

Operation and Safety Manual

SS1230E/SS1432E/SS1932E/AS1930E/ AS1932E/AS2632E/AS2646E/AS3246E/ AS4046E/AS4650E/AS1930/AS1932/ AS2632/AS2646/AS3246/AS4046/AS4650

Scissors Mobile Elevating Work Platform

ANSI

⚠ WARNING

Before operation and maintenance, the drivers and service personnel shall always read and thoroughly understand all information in this manual. Failure to do so may result in, fatal accidents or personal injury.

This manual must be kept with this machine at all times.



Foreword

Thank you for choosing to use this Mobile Elevating Work Platform from LGMG North America. This machine is designed according to A92.20-2021. The information specified in this manual is intended for the safe and proper operation of this machine for its' intended purpose.

For maximum performance and utilization of this machine, thoroughly read and understand all the information in this manual before starting, operating, or performing maintenance on this machine.

Due to continuous product improvements, LGMG North America reserves the right to make specification changes without any prior notifications. For any updated information, contact LGMG North America.

Ensure all preventive maintenance to the machine is performed according to the interval specified in the maintenance schedule.

Keep this manual with this machine for reference at all times. When the ownership of this machine is transferred, this manual shall be transferred with this machine. This manual must be replaced immediately if it is lost, damaged, or becomes illegible.

This manual is copyrighted material. The reproduction or copy of this manual is not allowed without the written approval of LGMG North America.

The information, technical specifications and drawings in this manual are the latest available when this manual is issued. Due to continuous improvement, LGMG North America reserves the right to change the technical specifications and machine design without notice. If any specifications and information in the manual are not consistent with your machine, please contact the service department of LGMG North America.

! WARNING

Only personnel who have been properly trained and qualified to operate or maintain this machine can operate, repair and maintain this machine.

Improper operation, maintenance, and repair are dangerous and can cause personal injury and death.

Before any operation or maintenance, the operator shall thoroughly read this manual. Do not operate, perform any maintenance or make any repairs on this machine before reading and understanding this manual.

The user shall load the platform strictly according to the load rating of the platform. Do not overload the platform or make any modifications to the platform without permission from LGMG North America.

The operation regulations and preventions in this manual are only applicable for the specified use of this machine.

Safety Precautions

The operator of this machine shall understand and follow the existing safety regulations of state and local governments. If these are unavailable, the safety instructions in this manual shall be followed.

To help prevent accidents, read and understand all warnings and precautions in this manual before operation or performing maintenance.

The safety measures are specified in Chapter 1 Safety.

It is impossible to foresee every possible hazard and the safety instructions in this manual may not cover all safety prevention measures. Always ensure the safety of all personnel and protect the machine against any damage. If unable to confirm the safety of some operations, contact LGMG North America.

The operation & maintenance prevention measures listed in this manual are only applicable to the specified uses of this machine. LGMG North America assumes no responsibility if this machine is used beyond the range of this manual. The user and the operator shall be responsible for the safety of such operations.

Do not perform any operation forbidden in this manual in any situation.

The following signal words are applicable for identifying the level of safety information in this manual.



An imminent situation, that if not avoided, will result in severe injuries or death. This is also applicable to situations that will cause serious machine damage, if not avoided.



A potentially dangerous situation, that if not avoided, may result in severe injuries or death. This is also applicable to situations that may cause serious machine damage, if not avoided.



A situation, that if not avoided, may result in minor or intermediate injury. This is also applicable to situations that may cause machine damage or shorten machine service life.



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Chapter 1 Safety

/ DANGER

Death or severe injuries can be caused if the instructions and safety regulations in this manual are not followed.



Operation of the machine is forbidden, unless:

The safe operation rules of the machine are understood and practiced.

Dangerous conditions are avoided. All safety regulations shall be acknowledged and understood before the next step.

The pre-operation inspection is always completed before operation of the machine.

The function test is always made before operation of the machine.

The workstation is inspected and tested.

The machine is used for its design purposes
The manufacturer's instruction and safety
regulations-the safe operation manuals and
machine labels, shall be read, comprehended
and followed.

The safety regulations for user and the site regulations shall be read, comprehended and followed.

All applicable laws and regulations of the government are read, understood and followed.

The appropriate training on safe operation of machine has been completed.



Classification of hazards

The meanings of symbols, color codes and characters of LGMG North America's products are as follows:

Security warning symbol: are used for warning of potential personal injuries.

Observe all safety instructions below these signs, to avoid situations causing potential personal injury and death.



Red: Signifies dangerous situations. If not avoided, will result in personal death or severe injury.



Orange: Signifies dangerous situations. If not avoided, may result in personal death or severe injury.





Yellow: Signifies dangerous situations. If not avoided, may result in minor or intermediate personal injury.



Blue: Signifies dangerous situations. If not avoided, property loss or damage can occur.

1.1 Description

This machine is a mobile elevating work platform, consisting of a work platform on a scissor mechanism. It is electrically powered and drive power is provided by electric motors.

1.2 Maintenance of Safety Signs and Decals

Replace any missed or damaged safety signs or decals. If necessary, use mild soap and water to clean safety signs. Do not use solvent-based cleaners because they may damage the safety sign material.

1.3 Workstation Safety



This machine is not electrically insulated and does not provide protection from touching or getting close to electrical power lines. Please keep a safe distance from power lines and power equipment according to the applicable laws and regulations. Refer to the following table for safe approach distances for power lines.

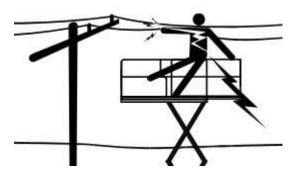


Table 1 Minimum Safe Approach Distance

	Required
Voltage	Clearance
0 to 50KV	10ft (3.05m)
50KV to 200KV	15ft (4.6m)
200KV to 350KV	20ft (6.10m)
350KV to 500KV	25ft (7.62m)
500KV to 750KV	35ft (10.67m)
750KV to 1000KV	45ft (13.72m)

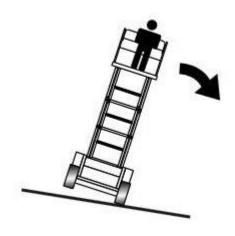
 Always take into account the influence of strong or gusty winds on the platform and also on the swinging of the electrical power lines.

- Stay away from the machine if it contacts a live electric wire. Do not touch or operate the machine from the ground or the platform before cutting off the power supply.
- Do not operate the machine in inclement weather.
- Do not use the machine as a ground for welding. This could damage electrical components on the machine.
- Do not touch the battery charger when charging the batteries.

The personnel, equipment, and material on the platform shall not exceed the maximum bearing capacity of the platform and the extending platform.

Refer to Chapter 10 – Specifications for model capacities.

 The platform can only be elevated on flat, solid ground.



- 2) The maximum elevated drive speed for models AS1930/AS1930EAS1932E/ AS2632E/AS2646E/ AS3246E/AS4046E/ AS4650E/AS1932/AS2632/ AS2646/ AS3246/AS4046/AS4650 is 0.5mph (0.8 kph). The maximum elevated drive speed for models SS1230E/SS1432E/SS1932E is 0.31 mph (0.5 kph).
- Do not use the tilt alarm as a level indicator.
 The tilt alarm only sounds when the machine is severely tilted.
- 4) If the tilt alarm sounds: lower the platform and move the platform to flat, solid ground. If the tilt alarm sounds when elevating the platform, lower the platform immediately.
- 5) If the machine is used outdoors, do not elevate the platform when wind speed is above 28mph (12.5 m/s). If wind speed exceeds the limit after elevating the platform, immediately lower the platform and stop all machine operation.
- 6) If the machine is used indoors, do not elevate the platform when wind speed is above 0mph (0m/s).
- 7) The ambient temperature range for use of this machine is -4°Fto104°F(-20℃ to 40℃)
- 8) The relative humidity for use of this machine shall be no greater than 90% (at 68°F [20°C]).
- The allowable voltage fluctuation of the machine is ±10%.
- Do not increase the surface area of platform or load. Increasing the exposure area in wind

will reduce the stability of machine.

- 11) When the platform is caught, stuck or blocked by a nearby item and is unable to normally move, do not try to release the platform using the platform controller. All personnel must be removed from the platform before releasing the platform using the ground controller.
- 12) Be cautious and lower drive speed when the machine is fully lowered and driving on an uneven road, a gravel road, an unstable or smooth surface, near a hole, or on a slope.
- Do not drive in high-speed descending any slope.



Make sure slow speed (turtle) is selected before descending any slope.

- 14) Do not drive the machine on any uneven or unstable roads or in any other dangerous conditions, when the platform is elevated.
- Do not push off or pull toward any object outside of the platform.

Maximum allowable manual force	
Model	Manual Force
SS1230E	Indoor: 400N Outdoor:200N
SS1432E	Indoor use only:400N
SS1932E	Indoor use only:400N
AS1930	Indoor use only:400N
AS1932	Indoor: 400N Outdoor:200N
AS1930E	Indoor use only:400N
AS1932E	Indoor: 400N Outdoor:200N
AS2632	Indoor use only:400N

AS2632E	Indoor use only:400N	
AS2646	Indoor: 400N Outdoor:200N	
AS3246	Indoor: 400N Outdoor:200N	
AS4046	Indoor use only:400N	
AS2646E	Indoor: 400N Outdoor:200N	
AS3246E	Indoor: 400N Outdoor:200N	
AS4046E	Indoor use only:400N	
AS4650	Indoor: 400N Outdoor:200N	
AS4650E	Indoor: 400N Outdoor:200N	

- 16) Do not use the machine as a crane.
- 17) Do not place, anchor, or suspend any load from any part of the machine.
- 18) Do not push the machine or other items using the platform.
- 19) Do not operate the machine when the chassis tray is pulled out.
- 20) Do not lean the platform against any nearby structure or wall.
- Do not modify or limit the use of the limit switch.
- 22) Do not bind or tie the platform to a nearby structure or wall.
- Do not place the load outside the platform guard rail.
- 24) Do not modify or change the aerial work platform without the written consent of the manufacturer. Installing an additional device used for carrying tools or other materials on the platform, pedal, or guard rail will increase platform weight, platform surface area, and load.
- 25) Do not modify or damage any safety or stability related parts of the machine.



- 26) Do not replace any key stability-related parts with those with different weights or specifications.
- 27) It is forbidden to use a battery weighing less than the original battery. The battery installed on the chassis is used and counterweight and is vital for the stability of machine. Every battery has a different weight (as detailed in the following table).

Table 2 Battery Weights

Table 2 Dattery Weights	
Model	Battery weight
SS1230E	55Ilb (25Kg)
AS1930	
AS1930E	
AS1932	62lbs (29Kg)
AS1932E	62lbs (28Kg)
AS2632	
AS2632E	
AS3246	
AS3246E	66lba (20Ka)
AS2646	66lbs (30Kg)
AS2646E	
SS1432E	
SS1932E	86lbs (39Kg)
AS4046	doibs (darg)
AS4046E	
AS4650	82lbs (37Kg)
AS4650E	02103 (07 Ng)

The minimum weight of battery tray (including the battery) on the chassis varies with the model type as detailed in the following table.

Table 3 Battery Tray Weights

Model	Weight of battery tray and batteries
SS1230E	173lbs(78.3Kg)
SS1432E	234lbs(106Kg)
SS1932E	234105(100Kg)
AS1930	
AS1930E	322lbs(146Kg)
AS1932	322lbs(146Kg)
AS1932E	
AS2632	331lbs(150Kg)
AS2632E	33 Hb3(130Ng)
AS3246	
AS3246E	346lbs(157Kg)
AS2646	340lb5(137 Kg)
AS2646E	
AS4046E	425lbs (193Kg)
AS4046	420105 (190Ng)
AS4650	478lbs (216.6Kg)
AS4650E	770103 (210.0Ng)

- 28) Do not place the steps, ladders, or scaffolding in the platform or lean them against any part of the machine.
- 29) Tools and materials, evenly distributed and able to be safely moved by the operator in the platform, can be carried in the platform only.
- 30) Do not use the machine on a movable surface or vehicle.
- 31) Keep all tires in good condition and



appropriately tighten the lug nuts.

∑ Crushing Hazards

- Do not place arms, hands, or fingers in any position where there is a hazard of potential crushing by the machine's scissors.
- When the machine is being driven from the ground using the controller, use good judgment and carefully plan the travel path. Keep a safe distance between the operator, machine and any fixed objects, walls, or buildings.



Do not drive the machine on a slope that exceeds the slope and side slope rating of the machine. The rated value of slope is applicable to a stowed machine.

is applicable to a crowda macimie.	
Maximum slope rating,	
stowed position:	250/ (4.49)
	25%(14°)
Maximum side slope	
rating, stowed position:	250/ (4.4%)
	25%(14°)

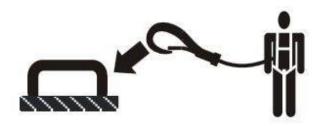
Note: Slope rating is subject to ground

conditions and adequate traction.

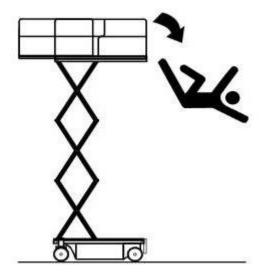


Falling Hazards

All workers in the platform must use approved safety harnesses and attach the lanyard to the provided anchor points in the platform. Each anchor point is limited to one lanyard.



Do not climb on or sit on the guard rail of the platform. Firmly stand on the platform floor at all times.



- Do not climb down the platform scissors when the machine is elevated.
- Keep the platform floor free from



debris.

- Shut down the platform door before operation.
- Do not operate the machine if the guard rail is not correctly installed.
- Do not enter or exit the platform unless the machine is in the stowed position.

/! Crash Hazards

- Pay attention to any items or obstacles within the machine's sight line and in any blind spots when starting or running the machine.
- Pay attention to the position of the extending platform when moving the machine.
- Check the workstation to avoid any overhead barriers or other possible hazards in the work site.



 Pay attention to any crushing hazards when holding the guard rail of the platform.

- The operator must follow the manufacturer's service rules for personal protection equipment, the service rules for the workstation, and the laws and regulations made by the local government.
- Observe and follow the traveling arrow and the turning direction arrows on the platform controller and the platform's label and nameplate.
- Do not operate the machine on the line of any crane or movable overhead machine, unless the crane controller is locked and/or the potential bump prevention measure is taken.
- Dangerous driving or careless operation when running the machine are strictly prohibited.
- The platform can be lowered only when there are no personnel or barriers below the platform.
- Limit travel speed according to ground conditions, traffic, road grade, personnel position, or any other possible bump factors.

 Do not charge the batteries with anything more than a 24V battery charger.



Do not use the machine as a ground for welding. This could cause damage to the electrical components on the machine.



Do not operate or charge the machine in a location with a potential for inflammable or explosive gas or particles.

Machine Damage Hazards

- Do not use a damaged or malfunctioning machine.
- Make a complete operational and function check before each shift. Attach a tag on a damaged or malfunctioning machine immediately and stop all operation.
- Be sure to perform all maintenance and operation according to the instructions in this manual.
- Be sure to keep all labels and decals at the appropriate locations. Replace any that are not legible.
- Be sure to keep this manual in the manual box of the platform.

\ Personal Injury Hazards

Do not operate the machine if it is leaking hydraulic oil. Leaking

- hydraulic oil under pressure can pierce or burn skin.
- Severe injury may result if any component below the cover is touched by mistake. Only trained technicians can perform maintenance to the components under the cover. The operator shall only perform maintenance before the pre-operation inspection. Be sure to keep all compartments closed and locked during operation of the machine.

1.4 Battery Safety



- The battery contains acid. Wear protective clothing and safety goggles when performing maintenance on the battery.
- Take measures to prevent acid from overflowing out of the battery or being touched. Neutralize the overflowed acid material from the battery with soda and water.



Keep the battery away from any sparks or open flames. The battery can release an explosive gas.



- Do not touch the battery terminal or the cables with any tool that may cause a spark.
- When the vehicle stops for a long time, it is necessary to turn off the main power switch.



Do not charge the battery with more than a 24V battery charger.



- The battery charger can be connected to the grounded AC three-wire power socket.
- On a daily basis, check to see if the wire cable, electric cable and wiring are damaged. Replace the damaged items before the operation.
- Take measures to prevent electric

shock from touching the battery terminals. When working on the electrical circuits, remove all jewelry and metallic objects. The battery charger can be connected to the grounded AC three-wire power socket.

1.5 Lock After Each Use

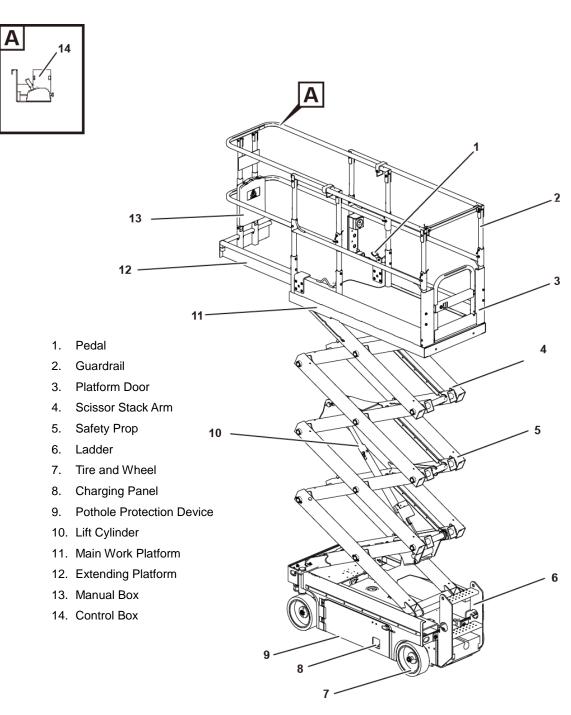
- 1) Choose a safe parking position which is solid and horizontal ground where there are no barriers or heavy traffic.
- 2) Lower the platform.
- 3) Rotate the key switch to the "OFF" position and pull out the key, to avoid unauthorized use.
- 4) Charge the battery
- 5) Disconnect and remove the platform control box
- 6) Store in a safe location



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Chapter 2 Machine Nomenclature

NOTICE: This drawing shows an AS1932E, but the nomenclature is common for all other models.



