plug.

40 N.m ±20 N.m.

4.5.1.9 Checking the 230V electrical outlet in the platform

⚠ DANGER

Electrocution hazard

Plug the electrical plug to a 230V/50Hz, 16A power source.
Only plug electrical devices that operate at 230V/50Hz, maximum 16A.

1. Plug the electrical plug to a power source.
2. Plug an electrical device to the electrical outlet.
3. Power up the electrical device.

   Result:

   - The electrical device should power up.
4. Power down the electrical device.

5. Unplug the electrical device.
6. Unplug the electrical plug.

4.5.1.10 Bleeding the high-voltage battery cases

⚠ DANGER

Electrocution hazard

At any time, make sure that the positive terminal can not come into contact with the negative terminal or with any metallic part of the machine.

NOTICE

Battery damage hazard

Bleed the high-voltage battery cases more often when the machine is parked outside.

1. Open the right battery compartment.
2. Connect a flexible pipe to a suction bulb and a rigid pipe.
3. Bleed the water contained in the battery case using the suction bulb.
4. Remove and empty the suction bulb.
5. Close the right battery compartment.

4.5.2. EVERY 75 HOURS OR EVERY 6 MONTHS

4.5.2.1 Lubricating the hubs

The machine is powered up.

1. Raise the lifting structure enough to place the safety stand.
2. Place the safety stand.

   Refer to the corresponding chapter.

3. Lubricate the steering pivots (1) on both sides of the machine.
4. Lubricate the cylinder rod (2) on both sides of the machine.

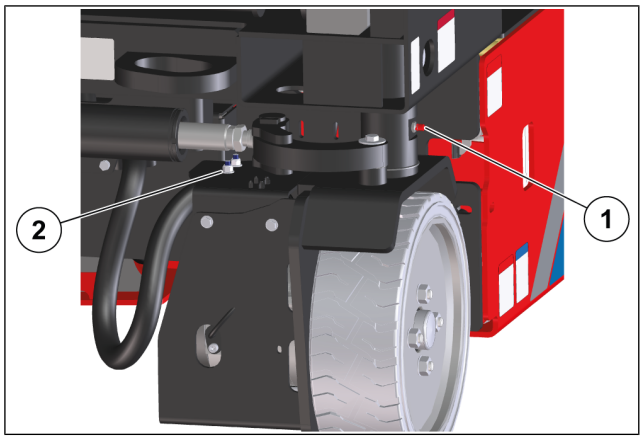


Figure 86: Lubrication points

5. Lubricate the potholes cylinders (3).

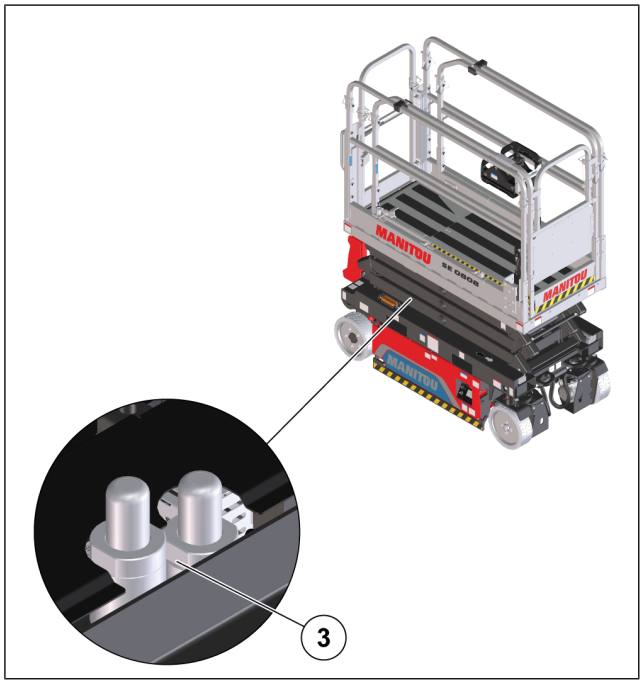


Figure 87: Lubrication points

6. Clean the excess.
7. Slightly raise the lifting structure and remove the safety stand.
8. Fully lower the lifting structure.

4.5.2.2 Checking the tightness of the travel motors

1. Check the tightening of the fixing screws of the wheel mount weldment.

   40 N.m ±20 N.m.

2. Check the tightening of the fixing screws of the travel motors.

   9 N.m ±20 N.m.

4.5.2.3 Checking the platform extension ball bearings

1. Check the condition of the ball bearings of the platform extension.
2. Check the tightening of the fixing screws of the platform extension (1).

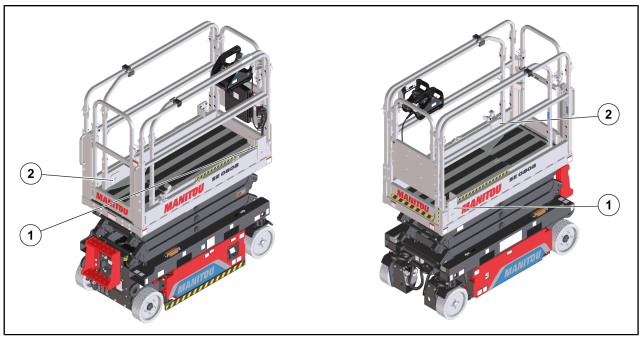


Figure 88: Platform extension

Front roller mount: 40 N.m ±20 N.m.
Mounting bracket: 40 N.m ±20 N.m.

3. Check the tightening of the fixing screws of the extension roller mount (2).

   40 N.m ±20 N.m.

4.5.2.4 Checking the condition of the lifting structure

The machine is powered down.

The machine is in transport position.

1. Check the condition of the lifting structure: absence of dents, damages or impacts, welds or component cracks, corrosion, excessive mechanical clearance or wear, missing or loose screws or nuts, etc.
2. Check the position of the lifting structure:
   a. Power up the machine.
   b. Fully raise the lifting structure.
   c. Check the position of the lifting structure.
   d. Fully lower the lifting structure.
   e. Power down the machine.

4.5.3. EVERY 150 HOURS OR EVERY YEAR

4.5.3.1 Checking the tightness of the electrical connections

1. Check the tightening of the fixing screws of the battery cut-off.

   14 N.m ±20 N.m.

2. Check the tightening of the fixing screws of the terminal motor.

   18 N.m.

4.5.3.2 Lubricating the platform and chassis scissors pads

The machine is powered down.

The machine is in transport position.

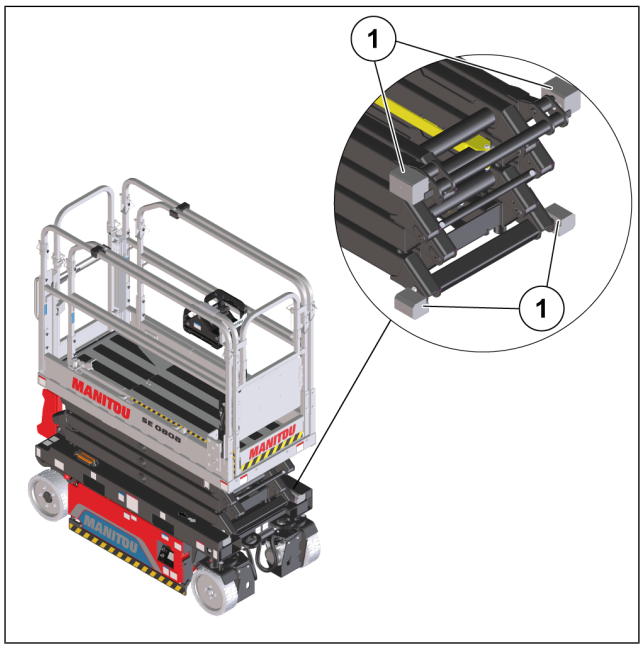


Figure 89: Scissors pads

1. Power up the machine.
2. Slightly raise the lifting structure.
3. Check the sliding surfaces of the pads of the platform and the chassis (1).
   - The surfaces must be smooth and free from corrosion.
4. Lubricate the pads of the platform and the chassis.

   Slightly raise and lower the lifting structure several times to spread the lubricant.

5. Remove the excess with a clean cloth.

6. Fully lower the lifting structure.
7. Power down the machine.

4.5.3.3 Replacing the hydraulic oil filter

During maintenance operations, the machine can be operated with open compartments from the ground only to raise/lower the lifting structure.

For any other operations, the compartments must be properly closed.

The machine is powered down.

The machine is in transport position.

1. Open the left hydraulic compartment.
2. Locate the hydraulic oil filter (1).

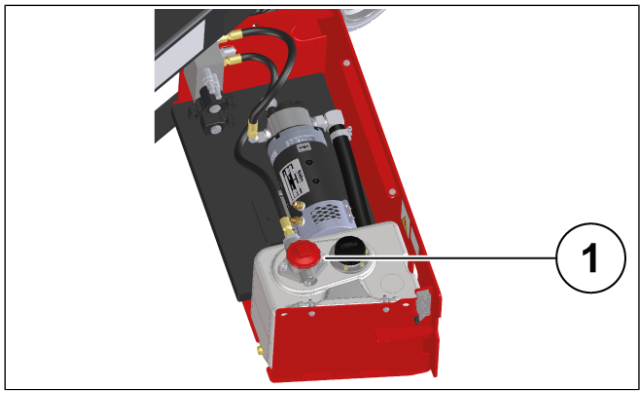


Figure 90: Hydraulic oil filter location

3. Remove the filter cover (2).

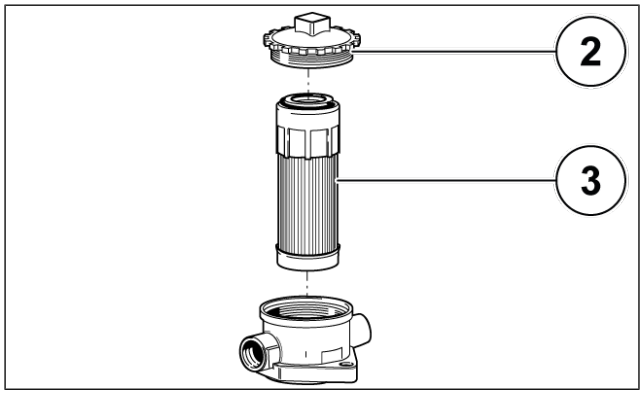


Figure 91: Hydraulic oil filter

4. Remove the used oil filter (3).
5. Put a new oil filter in place.
6. Put the filter cover back in place.
7. Power up the machine.
8. Slightly raise/lower the lifting structure several times.
9. Fully lower the lifting structure.
10. Check for leaks.
11. Close the left hydraulic compartment.
12. Power down the machine.

