

Operator Manual



(EN) Manual part number 510932-000-EN for serial numbers 00000 to current.



WARNING

THE MANUFACTURER SHALL NOT BE HELD LIABLE IN CASE OF FAULTS OR ACCIDENTS DUE TO NEGLIGENCE, INCAPACITY, INSTALLATION BY UNQUALIFIED TECHNICIANS AND IMPROPER USE OF THE MACHINE

DO NOT OPERATE THIS MACHINE UNTIL YOU READ AND UNDERSTAND ALL THE DANGERS, WARNINGS AND CAUTIONS IN THIS MANUAL

Important

Read, understand and obey these safety rules and operating instructions before operating this machine.

Only trained and authorized personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, please contact the Manufacturer

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Owners, Users and operators:

We appreciate your choice of our machine for your application. Our number one priority is user safety, which is best achieved by our joint efforts. We feel that you make a major contribution to safety if you, as the equipment users and operators:

1. Comply with employer, job site and governmental rules.
2. Read, understand and follow the instructions in this and other manuals supplied with this machine.
3. Use good safe work practices in a commonsense way.
4. Only have trained / certified operators, directed by informed and knowledgeable supervision, running the machine.

If there is anything in this manual that is not clear or which you believe should be added, please contact us.

Contact us:



Danger

Failure to obey the instructions and safety rules in this manual will result in death or serious injury.

Do Not Operate Unless:

You learn and practice the principles of safe machine operation contained in this operator's manual.

1 Avoid hazardous situations.

Know and understand the safety rules before going on to the next section.

2 Always perform a pre-operation inspection.

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

You read, understand and obey the manufacturer's instructions and safety rules—safety and operator's manuals and machine decals.

You read, understand and obey employer's safety rules and worksite regulations.

You read, understand and obey all applicable governmental regulations.

You are properly trained to safely operate the machine.

Decal Legend

UPRIGHT product decals use symbols, color coding and signal words to identify the following:



Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

▲ DANGER Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.

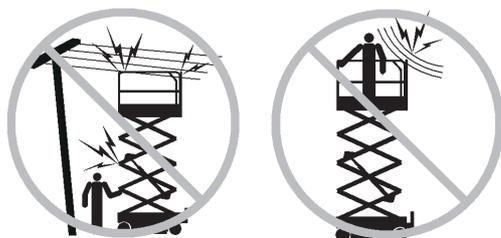
▲ CAUTION Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

NOTICE Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.

Safety Rules

⚠ Electrocutation Hazards

This machine is not electrically insulated and will not provide protection from contact with or proximity to electrical current.



Maintain safe distances from electrical power lines and apparatus in accordance with applicable governmental regulations and the following chart.

Voltage Phase to Phase	Minimum Safe Approach Distance Meters
0 to 300V	Avoid Contact
300V to 50KV	3.05
50KV to 200KV	4.60
200KV to 350KV	6.10
350KV to 500KV	7.62
500KV to 750KV	10.67
750KV to 1000KV	13.72

Allow for platform movement, electrical line sway or sag and beware of strong or gusty winds.

Keep away from the machine if it contacts energized power lines. Personnel on the ground or in the platform must not touch or operate the machine until energized power lines are shut off.

Do not operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

⚠ Tip-over Hazards

This machine is intended for use **INDOORS ONLY**, and must not be used outdoors as wind forces may make it unstable.

Occupants, equipment and materials must not exceed the maximum platform capacity.

Maximum capacity – SPX10

Maximum occupants 2

Maximum platform capacity 240 kg

Safety Rules

Do not raise the platform unless the machine is on a firm, level surface.

Do not drive over 0.8 km/h with the platform raised.



Do not depend on the tilt alarm as a level indicator.

The tilt alarm sounds on the chassis and in the platform when the machine is on a slope.

If the tilt alarm sounds:

Lower the platform. Move the machine to a firm, level surface. If the tilt alarm sounds when the platform is raised, use extreme caution to lower the platform.

Do not push off or pull toward any object outside of the platform.



Maximum allowable manual force 200 N

Do not drive the machine on or near uneven terrain, unstable surfaces or other hazardous conditions with the platform raised.

Do not replace items critical to machine stability with items of different weight or specification.

Do not use the machine on a moving or mobile surface or vehicle.

Do not place or attach fixed or overhanging

loads to any part of this machine.

Do not place ladders or scaffolds in the platform or against any part of this machine.

Be sure all tires are in good condition, castle nuts are properly tightened and cotter pins are properly installed.

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability.

Each battery must weigh 17.5 kg.



Do not use the machine as a crane.

Do not push the machine or other objects with the platform.

Do not contact adjacent structures with the platform.