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Chapter 3 Controls

3.1 Ground Controls

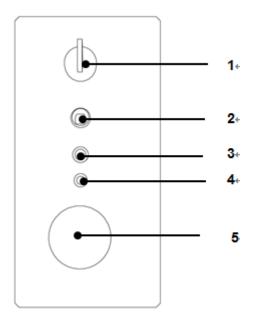


Fig -3.1

- 1. Key Switch
- 2. Platform Lift Switch
- 3. Auto reset fuse (7A)
- 4. Overload indicator lamp
- 5. Emergency stop switch

3.1.1 Key Switch

The three-position key switch controls the power supply for the machine. When the switch is set to the left, the platform operation mode will be enabled; when the switch is set to the right position, the chassis operation mode will be enabled; when the switch is set to the center position, the power to the machine will be off.

№ NOTICE

The key can be inserted or removed only when the switch is in the center position. Some machines are equipped with optional switches that allow the keys to be inserted or removed at all three positions.

3.1.2 Emergency Stop Switch

The power supply to the machine is disconnected when the emergency stop switch is pressed.



An emergency stop switch is installed on both the chassis and the platform controller. The two switches operate together in series. Normal operation can be performed when both switches are pulled out. The power supply will be cut off when either emergency stop switch is pressed.

3.1.3 Platform Lift Switch

The platform Lift Switch is only used to control the lifting or lowering of platform.



3.2 Platform Controls

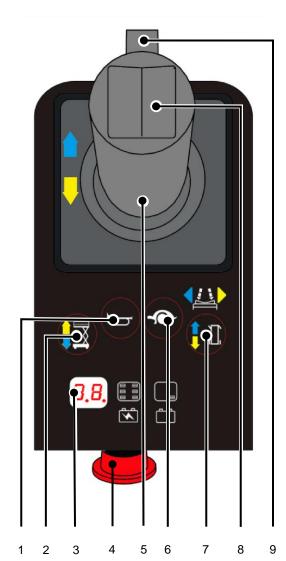


Fig-3.1(If equipped)

- 1. Horn Button
- 2. Lift Switch
- 3. Display
- 4. Emergency Stop Switch
- 5. Control Lever
- 6. Drive Speed Button
- 7. Drive Function Button
- 8. Steer Switch
- 9. Enabling Switch

3.2.1 Horn Button

The horn will sound when this button is pressed, and will stop when the button is released.

3.2.2 Lift Switch

Pressing this switch activates the lift function for the platform.

3.2.3 Display

The Display shows Diagnostic Fault Codes and when charging the batteries, displays charging status.

Table 4-Data on the Display

Operating step	Displayed data
Power on but no moving	Battery capacity
Move forward or backward	Battery capacity
Lift up the platform	Battery capacity
Lower the platform	Battery capacity
A fault occurs	Error code
Chassis control mode	СН

3.2.4 Emergency Stop Switch

The power supply to the machine is disconnected when the emergency stop switch is pressed.



An emergency stop switch is installed on both the chassis and the platform controller. The switches operate together in series. Operation can be performed when both switches are pulled out. The power supply will be cut off when either emergency stop switch



is pressed.

3.2.5 Drive/Lift Control Lever

Drive function:

After the enabling switch is pressed, the machine will move to the forward when the control lever is moved to the direction (front) indicated by the blue arrow, or to the backward when the control lever is moved to the direction (back) indicated by the yellow arrow.

Lift function:

After the enabling switch is pressed, the platform will raise when the control lever is moved to the backward, or lower when the control lever is moved to the forward.



When the platform is lowering, the lowering alarm will beep.



If using emergency lowering, the alarm will not beep.

3.2.6 Drive Speed Button

Pressing this button will select the slow or fast drive function.

3.2.7 Drive Function Button

Pressing this button activates the drive function.

3.2.8 Steer Switch

After the drive function button and the enabling switch on the lever are pressed, the steer switch can be used to control the steering direction of the machine.

3.2.9 Enabling Switch

The driving, steering, lifting or lowering function can be activated only when the enabling switch on the lever is pressed.

3.2.10 Indoor or Outdoor Mode Selection (If equipped)

- Via the lift button on the handle for indoor or outdoor selection (indoor light, outdoor flashing).
- When indoor mode is selected, the machine AS4650/AS4650E can be lifted up to 13.8 m; When outdoor mode is selected, the machine can be lifted up to 8 m and stop lifting.
- At the retracted state, the indoor/outdoor mode can be switched; at the lifting state, the indoor/outdoor mode cannot be switched.

4) When the machine is restarted at the retracted state: the default mode is outdoor mode. When the machine is restarted at the lifting state: the default mode is the one when the machine is turned off (Key switch off or emergency stop switch off).



MARNING : In case of indoor mode,

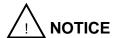
it is prohibited to move the machine from indoors to outdoors.

Chapter 4 Pre-Operation Inspection



Operation of this machine is forbidden, unless the safe operation principles of the machine are understood and practiced.

- All dangerous conditions are avoided.
- The pre-operation inspection is always performed.



Ensure the workstation inspection is fully understood before proceeding to the next step.

- The workstation is inspected and checked.
- The function test is always made before operation.
- The machine is used for its designed purpose.

4.1 Basic Principles

 The pre-operation inspection and routine maintenance are the responsibilities of the operator.

- 2) The pre-operation inspection is a visual process, which shall be performed daily by the operator before each work shift. The purpose of the inspection is to check the machine for any significant problems before performing the Function Test.
- 3) The pre-operation inspection can also be used for confirming if routine maintenance is required. The operator shall only perform routine maintenance as specified in this manual.
- Check the list in the next page and check every item.
- 5) If any damage is found or any un-permitted change different to the delivery status is found, tag the controls and stop operation of the machine.
- 6) Only qualified maintenance technicians are permitted to repair the machine as per LGMG North America. After the required maintenance has been performed, the operator must carry out the pre-operation inspection again before the function test.

4.2 Pre-Operation Inspection

- Ensure the manual is complete and legible.
 Keep it in the manual box on the platform.
- Keep all labels clear and readable and place them appropriately. Go through the label.
- 3) Check for any hydraulic oil leakage and

proper oil level. Go through the label.

- Check for any battery fluid leakage and if the liquid level is suitable. Add distilled water, if required.
- 5) Inspect the entire machine for:
 - a) Cracks in welds or structural components.
 - b) Machine pitting or damage.
 - All structural members and other key components have no missing parts, related fasteners and pins are in the correct position, and properly tightened.
 - d) Install the guard rail, place the guard rail pin in place, and tighten the retaining bolts.
- 6) Check the following components for damage, proper installation, and any missing parts or unauthorized changes to components:
 - a) Battery pack and connections.
 - b) Electric element, wiring and cable.
 - c) Nuts, bolts, and all other fasteners.
 - d) Hydraulic hoses, connectors, cylinders, and valves.
 - e) All Indicator lamps and alarms.
 - f) Safety props.
 - g) Pothole guards.
 - h) Platform overload components (if equipped).
 - i) Scissor arm pins and fasteners.
 - j) Limit switches, alarms, and horn.

- k) Drive motors.
- I) Tires and wheels.
- m) Slide blocks and liners.
- n) Brake release components.
- o) Ground straps.
- p) Platform entry gate.
- q) Platform control box.
- r) Extending platform deck.
- Keep the chassis battery tray and oil pump tray closed and locked. Engage the battery disconnect switch.



If the platform must be elevated to inspect any machine components, keep the safety prop in the correct position.

Refer to Chapter 7 – Operating Instructions.

Chapter 5 Workstation Inspection

! WARNING

Operation is forbidden unless the following safe operating principles of the machine are understood and performed.

- All dangerous work site conditions are avoided.
- Pre-Operation Inspection has been completed.
- 3) The workstation has been inspected.

NOTICE

The workstation inspection must be performed and proper operating procedures understood before the next step.

- 4) The function test has been performed.
- 5) The machine is used as described in this manual.

5.1 General Information

 Using the Workstation Inspection procedures, the operator can determine if the safe operation of machine is possible from the workstation. The operator shall carry out this process before operating the machine from the workstation. 2) Understanding the hazards of the workstation are the responsibilities of the operator. Avoid these hazards while moving, delivering, or operating the machine.

5.2 Workstation Inspection

Be aware of the following hazards:

- Sudden slopes, holes, or dips in the traveling surface.
- Bumps, ground barriers, or debris on the ground.
- 3) Inclined plane.
- 4) Infirm or unsteady ground surface.
- Overhead barriers and high-voltage power lines.
- 6) Dangerous location
- 7) Supporting surface unable to bear the load of the machine.
- 8) Wind and inclement weather.
- 9) Unauthorized personnel.
- 10) Other possible unsafe conditions.

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Chapter 6 Function Test

/ WARNING

Operation is forbidden unless the following safe operating principles of the machine are understood and performed.

- All dangerous work site conditions are avoided.
- 2) Pre-Operation Inspection has been completed.
- 3) The workstation has been inspected.
- 4) The function test has been performed prior to any operation.

⚠ NOTICE

The function test must be performed and proper operating procedures understood before the next step.

 The machine is used as described in this manual.

6.1 General Information

- The purpose of the Function Test is to identify potential component failure before operating the machine.
- 2) The operator must test all machine functions as outlined in this section.

- Do not use a damaged or malfunctioning machine. Tag out the control boxes and do not use the machine until repairs have been made.
- Only qualified maintenance technicians are permitted to repair the machine as per the regulations of the manufacturer.
- 5) After repairs or maintenance have been performed, the operator must perform out the Pre-Operation inspection and Functional Test again before operating the machine.

6.2 Function Test

- Carry out the function test on a firm and level surface with no barriers or obstructions.
- 2) Ensure the battery pack is connected.

6.3 Tests from the Ground Controls

- Pull out the red emergency stop buttons on the platform controller and the ground controller to the ON position.
- Turn the key switch to the ground controller position.
- Observe the LED display on the platform controller for the proper reading.

6.4 Test the Emergency Stop Switch

- Push the emergency stop switch on the ground control station in to the OFF position. Result: All Functions should be disabled.
- Pull the emergency stop switch out to the ON position.

6.5 Test of Lifting/Lowering Function

⚠ NOTICE

The alarm system will control the buzzer to output the alarms with different frequencies. The lowering alarm will sound 60 times per minute. If the pothole guards fail to deploy and set, the buzzer will sound 180 times per minute. The buzzer will sound 180 times per minute for any overload.

- Position the key switch to the platform controller or the OFF position.
- Push up and hold the platform lift control switch. Result: The platform fails to elevate.
- 3) Position the key switch to the ground control position.
- 4) Push up and hold the platform lift control switch. Result: The platform will lift.
- 5) Push down and hold the platform lift switch. Results: The platform will lower. When the platform is lowering, the alarm shall sound.

6) Push down and hold the platform lift switch again. Result: The platform shall descend to the lowest position. When the platform descends, the alarm will sound.(If equipped)

6.6 Emergency Lowering Function Test

- 1) Push up the platform lift switch to elevate the platform approximately 24 in (60cm).
- Pull out the emergency lowering control button at the right front part of the machine.
 Result: The platform shall descend. The lowering alarm shall not sound.
- Switch the key switch to the platform controller.

6.7 Platform Controller Test

- Push the ground Emergency Stop Switch in to the OFF position. Result: All functions will not operate.
- Pull the Emergency Stop Switch out to the "ON" position. Result: The LED display will light up.

6.8 Horn Test

- Pull the Emergency Stop Switch out to the "ON" position.
- 2) Push the Enable Switch and activate a function.
- Press the horn button. Result: The horn will sound.

6.9 Lift Function and Function Enable Switch Test

- Do not press the enable switch on the control handle.
- Slowly move the control handle forward or backward. Result: All lift functions shall not be operational.
- 3) Press the lift function selector button.
- 4) Press the enable switch on the control handle.
- Slowly move the control handle backward.
 Result: The platform shall elevate and the pothole guards shall be deployed.
- Release the platform control handle. Result:
 The platform will stop elevating.
- Press the enable switch. Slowly move the control handle forward. Result: The platform will lower. When the platform lowers, the lowering alarm will sound.

6.10 Steering Test



Face the end of the machine that steers when testing the steering and driving functions.

- Press the drive function selector switch. The drive function indicator will light.
- 2) Press the enable switch on the control handle.
- 3) Press the rocker switch on top of control handle according to the direction indicated by leftward arrows on the control panel. Result: The machine will turn left.
- 4) Press the rocker switch on top of the control handle according to the direction indicated by rightward arrows on the control panel. Result: The machine will turn right.

6.11 Driving and Braking Function Test

- Press the enable switch on the control handle.
- 2) Slowly push the control handle as per the direction of the forward arrows on the control panel until the machine is moving and return the handle to the center position. Result: The machine shall move forward and then stop.
- 3) Slowly move the control handle as per the direction of the backward arrows on the control panel until the machine is moving and return the handle to the center position. Result: The machine shall move backward and then stop.



The brake must be able to hold the machine on any grade it is able to climb.

6.12 Driving Function Test

 Press the lift function button; the indicator lamp will light up. Press and hold the enable switch to lift the platform to the height called out in the following table. Result: The pothole guards will be deployed.

Table 5 - Pothole Deployment Height When Driving

Model	Height
AS1930	
AS1930E	4.2ft (4.2m)
AS1932	4.3ft (1.3m)
AS1932E	
AS2632	6 Off (1 Om)
AS2632E	6.2ft (1.9m)
AS3246	
AS3246E	C 2# (4 0 m)
AS4046	6.2ft (1.9m)
AS4046E	
SS1230E	6 F6# (2m)
SS1432E	6.56ft (2m)
AS2646	7.544 (0.00m)
AS2646E	7.51ft (2.29m)
SS1932E	7.97ft (2.43m)
AS4650	0.24 (0.52)
AS4650E	8.3ft (2.52m)

- Press the drive function selector button. The indicator light will light up.
- 3) Press the enable switch on the control handle and slowly move the control handle fully forward. Result: The drive speed of the platform will not be greater than 0.5mph (0.8km/h) when the platform is elevated. On models SS1230E/SS1432E/SS1932E, the driving speed of the platform will not be greater than 0.3mph (0.5km/h) when the platform is elevated. If the elevated driving speed of the platform exceeds these limits, immediately tag out the controls and stop operation until repairs are made.

6.13 Operation of Tilt Sensor Test

№ NOTICE

This test is performed with the platform controller from the ground. Do not stand in the platform.

- 1) Completely lower the platform.
- 2) Drive two wheels on the same side of the machine up on a 1.37×7.9in (3.5×20cm) block.
- 3) Lift up the platform to a height listed in the following table. Result: The platform will stop moving and the tilt alarm will sound at a rate of 120 times per minute.

Table 6- Drive Cutout Height When Tilted

Model	Height
AS1930	
AS1930E	5 6ft (1.7m)
AS1932	5.6ft (1.7m)
AS1932E	
SS1230E	6 F6ft (2m)
SS1432E	6.56ft (2m)
AS2632	
AS2632E	
AS3246	6.0# (2.1m)
AS3246E	6.9ft (2.1m)
AS4046	
AS4046E	
SS1932E	
AS2646	8.53ft (2.6m)
AS2646E	
AS4650	9.2ft (2.8m)

Model	Height
AS4650E	9.2ft (2.8m)

- 4) Slowly move the control handle to operate drive forward and then driver reverse. Result: The drive function will be disabled in either direction.
- 5) Lower the platform and drive the machine off of the blocks.

6.14 Pothole Guard Test



When the platform is elevated, the pothole guards will be automatically deployed. The pothole guards initialize another limit switch to enable the continuous drive/steer operation of machine. If the pothole guards fails to be deployed, the alarm will sound and the machine will stop all drive and steer functions.

 Lift the platform. Result: When the platform elevates a given height (as shown in the following table), the pothole guards shall be deployed.

Table 7 - Pothole Deployment Height When Lifting

Height	
4.3ft (1.3m)	
	6.2ft (1.9m)
	6.56ft (2m)
7.51ft (2.29m)	
	7.97ft (2.43m)
8.3ft (2.52m)	

- Press one side of the pothole guard and then other side. Result: The pothole guard will not move.
- Lower the platform. Result: The pothole guard will be returned to the stowed position.
- 4) Place blocks under the pothole guards (1.38in×7.9in [3.5cm×20cm] wood block or a similar material) and elevate the platform. Result: When the platform elevates a given height (as shown in the following table), the alarm will sound. The drive function will be disabled.

. Table 8 - Pothole Guard Not Deployed Alarm Height

Model	Height
AS1932E	4.9ft (1.5m)
AS1932	
SS1230E	6.56ft (2m)
SS1432E	
AS2632	6.9ft (2.1m)
AS2632E	
AS3246	
AS3246E	
AS4046	
AS4046E	6.9ft (2.1m)
SS1932E	8.53ft (2.6m)
AS2646	
AS2646E	
AS4650	9.1ft (2.78)
AS4650E	

5) Lower the platform and remove the blocks.

Chapter 7 Operating Instructions

! WARNING

Operation is forbidden unless the following safe operating principles of the machine are understood and performed.

- 1) The dangerous conditions are avoided.
- 2) The pre-operation inspection is always made.
- 3) The workstation is checked.
- 4) The function test is always made before the use.
- 5) The machine is used for its design purposes.