4.5.3.4 Replacing the gear box oil

1. Drain the gear box oil:
   a. Turn the wheel drive hubs to position the plug (1) down and the plug (2) to the right.

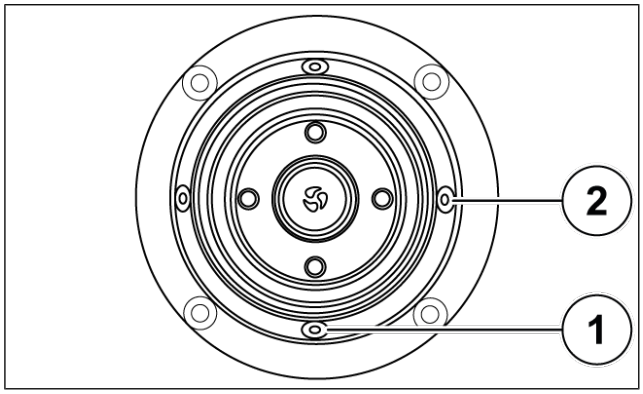


Figure 92: Wheel drive hubs

   b. Put a drain pan underneath the plug (1).
   c. Remove the plugs (1) and (2).
   d. Wait for the wheel drive hubs casings to be completely drained.
2. Fill the wheel drive hubs:
   a. Turn the wheel drive hubs to position the hole (4) up and the hole (3) to the right.

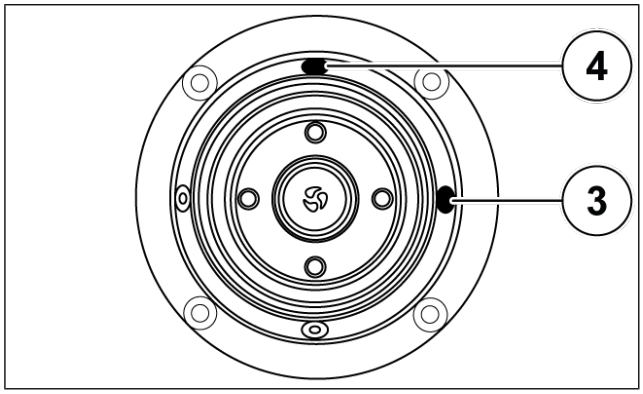


Figure 93: Wheel drive hubs

   b. Fill with new oil.

The level is correct when the oil reaches the bottom of the hole (3).

   c. Put the plugs (1) and (2) back in place.

40 N.m ±20 N.m.

4.5.3.5 Checking the condition of hoses and flexible pipes

Refer to the repair manual.

4.5.3.6 Checking the condition of the cylinders

Refer to the repair manual.

4.5.3.7 Checking the condition of the wiring harness

Refer to the repair manual.

4.5.3.8 Checking the movement speed

Refer to the repair manual.

4.5.3.9 Setting the maintenance alert to zero

1. Power up the machine.
2. Access the **Maintenance** menu on the ground control panel.
3. Set the maintenance alert to zero.

   The dealer code is needed to reset the maintenance alert.
4. Go back to the main page.
5. Power down the machine.

4.5.4. EVERY 300 HOURS OR EVERY 2 YEARS

4.5.4.1 Checking the hydraulic circuit pressure

Refer to the repair manual.

4.5.4.2 Checking the hydraulic circuit outputs

Refer to the repair manual.

4.5.4.3 Checking the scissors pads

This procedure only applies to SE 0808 S1 and SE 1008 S1 models.

1. Checking the top scissors pads:
   a. Check the length of the scissor pads.
      - The value should be equal or greater than 71mm. Replace the pads of the value is lower.
2. Checking the bottom scissors pads:
   a. Measure the distance between the lower tube of the lifting structure and the chassis.

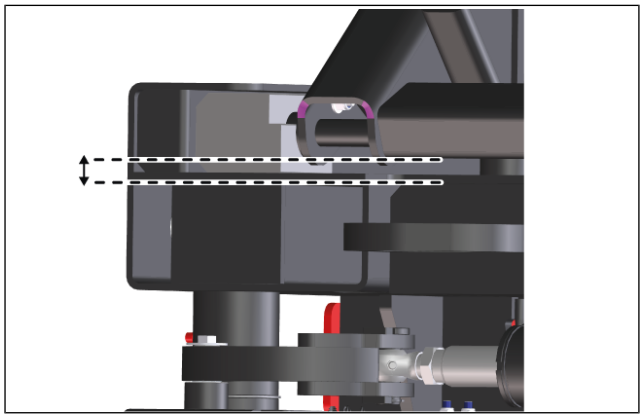


Figure 94: Distance to measure

   - The value should be equal or greater than 8mm. Replace the pads if the value is lower.

4.5.4.4 Checking the electric pump motor silent blocks

Refer to the repair manual.

4.5.4.5 Checking the condition of the electrical control wiring

Refer to the repair manual.

4.5.4.6 Recalibrating the overload sensor

Refer to the repair manual.

4.5.5. EVERY 450 HOURS OR EVERY 3 YEARS

4.5.5.1 Replacing the hydraulic oil

During maintenance operations, the machine can be operated with open compartments from the ground only to raise/lower the lifting structure.

For any other operations, the compartments must be properly closed.

The machine is powered down.

The machine is in transport position.

1. Open the left hydraulic compartment.
2. Place a drain tank underneath the hydraulic tank.

3. Remove the drain plug (1) and the tank plug (2).

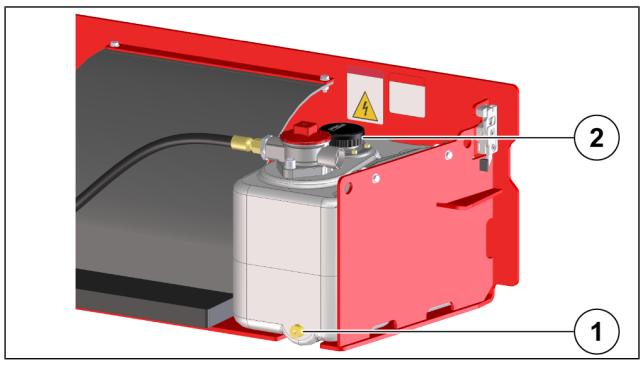


Figure 95: Hydraulic oil

4. Wait until the tank is completely drained.
5. Clean the interior of the hydraulic tank using a mild solvent.
6. Let the tank dry completely.
7. Fill the tank with hydraulic oil to the maximum level.
8. Power up the machine.
9. Fully raise the lifting structure to fill the hydraulic system.
10. Fully lower the lifting structure.
11. Add hydraulic oil to refill the tank to the maximum level.
12. Check for leaks.
13. Close the left hydraulic compartment.
14. Power down the machine.

4.6. OCCASIONAL MAINTENANCE

4.6.1 REPLACING THE WHEELS

⚠ DANGER

Crush hazard

Refer to the technical datasheet and the decals for informations on the total mass of the machine, the wheel load and the mass of one wheel.
Always use an appropriate jack to lift the machine.
Make sure that the 2 wheels on opposite side of the lifting are chocked.

This procedure explains how to replace a wheel by lifting the machine with a jack. To replace a wheel by lifting the machine by means of a crane or a forklift, refer to the corresponding chapters.

1. Park the machine on a level surface.
2. Power down the machine.
3. Chock the 2 wheels on opposite side of the wheel to replace.
4. Loosen the wheel nut of the wheel to replace.
5. Place the jack near the wheel to replace.
6. Lift the machine until the wheel is not in contact with the ground.
7. Remove the wheel nuts.
8. Remove the wheel.
9. Put the new wheel in place.
10. Replace the wheel nuts and slightly tighten them with a wrench in a cross order.
11. Lower the machine to the ground.
12. Tighten the wheel nuts in a cross order.

Refer to the chapter "Checking the wheel nuts tightening".

13. Remove the wheels blocks and the jack.

4.6.2 REPLACING THE HIGH-VOLTAGE BATTERIES

The machine is powered down.

1. Open the right battery compartment.
2. Disconnect the battery:
   a. Disconnect the negative (-) terminal.
   b. Disconnect the positive (+) terminal.
3. Remove the battery.
4. Install the new battery.

Keep the battery level when replacing it.

5. Connect the battery:
   a. Connect the positive (+) terminal.
   b. Connect the negative (-) terminal.
6. Close the right battery compartment.

4.7. OCCASIONAL OPERATIONS

4.7.1 USING THE SAFETY STAND

This procedure only applies to SE 0808 S1 models.

⚠ DANGER

Crush hazard

Always put the safety stand in place when you need to carry out a maintenance operation under the platform.
Keep a safe distance when lowering the platform to place the safety stand.

1. Power up the machine.
2. Raise the lifting structure enough to place the safety stand.
3. Pivot the safety stand inside the lifting structure and let it hang.
4. Slowly lower the lifting structure until it stops on the safety stand.

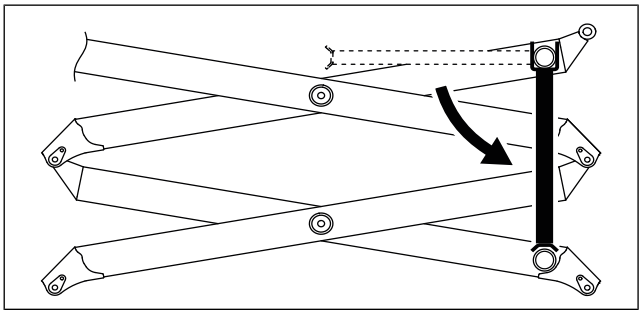


Figure 96: Safety stand

5. Power down the machine.

4.7.2 USING THE SAFETY STANDS

This procedure only applies to SE 1008 S1 models.