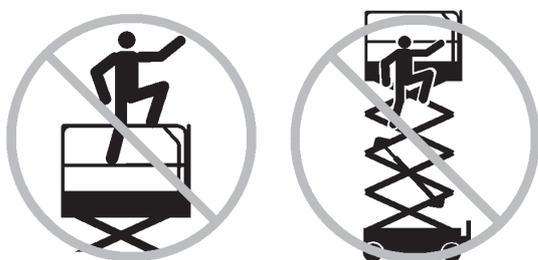
Do not tie the platform to adjacent structures.

Safety Rules

▲ Fall Hazards

The guard rail system provides fall protection. If occupant(s) of the platform are required to wear personal fall protection equipment (PFPE) due to job site or employer rules, PFPE equipment and its use shall be in accordance with the PFPE manufacturer's instructions and applicable governmental requirements.

Do not sit, stand or climb on the platform guard rails. Maintain a firm footing on the platform floor at all times.



Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

Close the entry gate before operating.

Do not operate the machine unless the guard rails are properly installed and the entry is secured for operation.

▲ Collision Hazards



Be aware of limited sight distance and blind spots when driving or operating.

Operators must comply with employer, job site and governmental rules regarding use of personal protective equipment.

Check the work area for overhead obstructions or other possible hazards.



Be aware of crushing hazards when grasping the platform guard rail.

Observe and use color-coded direction arrows on the platform controls and platform decal plate for drive and steer functions.

Do not operate a machine in the path of any crane or moving overhead machinery unless the controls of the crane have been locked out and/or precautions have been taken to prevent any potential collision.

No stunt driving or horseplay while operating a machine.

Do not lower the platform unless the area below is clear of personnel and obstructions.



Safety Rules

Limit travel speed according to the condition of the ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

▲ Component Damage Hazards

Do not use any battery or charger greater than 24V.

Do not use the machine as a ground for welding.

▲ Explosion and Fire Hazards



Do not operate the machine in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.

▲ Damaged Machine Hazards

Do not use a damaged or malfunctioning machine.

Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

Be sure all maintenance has been performed as specified in this manual and the appropriate UPRIGHT service manual.

Be sure all decals are in place and legible.

Be sure the operator's, safety and responsibilities manuals are complete, legible and in the storage container located in the platform.

▲ Crushing Hazards

Keep hands and limbs out of scissors.

Use common sense and planning when

operating the machine with the controller from the ground. Maintain safe distances between the operator, the machine and fixed objects.

Maintain a firm grasp on the platform rail when removing the rail pins. Do not allow the platform guard rails to fall.

▲ Bodily Injury Hazard

Do not operate the machine with a hydraulic oil or air leak. An air leak or hydraulic leak can penetrate and/or burn skin.

Improper contact with components under any cover will cause serious injury. Only trained maintenance personnel should access compartments. Access by the operator is only advised when performing a pre-operation inspection. All compartments must remain closed and secured during operation.

Safety Rules**▲ Battery Safety****▲ Burn Hazards**

Batteries contain acid. Always wear protective clothing and eye wear when working with batteries.



Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

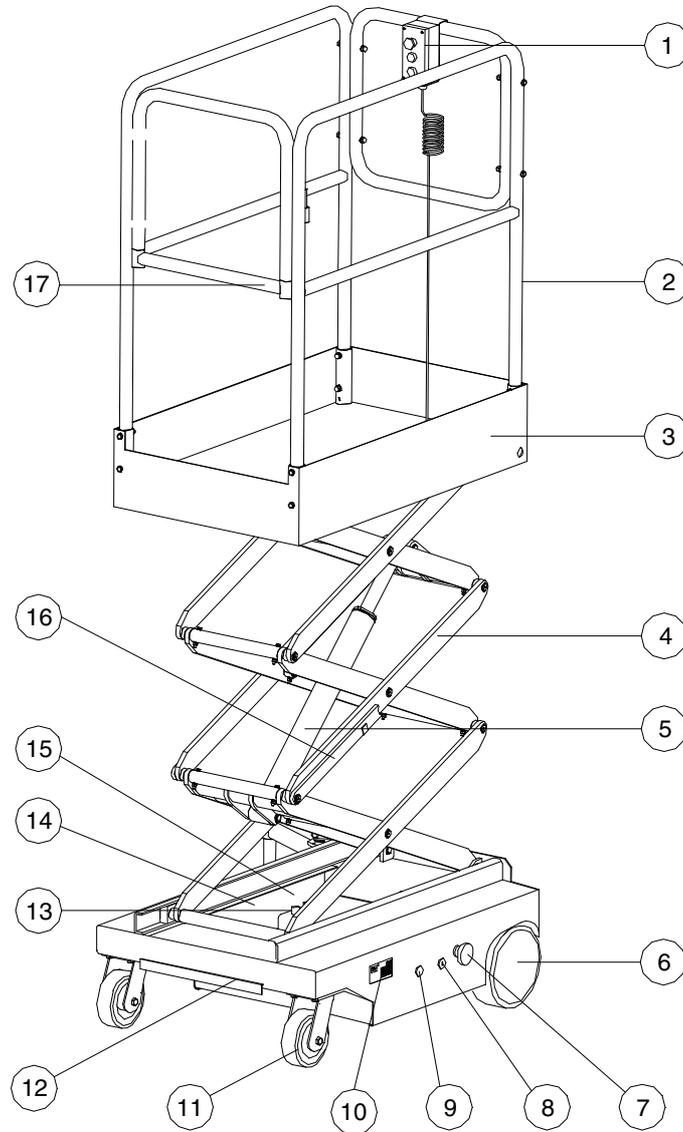
▲ Explosion Hazard

Keep sparks, flames and lighted tobacco away from batteries. Batteries emit explosive gas.

▲ Electrocutation Hazard

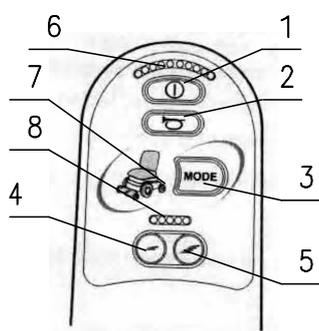
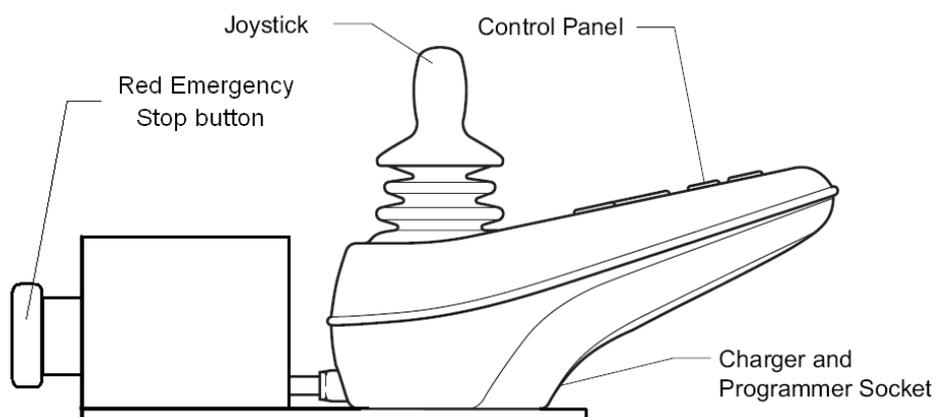
Avoid contact with electrical terminals.

Legend



- | | | | |
|---|---------------------------|----|--|
| 1 | Platform controller | 10 | Charger |
| 2 | Platform guard rails | 11 | Steer tire |
| 3 | Platform | 12 | Step |
| 4 | Scissor | 13 | Batteries |
| 5 | Hydraulic cylinder | 14 | Auxiliary lowering knob (hidden from view) |
| 6 | Drive wheels | 15 | Hydraulic power pack |
| 7 | Red Emergency Stop button | 16 | Safety arms |
| 8 | Key switch for power | 17 | Platform entry gate |
| 9 | Power indicator light | | |

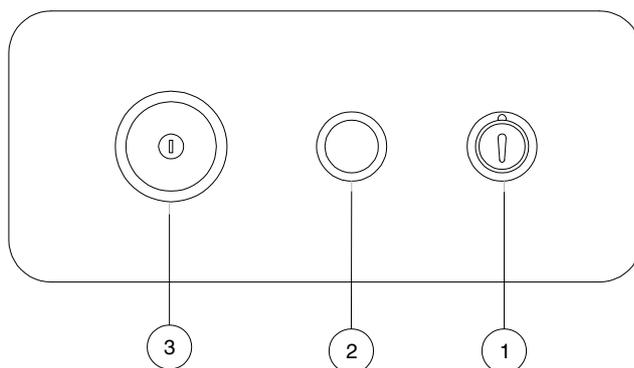
Control Panel



Joystick Control Panel

Platform Joystick controller

- | | |
|-----------------------|---------------------------|
| 1 On-off button | 5 Accelerating button |
| 2 Horn button | 6 Battery indicator light |
| 3 Mode button | 7 Mode indicator |
| 4 Decelerating button | 8 Drive speed indicator |



Ground Control Panel

- | | | |
|--------------|-------------------|-----------------------------|
| 1 Key switch | 2 Power indicator | 3 Red Emergency Stop button |
|--------------|-------------------|-----------------------------|

Pre-operation Inspection



Do Not Operate Unless:

You learn and practice the principles of safe machine operation contained in this operator's manual.