7.1 General Information

- This machine is an electrically powered mobile elevating work platform, consisting of a work platform on an elevating scissors mechanism. The vibration produced by the running machine causes no hazards to the operators on the work platform. This machine can be used for carrying the workers and their tools to the specified height above the ground and also for reaching the workstation above the machine or equipment.
- 2) Detailed operating instructions for all functions are outlined in this Operation section. It is the operator's responsibility to follow all safety regulations and descriptions in this operation and maintenance manual.
- 3) It is prohibited to use the machine for any

- purpose other than carrying the staff, equipment, tool and material to the overhead workstation.
- 4) Only trained and authorized personnel can operate this machine. Each operator shall perform the pre-operation inspection, function test and workstation inspection before running the machine.

7.2 Emergency Stop

- Push the emergency stop switch on the ground or platform controller to the OFF position to disable all functions.
- The recovery of any operation function must be done by pressing the emergency stop switch.

7.3 Emergency Lowering

Pull the emergency lowering control button outward.

7.4 Operation from the Ground Controls

- 1) Turn the key switch to the ground position.
- Pull the emergency stop switch on the ground and the platform to the ON position.
- 3) Ensure the battery tray is connected before running the machine.

7.5 Platform Positioning

Move the platform lifting and lowering switch according to the mark on the control panel. The driving and turning functions are unavailable from the ground controller.

7.6 Operation from the Platform Controls

- 1) Turn the key switch to the platform control position.
- Pull the emergency stop switch out on both ground controls and the platform controls to the ON position.
- 3) Ensure the battery tray is connected before running the machine

7.7 Platform Positioning

- 1) Press the lift function selector switch.
- 2) Press the enable switch on the control handle.
- The platform will raise when the control lever is moved to the backward, or lower when the control lever is moved to the forward.

7.8 Steering

- 1) Press the drive function selector switch.
- 2) Press the enable key on the control handle.
- Turn the wheels in the desired direction using the rocker switch on the top of control handle.

7.9 Drive

- 1) Press the drive function selector switch.
- 2) Hold the enable switch on the control handle.
- 3) To increase speed, slowly move the control handle away from the centered position. To decrease speed, slowly return the control handle to the center position. To stop, fully return the handle to the center position or release the enable switch.
- Coordinate machine drive direction with the direction arrows on the platform controller and the platform.
- 5) When the platform is elevated, the drive speed of the machine is reduced.
- 6) The status of the battery pack will affect machine performance.
- 7) When the battery level indicator lamp flashes, driving speed and functional speed of machine will be reduced.



7.10 Drive Speed Option

The drive controller can be operated at two different drive speeds. When the drive speed selector switch indicator lights up, slow driving speed mode is enabled. When the driving speed selector switch lamp goes out, the high speed drive mode is enabled. Press the driving speed selector switch to select the desired driving speed.

7.11 Using Platform Controller to Drive the Machine on the Ground

- Keep a safe distance between the operator, machine, and any stationary object.
- Be cautious and aware of the driving direction of machine when using the controller from the ground.
- 3) Identify the battery level with the LED display.

Table 9 - Battery Level as Shown on LED Display

Platform	Battery	
Display	Percentage	Description
. ,	(%)	
	90-100	The battery
	30-100	capacity is full
		Percentage of
_ =	70	remaining
		battery capacity
		Percentage of
	50	remaining
		battery capacity
		Percentage of
	30	remaining
		battery capacity
		The battery
	20	must be
		charged
		The battery
	10	capacity is very
		low



When the battery capacity is very low (≤10%), the machine will change to low speed mode automatically.



7.12 Driving on a Slope

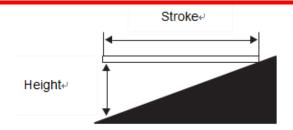
Determine the slope and side slope ratings for the machine and determine the slope grade.

Maximum slope rating,		
stowed position:	250//14° \	
	25%(14°)	
Maximum side slope rating,		
stowed position:	250//14° \	
	25%(14°)	

Note: Slope rating is subject to ground conditions with one person in the platform and adequate traction. Additional platform weight may reduce slope rating.

Measure the slope by using a digital inclinometer or as per the following steps.

- Required tools: Carpenters rule, straight wood block (with length of at least 1m), tape measure and other tools.
- ✓ Place the wood block on the slope, place the carpenters rule on the upper limb of the wood block at the end of down-slope, and lift the end of the wood block until it is horizontal.
- ✓ Keep the wood block in the horizontal state, and measure vertical height from the bottom of the wood block to the ground.
- ✓ Height is divided by the length of wood block (stroke), i.e.,



Stroke=3.6m/11.8ft

lifting height=0.3m/1ft

0.3÷3.6=0.083=8.3%

If the slope exceeds the maximum uphill, downhill or side slope rating, the vehicle must be winched or transported up or down the slope.

7.13 Using the Safety Prop

Elevate the platform a specified height above the ground (for elevation height, refer to the following table).

Model	Height
SS1230E	
SS1432E	
AS1930	7.9ft (2.4m)
AS1930E	7.911 (2.4111)
AS1932	
AS1932E	
SS1932E	9.09ft (2.77m)
AS2632	
AS2632E	10 F# (2 2m)
AS2646	10.5ft (3.2m)
AS2646E	



<u> </u>	
AS3246	
AS3246E	
AS4046	
AS4046E	12.4ft (4m)
AS4650	13.1ft (4m)
AS4650E	

- 2) Lift the safety prop, move it to the center of the scissor cross tube and rotate it upward until it is vertical.
- 3) Lower the platform height until the safety prop completely contacts the shaft tube. Keep the platform away from the movable parts during the lowering process.



Do not carry any load in the platform when the safety prop is being used. No long time (8 hours) to use safety prop in empty state.

7.14 How to Stow the

Guardrail

- .On models SS1230E/SS1432E/SS1932E/ AS1930/AS1930E/AS1932 / AS1932E/ AS2632/AS2632E, the platform guardrail system consists of a folding guardrail on an extended platform and a folding guardrail on the main platform.
- 1) Fully lower the platform and lock it into the extended platform.
- 2) Remove the platform controller.
- 3) Remove the M-shaped fixed seat between

- the guardrails of the main platform and the extended platform from the inside of the platform and place it in the platform.
- Remove the two retaining pins at the front of the extended platform from the inside of the main platform.
- 5) Fold the front guardrail of the extended platform inward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the left and right guardrails of the extended platform from tilting over.
- 6) Install the two retaining pins which were removed back to the guardrail on each side.
- 7) Fold the left guardrail of the extending platform inward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the right guardrails of the extended platform from tilting over.
- Fold the right guardrail of the extending platform inward. Do not place your hands in places where there may be a pinch point.
- 9) Remove the two retaining pins on the upper part of the door.
- 10) Fold the door guardrail from the ladder or the groundinward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the guardrails of the extended platform from tilting over.
- 11) Fold the left guardrail of main platform from the ladder or the groundinward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the right guardrails of the main platform from tilting over.

- 12) Fold the right guardrail of main platform from the ladder or the groundinward. Do not place your hands in places where there may be a pinch point.
- Install the two retaining pins which were removed back to the guardrail on each side.
 - On models, AS2646/AS2646E/AS3246/ AS3246E/AS4046 /AS4046E/AS4650/ AS4650E, the platform guardrail system consists of a folding guardrail on an extended platform and a folding guardrail on the main platform.
- Fully lower the platform and lock it into the extended platform.
- 2) Remove the platform controller.
- 3) Remove the M-shaped fixed seat between the guardrails of the main platform and the extended platform from the inside of the platform and place it in the platform.
- 4) Remove the two retaining pins at the front of the extended platform from the inside of the main platform.
- 5) Fold the front guardrail of the extended platform inward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the left and right guardrails of the extended platform from tilting over.
- 6) Install the two retaining pins which were removed back to the guardrail on each side.
- 7) Fold the left guardrail of the extending platform inward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the right guardrails of

- the extended platform from tilting over.
- 8) Fold the right guardrail of the extending platform inward. Do not place your hands in places where there may be a pinch point.
- Remove the two retaining pins on the upper part of the door.
- 10) Fold the door guardrail from the ladder or the ground inward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the left and right guardrails of the extended platform from tilting over.
- 11) Rotate the semi-revolving door until the right and left guardrails can be folded smoothly, from the ladder or the ground inward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the guardrails of the main platform from tilting over.
- 12) Install the two retaining pins which were removed back to the guardrail on each side.

7.15 How to Erect the Guardrail

To erect the guardrails, reverse the sequence outlined in How to Stow the Guardrail.

7.16 Extending and Retracting the Extending Platform Deck

- 1) Step on the positioning pedal on the extending platform.
- 2) Push the guardrail of the extending platform to extend the platform to the desired position.

№ NOTICE

Do not stand on the extending platform deck while extending it.

7.17 Power Supply Switch

1. DC power switch (If equipped)



Press the DC power switch, power supply of the whole machine will be disconnected.

Pull out the DC power switch and power supply of the whole machine will be connected.

2. Anderson connector (if equipped)





Connect

Disconnect



Disconnect the main power switch when the machine is in transportation/ repaired or not used for a long time. (DC power switch or Anderson connector)

7.18 Error Codes



When an error code is present, the code will flash once per second on the screens of the ECU and PCU.

Table 10 - Error Codes

Display	Description	Response
01	System initialization error	Stop all actions
02	System communication error	Stop all actions
03	No machine code is set during the first use	Stop all actions
04	The set code is invalid	Stop all actions
06	Prompt of successful release of the remote parameter	Display alarm only
07	Secondary lock alarm	Disable lifting and running
08	Prompt of successful release of weight calibration data	Display alarm only
09	Incorrect feature configuration settings	Disallow all actions
12	Chassis lifting or lowering button opening error during start	Stop all chassis controls
18	Pothole protection error	Stop lifting and running
27	Proportional solenoid valve failure	Stop lifting and running
31	Pressure sensor error	Stop lifting and running
32	Angle sensor error	Stop lifting and running
33	1412 light load mode data calibration error	No lifting
35	Calibration data error	Display alarm only
		Speed reduced to walking
36	Low battery alarm	speed after lifting
38	Activated overload function and uncompleted weight calibration error	No lifting
39	The battery level switch detects the low level of the battery.	Display alarm only
40	Alarm of failed ECU and GPS handshake	No lifting or walking
41	Lock vehicle status through platform (only applicable to the ECU with the GPS function)	No lifting
42	Platform left turn button pressing error during start	Display alarm only
43	Platform right turn button pressing error during start	Display alarm only
46	Platform handle enable switch button pressing error during start	Stop platform control



47	"The platform handle is not in the middle position" error during start	The speed is reduced to the speed after lifting
52	Forward coil error	Stop lifting and running
53	Backward coil error	Stop lifting and running
54	Lifting error of lifting coil	Stop lifting and running
55	Lifting error of lowering coil	Stop lifting and running
56	Right turn coil error	Stop lifting and running
57	Left turn coil error	Stop lifting and running
58	Brake coil error (because the brake coil is optional, this function is temporarily shielded)	Stop lifting and running
60	Motor controller error	Stop lifting and running(Triplat only)
61	Electric drive motor controller current sensor error (overheating of running or lifting motor)	Display alarm only
62	Motor controller hardware damage error	Display alarm only
63	Motor controller motor output error	Display alarm only
64	Motor controller SRO error	Display alarm only
65	Motor controller throttle valve error	Display alarm only
66	Motor controller emergency reverse error	Display alarm only
67	Motor controller HPD error	Display alarm only
68	Low voltage alarm	Stop all actions
69	High neutral current (MC is detecting current in the motor, but there shall be no current in this case)	Stop lifting and running
70	The steering input is beyond the range (the improper voltage is in the steering input)	Stop lifting and running
71	Motor controller main contactor error	Stop lifting and running
72	Motor controller overvoltage error	Display alarm only
73	Motor controller heat reduction error	Display alarm only
74	Motor controller motor error	Display alarm only
75	Motor controller pump motor error	Display alarm only
76	Motor controller left drive motor error	Stop lifting and running
77	Motor controller right drive motor error	Triplat prohibits lifting and walking combiacx shows only alarms
78	Pump motor short circuit error	Triplat show only alarms combiacx prohibits lifting and walking
79	Left drive motor short circuit error	Stop lifting and running
80	Alarm of exceeding 80% load	Alarm only
81	Right drive motor short circuit error	Stop lifting and running
82	Left brake coil error	Stop lifting and running
83	Right brake coil error	Stop lifting and running



84	Motor controller short circuit error	Stop lifting and running
85	Brake release switch error	Alarm only
86	Brake release not open error	Alarm only
87	Brake application failure	Alarm only
89	Motor protection open error	Stop lifting and running
90	Alarm of exceeding 90% load	Alarm only
91	1 Short circuit of left drive motor protection Stop lifting and running	
92	Right drive motor protection short circuit	Stop lifting and running
99	9 Alarm of exceeding 99% load Alarm only	
OL	Platform overload alarm	Stop all actions
LL	"The machine tilts over the safety limit" error	Stop lifting and running

Table 11 - Troubleshooting Guide

Display	Description
01	System initialization error: The ECU may have fault, replace the ECU.
02	System communication error: Check connection between the communication line and other cables. If fault still exists, please replace the PCU or the ECU.
03	Invalid option setting error: Set proper options for the machine
04	The selected machine code is not within the application range, make selection again based on the model
06	Prompt of successful release of the parameter: Restart it
07	Determine whether the GPS platform issues a car lock command
08	Prompt of successful release of calibration data: Restart it
09	Whether the function bit is not configured
12	Chassis lifting or lowering button opening error during start: Check the wiring of the toggle switch or check whether the toggle switch is jammed.
18	Pothole protection error: Check whether the pothole protection is activated, and check the pothole protection limit switch. Check the wiring of the switch, lower limit switch and wiring.
27	Check that the proportional valve is wired correctly.
31	Pressure sensor error: Check the sensor wiring and the sensor. Check to confirm that the correct machine option with overload detection is selected.
32	Angle sensor error: Check the sensor wiring and the sensor. Check to confirm that the correct machine option with overload detection is selected.
33	1412 light load mode unsuccessful overload weight function data calibration error: Carry out weight calibration again.
35	Check whether the calibration process is reversed
36	Check whether the vehicle voltage is too low and whether it needs to be charged.
38	Error of unsuccessful overload weight function calibration: Carry out weight calibration again.
39	Too low level of the battery: Check the battery level and fill the electrolyte if liquid level is too low. Check whether the liquid level switch is installed correctly.



Display	Description	
40	GPS reconnection error: Check connection status	
41	Release unlocking instruction through platform (only applicable to the ECU with the GPS function)	
42	Platform left turn button pressing error during start: Ensure that buttons on the handle are not pressed. If not, consider replacing the handle or the PCU.	
43	Platform right turn button pressing error during start: Ensure that buttons on the handle are not pressed. If not, consider replacing the handle or the PCU.	
46	Platform handle enable switch button pressing error during start: Ensure that the enable switch on the handle is not pressed. If not, consider replacing the handle or the PCU.	
47	"The platform handle is not in the middle position" error during start: Confirm that the handle is in the middle position, and check the middle position parameter setting. If normal, consider replacing the handle or the PCU.	
52	Forward coil error: Check the connection of the coil and confirm that it is normal. If normal, check the coil for short circuit or open circuit.	
53	Backward coil error: Check the connection of the coil and confirm that it is normal. If normal, check the coil for short circuit or open circuit.	
54	Lifting error of lifting coil: Check the connection of the coil and confirm that it is normal. If normal, check the coil for short circuit or open circuit.	
55	Lifting error of lowering coil: Check the connection of the coil and confirm that it is normal. If normal, check the coil for short circuit or open circuit.	
56	Right turn coil error: Check the connection of the coil and confirm that it is normal. If normal, check the coil for short circuit or open circuit.	
57	Left turn coil error: Check the connection of the coil and confirm that it is normal. If normal, check the coil for short circuit or open circuit.	
58	Brake coil error: Check the connection of the coil and confirm that it is normal. If normal, check the coil for short circuit or open circuit.	
60	Check the motor controller.	
61	Cool down the machine, and check the wiring. If the wiring is OK, replace the motor controller	
62	Restart the machine, if fault exists, check the root cause; if fault still exists, replace the motor controller	
63	Check the wiring, and then restart it, and replace the motor controller if necessary	
64	Check whether the motor parameter enable delay is too short, and confirm that the parameter is correct	
65	Check the wiring, and ensure that the correct throttle type is selected in the motor controller	
66	Ensure that the emergency reverse check parameter in the motor controller is set to off	
67	The motor enable delay may be too short, and confirm that parameter of other motor controllers is correct	
68	Low voltage error: Check the battery voltage and charge if necessary. Check connection between the battery and the switch, reinforce or clean it. Check whether the voltage of the PCU and the ECU is normal.	
69	MC is detecting current in the motor, but there shall be no current in this case. MC thinks that the brake is turned on	
70	Adjust the ZAPI and/or check the toggle voltage due to loose wiring	
71	Check wiring of main contactor, replace contactor if necessary, or replace motor controller	
72	Check the battery voltage, check if it is charging. If the fault still exists, try to replace the motor controller	
73	Cool down the restart machine or replace the motor controller	
74	Check the wiring of the motor or replace the motor controller	



Display	Description
75	Check the wiring of the pump motor, restart the machine or replace the motor controller
76	Check the wiring of the left drive motor, restart the machine or replace the motor controller
77	Check the wiring of the motor, restart the machine or replace the motor controller
78	Check the wiring of the pump motor, restart the machine or replace the motor controller
79	Check the motor connection and ensure that they are tightened, and check the motor for short circuit
80	Alarm of exceeding 80% load: As the platform is close to the load limit, it is not recommended to increase the load.
81	Check the motor connection and ensure that they are tightened, and check the motor for short circuit
82	Check the connection of the coil terminal and ensure that they are tightened, and check whether the coil is connected properly
83	Check the connection of the coil terminal and ensure that they are tightened, and check whether the coil is connected properly
85	Check that the brake connection is correct
86	Check that the brake connection is correct
87	Check that the brake connection is correct
89	Check motor circuit connection status
90	Alarm of exceeding 90% load: As the platform is close to the load limit, it is not recommended to increase the load.
91	Check if the left drive motor is shorted
92	Check if the right drive motor is shorted
99	Alarm of exceeding 99% load: As the platform has reached the load limit, do not to increase the load.
OL	Platform overload alarm: Remove excessive loads immediately.
LL	"The machine tilts over the safety limit" error: If the machine tilts, try to make it recover horizontal status. If the machine is horizontal, check the wiring of the level sensor or the sensor.