⚠ DANGER

Crush hazard

Always put the safety stands in place when you need to carry out a maintenance operation under the platform.
Keep a safe distance when lowering the platform to place the safety stands.

1. Power up the machine.
2. Raise the lifting structure enough to place the safety stands.
3. Pivot the safety stands on both sides of the lifting structure and let them hang.
4. Slowly lower the lifting structure until it stops on the safety stands.

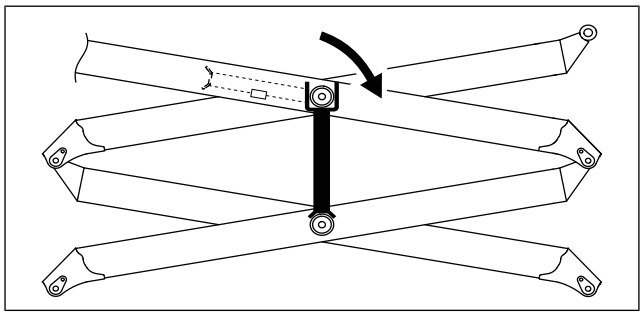


Figure 97: Safety stand

5. Power down the machine.

4.7.3 USING THE PLATFORM MOBILE CONTROL PANEL

1. To remove the mobile control panel from the guardrail:
   a. Unplug the control panel.
   b. Pivot the control panel towards the left to unlock it from the guardrail.

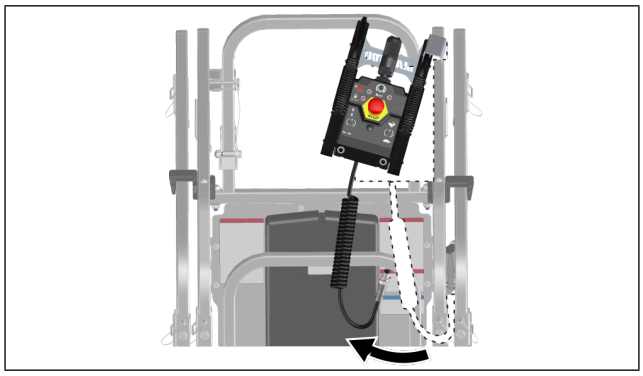


Figure 98: Unlocking the control panel

   c. Lift the control panel.

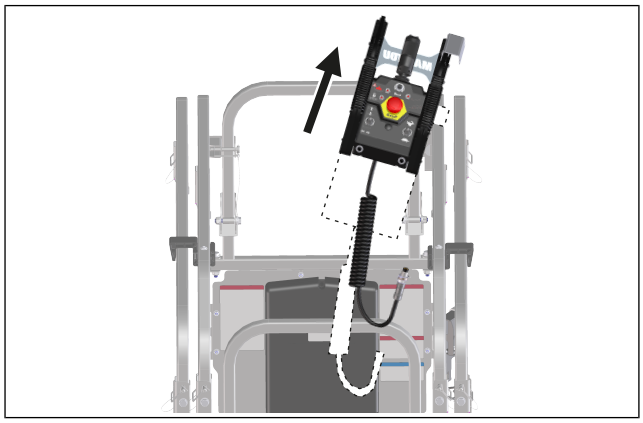


Figure 99: Lifting the control panel

2. To put the mobile control panel back on the guardrail, follow the previous steps in reverse order.

3. Latch the control panel at its designated place (1) to secure it during transportation and lifting.

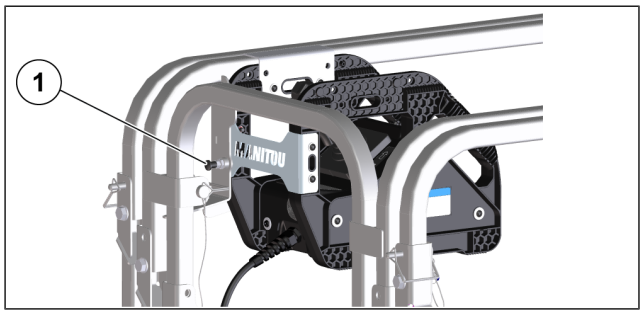


Figure 100: Control panel latch

The control panel designated place is on the front right corner of the platform. It has to be secured at its designated place when the machine is in transport position and during transportation and lifting.

4.7.4 ADJUSTING THE COMPARTMENTS

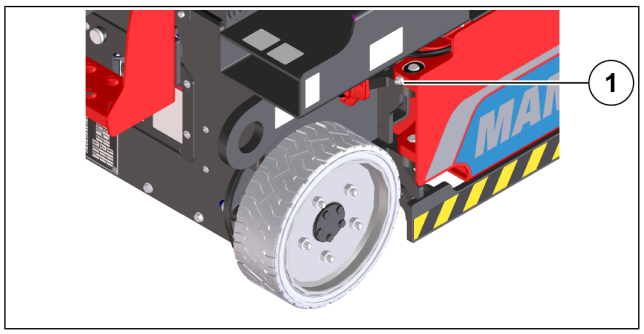


Figure 101: Adjusting a compartment

1. Loosen the screw placed at the end of the compartment.
2. Adjust the compartment horizontally.
3. Tighten the screw.

5. TECHNICAL SPECIFICATIONS

5.1. DECLARATIONS OF CONFORMITY

5.1.1 EC DECLARATION OF CONFORMITY - SE 0808 S1

This document is a specimen of the EC declaration of conformity mirroring the content of the original declaration provided with the machine.

This specimen and the original document may contain data fields which does not apply to the machine. These fields are left blank if not relevant.

Refer to the original declaration of conformity for all relevant data for your machine.

1) DÉCLARATION «CE» DE CONFORMITÉ (originale)

«EC» DECLARATION OF CONFORMITY (original)

2) Constructeur, *Manufacturer :* **MANITOU BF**
3) Adresse, *Address :* **430, RUE DE L'AUBINIÈRE - B.P 10249**
44158 - ANCENIS - CEDEX - FRANCE
4) Titulaire du dossier technique, *Holder of the technical file :* **MANITOU BF**
3) Adresse, *Address :* **430, RUE DE L'AUBINIÈRE - B.P 10249**
44158 - ANCENIS - CEDEX - FRANCE
5) Le constructeur déclare que la machine décrite ci-après, *The manufacturer declares that the machine described below :*
SE 0808 S1

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

2006/42/CE

7) Pour les machines annexe IV, *For annex IV machines :*
8) Numéro d'attestation, *Certificate number :* 2681 5131 XXX XX XX XXXX
9) Organisme notifié, *Notified body :* BUREAU VERITAS INTERNATIONAL
8 COURS DU TRIANGLE
92800 PUTEAUX - FRANCE

2000/14/CE + 2005/88/CE

10) Procédure appliquée, *Applied procedure :* annexe V
9) Organisme notifié, *Notified body :*

11) Niveau de puissance acoustique, *Sound power level :*
12) Mesuré, *Measured :* dB (A)
13) Garanti, *Guaranteed :* dB (A)

2014/30/UE

14) Normes harmonisées utilisées, *Harmonised standards used :*
EN ISO 3744
15) Normes ou dispositions techniques utilisées, *Standards or technical provisions used :*
EN 12895

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

Figure 102: EC declaration of conformity— 1/2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 103: EC declaration of conformity - Specimen 2/2

5.1.2 UKCA DECLARATION OF CONFORMITY - SE 0808 S1

This document is a specimen of the UKCA declaration of conformity mirroring the content of the original declaration provided with the machine.

This specimen and the original document may contain data fields which does not apply to the machine. These fields are left blank if not relevant.

Refer to the original declaration of conformity for all relevant data for your machine.

UKCA DECLARATION OF CONFORMITY

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

The manufacturer declares that the below described machinery:

SE 0808 S1

Complies with the following legislation:

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

The machine is designed for the lifting of persons:

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

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

Applied procedure: Schedule VIII
Approved body:

Sound power level:
Measured: dB (A)
Guaranteed: dB (A)

Electromagnetic Compatibility Regulations 2016, as amended

The following designated standards have been addressed:

EN 12895

The following standards or technical guidance have been addressed:

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

Figure 104: UKCA declaration of conformity - Specimen

5.1.3 EC DECLARATION OF CONFORMITY - SE 1008 S1

This document is a specimen of the EC declaration of conformity mirroring the content of the original declaration provided with the machine.

This specimen and the original document may contain data fields which does not apply to the machine. These fields are left blank if not relevant.

Refer to the original declaration of conformity for all relevant data for your machine.

1) DÉCLARATION «CE» DE CONFORMITÉ (originale)

«EC» DECLARATION OF CONFORMITY (original)

2) Constructeur, *Manufacturer :* **MANITOU BF**
3) Adresse, *Address :* **430, RUE DE L'AUBINIÈRE - B.P 10249**
44158 - ANCENIS - CEDEX - FRANCE
4) Titulaire du dossier technique, *Holder of the technical file :* **MANITOU BF**
3) Adresse, *Address :* **430, RUE DE L'AUBINIÈRE - B.P 10249**
44158 - ANCENIS - CEDEX - FRANCE
5) Le constructeur déclare que la machine décrite ci-après, *The manufacturer declares that the machine described below :*
SE 1008 S1

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

2006/42/CE

7) Pour les machines annexe IV, *For annex IV machines :*
8) Numéro d'attestation, *Certificate number :* 2681 5131 XXX XX XX XXXX
9) Organisme notifié, *Notified body :* Apave Exploitation France
organisme notifié n°0082
6 rue du Général Audran 92412 COURBEVOIE Cedex

2000/14/CE + 2005/88/CE

10) Procédure appliquée, *Applied procedure :* annexe V
9) Organisme notifié, *Notified body :*

11) Niveau de puissance acoustique, *Sound power level :*
12) Mesuré, *Measured :* dB (A)
13) Garanti, *Guaranteed :* dB (A)

2014/30/UE

14) Normes harmonisées utilisées, *Harmonised standards used :*
EN ISO 3744
15) Normes ou dispositions techniques utilisées, *Standards or technical provisions used :*
EN 12895

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

Figure 105: EC declaration of conformity - Specimen 1/2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 106: EC declaration of conformity - Specimen 2/2

5.1.4 UKCA DECLARATION OF CONFORMITY - SE 1008 S1

This document is a specimen of the UKCA declaration of conformity mirroring the content of the original declaration provided with the machine.