1 Avoid hazardous situations.

2 Always perform a pre-operation inspection.

Know and understand the pre-operation inspection before going on to the next section.

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

Fundamentals

It is the responsibility of the operator to perform a pre-operation inspection and routine maintenance.

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

The pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items.

If damage or any unauthorized variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in the responsibilities manual.

Pre-operation Inspection

Pre-operation Inspection

- Be sure that the operator's, safety and responsibilities manuals are complete, legible and in the storage container located in the platform.
- Be sure that all decals are legible and in place. See Decals section.
- Check for hydraulic oil leaks and proper oil level. Add oil if needed. See Maintenance section.
- Check for battery fluid leaks and proper fluid level. Add distilled water if needed. See Maintenance section.

Check the following components or areas for damage, improperly installed or missing parts and unauthorized modifications:

- Electrical components, wiring and electrical cables
 - Hydraulic hoses, fittings, cylinders
 - Hydraulic tanks
 - Drive motors
 - Wear pads
 - Tires and wheels
 - Limit switches, alarms
 - Nuts, bolts and other fasteners
 - Platform entry gate
 - Beacon and alarms (if equipped)
 - Safety arm
 - Scissor pins and retaining fasteners
 - Platform control joystick

Check entire machine for:

- Cracks in welds or structural components
- Dents or damage to machine
- Be sure that all structural and other critical

components are present and all associated fasteners and pins are in place and properly tightened

- Side rails are installed and bolts are fastened



Observe and Obey:

- Only routine maintenance items specified in this manual shall be performed by the operator.
- Scheduled maintenance inspections shall be completed by qualified service technicians, according to the manufacturer's specifications and the requirements specified in the responsibilities manual.

Maintenance Symbols Legend

NOTICE

The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below.



Indicates that tools will be required to perform this procedure.



Indicates that new parts will be required to perform this procedure.

Check the Batteries



Proper battery condition is essential to good engine performance and operational safety. Improper fluid levels or damaged cables and connections can result in engine component damage and hazardous conditions.

⚠ WARNING

Electrocution hazard

Contact with hot or live circuits may result in death or serious injury. Remove all rings, watches and other jewelry.

⚠ WARNING

Bodily injury hazard

Batteries contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

- 1 Put on protective clothing and eye wear.
- 2 Be sure that the battery cable connections are tight and free of corrosion.
- 3 Be sure that the battery hold-down bars are secure.
- 4 Remove the battery vent caps.
- 5 Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill.
- 6 Install the vent caps.

Scheduled Maintenance

Maintenance performed quarterly, annually and every two years must be completed by a person trained and qualified to perform maintenance on this machine according to the procedures found in the service manual for this machine.

Machines that have been out of service for more than three months must receive the quarterly inspection before they are put back into service.

**Do Not Operate Unless:**

You learn and practice the principles of safe machine operation contained in this operator's manual.

- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.**

Know and understand the function tests before going on to the next section.

- 4 Inspect the workplace.
- 5 Only use the machine as it was intended.

Fundamentals

The function tests are designed to discover any malfunctions before the machine is put into service.

The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

Function Tests

- 1 Select a test area that is firm, level and free of obstruction.
- 2 Be sure the battery pack is connected.
- 3 Pull out the platform and ground red Emergency Stop buttons to the on position.
- 4 Turn the key switch to power on.
 - Result: The Power indicator will light.

Test Emergency Stop

- 5 Push in the ground red Emergency Stop button to the off position.
 - Result: The Power indicator will turn off and no functions should operate.
- 6 Pull out the red Emergency Stop button to the on position.

At the Platform Controls

Test Emergency Stop

- 7 Push in the platform red Emergency Stop button to the off position.
 - Result: No functions should operate.
- 8 Turn the red Emergency Stop button clockwise to the on position.

Test the On-off function

- 9 Press the on-off button to power on.
 - Result: the power indicator should light.
- 10 Press the on-off button to power off.
 - Result: No functions should operate.
- 11 Press the on-off button to power on.

Test Up/Down Functions and Function Enable

- 12 Press the on-off button to power off.
- 13 Move the joystick forward or backward
 - Result: The platform should not raised.

- 14 Press the On-off button to power on.
- 15 Press the mode button to select lift function.
- 16 Move the joystick to forward direction.
 - Result: The platform should raise.
- 17 Move the joystick to backward direction.
 - Result: The platform should lower then stop at the height is 0.7 m.
- 18 Wait for seconds. Move the joystick to backward direction to lower the platform fully

Test the Steering

Note: When performing the steer and drive function tests, stand in the platform facing the steer end of the machine.