Historical error status

- 1) The controller can display the latest 10 error alarm codes. Press the right turn key on top of handle and hold it for 10 seconds (do not press the enable switch of the handle) to log in the historical error status.
- 2) Press the left turn switch to view the previous error code until reaching the first one. Press the right turn switch, to view the historical error code in the reverse sequence until reaching the latest one. For error codes, please refer to the table above.
- 3) Push the enable switch on the handle to recover the normal operation status.

Chapter 8 Transport and Lifting Instructions

/ WARNING

Obey these instructions.

- When lifting the machine with a crane, ensure the crane has the proper capacity and rigging to handle the weight of the machine.
- Only qualified personnel are allowed to load and unload the machine onto a truck for transport.
- The hauling vehicle must be parked on firm, level ground.
- When loading the machine, be sure to chock the wheels of the hauling vehicle to ensure it won't move.
- Ensure vehicle capacity, load surface, and tie down equipment is adequate for bearing the weight of the machine. Refer to the nameplate on the machine for gross weight.
- Be sure to load the machine on a flat, level surface and chock the wheels before releasing the brake.
- Do not drive the machine when traveling up and down a slope or when driving on a slope exceeding the rated gradeability for the machine. For driving on a slope, refer to Chapter 7 – Operating Instructions. If the loading ramp of the hauling vehicle exceeds the maximum rated travel grade of the

machine, load and unload the machine with a winch as per the instruction for brake releasing operation.

8.1 Releasing the Brake



Failure to secure machine before releasing brakes will result in death or serious injury.

- Make sure machine is on a firm, level surface or secured.
- Chock wheels.
- 3. Release brakes.

Brake Release Operation (For electric drive models)



Before release the brake, the main power supply should be connected, and the emergency stop switch on the chassis and platform must be cut off.

- 1. Chock wheels to prevent machine from rolling.
- Be sure winch line is properly secured to drive chassis tie points and path is clear of all obstructions.



3. Turn the key switch to the right side to release the brake.

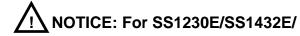


After brake release operation:

- Chock wheels to prevent machine from rolling.
- Turn the key switch to the off position to engage the brake.
- If system voltage is lower than 16.8v, operate the drive motor according to the following procedure.
- ①Unscrew the drive motor end cover;



②Screw the M6*25 bolt into the screw holes in the brake disc, see Figure2;



SS1932E models, screw the M3*20bolt into the screw holes in the brake disc.



③. Turn the bolt clockwise. When the brake clearance is greater than 0.003in (0.08 mm), the brake is released.

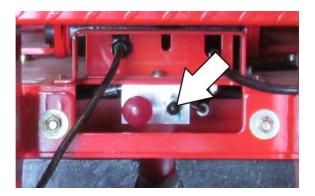


- ④ Repeat the above procedure on opposite drive motor. With both drive motor brake released the machine can be moved manually.
- ⑤After moving the machine, reinstall both drive motors to the original conditions.

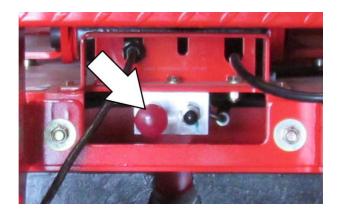


Brake Release Operation (For hydraulic drive models)

- 1) Chock the wheels to prevent the machine from moving.
- 2) Make sure all lifting devices are properly fastened at the designated tie down/lifting points on the chassis, and there are no obstacles in the way.
- 3) Push the black brake release knob to open the brake valve.



Pull the red brake release pump knob.



- (5) Repeat the above procedure on opposite drive motor. With both drive motor brake released the machine can be moved manually.
- 6 After moving the machine, return both drive motors to the original conditions.

8.2 Transport Safety

- Chock the machine wheels when preparing for transport.
- Retract and secure the extending platform.
- Switch the key switch to the OFF position and 3) take out the key before transporting the machine. Disconnect and remove the platform control box. Store in a safe location prior to transporting the machine.
- 4) Ensure the front and rear wheels are securely chocked and the machine is inspected to ensure there are no loose or unsecured parts.
- Secure the machine on the transport surface using the tie down areas on the chassis.



Use at least four chains or tie straps.



- Be sure to use chains or tie straps of sufficient load capacity.
- Secure the folded guard rail (if any) with a tie



strap before transport



Obey the following instructions.

 Only personnel qualified in loading and transporting heavy equipment can rig lifting equipment and lift the machine.

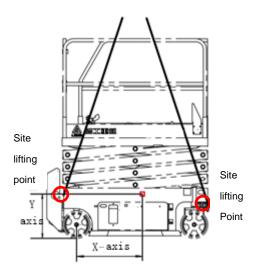


Table 12 - Center of Gravity

Model	X-axis	Y-axis
SS1230E	21.77in (553mm)	20.51in (521mm)
SS1432E	22.29in (566.2mm)	19.88in (504.95mm)
SS1932E	32.88in (835.1mm)	22.8in (579.4mm)
AS1930E	22.2in (564mm)	18.85in (478.8mm)

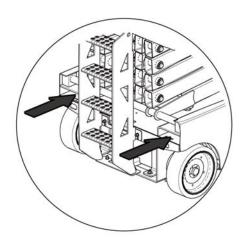
Model	X-axis	Y-axis
AS1932E	21.5in (546.3mm)	19.2in (487.5mm)
AS2632E	33.9in (860.2mm)	25.4in (645.6mm)
AS2646E	33.37in (847.8mm)	23.86in (606.13mm)
AS3246E	33.8in (858.5mm)	25.4in (645mm)
AS4046E	47.32in (1202mm)	26.9in (683.15mm)
AS4650E	42.9in (1090mm)	33.6in (853mm)
AS1930	22.2in (564mm)	18.85in (478.8mm)
AS1932	21.5in (546.3mm)	19.2in (487.5mm)
AS2632	33.9in (860.2mm)	25.4in (645.6mm)
AS2646	33.37in (847.8mm)	23.86in (606.13mm)
AS3246	33.8in (858.5mm)	25.4in (645mm)
AS4046	47.32in (1202mm)	26.9in (683.15mm)
AS4650	42.9in (1090mm)	33.6in (853mm)

 Only personnel qualified in forklift operation qualification are permitted to load and unload the machine with a forklift.

 Ensure that the lifting capacity, loading surface, loading straps, or rope of the crane is sufficient to bear the machine weight. For serial number, please refer to the nameplate.

8.3 Loading the Machine with a Forklift

- Be sure to secure the extending platform, the controller and the chassis tray. Remove all movable components from the machine.
- 2) Completely lower the platform. Keep the platform folded in each transport process.
- Use the forklift pockets on both sides of the ladder.



- Place the forks of the forklift into the forklift pockets.
- 5) Drive the forklift forward to completely insert the fork into the pockets.
- 6) Lift the machine by 6in (15cm) and slightly tilt the fork backward to keep the machine stable.
- Keep the machine level when lowering the fork.



Component damage may result from the machine being lifted from its' side.

8.4 Lifting Precautions

 Completely lower the platform. Be sure to secure the extending platform, the controller and the chassis tray. Remove all movable components from the machine.



Use the center of gravity shown on the lifting decal on the machine.

- The spreader can only be attached to the specified lifting point on the machine shown.
- There are two lifting holes in the front panel of the machine, and there are two lifting holes in the rear end board to use for lifting the machine.
- Adjust the lock tool in such a way that the machine is not damaged and the machine is kept horizontal.

8.5 Parking and Storage

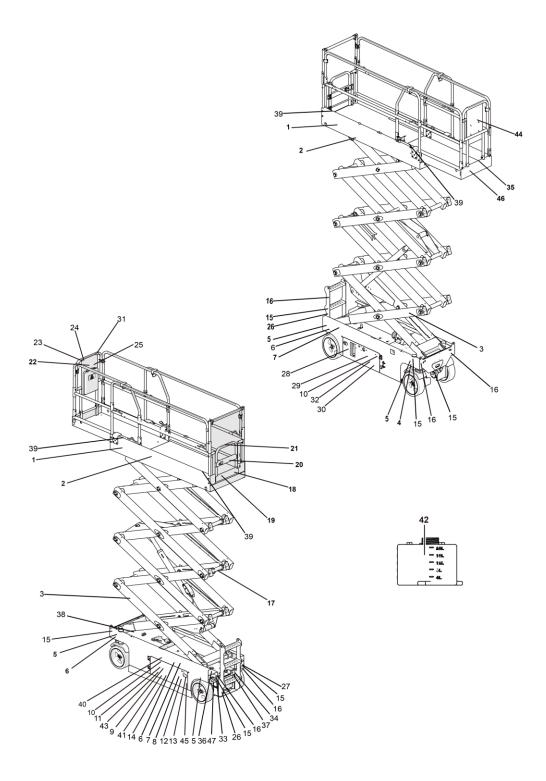
Follow the parking and storage instructions below:

- 1) Drive the machine to a well-protected and well-ventilated area.
- 2) Be sure to completely lower the platform.
- 3) Push the emergency stop switch in to the OFF position.
- 4) If necessary, cover the control panel and the warning signs to protect them against the environment.
- 5) If the machine is parked for a long period, cover the wheels on both sides with a blocking board.
- 6) Turn the power supply selector switch to the OFF position and pull out the key to avoid starting and unauthorized use of equipment.
- 7) If equipped with the optional anti-vandalism package, the working station and ground control box can be covered and locked to prevent vandalism.

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Chapter 9 Decals and Warning Labels

SS1230E Decal Diagram





SS1230E Decal List

Item #	Description	Item #	Description
1	Company Logo	24	Description of file loss
2	Model identification	25	Annual inspection instruction
3	Stay away from machine sign	26	Transportation sign
4	Direction indicator sign	27	Electric shock sign
5	Wheel load capacity sign	28	Indicator for lower control panel
6	Pressure hazard identification	29	Prohibition of sparks sign
7	Electric shock hazard	30	Attention in overhaul
8	Notices indication	31	Suspension position sign
9	Safety rules description sign	32	Attention mark of skin infraction
10	Close the chassis bracket warning sign	33	Emergency drop mark
11	Warning signs for explosive burns	34	Whole machine nameplate
12	Battery charging sign	35	Warning line
13	Warning sign	36	Forklift Fork Position
14	Battery connection indicator identification	37	Battery charging sign
15	Hanger sign	38	Tilting hazard sign
16	Lifting Position	39	Lanyard Anchorage Point
17	Forklift safety arm sign	40	Danger statement
18	Maximum manual force sign	41	Turn off power identification
19	Platform safety warning mark	42	Oil position sign
20	Operation sign	43	Battery for counterweight warning sign
21	Instructions sign	44	Company Logo
22	Reduce platform warning sign	45	Annual Inspection
23	Arrow indication sign	46	Original sign
		47	Brake release safety warning sign



SS1230E Decals

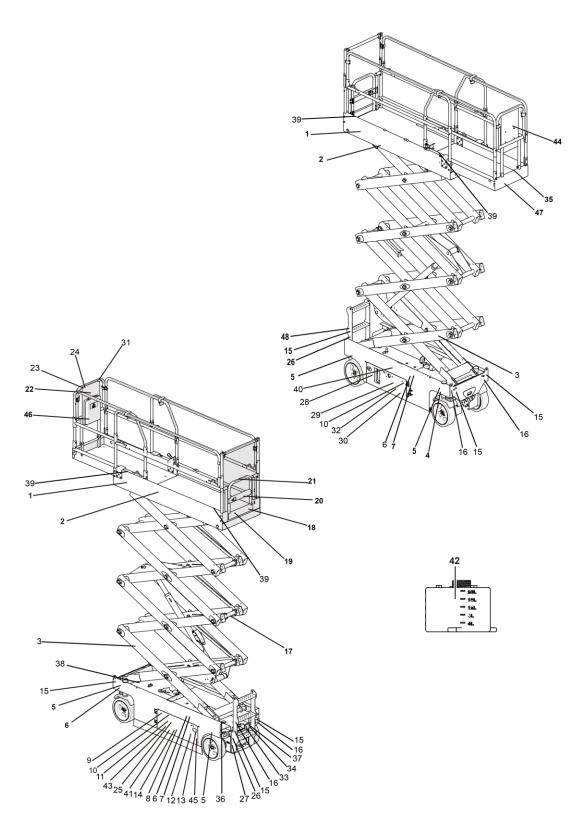
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SS1432E /SS1932E Decal Diagram



SS1432E/SS1932E Decal List

Item #	Description	Item #	Description
1	Company Logo	25	Annual inspection instruction
2	Model identification	26	Transportation sign
3	Stay away from machine sign	27	Electric shock sign
4	Direction indicator sign	28	Indicator for lower control panel
5	Wheel load capacity sign	29	Prohibition of sparks sign
6	Pressure hazard identification	30	Attention in overhaul
7	Electric shock hazard	31	Suspension position sign
8	Notices indication	32	Attention mark of skin infraction
9	Safety rules description sign	33	Emergency lowing mark
10	Close the chassis bracket warning sign	34	Whole machine nameplate
11	Warning signs for explosive burns	35	Warning line
12	Battery charging sign	36	Forklift Fork Position
13	Warning sign	37	Battery charging sign
14	Battery connection indicator identification	38	Tilting hazard sign
15	Hanger sign	39	Lanyard Anchorage Point
16	Lifting Position	40	Danger statement
17	Forklift safety arm sign	41	Turn off power identification
18	Maximum manual force sign	42	Oil position sign
19	Platform safety warning mark	43	Battery for counterweight warning sign
20	Operation sign	44	Company Logo
21	Instructions sign	45	Annual Inspection
22	Reduce platform warning sign	46	Indoor Only
23	Arrow indication sign	47	Original sign
24	Description of file loss	48	Brake release safety warning sign



SS1432E/SS1932E Decals

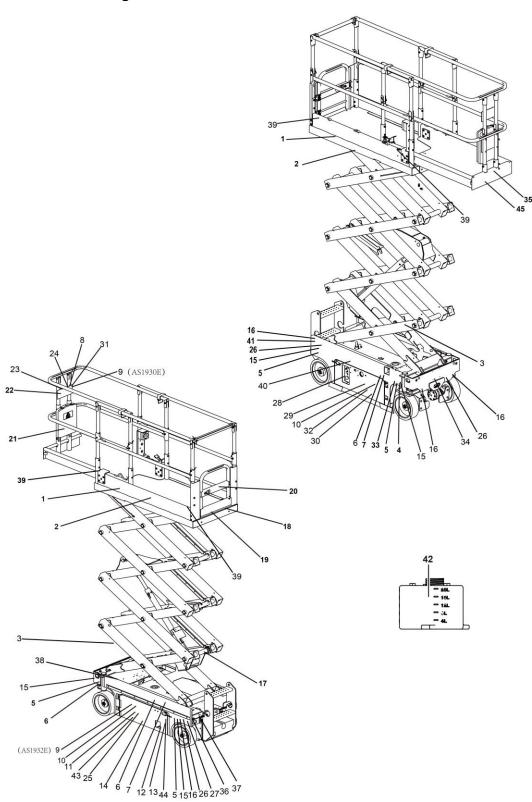
1-2534000335	2-2534001198/1109	3-2534000973	4-2534000102	5-2534001089/1042	6-2534000977
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AS1930E/AS1932E Decal Diagram



AS1930E/AS1932E Decal List

Item #	Description	Item #	Description
1	Company Logo	24	Description of file loss
2	Model identification	25	Annual inspection instruction
3	Stay away from machine sign	26	Transportation sign
4	Direction indicator sign	27	Electric shock sign
5	Wheel load capacity sign	28	Indicator for lower control panel
6	Pressure hazard identification	29	Prohibition of sparks sign
7	Electric shock hazard	30	Attention in overhaul
8	Notices indication	31	Suspension position sign
9	Safety rules description sign	32	Attention mark of skin infraction
10	Close the chassis bracket warning sign	33	Emergency drop mark
11	Warning signs for explosive burns	34	Whole machine nameplate
12	Battery charging sign	35	Warning line
13	Warning sign	36	Forklift Fork Position
14	Battery connection indicator identification	37	Battery charging sign
15	Hanger sign	38	Tilting hazard sign
16	Lifting Position	39	Lanyard Anchorage Point
17	Forklift safety arm sign	40	Danger statement
18	Maximum manual force sign	41	Brake release safety warning sign
19	Platform safety warning mark	42	Oil position sign
20	Operation sign	43	Battery for counterweight warning sign
21	Instructions sign	44	Annual Inspection
22	Reduce platform warning sign	45	Original sign
23	Arrow indication sign		