This specimen and the original document may contain data fields which does not apply to the machine. These fields are left blank if not relevant.

Refer to the original declaration of conformity for all relevant data for your machine.

UKCA DECLARATION OF CONFORMITY

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

The manufacturer declares that the below described machinery:

SE 1008 S1

Complies with the following legislation:

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

The machine is designed for the lifting of persons:

Applied procedure: Type examination by notified/approved body
Certificate number: 2681 5131 XXX XX XX XXXX
Dated:
Approved body: APAVE EXPLOITATION FRANCE
ORGANISME NOTIFIÉ N°0082
6 RUE DU GÉNÉRAL AUDRAN 92412 COURBEVOIE CEDEX

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

Applied procedure: Schedule VIII
Approved body:

Sound power level:
Measured: dB (A)
Guaranteed: dB (A)

Electromagnetic Compatibility Regulations 2016, as amended

The following designated standards have been addressed:

EN 12895

The following standards or technical guidance have been addressed:

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

Figure 107: UKCA declaration of conformity

5.2. MACHINE

5.2.1 TECHNICAL DATASHEET - SE 0808 S1

General characteristics

Table 41. General characteristics - SE 0808 S1

Description	Unit	Value	Tolerance
Maximum load capacity for indoor use	kg (lb)	230 (507)	± 10%
Maximum load capacity for outdoor use	kg (lb)	230 (507)	± 10%
Maximum load capacity on the extension	kg (lb)	115 (254)	± 10%
Maximum number of people on the platform for indoor use	-	2	-
Maximum number of people on the platform for outdoor use	-	1	-
Maximum number of people on the extension	-	1	-
Lifting height for outdoor use	mm (ft-in)	Full	-
Maximum wind speed when operating outside	km/h (mph)	45 (28)	-
Maximum tilt authorized (longitudinal / lateral)	°	3.5 / 1.5	± 0.1%
Unladen machine weight	kg (lb)	1500 (3310)	± 2%
Gradeability charge load (+ 100kg (220lb))	%	25	± 2%
Maximum slope authorized in transport position, platform downhill	% / °	25 / 14	-
Maximum side slope authorized in transport position	% / °	15 / 9	-
Machine lifting	-	without tool	-
Surface exposed to wind when lifting	m^2 (ft^2)	2	± 2%
Storage temperatures	°C (°F)	-25 (-13) / +55 (+131)	-
Guaranteed maximum operating altitude	m (ft)	1000 (3280)	-

Speeds and movements

Table 42. Speeds and movements - SE 0808 S1

Description	Unit	Value	Tolerance
Management of simultaneous functions	-	No	-
Simultaneous functions	-	0	-
Speed			
Driving speed (work position)	km/h (mph)	0.8 (0.5)	± 0.1 (± 0.06)
Driving speed (transport position) (1)	km/h (mph)	2.5 (1.56)	± 0.5 (± 0.31)
Driving speed (transport position) (2)	km/h (mph)	4.5 (2.8)	± 0.5 (± 0.31)
Driving speed (transport position) (3)	km/h (mph)	-	± 0.5 (± 0.31)
Scissor arm movement			
Unladen / laden lifting	s	16 / 17	± 2
Unladen / laden lowering	s	22 / 18	± 2

Electric motors

Table 43. Electric motors - SE 0808 S1

Description	*Unit*	*Value*	*Tolerance*
Traction motor			
Type	-	Electric AC Asynchronous	-
Supplier	-	NIDEC	-
Power	kW (HP)	2 x 0.55 (2 x 0.74)	-
Supply voltage	V/Ac	15	-
Intensity	A/Ac	120	-
S2 (temporary operation)	min	30	-
S3 (alternating operation)	%	Not communicated	-
Elevation motor			
Type	-	Electric DC	-
Supplier	-	NIDEC	-
Power	kW (HP)	5.4 (7.2)	-
Supply voltage	V/DC	24	-
Intensity	A	280	-
S2 (temporary operation)	min	30	-
S3 (alternating operation)	%	Not communicated	-

Wheels

Table 44. Wheels - SE 0808 S1

Description	Unit	Value	Tolerance
Technical characteristics			
Wheel type	-	12 x 4 (255)	-
Number of steering wheel (front / rear)	-	2 / 0	-
Number of drive wheel (front / rear)	-	2 / 0	-
Supplier	-	CAMSO	-
Wheel / tyre type	-	Rubber	-
Dimensions (external diameter x width)	mm (in)	305 x 106 (12 x 4)	-
Tyre pressure	bar (psi)	-	-
Weight per front wheel	kg (lb)	11 (24)	± 2%
Weight per rear wheel	kg (lb)	10.8 (23.8)	± 2%
Load characteristics			
Front wheel - Static loaded radius dimensions in transport position (1h)	mm (ft-in)	150 (0-6)	± 2 (± 0.08)
Rear wheel - Static loaded radius dimensions in transport position (1h)	mm (ft-in)	150 (0-6)	± 2 (± 0.08)
Rolling circumference	mm (ft-in)	982 (3-2.7)	± 20 (± 0.8)
Load on one front wheel in transport position	kg (lb)	990 (3-3)	± 2%
Load on one rear wheel in transport position	kg (lb)	990 (3-3)	± 2%
Maximum load on one wheel in work position	kg (lb)	990 (3-3)	± 2%
Contact area on ground (hard / soft)	cm^2 (in^2)	62.7 / 109.5 (9.72 / 16.97)	± 5%
Punching on ground (hard / soft)	daN/cm^2 (psi)	16 / 9.1 (232.1 / 132)	± 5%

Transmission / Brakes

Table 45. Transmission / Brakes - SE 0808 S1

Description	Unit	Value	Tolerance
Reduction type	-	Gearbox	-
Supplier	-	DANA	-
Reduction ratio	-	44.8	-
Tractive force	daN (lbf)	-	-
Front axle differential	-	NO	-
Oil capacity	l (gal)	0.15 (0.04)	-
Rear axle differential	-	NO	-
Oil capacity	l (gal)	-	-
Brake type	-	Negative	-
Control type	-	Electric	-
Braked wheels	-	2 front wheels separately	-
Brake release (freewheeling)	-	Mechanical on gearbox	-
Braking torque	daNm (ft-lbf)	2 (1.48)	± 5%

Hydraulic circuit

Table 46. Hydraulic circuit - SE 0808 S1

Description	Unit	Value	Tolerance
Main pump			
Type	-	Gear	-
Supplier	-	PARKERS	-
Capacity	cm^3 (cu.in)	5 (0.31)	-
Maximum rating capacity unladen (at 3500 rpm)	l/min (gpm)	17.5 (4.6)	-
Maximum operating pressure	bar (psi)	250 (3626)	-
Filtration			
Return	µm (mil)	10 (0.39) Absolu	-
Suction	µm (mil)	-	-
Pressure	µm (mil)	-	-
Manifold	-	-	-
Supplier	-	WALVOIL	-
Maximum pressure	bar (psi)	180 (2611)	± 5 (± 72)
Hydraulic capacity oil tank	l (gal)	12 (3.43)	-

Electric circuit

Table 47. Electric circuit - SE 0808 S1

Description	Unit	Value	Tolerance
Battery			
Supplier (OEM)	-	TROJAN T105	-
C5 capacity	Ah	185	-
C20 capacity	Ah	225	-
Rated voltage	V	24	-
Type	-	Semi-traction lead	-
Number of HIRD cycles with full charged battery	-	-	-
Number of HIRD cycles per hour	-	-	-
Discharge profile considered for HIRD test	-	C10	-
Electric consumption per hour	kWh	-	-
Electric consumption per day	kWh/day	-	-
CO^2 emission	g/kWh	-	-
CO^2 emission per hour	g/h	-	-
Charging time (from 20 to 100%) under 230V	h	-	-
Charging time (from 20 to 100%) under 110V	h	-	-
Life - Number of charge cycles	-	-	-
Optional battery			
Supplier (OEM)	-	TROJAN T105 AGM	-
C5 capacity	Ah	171	-
C20 capacity	Ah	217	-
Rated voltage	V	21	-
Type	-	Semi-traction	-
Number of HIRD cycles with full charged battery	-	-	-
CO^2 emission	g/kWh	-	-
CO^2 emission per hour	g/h	-	-
Charging time (from 20 to 100%) under 230V	h	-	-
Charging time (from 20 to 100%) under 110V	h	-	-
Life - Number of charge cycles	-	-	-
Battery master switch	-	Quarter turn battery cut-off	-
Charger			
Supplier (OEM)	-	GREEN POWER	-
Power	kW	0.9	-
Maximum output current	A	30	-
Ouput voltage rating	V	24	-
Input voltage	V	230 / 120	-
Maximum input current at 230V	A	10.5	-
Progression of phases type	-	IUI	-
Display screens			
Base panel screen	-	Yes	-

Description	Unit	Value	Tolerance
Type	-	Color	-
Size	mm (in)	57.6 x 43.2 (2.8)	-
Platform panel screen	-	No	-
Type	-	-	-
Size	mm (in)	-	-

Emergency pump

Table 48. Emergency pump - SE 0808 S1

Description	Unit	Value	Tolerance
Type	-	Manual	-
Capacity	cm^3 (cu.in)	-	-
Power	kW (HP)	-	-
Voltage	V	-	-
Intensity to 2175 psi	A	-	-
Embedded thermal turn-off	-	Yes / No	-
S2 (temporary operation)	min	-	-
S3 (alternating operation)	%	-	-

Dimensions

Table 49. Dimensions - SE 0808 S1

Description	Unit	Value	Tolerance
Working height in work position for indoor use	m (ft-in)	7.8 (25-7.1)	± 1%
Working height in work position for outdoor use	m (ft-in)	7.8 (25-7.1)	± 1%
Platform floor height in work position for indoor use	m (ft-in)	5.8 (19-0.3)	± 1%
Platform floor height in work position for outdoor use	m (ft-in)	5.8 (19-0.3)	± 1%
Front outreach = interior platform + 500mm (+ 20in)	m (ft-in)	2.2 (7-2.6)	± 1%
Rear outreach = interior platform + 500mm (+ 20in)	m (ft-in)	1.26 (4-1.6)	± 1%