- 19 Press the mode button to select drive function.
- 20 Move the joystick to left direction.
 - Result: The steer wheels should turn. The machine should turn to left.
- 21 Move the joystick to right direction.
 - Result: The steer wheels should turn. The machine should turn to right.

Test Drive and Braking

- 22 Slowly move the joystick to forward direction, then return the joystick to the center position.
 - Result: The machine should move forward then come to an abrupt stop.
- 23 Slowly move the joystick to downward direction, then return the joystick to the center position.
 - Result: The machine should move backward then come to an abrupt stop.

Note: The brakes must be able to hold the machine on any slope it is able to climb.

Test Limited Drive Speed

- 24 Press the mode button to active the lift function. Move the joystick to raise the platform approximately 0.75 m from the ground.
- 25 Press the mode button to select drive function.
- 26 Press the decelerating button until only one indicator light.
- 27 Slowly move the joystick to the full drive position.
 - ⦿ Result: The maximum achievable drive speed with the platform raised should not exceed 31 cm/s. If the drive speed with the platform raised exceeds 31 cm/s, immediately tag and remove the machine from service.

Test Auxiliary Lowering

- 28 Move the joystick to forward direction to raise the platform approximately 60 cm.
- 29 Push in the red Emergency Stop button to cut off the power.
- 30 Pull the auxiliary lowering knob at the chassis side out.
 - ⦿ Result: The platform should lower to end.

Workplace Inspection



Do Not Operate Unless:

You learn and practice the principles of safe machine operation contained in this operator's manual.

- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.
- 4 Inspect the workplace.**

Know and understand the workplace inspection before going on to the next section.

- 5 Only use the machine as it was intended.

Fundamentals

The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.

Workplace Inspection

Workplace Inspection

Be aware of and avoid the following hazardous situations:

- Drop-offs or holes
- Bumps, floor obstructions or debris
- Sloped surfaces
- Unstable or slippery surfaces
- Overhead obstructions and high voltage conductors
- Hazardous locations
- Inadequate surface support to withstand all load forces imposed by the machine
- The presence of unauthorized personnel
- Other possible unsafe conditions

Operating Instructions



Do Not Operate Unless:

You learn and practice the principles of safe machine operation contained in this operator's manual.

- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.
- 4 Inspect the workplace.
- 5 Only use the machine as it was intended.**

Fundamentals

The Operating Instructions section provides instructions for each aspect of machine operation.

It is the operator's responsibility to follow all the safety rules and instructions in the operator's, safety and responsibilities manuals.

Using the machine for anything other than lifting personnel, along with their tools and materials, to an aerial work site is unsafe and dangerous.

Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's, safety and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a workplace inspection before using the machine.

Operating Instructions

Emergency Stop

Push in the red Emergency Stop button to the off position at the ground controls or the platform controls to stop all machine functions .

Repair any function that operates when either red Emergency Stop button is pushed in.

Operation from Ground

- 1 Pull out both ground and platform red Emergency Stop buttons to the on position.
- 2 Turn the key switch to power on.
- 3 Be sure the battery pack is connected before operating the machine.

Lift and Drive and steer functions are not available from the ground controls.

Operation from Platform

- 1 Pull out the ground and platform red Emergency Stop buttons to the on position.
- 2 Press the mode button to select lift function.
- 3 Be sure the battery pack is connected before operating the machine.

To Position Platform

- 1 Move the joystick forward to raise the platform.
- 2 Move the joystick backward to lower the platform.

To Steer

- 1 Press the mode button to select the drive function.
- 2 Move the joystick left to turn the machine to left direction.
- 3 Move the joystick right to turn the machine to right direction.

To Drive

- 1 Press the mode button to select the drive

function.

- 2 Move the joystick forward to drive the machine to forward direction.
- 3 Move the joystick backward to drive the machine to backward direction.
- 4 Increase speed: Press the accelerating button.

Decrease speed: Press the decelerating button.

Stop: Return the joystick to center or press the On-off button.

Machine travel speed is restricted when the platform is raised.

Auxiliary Lowering

At the Ground Controls

In the event of a power failure, use the backup auxiliary lowering function.

How to use the Safety Arm

- 1 Raise the platform approximately 1.3 m from the ground.
- 2 Rotate the safety arm away from the machine and let it hang down.
- 3 Lower the platform until the safety arm rests securely on the link. Keep clear of the safety arm when lowering the platform.

Operating Instructions

Fall Protection

Personal fall protection equipment (PFPE) is not required when operating this machine. If PFPE is required by job site or employer rules, the following shall apply:

All PFPE must comply with applicable governmental regulations and must be inspected and used in accordance with the manufacturer's instructions.