AS1930E/AS1932E Decals

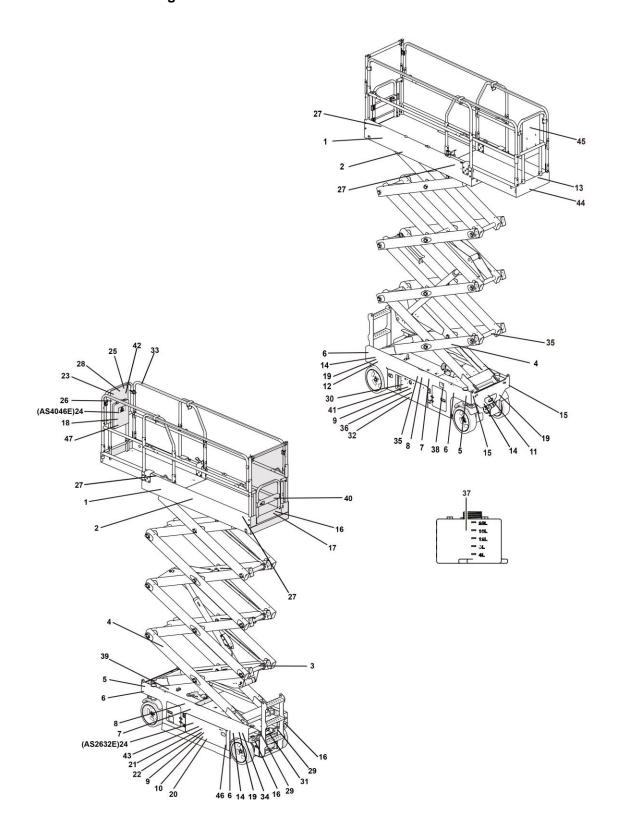
1 9594000010	2 2524001125/0005	3-2534000973	4-2534000102	5 2534001019	6-2534000977
1-2534000218	2-2534001125/0905	5-2034000973	4-2334000102	5-2534001018	0-23340009//
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AS2632E/AS4046E Decal Diagram



AS2632E/AS4046E Decal List

Item #	Description	Item #	Description
	-		-
1	Company Logo	25	Arrow indication sign
2	Model identification	26	Notices indication
3	Forklift safety arm sign	27	Lanyard Anchorage Point
4	Stay away from machine sign	28	Reduce platform warning sign
5	Direction indicator sign	29	Forklift Fork Position
6	Wheel load capacity sign	30	Indicator for lower control panel
7	Electric shock hazard	31	Battery charging sign
8	Pressure hazard identification	32	Attention in overhaul
9	Close the chassis bracket warning	33	Suspension position sign
	sign		
10	Warning signs for explosive burns	34	Electric shock sign
11	Whole machine nameplate	35	Danger description
12	Fasting mark of transportation	36	Attention mark of skin infraction
	parts		
13	Warning line	37	Oil position sign
14	Hanger sign	38	Emergency lowing mark
15	Lifting Position	39	Tilting hazard sign
16	Maximum manual force sign	40	Operation sign
17	Platform safety warning sign	41	Prohibition of sparks sign
18	Instructions sign	42	Description of file loss
19	Transportation sign	43	Battery for counterweight warning
			sign
20	Battery charging sign	44	Original sign
21	Battery connection indicator	45	Company Logo
	identification		
22	Warning sign	46	Annual Inspection
23	Annual inspection instruction	47	Indoor Only
24	Safety rules description sign		

AS2632E/AS4046E Decals

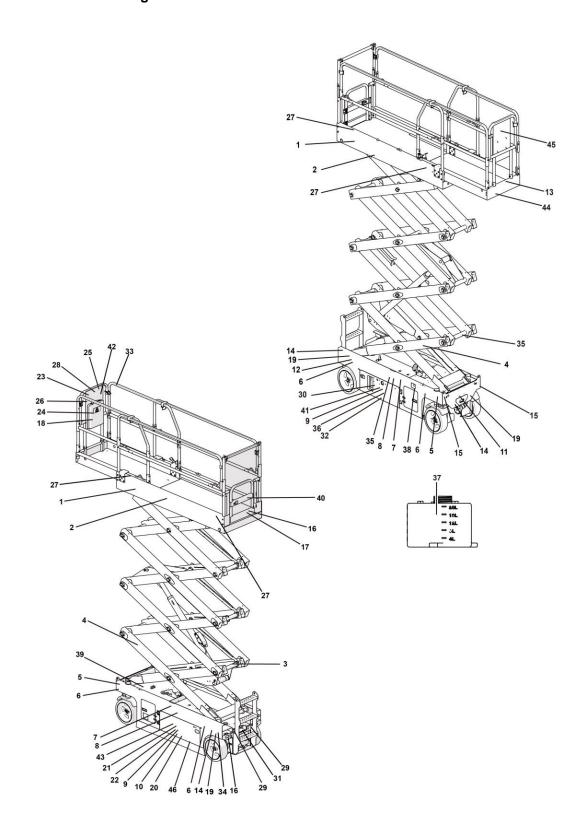
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13-2534000024	14-2831990027	15-2534000828	16-2534001107	17-2534001074/1121	18-2534000986
	9	3	INSTRUCTIONS Maximum allowable ide force or platform: Dist 440 N Maximum allowable wird speed: Onivec (0 mph) Maximum number of occupants: 2	INSTRUCTIONS IN	A VIGENING A VIGE
19-2534000021	20-2534000990	21-2534001005/1116	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS Sitry Output Quarty and self-reg Generality Hard State Control of the Control of th	INSTRUCTIONS Bettery Comercian Copyany New York Copyany Notice Cop	Tiposer hazard Failur to regulace latteries with proper weight latteries will cause down or service in jury. Betteries are used as constrovelyth and are critical to machine skability. 2534091004	INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report.	DANGER THE PROPERTY OF THE PR
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
158400033	NOTICE Parally section Parally Section		There had a see each color of the factor of	THE STATE OF THE S	STOP STOP
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 2534009827	WARNING Copyright Clark Copyright Clar	PatiomCortrols Location 253400975	DANGER BectrocationFire Hazard Data restaus jay val exal outra data. See the see that payed of draiged outracks and view lighter of draiged less solve quartiry See the see that payed outracks and view lighter of draiged less solve quartiry See the see that payed outracks and view lighter outracks an	Value-analysis and a fine but have a sea for the sea of	A WARNING I pocks heard spins on care on the pocks of t



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	Don't Red and the state of the	The state of the s	253400988	If Quato's Manual is missing contact local LGM Cristmuter or LGM Circustries.
43-2534001038	43-2534001117	44-2534001525	45-2534000220	46-1720100001	47-1720100002
DANGER Tool test Since test indicate the pure senting is a continger of the pure senting in the pure senting is a continger of the pure senting is a continue of the pure senting is an order on the pure senting is an order on the senting senting is an order on the senting senting is an order on the pure senting is an order on the pure senting is an order of the pure senting is an order of the pure senting is a continue of the pure senting i	DANGER Cover treat Cover	MADE IN CHINA	LGMG	IMPORTANT Add and CDA region for an arroad of the control of the	INSTRUCTIONS INDOOR USE ONLY



AS2646E/AS3246E Decal Diagram



AS2646E/AS3246E Decal List

Item #	Description	Item #	Description	
1	Company Logo	24	Safety rules description sign	
2	Model identification	25	Arrow indication sign	
3	Forklift safety arm sign	26	Notices indication	
4	Stay away from machine sign	27	Lanyard Anchorage Point	
5	Direction indicator sign	28	Reduce platform warning sign	
6	Wheel load capacity sign	29	Forklift Fork Position	
7	Electric shock hazard	30	Indicator for lower control panel	
8	Pressure hazard identification	31	Battery charging sign	
9	Close the chassis bracket warning sign	32	Attention in overhaul	
10	Warning signs for explosive burns	33	Suspension position sign	
11	Whole machine nameplate	34	Electric shock sign	
12	Fasting mark of transportation	35	Danger description	
	parts			
13	Warning line	36	Attention mark of skin infraction	
14	Hanger sign	37	Oil position sign	
15	Lifting Position	38	Emergency lowing mark	
16	Maximum manual force sign	39	Tilting hazard sign	
17	Platform safety warning sign	40	Operation sign	
18	Instructions sign	41	Prohibition of sparks sign	
19	Transportation sign	42	Description of file loss	
20	Battery charging sign	43	Battery for counterweight warning	
20			sign	
21	Battery connection indicator	44	Original	
	identification	44	Original	
22	Warning sign	45	Company Logo	
23	Annual inspection instruction	46	Annual Inspection	



AS2646E/AS3246E Decals

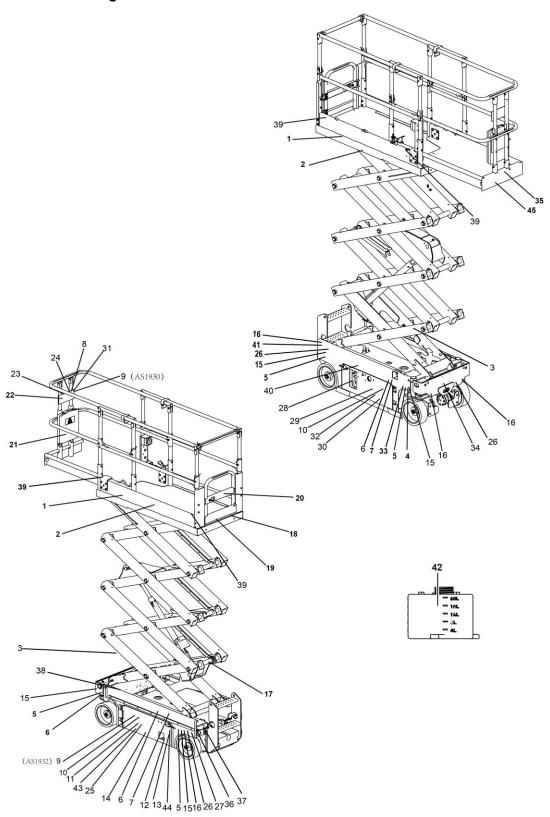
1-2534000219	2-2534001110/0910	3-2534000992	4-2534000973	5-2534000102	6-2534001017/43
<u> </u>	ASSEQUES	Safety Arm	Containing season of containin		Wheel load 2623lbs/1190 kg 111
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534001732
A DANGER The state of the stat	ADANCER Cusing based Debrowses Figure 1	To-over hazard Party different of the control of th	A CANCER Solution to the Sales plane produces and your of case whit a second of the sales plane produces and you are a second of the sales plane produces and you are a second of the sales plane produces and you are a second of the sales plane pl	Broading War Parl of 1	DANCER In the organization and in the organization an
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001072/1073	18-2534000986
	9	3	INSTRUCTIONS Maximum allowable side force on platform Maximum allowable rained speech Maximum allowable rained speech Maximum anchor of accipants 1 (Outdoor) 2 (Instaor)	INSTRUCTIONS RESTRICTIONS RE	A WASHING
19-2534000021	20-2534000990	21-2534001023	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS Starty Orang Careful (Institution) For the Control of Control	INSTRUCTIONS (Rulling Connection Designation Vocation Bulling SV Connection Co	DANGER Tiposer hazed Failur to prepace lateries with Failur to prepace lateries with Failur to prepace lateries with case daily or article little; Batteries with case or carefully Batteries with case or carefully Batteries with case or carefully 25M00004	Annual inspection required. See maintenance manual for inspection report.	DANCER TOTAL CONTROL OF THE CONTROL
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
15400033	NOTICE Paretypeone India Aller	**************************************	Toper litted call to a seem getter. C(i)) I to be the getter. C(ii) I to a seem getter. C(iii) I to a seem gett		STOP STOP No. 1
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 2234000827	WARNING Organization Control of the Control of th	PlatformControls Location 2534000975	DANGER BectrocationFire Hazard Darks status jay at max and a controlled a	Note to engineering by his day loss of and his day relate to the property of the control of the	A WARNING Constituted Constitute Cons



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Ernergency Lowering	DANGER Sport Read Sport Read	The second secon	155,00098	If Quarato's Manual is missing context local LOMG distributor or LOMG inclusives.
43-2534001021	43-2534001021	44-2534001525	45-2534000220	46-1720100001	
DANGER	DANGER	MADE IN CHINA	LEME	IMPORTANT Add and (M. Augher for an arrange of the processing of the processing of the first processing the first	



AS1930/AS1932 Decal Diagram



AS1930/AS1932 Decal List

Item #	Description	Item #	Description
1	Company Logo	24	Description of file loss
2	Model identification	25	Annual inspection instruction
3	Stay away from machine sign	26	Transportation sign
4	Direction indicator sign	27	Electric shock sign
5	Wheel load capacity sign	28	Indicator for lower control panel
6	Pressure hazard identification	29	Prohibition of sparks sign
7	Electric shock hazard	30	Attention in overhaul
8	Notices indication	31	Suspension position sign
9	Safety rules description sign	32	Attention mark of skin infraction
10	Close the chassis bracket warning sign	33	Emergency drop mark
11	Warning signs for explosive burns	34	Whole machine nameplate
12	Battery charging sign	35	Warning line
13	Warning sign	36	Forklift Fork Position
14	Battery connection indicator identification	37	Battery charging sign
15	Hanger sign	38	Tilting hazard sign
16	Lifting Position	39	Lanyard Anchorage Point
17	Forklift safety arm sign	40	Danger statement
18	Maximum manual force sign	41	Brake release safety warning sign
19	Platform safety warning mark	42	Oil position sign
20	Operation sign	43	Battery for counterweight warning sign
21	Instructions sign	44	Annual Inspection
22	Reduce platform warning sign	45	Original
23	Arrow indication sign		

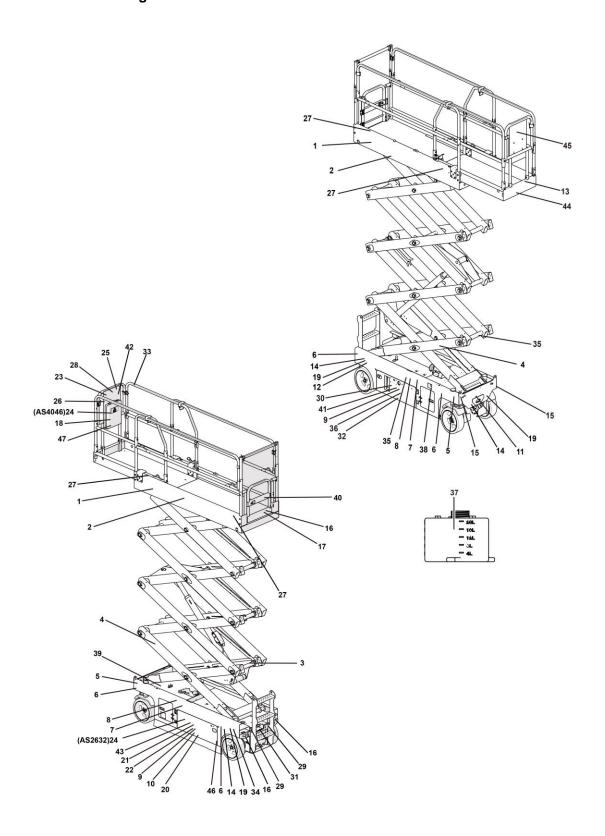
AS1930/AS1932 Decals

1 9594000010	2 252 4001 125 4000	3-2534000072	4 2534000102	E 2534001019	6 2534000077
1-2534000218	2-2534001125/0904	3-2534000973	4-2534000102	5-2534001018	6-2534000977
<u> </u> LGMG	AS1962 AS1960	Outside greated Creation Creat		Wheel load 13321bs/600kg	Onling Name of Control Name of
7-2534000982	8-2534000983	9-2534000984	10-2534000979	11-2534000988	12-2534000990
A DANCER Branch and Annual Control of the Control	NOTICE Productive in class as Warry No. Control of the control o	A DANCER TO STATE OF THE STATE	These had been been been been been been been bee	CAPOSE South and the state of t	INSTITUTONS Response from the second
13-254001004	14-2534001005	15-2831990027	16-2534000828	17-2534000032	18-2534001106/7
in DANGER Tiposer hearest Failure to regisco interioris with proper veigli tatterioris with p	INSTRUCTIONS Bettery Connection Diagram Norried Voltage Interior (of Vol		3	Safety Arm	INSTRUCTIONS Statement allowable and its large organizations Of his (AD R) bloody of Statement (AD R)
19-2534001114/074	20-2534000997	21-2534000986	22-2534000985	23-2534000033	24-2534001015
INSTRUCTIONS IN	Tompris Grate Librarian delicità del Constituti del	A WARNING A WARNING The state of the state	Topon freed Topon	1 D	If Operator's Manual is missing, context local LOMG distributor or LOMG industries.
25-2534001016	26-2534000021	27-2534000976	28-2534000808	29-2534000998	30-2534000974
Annual inspection required. See maintenance manual for inspection report.	TO STATE OF THE PARTY OF THE PA	BechookdonFire Neural BechookdonFire Neural BechookdonFire Neural BechookdonFire Neural BechookdonFire Neural Control was you general of many of the and on a control was you general of the and on any open of the angular of the angular open open open open open open open open	STOP X6	230098	Company of the control of the contro
31-2534000975	32-2534000980	33-2534000981	34-2534001126	35-2534000024	36-2534000101
Platform Controls Location 2534000975	WARNING Hocharksod field State of the Control of t	Enrergency Lovering	Epochry Vol. Petron Street and S		

37-2534000827	38-2534000987	39-2534000017	40-2534000978	41-2534000991	42-2534000100
115V AC 15A 253400827	DANGER Sport Head Any many receiver side all sides for the state of all s	Letzing and a second a second and a second a	Manuscontrol of the part and the second of the part and the part	A DANGER 1 May 1	Max Min
43-2534001037	44-1720100001	45-2534001525			
A DANGER Food hours Food hour	IMPORTANT AND set CSM regists for an amount representation of the first processing of the company of the compa	MADE IN CHINA			