Equipment

Table 50. Equipment - SE 0808 S1

Description	Unit	Value	Tolerance
Pipe cradle in the platform			
Equipment weight	kg (lbs)	-	-
Number of occupants in the platform	-	-	-
Platform load capacity	kg (lbs)	-	-
Maximum allowable mass on the pipe cradle	kg (lbs)	-	-

Noise and vibrations

Table 51. Noise and vibrations - SE 0808 S1

Description	Unit	Value	Tolerance
Sound power level in the LwA environment	db	<70	-
Sound power level in the platform	db	<70	-
Sound power level at 5 meters	db	<70	-
Vibrations affecting the body in the platform - Turtle speed	m/s^2 (ft/s^2)	0.2 (0.66)	-
Vibrations affecting the body in the platform - Hare speed	m/s^2 (ft/s^2)	1.4 (4.59)	-
Vibrations affecting the hands in the platform - Turtle speed	m/s^2 (ft/s^2)	0.3 (0.98)	-
Vibrations affecting the hands in the platform - Hare speed	m/s^2 (ft/s^2)	1.6 (5.25)	-

Recyclability (according to ISO 16714_2015 standard)

Table 52. Recyclability - SE 0808 S1

Description	Unit	Value	Tolerance
Machine recyclability rate Rcyc	%	-	-
Machine recyclability and valuation rate Rcov	%	-	-

5.2.2 TECHNICAL DATASHEET - SE 1008 S1

General characteristics

Table 53. General characteristics - SE 1008 S1

Description	Unit	Value	Tolerance
Maximum load capacity for indoor use	kg (lb)	230 (507)	± 10%
Maximum load capacity for outdoor use	kg (lb)	230 (507)	± 10%
Maximum load capacity on the extension	kg (lb)	115 (254)	± 10%
Maximum number of people on the platform for indoor use	-	2	-
Maximum number of people on the platform for outdoor use	-	1	-
Maximum number of people on the extension	-	1	-
Lifting height for outdoor use	m (ft-in)	9 (29-6.3)	-
Maximum wind speed when operating outside	km/h (mph)	45 (28)	-
Maximum tilt authorized (longitudinal / lateral)	°	3.5 / 1.5	± 0.1%
Unladen machine weight	kg (lb)	2200 (4850)	± 2%
Gradeability charge load (+ 100kg (220lb))	%	25	± 2%
Maximum slope authorized in transport position, platform downhill	% / °	25 / 14	-
Maximum side slope authorized in transport position	% / °	15 / 9	-
Machine lifting	-	without tool	-
Surface exposed to wind when lifting	m^2 (ft^2)	-	± 2%
Storage temperatures	°C (°F)	-25 (-13) / +55 (+131)	-
Guaranteed maximum operating altitude	m (ft)	1000 (3280)	-

Speeds and movements

Table 54. Speeds and movements - SE 1008 S1

Description	Unit	Value	Tolerance
Management of simultaneous functions	-	No	-
Simultaneous functions	-	0	-
Speed			
Driving speed (working position)	km/h (mph)	0.8 (0.5)	± 0.1 (± 0.06)
Driving speed (transport position) (1)	km/h (mph)	2.5 (1.56)	± 0.5 (± 0.31)
Driving speed (transport position) (2)	km/h (mph)	4.5 (2.8)	± 0.5 (± 0.31)
Driving speed (transport position) (3)	km/h (mph)	-	± 0.5 (± 0.31)
Scissor arm movement			
Unladen / laden lifting	s	29/33	± 3
Unladen / laden lowering	s	44/32	± 3

Electric motors

Table 55. Electric motors - SE 1008 S1

Description	Unit	Value	Tolerance
Traction motor			
Type	-	Electric AC Asynchronous	-
Supplier	-	NIDEC	-
Power	kW (HP)	2X 0.77 (1.03)	-
Supply voltage	V/Ac	15	-
Intensity	A/Ac	200	-
S2 (temporary operation)	min	30	-
S3 (alternating operation)	%	Not communicated	-
Elevation motor			
Type	-	Electric DC	-
Supplier	-	NIDEC	-
Power	kW (HP)	5.4 (7.2)	-
Supply voltage	V/DC	24	-
Intensity	A	280	-
S2 (temporary operation)	min	30	-
S3 (alternating operation)	%	Not communicated	-

Wheels

Table 56. Wheels - SE 1008 S1

Description	Unit	Value	Tolerance
Technical characteristics			
Wheel type	-	15 x 5 (331)	-
Number of steering wheel (front / rear)	-	2 / 0	-
Number of drive wheel (front / rear)	-	2 / 0	-
Supplier	-	EXMILE	-
Wheel / tyre type	-	Rubber	-
Dimensions (external diameter x width)	mm (in)	381 x 125 (15 x 5)	-
Tyre pressure	bar (psi)	-	-
Weight per front wheel	kg (lb)	16.6 (36.6)	± 2%
Weight per rear wheel	kg (lb)	16.6 (36.6)	± 2%
Load characteristics			
Front wheel - Static loaded radius dimensions in transport position (1h)	mm (ft-in)	185 (0 -7.3)	± 2 (± 0.08)
Rear wheel - Static loaded radius dimensions in transport position (1h)	mm (ft-in)	186 (0 -7.3)	± 2 (± 0.08)
Rolling circumference	mm (ft-in)	1220 (4 - 0)	± 20 (± 0.8)
Load on one front wheel in transport position	kg (lb)	1320 (2910)	± 2%
Load on one rear wheel in transport position	kg (lb)	1320 (2910)	± 2%
Maximum load on one wheel in working position	kg (lb)	1320 (2910)	± 2%
Contact area on ground (hard / soft)	cm^2 (in^2)	104.56 / 146.23 (16.2 / 22.67)	± 5%
Punching on ground (hard / soft)	daN/cm^2 (psi)	12.6 / 9 (182.8 / 130.5)	± 5%

Transmission / Brakes

Table 57. Transmission / Brakes - SE 1008 S1

Description	Unit	Value	Tolerance
Reduction type	-	Gearbox	-
Supplier	-	DANA	-
Reduction ratio	-	45.13	-
Tractive force	daN (lbf)	-	-
Front axle differential	-	NO	-
Oil capacity	l (gal)	0.325 (0.09)	-
Rear axle differential	-	NO	-
Oil capacity	l (gal)	-	-
Brake type	-	Negative	-
Control type	-	Electric	-
Braked wheels	-	2 front wheels separately	-
Brake release (freewheeling)	-	Mechanical on gearbox	-
Braking torque	daNm (ft-lbf)	2 (1.48)	± 5%

Hydraulic circuit

Table 58. Hydraulic circuit - SE 1008 S1

Description	Unit	Value	Tolerance
Main pump			
Type	-	Gear	-
Supplier	-	PARKERS	-
Capacity	cm^3 (cu.in)	5 (0.31)	-
Maximum rating capacity unladen (at 3500 rpm)	l/min (gpm)	17.5 (4.6)	-
Maximum operating pressure	bar (psi)	250 (3626)	-
Filtration			
Return	µm (mil)	10 (0.39) Absolu	-
Suction	µm (mil)	-	-
Pressure	µm (mil)	-	-
Manifold	-	-	-
Supplier	-	WALVOIL	-
Maximum pressure	bar (psi)	160 (2321)	± 5 (± 72)
Hydraulic capacity oil tank	l (gal)	26	-

Electric circuit

Table 59. Electric circuit - SE 1008 S1

Description	Unit	Value	Tolerance
Battery			
Supplier (OEM)	-	TROJAN T105	-
C5 capacity	Ah	185	-
C20 capacity	Ah	225	-
Rated voltage	V	24	-
Type	-	Semi-traction lead	-
Number of HIRD cycles with full charged battery	-	-	-
Number of HIRD cycles per hour	-	-	-
Discharge profile considered for HIRD test	-	C10	-
Electric consumption per hour	kWh	-	-
Electric consumption per day	kWh/day	-	-
CO^2 emission	g/kWh	-	-
CO^2 emission per hour	g/h	-	-
Charging time (from 20 to 100%) under 230V	h	-	-
Charging time (from 20 to 100%) under 110V	h	-	-
Life - Number of charge cycles	-	-	-
Optional battery			
Supplier (OEM)	-	TROJAN T105 AGM	-
C5 capacity	Ah	171	-
C20 capacity	Ah	217	-
Rated voltage	V	21	-
Type	-	Semi-traction	-
Number of HIRD cycles with full charged battery	-	-	-
CO^2 emission	g/kWh	-	-
CO^2 emission per hour	g/h	-	-
Charging time (from 20 to 100%) under 230V	h	-	-
Charging time (from 20 to 100%) under 110V	h	-	-
Life - Number of charge cycles	-	-	-
Battery master switch	-	Quarter turn battery cut-off	-
Charger			
Supplier (OEM)	-	GREEN POWER	-
Power	kW	0.9	-
Maximum output current	A	30	-
Ouput voltage rating	V	24	-
Input voltage	V	230 / 120	-
Maximum input current at 230V	A	10.5	-
Progression of phases type	-	IUI	-
Display screens			
Base panel screen	-	Yes	-

Description	Unit	Value	Tolerance
Type	-	Color	-
Size	mm (in)	57.6 x 43.2 (2.8)	-
Platform panel screen	-	No	-
Type	-	-	-
Size	mm (in)	-	-

Emergency pump

Table 60. Emergency pump - SE 1008 S1

Description	Unit	Value	Tolerance
Type	-	Manual	-
Capacity	cm^3 (cu.in)	-	-
Power	kW (HP)	-	-
Voltage	V	-	-
Intensity to 2175 psi	A	-	-
Embedded thermal turn-off	-	Yes / No	-
S2 (temporary operation)	min	-	-
S3 (alternating operation)	%	-	-

Dimensions

Table 61. Dimensions - SE 1008 S1

Description	Unit	Value	Tolerance
Working height in work position for indoor use	m (ft-in)	9.99 (32-9.3)	± 1%
Working height in work position for outdoor use	m (ft-in)	9 (29-6.3)	± 1%
Platform floor height in working position for indoor use	m (ft-in)	7.99 (26-2.6)	± 1%
Platform floor height in working position for outdoor use	m (ft-in)	7 (22-11.6)	± 1%
Front outreach = interior platform + 500mm (+ 20in)	m (ft-in)	2.44 (8-0.1)	± 1%
Rear outreach = interior platform + 500mm (+ 20in)	m (ft-in)	1.53 (5-0.2)	± 1%