Operation From Ground with Controller

Maintain safe distances between the operator, machine and fixed objects.

Be aware of the direction the machine will travel when using the controller.

After Each Use

- 1 Select a safe parking location—firm level surface, clear of obstructions and traffic.
- 2 Lower the platform.
- 3 Turn the key switch to the off position and remove the key to secure from unauthorized use.
- 4 Chock the wheels.
- 5 Charge the batteries.

Operating Instructions



Battery and Charger Instructions

Observe and Obey:

- Do not use an external charger or booster battery.
- Charge the battery in a well-ventilated area.
- Use proper AC input voltage for charging as indicated on the machine.
- Use only a UPRIGHT authorized battery and charger.

Dry Battery Filling and Charging Instructions

- 1 Remove the battery vent caps and permanently remove the plastic seal from the battery vent openings.
- 2 Fill each cell with battery acid (electrolyte) until the level is sufficient to cover the plates.

Do not fill to the maximum level until the battery charge cycle is complete. Overfilling can cause the battery acid to overflow during charging.

Neutralize battery acid spills with baking soda and water.

- 3 Install the battery vent caps.
- 4 Charge the battery.
- 5 Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

To Charge Batteries

- 1 Be sure the batteries are connected before charging.
- 2 Open the battery compartment. The compartment should remain open for the entire charging cycle.

Maintenance - free batteries

- 3 Connect the battery charger to a grounded AC circuit.
- 4 The charger will indicate when the battery is fully charged.

Standard Batteries

- 3 Remove the battery vent caps and check the battery acid level. If necessary, add only enough distilled water to cover the plates. Do not overfill prior to the charge cycle.
- 4 Replace the battery vent caps.
- 5 Connect the battery charger to a grounded AC circuit.

Note: For optional charger/inverter, connect AC power to the plug on the back of the machine.

- 6 The charger will indicate when the battery is fully charged.

Transport and Lifting Instructions



Observe and Obey:

- Common sense and planning must be applied to control the movement of the machine when lifting it with a crane or forklift.
- The transport vehicle must be parked on a level surface.
- The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- Be sure the vehicle capacity, loading surfaces and chains or straps are sufficient to withstand the machine weight. See the serial label for the machine weight.
- The machine must be on a level surface or secured before releasing the brakes.

Lifting the Machine with a Forklift

Be sure the controls and component trays are secure.

Remove all loose items on the machine.

Fully lower the platform.

The platform must remain lowered during all loading and transport procedures.

Use the forklift pockets located on both sides.

Brake Release Operation

- 1 Chock the wheels to prevent the machine from rolling.
- 2 Be sure the winch line is properly secured to the drive chassis tie points and the path is clear of all obstructions.
- 3 Turn the key switch to power on.
- 4 Pull out both ground and platform red Emergency Stop buttons to the on position.
- 5 Press the mode button to drive position.
- 6 Move the joystick to drive position to release the brakes.

After the machine is loaded:

- 1 Chock the wheels to prevent the machine from rolling.
- 2 Push in both ground and platform red Emergency Stop buttons to the off position.
- 3 Turn the key switch to the off position.

Transport and Lifting Instructions

Securing to Truck or Trailer for Transit

Always chock the machine wheels in preparation for transport.

Turn the key switch to the off position and remove the key before transporting.

Inspect the entire machine for loose or unsecured items.

Use a minimum of four chains or straps.

Use chains or straps of ample load capacity.

Decal Inspection

Use the pictures on the next page to verify that all decals are legible and in place.

Below is a numerical list with quantities and descriptions.