AS2632/AS4046 Decal Diagram



AS2632/AS4046 Decal List

	Item #	Description
Company Logo	25	Arrow indication sign
Model identification	26	Notices indication
Forklift safety arm sign	27	Lanyard Anchorage Point
Stay away from machine sign	28	Reduce platform warning sign
Direction indicator sign	29	Forklift Fork Position
Wheel load capacity sign	30	Indicator for lower control panel
Electric shock hazard	31	Battery charging sign
Pressure hazard identification	32	Attention in overhaul
Close the chassis bracket warning sign	33	Suspension position sign
Warning signs for explosive burns	34	Electric shock sign
Whole machine nameplate	35	Danger description
Fasting mark of transportation parts	36	Attention mark of skin infraction
Warning line	37	Oil position sign
Hanger sign	38	Emergency lowing mark
Lifting Position	39	Tilting hazard sign
Maximum manual force sign	40	Operation sign
Platform safety warning sign	41	Prohibition of sparks sign
Instructions sign	42	Description of file loss
Transportation sign	43	Battery for counterweight warning sign
Battery charging sign	44	Original
Battery connection indicator identification	45	Company Logo
Warning sign	46	Annual Inspection
Annual inspection instruction	47	Indoor Only
Safety rules description sign		
	Forklift safety arm sign Stay away from machine sign Direction indicator sign Wheel load capacity sign Electric shock hazard Pressure hazard identification Close the chassis bracket warning sign Warning signs for explosive burns Whole machine nameplate Fasting mark of transportation parts Warning line Hanger sign Lifting Position Maximum manual force sign Platform safety warning sign Instructions sign Transportation sign Battery charging sign Battery connection indicator identification Warning sign Annual inspection instruction	Forklift safety arm sign 27 Stay away from machine sign 29 Direction indicator sign 29 Wheel load capacity sign 30 Electric shock hazard 31 Pressure hazard identification 32 Close the chassis bracket warning sign 33 sign 33 Warning signs for explosive burns 34 Whole machine nameplate 35 Fasting mark of transportation parts 37 Hanger sign 38 Lifting Position 39 Maximum manual force sign 40 Platform safety warning sign 41 Instructions sign 42 Transportation sign 43 Battery charging sign 44 Battery connection indicator identification 45 Warning sign 46 Annual inspection instruction 47

AS2632/AS4046 Decals

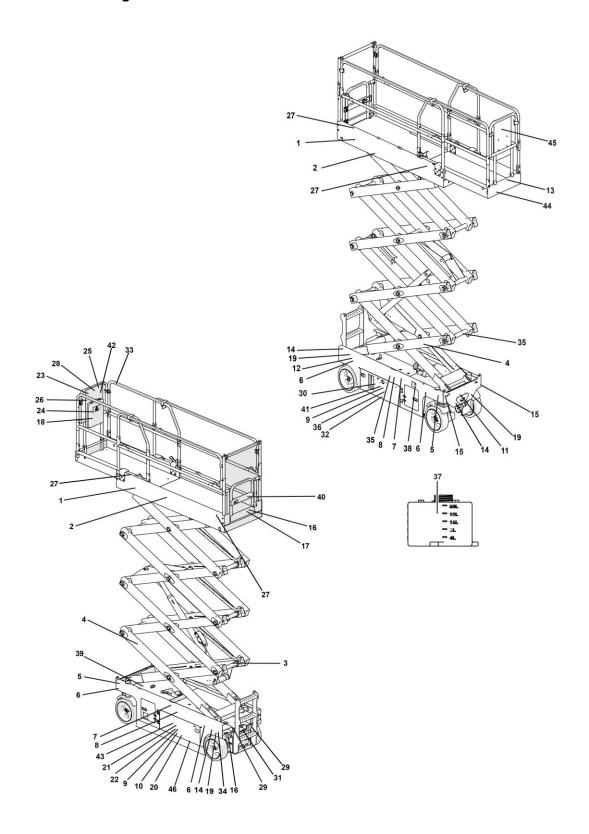
1-2534000219	2-2534000908/1118	3-2534000992	4-2534000973	5-2534000102	6-2534001044/90
<u> </u> LGMG	AS2662 AS4046	Safety Arm	DANGER Company of control of cont		Wheel load
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534000991
A DANCER Therefore the control of t	Cushing Hazed Deformance Secretaring Sec	A DANGER Those hazed gentle sidems of ge	CANGE And CANGE	Elevating Work Radiom We have your form the second of the	A DANGER A DANG
13-2534000024	14-2831990027	15-2534000828	16-2534001107	17-2534001074/1121	18-2534000986
	<u> </u>	3	INSTRUCTIONS Maximum allowable side force on platform: 10 list 440 N Maximum allowable wind speed 10 mise (0 mph) Maximum number of occupants: 2	INSTRUCTIONS IN	A WARNING A WARNING Brandware of the control of t
19-2534000021	20-2534000990	21-2534001005/1116	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS Sinty Output Opening best defined Been entitle of the control of t	INSTRUCTIONS Behavy Connection Degram Provided Togram Provided Togram Vision State of Connection Degram INSTRUCTIONS Behavy Connection Engine Residual Conne	Those hazed. Those hazed. Failur to repicte latteries with proper weight batteries will cause down or strong legs.) Betteries are used as counterweight and are critical to menchine stability. 2534001004	Annual inspection required. See maintenance manual for inspection report.	A DANGER THE PROPERTY OF THE
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
558000000	NOTICE	**************************************	Toper lead gifter me	Note:	
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 2534000027	M WARNING Organization Organ	PlatformCortrols Location 2534000975	DANGER BectrocutionFire Hazard Defror winskip yel east controlled year of empt define each ush year for drength drengt elementation quantify Sections Sections	Figure 1 to 1 t	AWARNING I/CON-Heard College law are servanies parties are consuming a Sales are servanies Sales are servanie



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	DANGER DANGER	The second secon	25,40098	If Quarto's Manual is missing context local LOMG distributor or LOMG inclusives.
43-2534001038	43-2534001117	44-2534001525	45-2534000220	46-1720100001	47-1720100002
DANGER To our hand rises with agent was a second or market with the second of the sec	DANGER	MADE IN CHINA	LGMG	IMPORTANT AND and CDA supplies find an amount of the control of t	INSTRUCTIONS INDOOR USE ONLY



AS2646/AS3246 Decal Diagram



AS2646/AS3246 Decal List

Item #	Description	Item #	Description
1	Company Logo	24	Safety rules description sign
2	Model identification	25	Arrow indication sign
3	Forklift safety arm sign	26	Notices indication
4	Stay away from machine sign	27	Lanyard Anchorage Point
5	Direction indicator sign	28	Reduce platform warning sign
6	Wheel load capacity sign	29	Forklift Fork Position
7	Electric shock hazard	30	Indicator for lower control panel
8	Pressure hazard identification	31	Battery charging sign
9	Close the chassis bracket warning	32	Attention in overhaul
10	sign Warning signs for explosive burns	33	Suspension position sign
11	Whole machine nameplate	34	Electric shock sign
12	Fasting mark of transportation	35	Danger description
	parts		
13	Warning line	36	Attention mark of skin infraction
14	Hanger sign	37	Oil position sign
15	Lifting Position	38	Emergency lowing mark
16	Maximum manual force sign	39	Tilting hazard sign
17	Platform safety warning sign	40	Operation sign
18	Instructions sign	41	Prohibition of sparks sign
19	Transportation sign	42	Description of file loss
20	Battery charging sign	43	Battery for counterweight warning
			sign
21	Battery connection indicator	44	Original
	identification		
22	Warning sign	45	Company Logo
23	Annual inspection instruction	46	Annual Inspection

AS2646/AS3246 Decals

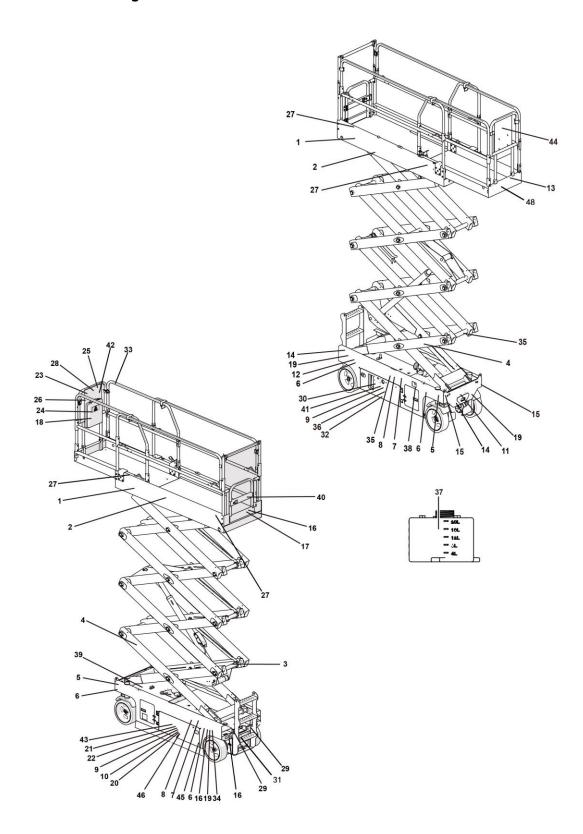
1-2534000219	2-2534000908/909	3-2534000992	4-2534000973	5-2534000102	6-2534001017/43
<u> </u>	AS2343 AS3243	Safety Arm	DANGER Crushing jacabil a control repair and a cont		Wheel load
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534000991
A DANCER Tennament of the second of the sec	Cushing Named Cushing Named Supply Su	ADANGER Tip-our hazer Service services Green the se	CANGE STATE OF THE PROPERTY OF	Exciting Wish Platform Experting Wish Platfor	A DANGER A DANGER The state of the state o
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001072/1073	18-2534000986
	1	3	INSTRUCTIONS Business allowable sale force on platform: Manimum allowable vised general. Manimum allowable vised general. Manimum allowable vised general. Business marshes of occupants. 1 (Outdoor) 2 (Instour)	INSTRUCTIONS IN	A WARNING A WARNING A WARNING For a warning or any or a
19-2534000021	20-2534000990	21-2534001023	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS Interly Copy (Codin) lend coding Once relia: Copy and Codin lend coding And the Copy and Coding lend coding And the Copy and the	INSTRUCTIONS Battery Connection Diagram Variage Battery Core (2) Amount (2) (2) Amount (2) (2) Amount (2) (3) Amount (2) (4) Amount (2) (5) Amount (2) (6) Amount (2) (6) Amount (2) (7) Amount (2) (8) Amount (2) (9) A	Those hazed Those popular data for the sufficient of the sufficien	Annual inspection required. See maintenance manual for inspection report.	DANCER Washington and such as war and a second and a seco
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
1 • • • • • • • • • • • • • • • • • • •	NOTICE Persylvation Person	**************************************	Those floard (CI)) of the control of	1	STOP (1) Ke
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 25A000027	WARNING Opposed Loss Is addressed Opposed Loss	PlatformControls Location 2534000975	DANGER Defor systosis by vid ead post or spore of the systosis by vid ead control of the systosis district of the systosis district of the systosis of the sy	Value is not obtained and by to salely senself and in death or sensel right. Value is not obtained and by to salely senself and in death or sensel right. Value is not obtained and in the control of t	WARNING Incom Near II Incom Near I



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	DANGER Store Flags Store Flags Store Stor	Total State Control Co	255400998	If Quarto's Manual is missing context local LOMG distributor or LOMG inclusives.
43-2534001021	43-2534001021	44-2534001525	45-2534000220	46-1720100001	
DANGER Continued Continue	DANGER	MADE IN CHINA	LEME	IMPORTANT Add and CDA nagain find an arroad of yearship in the an arroad of yearship in the analysis of the analysis of the finds of t	



AS4650/AS4650E Decal Diagram



AS4650/AS4650E Decals

1-2534000218	2-2534001070/2180	3-2534000992	4-2534000973	5-2534000102	6-2534001111
1 2004000210	2 2034001010/2100	3 2034000332	1 2001000010	0 2001000102	0 230 100 1111
<u>å</u> LGMG	AS4650E	Safety Arm	DANGER Crosting page of control and contro		Wheel load
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534001732
A DANCER Methods language Me	ADANGER Outsing bears Debryons Secretary Secre	ADANGER Topor hazel Topor haz	ADVICES The being its base juicing and growing the set of case should allow the control of case should allow the case should be control of case should be cased as a single should be case should be cased as	Evoling York Patient Evoling York Patient Evolung York Patient	A DANGER William control in the c
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001073	18-2534000986
	<u> </u>	3	Maximum allowable side for our printform. 4 Sha 2000 (Culdwar) 50 Sha 4600 (Instance) 10 Sha 4600 (Instance) 10 Sha 1600 (A VISIONING A VISIONING The state of the s
19-2534000021	20-2534000990	21-2534001116	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS General Particular State of the Control of the Contro	INSTRUCTIONS Inter/ Council to Reyer Research Street Street	Those hazed Those hazed Failur to pagical batteries with pager weigh tatheries with pager weigh tatheries with pager weigh tatheries with pager with the pager pager with the pager Batteries are used as contenseight and are critical to medine stability. 25x8000004	INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report.	DANCER DANCER
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
■ ■ • • • • • • • • • • • • • • • • • • •	NOTICE	المرجوب المراجعة	Town World of the second of th		STOP STOP Reco
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 25M000027	WARNING Organization Control of the	PatformCortrols Location 2534000975	DANGER BectroculionFire Hazard Debt ordisable pay de sal controlled. Corned depts or densely a controlled. Corned depts or densely a controlled. Corned depts of paymeted. Corned	Sign and residence of the product of	AWARNING Control Next



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	DANGER Toper Heart Toper Heart Toper data to the second of the second	Code District Code District Code Code	253400096	If Operator's Meruzi is missing contact local LLGM Gebributor or LLGM GircListnes.
43-2534001120	44-2534000220	45-1720100001	46-2534001056	47-2534002178	48-2534001525
Type and hand of the state of t		IMPORTANT AND and CMM region that an entered proportion to particular col size that an entered proportion to particular col size that are sent and proportion of the particular color of	NOTICE Of the power when the machine is required or not used for large period. ON OFF	On 101 Minks	MADE IN CHINA

AS4650/AS4650E Decal List

Item # Description Item # Description				
Description	Item #	Description		
Company Logo	25	Arrow indication sign		
Model identification	26	Notices indication		
Forklift safety arm sign	27	Lanyard Anchorage Point		
Stay away from machine sign	28	Reduce platform warning sign		
Direction indicator sign	29	Forklift Fork Position		
Wheel load capacity sign	30	Indicator for lower control panel		
Electric shock hazard	31	Battery charging sign		
Pressure hazard identification	32	Attention in overhaul		
Close the chassis bracket warning	33	Suspension position sign		
Warning signs for explosive burns	34	Electric shock sign		
Whole machine nameplate	35	Danger description		
Fasting mark of transportation	36	Attention mark of skin infraction		
parts				
Warning line	37	Oil position sign		
Hanger sign	38	Emergency lowing mark		
Lifting Position	39	Tilting hazard sign		
Maximum manual force sign	40	Operation sign		
Platform safety warning sign	41	Prohibition of sparks sign		
Instructions sign	42	Description of file loss		
Transportation sign	43	Battery for counterweight warning		
		sign		
Battery charging sign	44	Company Logo		
Battery connection indicator	45	Annual Inspection		
identification				
Warning sign	46	Turn off the power sign		
A	47	Warning signs for switch		
Annual inspection instruction	47	Warning signs for switch		
	Model identification Forklift safety arm sign Stay away from machine sign Direction indicator sign Wheel load capacity sign Electric shock hazard Pressure hazard identification Close the chassis bracket warning sign Warning signs for explosive burns Whole machine nameplate Fasting mark of transportation parts Warning line Hanger sign Lifting Position Maximum manual force sign Platform safety warning sign Instructions sign Transportation sign Battery charging sign Battery connection indicator identification	Company Logo Model identification Forklift safety arm sign Stay away from machine sign Direction indicator sign Wheel load capacity sign Electric shock hazard Pressure hazard identification Close the chassis bracket warning sign Warning signs for explosive burns Whole machine nameplate Fasting mark of transportation parts Warning line Hanger sign Maximum manual force sign Platform safety warning sign 40 Platform safety warning sign 41 Instructions sign 43 Battery charging sign 44 Battery connection indicator identification 26 27 Stay away from sign 29 29 29 29 20 21 22 23 30 Electric shock hazard 31 32 32 Close the chassis bracket warning 33 34 Warning sign 34 45 Battery charging sign 44 Battery connection indicator identification		

Chapter 10 Specifications

Table 13 - Platform Load Capacity

Model		SS1	432E	
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Recommend load				
capacity of	indoor	265lbs	outdoor	-
extension deck				
Model		SS1	1932E	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	510lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-
Model	AS2632E			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-
Model		AS4	1046E	
Maximum	indeer	0	outdee:	
occupant capacity	indoor	2	outdoor	
Maximum working	indoor	705lbs	outdoor	
load of platform	indoor	7 00103	Juliuooi	_
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-

Table 14 - Platform Load Capacity

Model		SS1	230E	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	530lbs	outdoor	530lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model		AS1	1932E	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	510lbs	outdoor	510lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model		AS2	2646E	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	990lbs	outdoor	990lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model	AS3246E			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs



Table 15 - Platform Load Capacity

Model	AS1930E			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	1
Model		AS	1930	
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-
Model		AS	2632	
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	1
Model	AS4046			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	705lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-

Table 16- Platform Load Capacity

			4000	
Model		AS	1932	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	510lbs	outdoor	510lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model		AS	2646	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	990lbs	outdoor	990lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model		AS	3246	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model		AS	4650	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model	AS4650E			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs

Table 17-SS1230E Operating Specifications

(Indoor Outdoor)

Item			Parameter
Maximum working height		18.4ft (5.6m)	
Maxim	um he	ight of platform	12ft (3.6m)
Exten	iding si	ze of platform	2ft (0.6m)
Maximum		able working angle ward)	3°
Maximum	allowa	able working angle kward)	3°
Maximum		able working angle eward)	1.5°
Max Tra	veling	speed (Stowed)	2mph (3.2Km/h)
Max Tra	veling	speed (Elevated)	0.3mph (0.5Km/h)
Lifting	g/lower	ing speed (S)	25±2/18±2
Mini	mum tı	urning radius	4.9ft (1.5m)
	Grad	eability	25%
Overall le	nath	With ladder	5ft (1.53m)
Overallie	rigui	Without ladder	4.4ft (1.35m)
Tire	iza (di	ameter×width)	9.1in×3.1in
1116 3	ize (uic	ameter x widtin)	(230mm×80mm)
	Overa	all width	2.5ft (0.76m)
Dimension of working platform (LxW)		4.4ft×2.3ft (1.35m×0.7m)	
Wheelbase (front/rear)		44.1in(1120mm)	
Ground		ce (stowed/lifting ition)	1.97in/0.63in (50mm/16mm)
Overall h	eiaht	Rails Folding	5.4ft (1.65m)
o voi aii ii	o.g	Rails un-folding	6.8ft (2.06m)
	Overa	II weight	1940lbs (880Kg)
Dattem	Οι	utput Voltage(V)	12
Battery	(Capacity (Ah)	115
	Nom	. AC Input Voltage	100-240VAC
Charger		cimum DC Output Current (A)	15
	Nominal DC Output Voltage (V)		24
Groun	Ground environment noise radiation		< 70dBA
Platform environment noise radiation		< 70dBA	
S	ystem	1884psi (13MPa)	
Tire	contac	ct pressure	162psi (1116.71KPa)
G	round	pressure	223.7psf (10.71KPa)

Tire specification			
Drive wheel load-6km/h (kg/lbs) 655/1444			
Maximum static load (kg/lbs)	835/1841		

Table 16 - SS1432E Operating Specifications
(In door)

	lt	Parameter		
Maxi	Maximum working height		20.7ft (6.3m)	
Maxim	um he	ight of platform	14.1ft (4.3m)	
Exten	iding s	ze of platform	2ft (0.6m)	
Maximum		able working angle ward)	3°	
Maximum	allowa	able working angle kward)	3°	
Maximum	allowa	able working angle eward)	1.5°	
	ing spe	eed of machine I position)	2mph (3.2Km/h)	
Traveling	speed	of machine (lifting sition)	0.3mph (0.5Km/h)	
Lifting	g/lower	ing speed (S)	25±2/20±2	
Mini	mum tı	urning radius	4.9ft (1.5m)	
	Grad	eability	25%	
Overall le	nath	With ladder	5ft (1.53m)	
Overallile	rigiri	Without ladder	4.4ft (1.35m)	
	Overa	all width	2.66ft (0.81m)	
Tire s	Tire size (diameter×width)		9.1in×3.1in (230mm×80mm)	
Dimens	Dimension of working platform (LxW)		4.4ft×2.3ft (1.35m×0.7m)	
Who	Wheelbase (front/rear)		44.1in(1120mm)	
Ground o		ce (stowed/lifting iition)	1.97in/0.63in (50mm/16mm)	
Overall h	oiaht	Rails Folding	5.77ft (1.76m)	
Overall II	eigiii	Rails un-folding	7.1ft (2.15m)	
	Overa	ll weight	2172lbs (985Kg)	
Dottom/	Oı	utput Voltage(V)	12	
Battery		Capacity (Ah)	150	
	Nomi Volta	ge	100-240VAC	
Charger		num DC Output ent (A)	15	
	Nominal DC Output Voltage (V)		24	
	rad	ronment noise iation	< 70dBA	
Platfoi		ironment noise iation	< 70dBA	

System pressure	2174psi (15MPa)	
Tire contact pressure	213.4psi (1471.5KPa)	
Ground pressure	228.5psf (10.94KPa)	
Tire spe	ecification	
Drive wheel load-6km/h	655/1444	
(kg/lbs)	055/1444	
Maximum static load	835/1841	
(kg/lbs)	000/1041	

Table 19 - SS1932E Operating Specifications

(In door)

Item			Parameter
Maxi	mum w	orking height	24.6ft (7.5m)
Maxim	ium hei	ght of platform	18ft (5.5m)
Exter	nding si	ze of platform	2ft (0.6m)
Maximum		ble working angle ward)	3°
Maximum		ble working angle (ward)	3°
Maximum		ble working angle ward)	1.5°
		speed (Stowed)	2 mph (3.2Km/h)
Max Tra	veling	speed (Elevated)	0.3mph (0.5Km/h)
Lifting	g/lower	ing speed (S)	32±2/27±2
Mini	mum tı	urning radius	4.9ft (1.5m)
	Grade	eability	25%
Overall le	nath	With ladder	5.02ft (1.53m)
Overallile	rigui	Without ladder	4.4ft (1.35m)
Overall width		2.66ft (0.81m)	
Tire size (diameter×width)		9.1in×3.1in (230mm×80mm)	
Dimension of working platform (L×W)		4.4ft×2.3ft (1.35m×0.7m)	
Wh	eelbase	e (front/rear)	44.1in(1120mm)
Ground		ce (stowed/lifting ition)	1.97in/0.63in (50mm/16mm)
Overell b	ا المالية	Rails Folding	6.1ft (1.86m)
Overall h	eignt	Rails un-folding	7.46ft (2.27m)
Overall weight		2866lbs (1300Kg)	
Pottony	Output Voltage(V)		12
Battery		Capacity (Ah)	150
Chargor	Nomi Volta		100-240VAC
Charger	Maximum DC Output Current (A)		15

<u> </u>				
Nominal DC Voltage (V)	Output	24		
Ground environment no radiation	< 70dBA			
Platform environment no radiation	< 70dBA			
System pressure	i (15MPa)			
Tire contact pressure	211	psi(1454.66KPa)		
Ground pressure	28	1.1psf(13.46Kpa)		
Tire specification				
Drive wheel load-6km/h (kg	655/1444			
Maximum static load (kg/l	835/1841			

Table 20-AS1930E Operating Specifications

(Indoor)

(indoor)				
Item			Parameter	
Maximum working height			25.6ft (7.8m)	
Maximu	ım hei	ght of platform	19ft (5.8m)	
Extend	ling siz	ze of platform	3ft (0.9m)	
Maximum a		ble working angle vard)	3°	
Maximum a		ble working angle ward)	3°	
Maximum a		ble working angle ward)	1.5°	
Max Trav	eling:	speed (Stowed)	2.2mph (3.5Km/h)	
Max Trave	eling s	peed (Elevated)	0.5mph (0.8Km/h)	
Lifting/	/loweri	ng speed (S)	16±2/28±3	
Minimum t	urning	radius (exterior)	5.6ft (1.72m)	
	Grade	eability	25%	
0 "		With ladder	6.1ft (1.86m)	
Overall length		Without ladder	5.51ft (1.68m)	
Overall width		2.5ft (0.76m)		
Tire size (diameter×width)		12.7in×4in 323mm×100mm		
Dimensio		vorking platform kW)	5.3ft×2.4ft (1.63m×0.74m)	
Whee	elbase	(front/rear)	53in (1350mm)	
Ground clearance (stowed/lifting position)			3.15in/0.79in (80mm/20mm)	
Overell be	: a.la.4	Rails Folding	6ft (1.84m)	
Overall he	ignt	Rails un-folding	7ft (2.14m)	
Overall wei	ght		3549lbs (1610Kg)	
Pottoni	Ou	tput Voltage(V)	6	
Battery	(Capacity (Ah)	225	

	Nominal AC Input Voltage		100-240VAC
Charger	Maximum DC Output Current (A)		30
	Nominal DC Output Voltage (V)		24
Ground environment noise radiation		< 70dBA	
Platform environment noise radiation			< 70dBA
System pressure		30	046psi (21MPa)
Tire contact pressure		1	56psi (1074.83 KPa)
Ground pressure		28	83.8psf (13.5 9KPa)
Tire specification			า
Drive wheel load-6km/h (kg/lbs)			955/2105
Maximum static load (kg/lbs)			1345/2965

Table 21-AS1932E Operating Specifications

(Indoor Outdoor)

ltem		Parameter
Maximum working height		25.6ft (7.8m)
Maximum hei	ght of platform	19ft (5.8m)
Extending si	ze of platform	3ft (0.9m)
	ble working angle ward)	3°
	ble working angle (ward)	3°
	ble working angle ward)	1.5°
Max Traveling	speed (Stowed)	2.2mph (3.5Km/h)
Max Traveling s	speed (Elevated)	0.5mph (0.8Km/h)
Lifting/lower	ing speed (S)	16±2/28±3
Minimum turning	g radius (exterior)	5.74ft (1.75m)
Gradeability		25%
With ladder		6.1ft (1.86m)
Overall length	Without ladder	5.51ft (1.68m)
Overa	ll width	2.7ft (0.81m)
Tire size (diameterxwidth)		12.7in×4in 323mm×100mm
Dimension of working platform (LxW)		5.3ft×2.4ft (1.63m×0.74m)
Wheelbase (front/rear)		53in (1350mm)
Ground clearance (stowed/lifting position)		3.15in/0.79in (80mm/20mm)
Overall beight	Rails Folding	6ft (1.84m)
Overall height	Rails un-folding	7ft (2.14m)

Overall weight			3571lbs (1620Kg)	
Potton	Output Voltage(V)		6	
Battery	Capacity (Ah)		225	
	Nominal AC Input Voltage		100-240VAC	
Charger	Maximum DC Output Current (A)	t	30	
	Nominal DC Output Voltage (V)		24	
Ground environment noise radiation			< 70dBA	
Platform environment noise radiation			< 70dBA	
Sy	stem pressure	3	3046psi (21MPa)	
Tire	contact pressure	1	156psi (1074.83 KPa)	
Ground pressure		2	83.8psf (13.5 9KPa)	
Tire specification		tior	<u> </u>	
Drive wheel load-6km/h (kg/lbs)			955/2105	
Maximum	static load (kg/lbs)		1345/2965	

Table 22 - AS2632E Operating Specifications

(In door)

(III door)			
Item			
vorking height	32.8ft (10m)		
ight of platform	26.2ft (8m)		
ize of platform	3ft (0.9m)		
	3°		
	3°		
	1.5°		
speed (Stowed)	2.2mph (3.5Km/h)		
speed (Elevated)	0.5mph (0.8Km/h)		
ring speed (S)	31±2/40±2		
urning radius	7ft (2.15m)		
eability	25%		
With ladder	7.9ft (2.4m)		
Without ladder	7.4ft (2.25m)		
Overall width			
Tire size (diameterxwidth)			
Dimension of working platform (LxW)			
e (front/rear)	73in(1850mm)		
	working height ight of platform ize of platform able working angle ward) able working angle kward) able working angle eward) speed (Stowed) speed (Stowed) speed (Elevated) ring speed (S) urning radius eability With ladder Without ladder all width ameter×width) working platform		

Ground clearance (stowed/lifting position)		3.94in/0.98in (100mm/25mm)			
Rails Folding		6.4ft (1.95m)			
Overall h	eignt	Rails un-foldir	g	7.6ft (2.32m)	
Overall we	eight			4718lbs (2140Kg)	
Pottory	Ou	tput Voltage(V)		6	
Battery	(Capacity (Ah)		225	
	Nomii Volta		ut	100-240VAC	
Charger	Maxin Curre	num DC Outp nt (A)	ut	30	
	Nominal DC Output Voltage (V)		24		
Ground environment noise radiation		< 70dBA			
Platfo		ronment noise ation		< 70dBA	
Sy	stem p	ressure	3	046psi (21MPa)	
Tire	contact	pressure	1:	26.3psi (871.10KPa)	
Ground pressure		2	64.4psf (12.66KPa)		
Tire specification			1		
Drive wheel load-6km/h (kg/lbs)			1395/3075		
Maximum	static l	oad (kg/lbs)		1630/3594	

Table 23 - AS2646E Operating Specifications (Indoor Outdoor)

It	Parameter	
Maximum w	32.8ft (10m)	
Maximum he	ight of platform	26.2ft (8m)
Extending s	ize of platform	3ft (0.9m)
	able working angle ward)	3°
	able working angle kward)	3°
Maximum allowable working angle (sideward)		1.5°
Max. Traveling	speed (Stowed)	2.2mph (3.5Km/h)
Max. Traveling speed (Elevated)		0.5mph (0.8Km/h)
Lifting/lowering speed (S)		35±4/40±4
Minimum to	urning radius	7.5ft (2.3m)
Grad	eability	25%
Overall length	With ladder	8ft (2.42m)
Overall length	Without ladder	7.4ft (2.25m)
Overall width		3.9ft (1.18m)
Tire size (diameter×width)		15in×5.1in 380mm×130mm
	working platform ×W)	7.4ft×3.7ft (2.26m×1.12m)

Wheelbase (front/rear)			73in(1850mm)	
Ground clearance (stowed/lifting position)		3.94in/0.79in (100mm/20mm)		
Our and I h	a : aıla 4	Rails Folding		5.7ft (1.73m)
Overall h	eigni	Rails un-folding	g	7.5ft (2.30m)
Overall we	eight			5357lbs (2430Kg)
Battery	Ou	tput Voltage(V)		6
ballery	(Capacity (Ah)		240
	No	minal AC Input Voltage		100-240VAC
Charger	Max	imum DC Output Current (A)	t	30
	Nor	ninal DC Output Voltage (V)		24
Ground environment noise radiation			< 70dBA	
Platfor		ronment noise ation		< 70dBA
Sy	stem p	ressure	3	046psi (21MPa)
Tire contact pressure			177.76psi (1225.62KPa)	
Ground pressure		2	22.85psf (10.67KPa)	
Tire specificatio		tior	١	
Drive wheel load-6km/h (kg/lbs)			1395/3075	
Maximum	static l	oad (kg/lbs)		1630/3594

Table 24-AS3246E Operating Specifications (Indoor Outdoor)

Item		Parameter
Maximum wo	rking height	39.4ft (12m)
Maximum heig	ht of platform	32.8ft (10m)
Extending size	e of platform	3ft (0.9m)
Maximum allowab (forwa		3°
Maximum allowab (backw		3°
Maximum allowable working angle (sideward)		1.5°
Max. Traveling speed (Stowed)		2.2mph(3.5Km/h)
Max. Traveling speed (Elevated)		0.5mph (0.8Km/h)
Lifting/lowering speed (S)		58±4/48±4
Minimum turi	ning radius	7.5ft (2.3m)
Gradea	ability	25%
Overall length	With ladder	8ft (2.42m)
Overall length	Without ladder	7.4ft (2.25m)
Overall width		3.9ft (1.18m)
Tire size (diameterxwidth)		15in×5.1in 380mm×130mm

Dimons	.:	ulda a a latta usa	7.440.74
Dimension of working platform (LxW)		7.4ft×3.7ft (2.26m×1.12m)	
\ /		,	
		(front/rear)	73in (1850mm)
Ground		e (stowed/lifting	3.94in/0.79in
	positi	on)	(100mm/20mm)
Overall I	naiaht	Rails Folding	6.1ft (1.86m)
Overall	leigitt	Rails un-folding	7.97ft (2.43m)
	Overall	weight	6614lbs (3000Kg)
D. "	Out	out Voltage(V)	6
Battery	C	apacity (Ah)	240
	Non	ninal AC Input Voltage	100-240VAC
Charger	Maximum DC Output Current (A)		30
		inal DC Output /oltage (V)	24
Ground environment noise		< 70dBA	
Platform environment noise radiation		< 70dBA	
;	System p	ressure	3046psi 21(MPa)
Tire Contact Pressure		163.3psi 1225.25 kPa	
Ground pressure		247.5psf 11.85KPa	
Tire specification			
Drive wheel load-6km/h (kg/lbs)		1395/3075	
Maximu	ım static	load (kg/lbs)	1630/3594

Table 25 - AS4046E Operating Specifications (In door)

Item		Parameter
Maximum w	Maximum working height	
Maximum he	ight of platform	39.4ft (12m)
Extending size of	f platform	3ft (0.9m)
(for	able working angle ward)	3°
	able working angle kward)	3°
Maximum allowable working angle (sideward)		1.5°
Max. Traveling speed (Stowed)		2.2mph (3.5Km/h)
Max. Traveling speed (Elevated)		0.5mph (0.8Km/h)
Lifting/lower	ring speed (S)	58±4/60±4
Minimum turnin	g radius (exterior)	7.5ft (2.3m)
Gradeability		25%
Overall languith	With ladder	8.1ft (2.47m)
Overall length	Without ladder	7.4ft (2.25m)
Overall width		3.9ft(1.18m)

Tire size (diameter×width)			15in×5.1in 380mm×130mm		
Dimens		vorking platform (W)		7.4ft×3.7ft (2.26m×1.12m)	
Wheelbas	e (front	/rear)		73in(1850mm)	
_		clearance ing position)		3.94in/0.79in (100mm/20mm)	
		Rails Folding		6.5ft (1.99m)	
Overall h	eight	Rails un-foldin	g	8.4ft (2.56m)	
	Overal	l weight		6967lbs (3160Kg)	
Battery	Outpu	ut Voltage(V)		12	
Dallery	Capa	city (Ah)		150	
	Nominal AC Input Voltage		100-240VAC		
Charger		Maximum DC Output Current (A)		30	
		Nominal DC Output Voltage (V)		24	
Ground environment noise radiation			< 70dBA		
Platfoi		ronment noise ation		< 70dBA	
Sy	stem p	ressure	30	046psi (21MPa)	
Time			19	190.98psi	
Tire contact pressure		(1	(1316.78KPa)		
Ground pressure		28	80.07psf (13.41KPa)		
Tire specification		tior	າ		
Drive wheel load-6km/h (kg/lbs)			1395/3075		
Maximum static load (kg/lbs)			1630/3594		