Equipment

Table 62. Equipment - SE 1008 S1

Description	Unit	Value	Tolerance
Pipe cradle in the platform			
Equipment weight	kg (lbs)	-	-
Number of occupants in the platform	-	-	-
Platform load capacity	kg (lbs)	-	-
Maximum allowable mass on the pipe cradle	kg (lbs)	-	-

Noise and vibrations

Table 63. Noise and vibrations - SE 0808 S1

Description	Unit	Value	Tolerance
Sound power level in the LwA environment	db	<70	-
Sound power level in the platform	db	<70	-
Sound power level at 5 meters	db	<70	-
Vibrations affecting the body in the platform - Turtle speed	m/s^2 (ft/s^2)	0.2 (0.66)	-
Vibrations affecting the body in the platform - Hare speed	m/s^2 (ft/s^2)	1.4 (4.59)	-
Vibrations affecting the hands in the platform - Turtle speed	m/s^2 (ft/s^2)	0.3 (0.98)	-
Vibrations affecting the hands in the platform - Hare speed	m/s^2 (ft/s^2)	1.6 (5.25)	-

Recyclability (according to ISO 16714_2015 standard)

Table 64. Recyclability - SE 1008 S1

Description	Unit	Value	Tolerance
Machine recyclability rate Rcyc	%	-	-
Machine recyclability and valuation rate Rcov	%	-	-

5.2.3 DIMENSIONS - SE 0808 S1

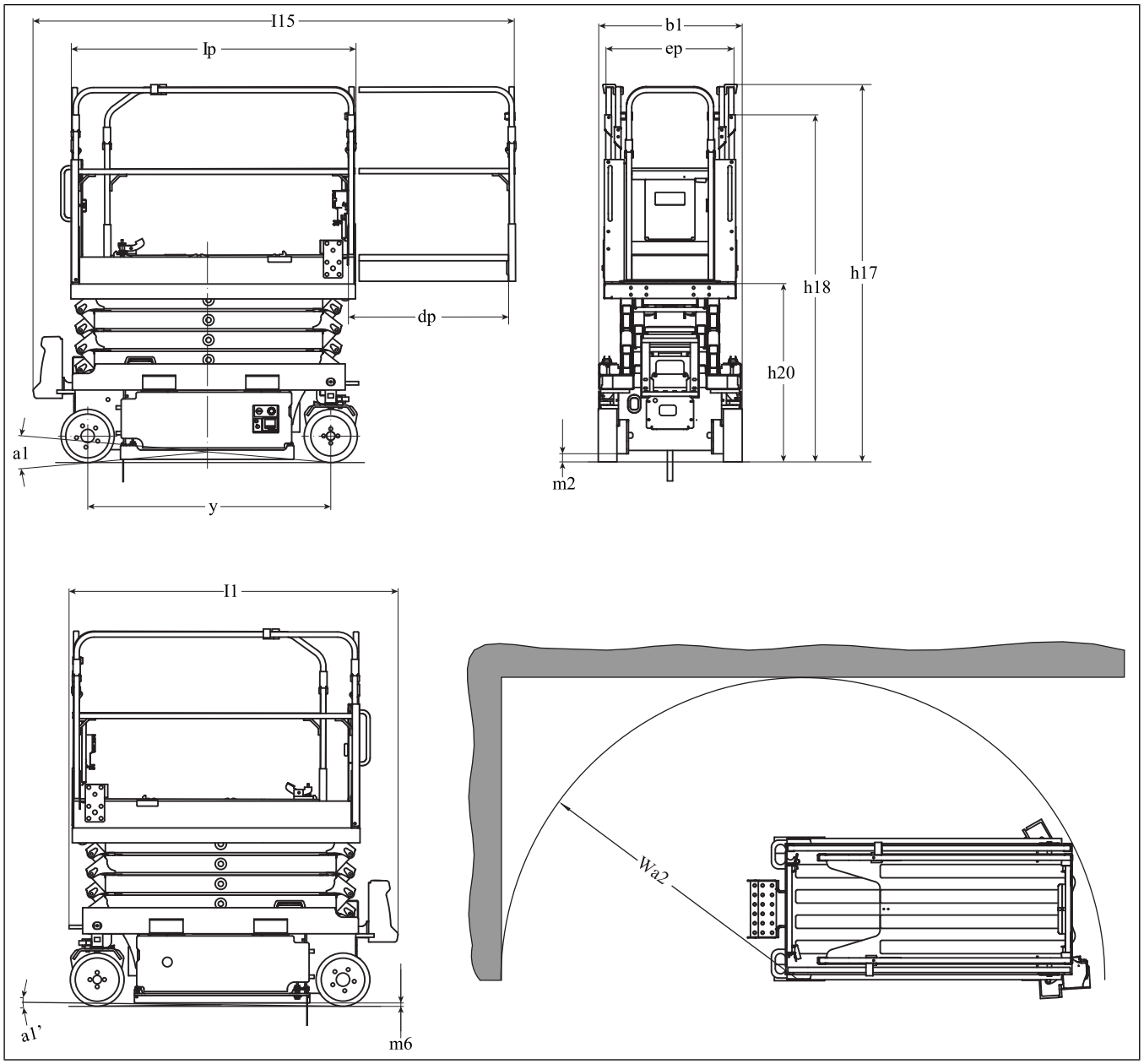


Figure 108: Dimensions - SE 0808 S1

Table 65. Dimensions - SE 0808 S1

Marker	Description	Unit	Value	Tolerance
l1	Length	mm (ft-in)	1880 (6-2)	± 1%
l15	Length with extension	mm (ft-in)	2760 (9-0.6)	± 1%
b1	Width	mm (ft-in)	815 (2-8.1)	± 1%
h17	Height in transport position	mm (ft-in)	2170 (7-1.4)	± 1%
h20	Platform floor height in transport position	mm (ft-in)	1020 (3-4.2)	± 5%
h18	Height in storage position (guardrails folded)	mm (ft-in)	1990 (6-6.5)	-
ep	Platform width	mm (ft-in)	750 (2-5.5)	-
lp	Platform length	mm (ft-in)	1640 (5-4.6)	-
dp	Extension length	mm (ft-in)	900 (2-11.4)	± 1%
Wa6	Inside turning radius	mm (ft-in)	0 (0)	± 3%
Wa2	Outside turning radius - platform	mm (ft-in)	1730 (5-8.1)	± 3%
y	Wheelbase	mm (ft-in)	1400 (4-7.1)	± 1%
m2	Under frame ground clearance	mm (ft-in)	50 (0-2)	± 2%
m6	Under pothole guards clearance	mm (ft-in)	15 (0-0.6)	± 2%
a1	Maximum angle, center in transport position	%	18	± 2%
a1'	Maximum angle, center in work position	%	5	± 2%