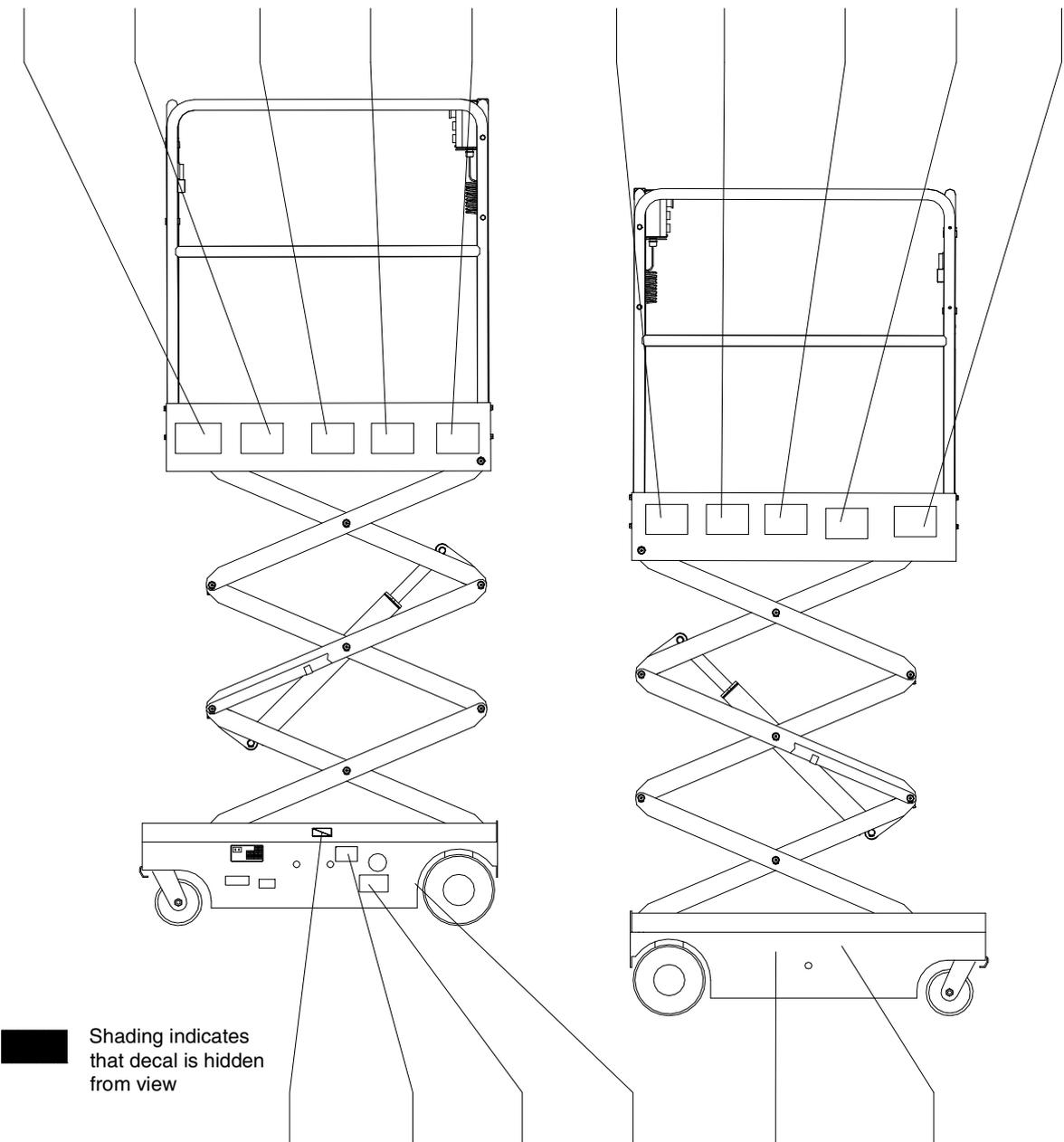
9213011	Label-Maximum Capacity 240kg	2
9411003	Danger-Crushing Hazard	2
9413011	Warning-Tip-over Hazard	2
9413013	Warning-Crushing Hazard/Fall Hazard	2
9413015	Danger-Electrocution Hazard	2
9413017	Warning-Inspect and Maintain Properly	2
9421031	Warning-Explosion/Burn Hazard	1
9441019	Warning-Recharging in Time	1
9441023	Label- Direction al Arrows	1
9443019	Notice-Charge Time	1

SPX10

Green - used to indicate operation or maintenance information.

9413011 9413013 9413015 9413017 9213011

9413011 9413013 9413015 9413017 9213011



9441023 9411003 9421031 9443019 9411003 9441019

Specifications**SPX10 Specification**

Height, working maximum	5 m
Height, platform maximum	3 m
Height, stowed maximum	1.65 m
Width	0.7 m
Length	1.14 m
Maximum load capacity	240 kg
Maximum wind speed	0 m/s
Wheelbase	0.85 m
Turning radius (outside)	2.5 m
Ground clearance	6 cm
Weight	418kg
Gradeability	30%
Maximum hydraulic pressure	110 bar
Tire size	6" Caster 230 x 80
Platform length x width	1.14 x 0.7 m
Stowed, maximum drive speeds	4 km/h
Platform raised, maximum drive speeds	0.8 km/h
Airborne noise emissions	70 dB
Maximum sound level at normal operating workstations (A-weighted)	