5.2.4 DIMENSIONS - SE 1008 S1

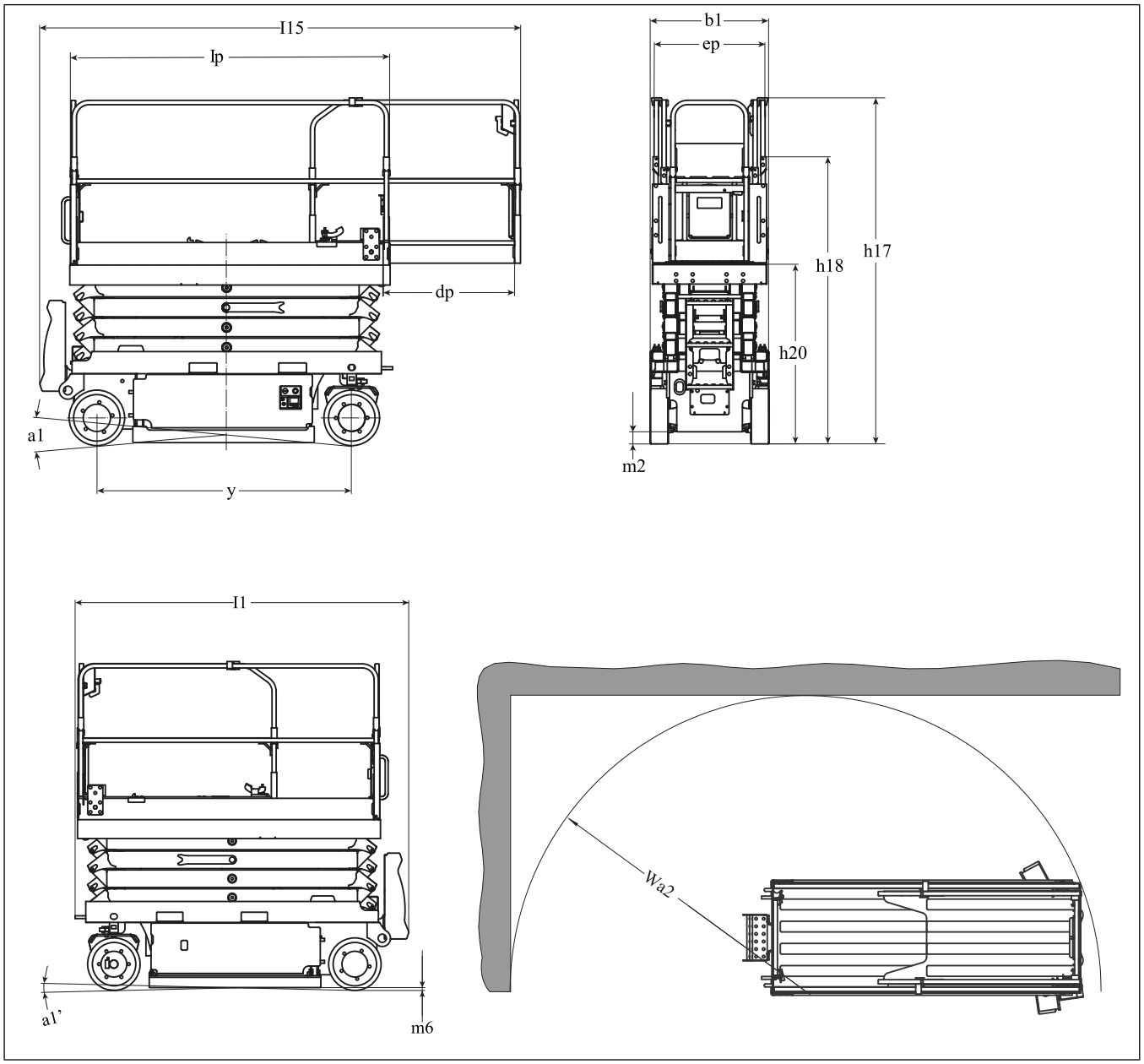


Figure 109: Dimensions - SE 1008 S1

Table 66. Dimensions - SE 1008 S1

Marker	Description	Unit	Value	Tolerance
l1	Length	mm (ft-in)	2425 (7-9.6)	± 1%
l15	Length with extension	mm (ft-in)	3300 (10-8.3)	± 1%
b1	Width	mm (ft-in)	820 (2-8.3)	± 1%
h17	Height in transport position	mm (ft-in)	2390 (7-10,1)	± 1%
h20	Platform floor height in transport position	mm (ft-in)	1240 (4-0.8)	± 5%
h18	Height in storage position (guardrails folded)	mm (ft-in)	1980 (6-6)	-
ep	Platform width	mm (ft-in)	790 (2-7)	-
lp	Platform length	mm (ft-in)	2200 (7-2.6)	-
dp	Extension length	mm (ft-in)	900 (2-11.4)	± 1%
Wa6	Inside turning radius	mm (ft-in)	0 (0)	± 3%
Wa2	Outside turning radius - platform	mm (ft-in)	2170 (7-1.4)	± 3%
y	Wheelbase	mm (ft-in)	1750 (5-8.9)	± 1%
m2	Under frame ground clearance	mm (ft-in)	78 (0-3.1) 83 (0-2.7)	± 2%
m6	Under pothole guards clearance	mm (ft-in)	15 (0-0.6) 20 (0-0.7)	± 2%
a1	Maximum angle, center in transport position	%	22	± 2%
a1'	Maximum angle, center in working position	%	5	± 2%

5.2.5 RANGE OF MOTION - SE 0808 S1

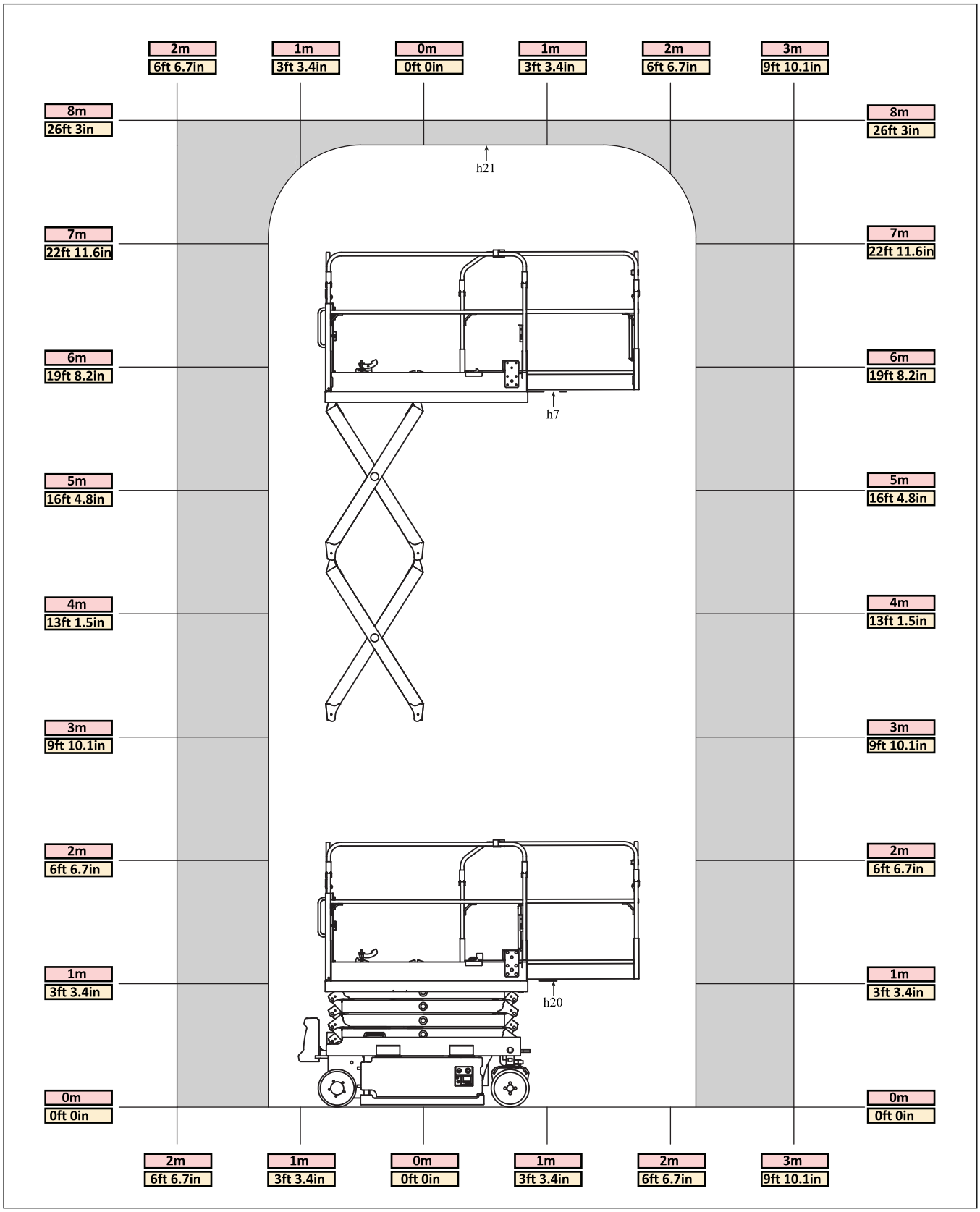


Figure 110: Range of motion - SE 0808 S1

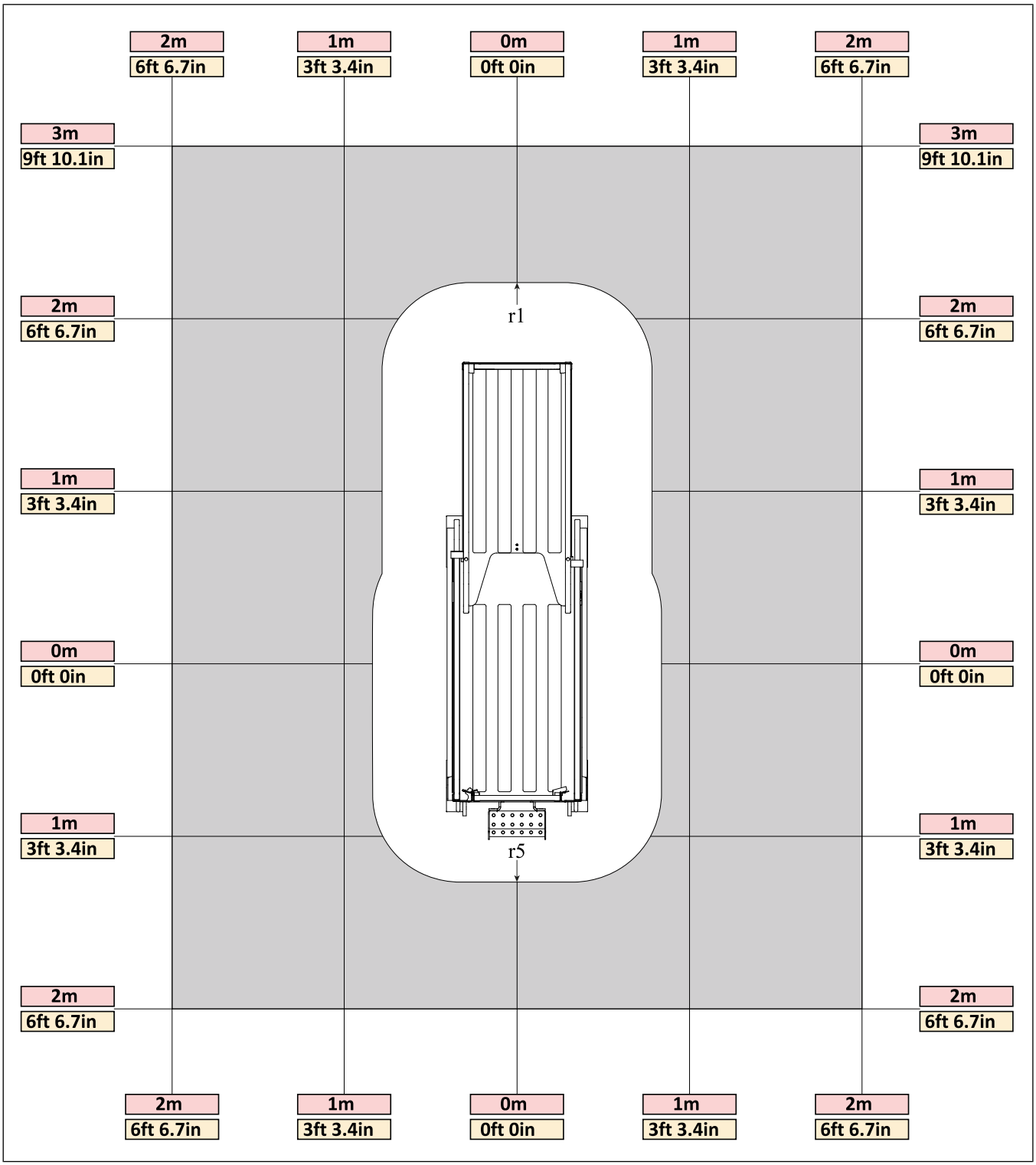


Figure 111: Range of motion - SE 0808 S1

Table 67. Range of motion - SE 0808 S1

Marker	Description	Unit	Value	Tolerance
h21	Working height	mm (ft-in)	7800 (25-7.1)	± 1%
h7	Platform floor height in work position	mm (ft-in)	5800 (19-0.3)	± 1%
h20	Platform floor height in transport position	mm (ft-in)	1020 (3-4.2)	± 5%
r1	Front outreach = interior platform + 500mm (+ 20 in)	mm (ft-in)	2200 (7-2.6)	± 1%
r5	Rear outreach = interior platform + 500mm (+ 20 in)	mm (ft-in)	1260 (4-1.6)	± 1%

5.2.6 RANGE OF MOTION - SE 1008 S1

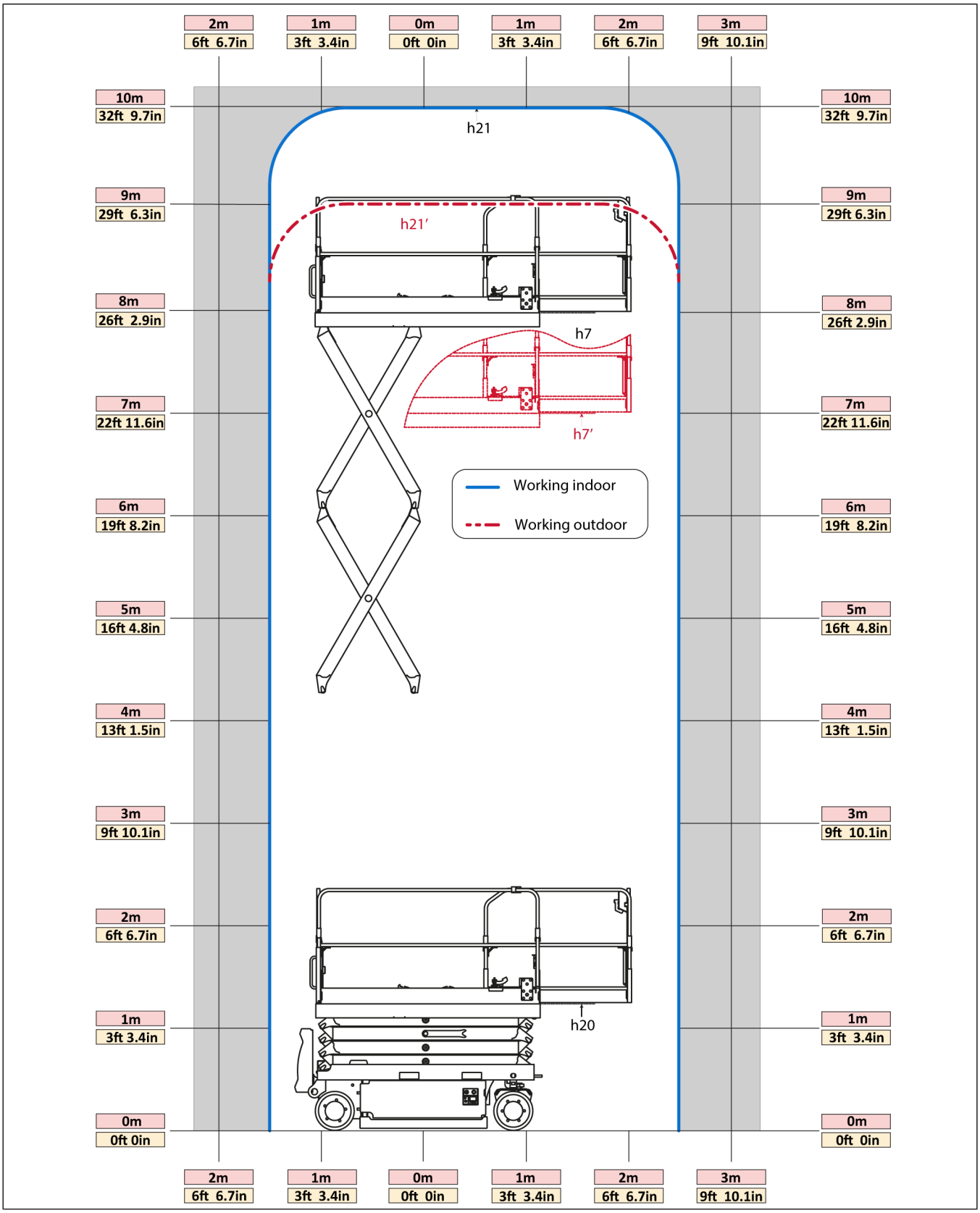


Figure 112: Range of motion - SE 1008 S1

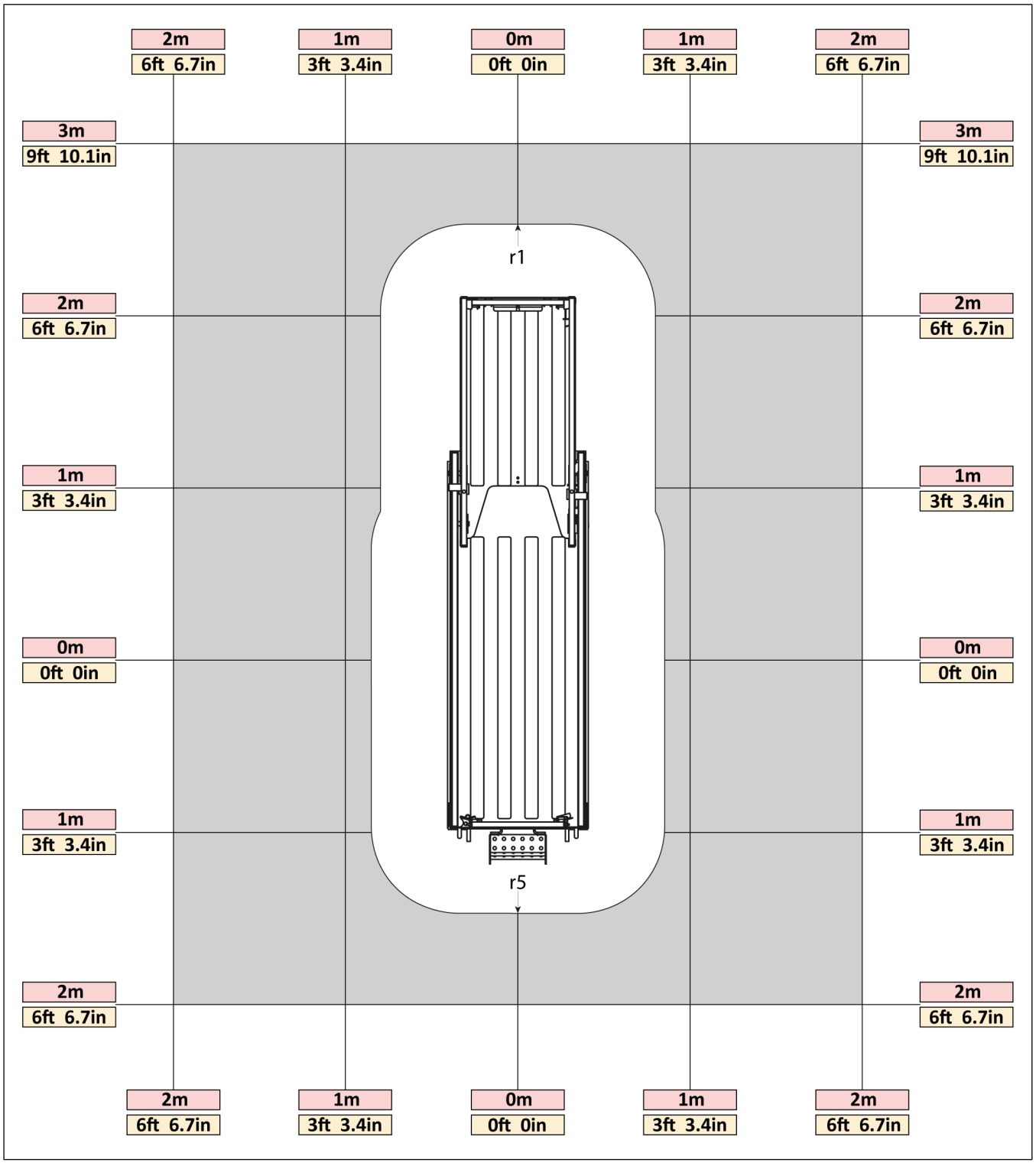


Figure 113: Range of motion - SE 1008 S1

Marker	Description	Unit	Value	Tolerance
h21	Working height in work position for indoor use	mm (ft-in)	9990 (32-9.3)	± 1%
h21'	Working height in work position for outdoor use	mm (ft-in)	9000 (29-6.3)	± 1%
h7	Platform floor height in working position for indoor use	mm (ft-in)	7990 (26-2.6)	± 1%
h7'	Platform floor height in working position for outdoor use	mm (ft-in)	7000 (22-11.6)	± 1%
h20	Platform floor height in transport position	mm (ft-in)	1240 (4-0.8)	± 5%
r1	Front outreach = interior platform + 500mm (+ 20 in)	mm (ft-in)	2440 (8-0)	± 1%
r5	Rear outreach = interior platform + 500mm (+ 20 in)	mm (ft-in)	1530 (5-0.2)	± 1%

5.2.7 FLUIDS AND LUBRICANTS

⚠ WARNING

Risk of injury

Use the recommended safety equipment when manipulating fluids and lubricants.
Check the safety datasheet from the supplier for more information.

NOTICE

Risk of performance loss

Use recommended lubricants:

- Use the same type of oil when refilling any tank.
- MANITOU fluids and lubricants are recommended when servicing your machine.

Hydraulics

Parts	Capacity	Recommended
Hydraulic oil tank	SE 0808 S1: 13 Liters SE 1008 S1: 26 Liters	Unil Opal hydraulic oil HVB 22

Lifting structure

Parts	Capacity	Recommended
General greasing	–	MANITOU grease High Performance

Batteries

Parts	*Capacity*	*Recommended*
Battery electrolyte	–	Distilled water Deionized water

Transmission

Parts	*Capacity*	*Recommended*
Front wheel hubs	SE 0808 S1: 0.3 Liters SE 1008 S1: 0.65 Liters	Unil Opal syndus oil SP 68

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