Floor loading information

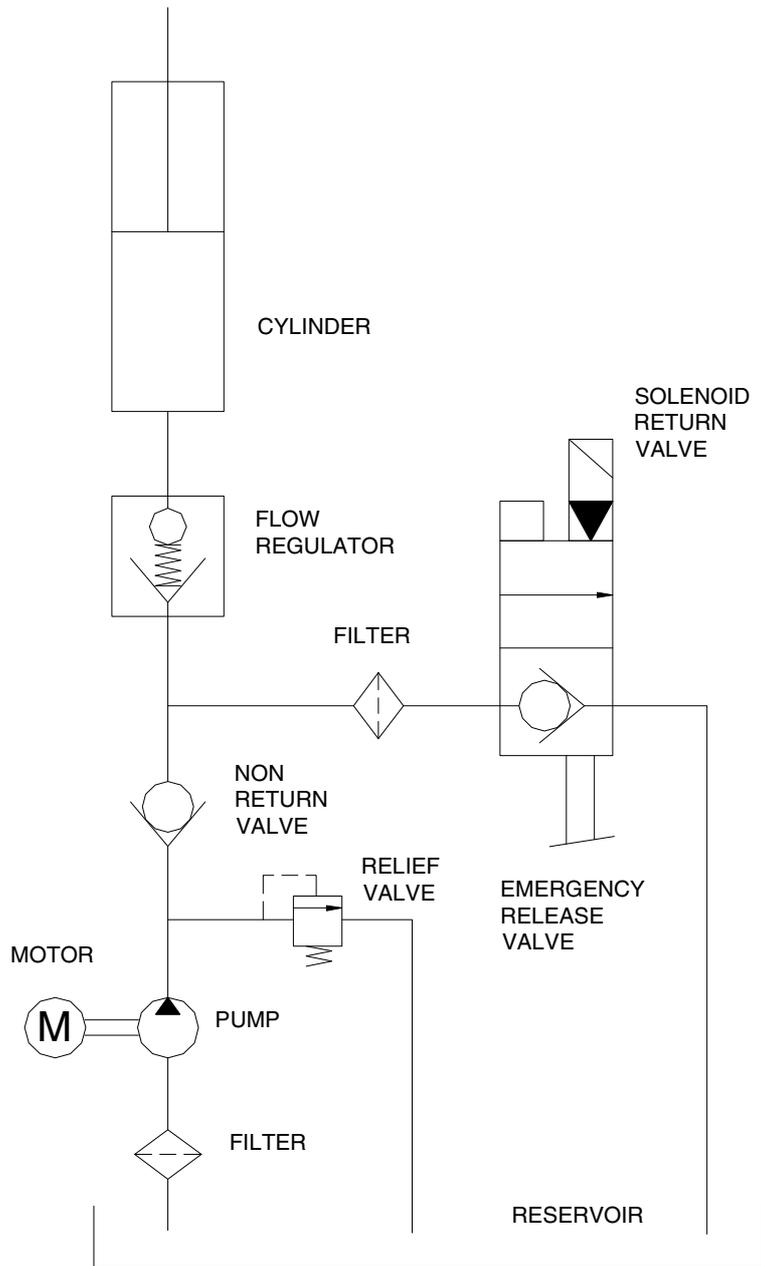
Tire load, maximum	500 kg
Tire contact pressure	983 kg/mm ²
Occupied floor pressure	824 kg/mm ²

Note: Floor loading information is approximate and does not incorporate different option configurations.

It should be used only with adequate safety factors.

Continuous improvement of our products is a UPRIGHT policy. Product specifications are subject to change without notice or obligation.

Hydraulic Schematic



Schematic

No.	Symbol	Description	Specification	Q'ty
1	IN/OUT	Controller Box		1
2	YV	Lower Valve Coil	DC 24V	1
3	KTF	Time Relay	H3Y-2DC24V5A	1
4	KAF	Intermediate Relay	MY2NJDC24V5A	1
5	RH	Power Light	XB2-BVM4LC	1
6	SB2	Emergency Stop Switch	ZB2BS5C/102C	1
7	SB1	Key Switch	ZB2BG2C/101C	1
8	KM2	Pump Contactor	W800801 80%	1
9	KM1	Power Contactor	MZJ-200S1 100A	1
10	FU2	Fuse	10A	1
11	FU1	Fuse	100A	1
12	SBS	Power Emergency Stop Switch	200A	1
13	SQ1	Low Limited Switch	TZ8108 5A	1
14	E	Battery	DC12V/95Ah	2
15	M3	Hydraulic Pump Motor	DC12V800W	1
16	M2	Right Drive Motor	DC24V400W	1
17	M1	Left Drive Motor	DC24V400W	1
18	JSM	Joystick	V 0~5V	1
19	Rnee	Controller Rnee	DC24V100A	1
20	QQE	Battery Charger	DC24V15A	1

Maintenance and Repair Record

Maintenance

Date	Scheduled maintenance undertaken	By

Repairs

Date	Repairs undertaken	By

Examinations / tests

Date	Examinations / tests undertaken	By

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