Table 26 – AS4650E Operating Specifications (Indoor/Outdoor)

Item	Parameter	
Maximum working	In door	51.8ft (15.8m)
height	Out door	32.8ft (10m)
Maximum height of	In door	45.3ft (13.8m)
platform	Out door	26.2ft (8m)
Extending size of p	olatform	3ft (0.9m)
Maximum allowable working angle (forward/ backward)		3°
Maximum allowable working angle (sideward)		1.5°
Max. Traveling speed (Stowed)		2.2mph (3.5Km/h)
Max. Traveling speed (Elevated)		0.5mph (0.8Km/h)
Lifting/lowering speed (S)		80±4/65±4
Minimum turning radius (exterior)		9.35ft (2.85m)
Gradeabilit	y	25%



0		With ladder		9.2ft (2.80m)
Overall length		Without ladder		8.7ft (2.65m)
	Overa	all width		4.3ft(1.3m)
Tire s	size (dia	ameter×width)		15in×5.1in 380mm×130mm
Dimens		working platform ×W)		8.66ft×3.7ft (2.64m×1.12m)
Wh	eelbase	e (front/rear)		87.4in(2220mm)
_		clearance ing position)		4.1in/0.79in (105mm/20mm)
Overall h	oiaht	Rails Folding		6.4ft (1.94m)
Overall II	leigni	Rails un-foldin	g	9ft (2.74m)
	Overa	II weight		7716lbs (3500Kg)
Battery	Outp	ut Voltage(V)		12
Dattery	Capa	city (Ah)		150
	_	Nominal AC Input Voltage		100-240VAC
Charger	Maxir Curre	num DC Outp ent (A)	ut	30
	Nominal DC Output Voltage (V)		24	
Grour		ronment noise iation		< 70dBA
Platfo		ironment noise iation		< 70dBA
Sy	stem p	ressure	3	046psi (21MPa)
Tire	contac	t nressure	226.7psi	
1110	Tire contact pressure		(1563.13KPa)	
Ground pressure		2	31.4psf (11.08KPa)	
Tire specificat		tior	n	
Drive wheel load-6km/h (kg/lbs)		1395/3075		
Maximum static load (kg/lbs)			1630/3594	

Table 27 – AS1930 Operating Specifications (Indoor)

Item	Parameter
Maximum working height	25.6ft (7.8m)
Maximum height of platform	19ft (5.8m)
Extending size of platform	3ft (0.9m)
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Max Traveling speed (Stowed)	2 mph (3.2Km/h)
Max Traveling speed (Elevated)	0.5mph (0.8Km/h)

Lifting/lowering speed (S)					16±2/28±3
Minimum turning radius				5.4ft (1.65m)	
Gradeability					25%
Overell lene	nth.	With la	dder		6ft (1.83m)
Overall leng	Jui	Without	ladder		5.4ft (1.65m)
Overall width				2.5ft (0.76m)	
Dimensio		working pla ×W)	tform		5.3ft×2.4ft (1.63m×0.74m)
Whee	lbase	e (front/rea	-)		52in (1320mm)
Ground cle		ce (stowed ition)	/lifting		2.36in/0.79in (60mm/20mm)
Overall heigh	aht	Rails Fo	olding		6ft (1.82m)
Overall field	grit	Rails un-	foldin	g	7ft (2.12m)
Overall weight				3483lbs (1580Kg)	
Pottoni	Οι	ıtput Voltag	je(V)		6
Battery	Capacity (Ah)				225
	Nominal AC Input Voltage			ut	100-240VAC
('haraar		mum DC ent (A)	Outp	υt	30
		nal DC ge (V)	Outp	ut	24
Ground environment noise radiation				< 70dBA	
Platform environment noise radiation					< 70dBA
System	pres	sure	3626	Sps	i (25MPa)
Tire contact pressure 156psi			si	(1074.83 KPa)	
Ground pressure 283.8ps			8ps	sf (13.5 9KPa)	
Tire specification				1	
Drive wheel load-6km/h (kg/lbs)				1005/2216	
Maximum static load (kg/lbs)				1170/2579	

Table 28 – AS1932 Operating Specifications

(Indoor Outdoor)

Item	Parameter
Maximum working height	25.6ft (7.8m)
Maximum height of platform	19ft (5.8m)
Extending size of platform	3ft (0.9m)
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Max Traveling speed (Stowed)	2 mph (3.2Km/h)



Max Traveling speed (Elevated)				0.5mph (0.8Km/h)	
Lifting/lowering speed (S)					$16\pm 2/28\pm 3$
Minimum turning radius					5.6ft (1.7m)
	Grade	eability			25%
Overellie	n ath	With la	dder		6ft (1.83m)
Overall le	ngın	Without	laddei	r	5.41ft (1.65m)
Overall width					2.7ft (0.81m)
Dimens		vorking pla ×W)	tform		5.3ft×2.4ft (1.63m×0.74m)
Who	eelbase	e (front/rea	r)		52in (1320mm)
Ground		ce (stowed ition)	l/lifting		2.36in/0.79in (60mm/20mm)
Overell b	oiabt	Rails F	olding		6ft (1.82m)
Overall n	Overall height Rails un-fold			g	7ft (2.12m)
Overall weight			3527lbs (1600Kg)		
Battery	OL	ıtput Voltaç	ge(V)		6
Dattery	·	Capacity (A	Nh)		225
	Nomi Volta		Inp	ut	100-240VAC
Charger	Maxir Curre	mum DC ent (A)	Outp	ut	30
	Nomi Volta	nal DC ge (V)	Outp	ut	24
Grour		ronment no ation	ise		< 70dBA
Platform environment noise radiation					< 70dBA
System pressure 3626ps			Sps	i (25MPa)	
			(1074.83 KPa)		
Ground pressure 283.8ps			sf (13.5 9KPa)		
Tire specification				1	
Drive wheel load-6km/h (kg/lbs)				1005/2216	
Maximum static load (kg/lbs)			1170/2579		

Table 29 – AS2632 Operating Specifications
(In door)

Item	Parameter
Maximum working height	32.8ft (10m)
Maximum height of platform	26.2ft (8m)
Extending size of platform	3ft (0.9m)
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Max Traveling speed (Stowed)	1.9mph (3Km/h)

Max Traveling speed (Elevated) 0.5mph (0.8Km/h)				
Lifting/lowering speed (S)			$31\pm 3/40\pm 3$	
Minimum turning radius			7ft (2.15m)	
	Grade	eability		25%
Overall le	nath	With ladder		7.9ft (2.4m)
Overallie	rigui	Without ladder	•	7.4ft (2.25m)
	Overa	ll width		2.7ft(0.83m)
Tire s	ize (dia	ameter×width)		15in×5.1in 380mm×130mm
Dimens		vorking platform kW)		7.4ft×2.7ft (2.26m×0.81m)
	Whee	el tread		27.6in(700mm)
Who	eelbase	e (front/rear)		73in(1850mm)
Ground		ce (stowed/lifting ition)		3.94in/0.98in (100mm/25mm)
Overell b	oiabt	Rails Folding		6.4ft (1.95m)
Overall h	eigni	Rails un-foldin	g	7.6ft (2.32m)
Overall weight			4718lbs (2140Kg)	
Battery	Output Voltage(V)		6	
Dattery	Capacity (Ah)		225	
	No	ominal AC Input Voltage		100-240VAC
Charger	Max	imum DC Output Current (A)	t	30
	Nor	minal DC Output Voltage (V)		24
Grour		ronment noise lation		< 70dBA
Platform environment noise radiation				< 70dBA
Sy	System pressure 3			626psi (25MPa)
			12	26.3psi (871.10KPa)
			20	64.4psf (12.66KPa)
Tire specification				1
Drive whe	el load-	-6km/h (kg/lbs)		1395/3075
Maximum	static	load (kg/lbs)		1630/3594

Table 30 - AS2646 Operating Specifications

(Indoor Outdoor)

Item	Parameter
Maximum occupant capacity	2
Maximum working height	32.8ft (10m)
Maximum height of platform	26.2ft (8m)
Extending size of platform	3ft (0.9m)
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°



Lifting/lowering speed (S) $35\pm4/40\pm4$ Minimum turning radius $7.5ft(2.3m)$ Gradeability 25% Overall length With ladder $8ft(2.42m)$	(lowo	 		
Max Traveling speed (Elevated) 0.5mph (0.8Km/h) Lifting/lowering speed (S) 35±4/40±4 Minimum turning radius 7.5ft(2.3m) Gradeability 25% Overall length With ladder 8ft (2.42m)			1.5°		
Lifting/lowering speed (S) $35\pm4/40\pm4$ Minimum turning radius $7.5ft(2.3m)$ Gradeability 25% Overall length With ladder $8ft(2.42m)$	Max Traveling speed (Stowed)			1.9mph (3Km/h)	
Minimum turning radius 7.5ft(2.3m) Gradeability 25% Overall length With ladder 8ft (2.42m)	Max Travel	ling s	speed (Elevated)		0.5mph (0.8Km/h)
Gradeability 25% Overall length With ladder 8ft (2.42m)	Lifting/lo	oweri	ing speed (S)		35±4/40±4
Overall length With ladder 8ft (2.42m)	Minimu	ım tu	rning radius		7.5ft(2.3m)
()verall length	G	3rade	eability		25%
Without ladder 7 4ft (2 25m)	Overall length	ıth	With ladder		8ft (2.42m)
Without ladder 7. In (2.26III)	Overall leng	JU I	Without ladder		7.4ft (2.25m)
Overall width 3.9ft(1.18m)	0	vera	ll width		3.9ft(1.18m)
Dimension of working platform (LxW) 7.4ftx3.7ft (2.26mx1.12m)	Dimension				
Wheel tread 41in(1040mm)	V	Vhee	l tread		41in(1040mm)
Wheelbase (front/rear) 73in(1850mm)	Wheel	lbase	(front/rear)		73in(1850mm)
Ground clearance (stowed/lifting position) 3.94in/0.79in (100mm/20mm)					
Overall height Rails Folding 5.7ft (1.73m)	Rails Folding				5.7ft (1.73m)
Rails un-folding 7.5ft (2.30m)	Overall height Rails un-folding			g	7.5ft (2.30m)
Overall weight 5357lbs (2430Kg)	Overall weight			5357lbs (2430Kg)	
Battery Output Voltage(V) 6	Rattery	Output Voltage(V)		6	
Capacity (Ah) 240	Dattery	Capacity (Ah)			240
Nominal AC Input 100-240VAC				100-240VAC	
Charger Maximum DC Output Current (A) 30	(:harger			ut	30
Nominal DC Output Voltage (V)				ut	24
Ground environment noise radiation < 70dBA	Ground 6				< 70dBA
Platform environment noise radiation < 70dBA					< 70dBA
System pressure 3626psi (25MPa)	System pressure 3			36	626psi (25MPa)
Tire contact pressure 177.76psi (1225.62KPa)					
Ground pressure 217.4psf (10.41KPa)	Ground pressure 2			2	17.4psf (10.41KPa)
Tire specification	Tire specification			tior	1
Drive wheel load-6km/h (kg/lbs) 1395/3075	Drive wheel I	load-	6km/h (kg/lbs)		1395/3075
Maximum static load (kg/lbs) 1630/3594	Maximum st	tatic I	oad (kg/lbs)	16	630/3594

Table 31 - AS3246 Operating Specifications (Indoor Outdoor)

Item	Parameter
Maximum working height	39.4ft (12m)
Maximum height of platform	32.8ft (10m)
Extending size of platform	3ft (0.9m)
Maximum allowable working angle (forward)	3°
Maximum allowable working angle	3°

	(backw		
Maximun	n allowabl (sidew	1.5°	
Max Traveling speed (Stowed)			1.9mph (3 Km/h)
Max Tra	aveling sp	eed (Elevated)	0.5mph (0.8Km/h)
Lifting/lowering speed (S))			58±4/48±4
Minimum turning radius			7.5ft (2.3m)
Gradeability			25%
Overall le	nath	With ladder	8.1ft (2.47m)
Overallie	rigui	Without ladder	7.4ft (2.25m)
	Overall	width	3.9ft (1.18m)
Dimens	sion of wo (L×V	rking platform V)	7.4ft×3.7ft (2.26m×1.12m)
Wh	neelbase (front/rear)	73in (1850mm)
Ground	clearance position	(stowed/lifting on)	3.94in/0.79in (100mm/20mm)
		Rails Folding	6.1ft (1.86m)
Overall height Rails un-folding		8ft (2.43m)	
	Overall v	6614lbs(3000Kg)	
Pottoni	Output Voltage(V)		6
Battery	Capacity	y (Ah)	240
	Nominal AC Input Voltage		100-240VAC
Charger	Maximu Current	•	30
	Nomina Voltage		24
Grou	nd enviro	nment noise	< 70dBA
Platfo	rm enviro radiat	< 70dBA	
;	System pi	3626psi (25MPa)	
Tire Contact Pressure			163.3psi 1225.62KPa
Ground pressure			247.5psf 11.85KPa
Tire specification			
Drive wh	eel load-6	skm/h (kg/lbs)	1395/3075
Maximu	ım static l	oad (kg/lbs)	1630/3594

Table 32 – AS4046 Operating Specifications (In door)

Item	Parameter
Maximum occupant capacity	2
Maximum working height	46ft (14m)
Maximum height of platform	39.4ft (12m)
Extending size of platform	3ft (0.9m)
Maximum allowable working angle (forward)	3°



Maximum	n allowabl (backw	3°		
Maximum allowable working angle (sideward)			1.5°	
Max Tra	aveling sp	1.9mph (3Km/h)		
Max Tra	veling sp	eed (Elevated)	0.5mph (0.8Km/h)	
Lifting	/lowering	speed (S))	65±4/60±4	
Minimum	n turning r	adius (exterior)	7.5ft (2.3m)	
	Gradea	bility	25%	
Overall	lonath	With ladder	8.1ft (2.47m)	
Overall	lengin	Without ladder	7.4ft (2.25m)	
	Overall	width	3.9ft (1.18m)	
Dimens	sion of wo (L×V	rking platform V)	7.4ft×3.7ft (2.26m×1.12m)	
Wh	eelbase (front/rear)	73in(1850mm)	
Ground	clearance positi	e (stowed/lifting on)	3.94in/0.79in (100mm/20mm)	
		Rails Folding	6.5ft (1.99m)	
Overall	height	Rails un-folding	8.4ft (2.56m)	
Overall weight			6967lbs (3160Kg)	
Dotton	Outp	ut Voltage(V)	12	
Battery	Capacity (Ah)		150	
	Nominal AC Input Voltage		100-240VAC	
Charger	Maximum DC Output Current (A)		30	
		nal DC Output oltage (V)	24	
Grou	nd enviro	nment noise	< 70dBA	
Platform environment noise radiation			< 70dBA	
;	System p	3626psi (25MPa)		
Tire Contact Pressure			190.98psi (1316.78KPa)	
Ground pressure			280.07psf (13.41KPa)	
Drive wh	eel load-6	Skm/h (kg/lbs)	1395/3075	
Maximu	ım static l	oad (kg/lbs)	1630/3594	

Table 33 – AS4650 Operating Specifications (Indoor/ Outdoor)

Item	Parameter	
Maximum working	In door	51.8ft (15.8m)
height	Out door	32.8ft (10m)
Maximum height of	In door	45.3ft (13.8m)

pla	platform Out door			r	26.2ft (8m)		
Exter	nding si	ze of p	latform		3ft (0.9m)		
Maximum allowable working angle (forward/ backward)			3°				
Maximum allowable working angle (sideward)			1.5°				
Max Traveling speed (Stowed)				1.9mph (3Km/h)			
Max Tra	veling s	peed	(Elevated)		0.5mph (0.8Km/h)		
Lifting	g/lower	ing spe	eed (S)		80±4/65±4		
Minimum	turning	g radiu	s (exterior))	9.35ft (2.85m)		
	Grade	ability	,		25%		
Overellie	.a. a4la	W	ith ladder		9.2ft (2.80m)		
Overall le	ength	With	nout ladder	-	8.7ft (2.65m)		
	Overa	II widtl	า		4.3ft(1.3m)		
Tire s	ize (dia	meter	×width)		15in×5.1in 380mm×130mm		
Dimens			platform		8.66ft×3.7ft		
\A/I-		(W)	/»		(2.64m×1.12m)		
	eelbase Fround	•			87.4in(2220mm) 4.1in/0.79in		
	wed/lift				(105mm/20mm)		
Overall h	eiaht	Ra	ils Folding		6.4ft (1.94m)		
Overall II	Cigiti	Rail	s un-foldin	g	9ft (2.74m)		
	Overal	l weigl	nt		7716lbs (3500Kg)		
Battery	Outpu	ıt Volta	age(V)		12		
	Capa	city (A	h)		150		
	Nomii Volta	ge	AC Inp		100-240VAC		
Charger	Maxin Curre	nt (A)	DC Outp		30		
	Nomii Volta	ge (V)	OC Outp	ut	24		
Grour		onmei ation	nt noise		< 70dBA		
Platfo	rm envi		nt noise		< 70dBA		
Sy	stem p	ressur	е		3626psi (25MPa)		
					226.7psi		
Tire	contact	press	ure		(1563.13KPa)		
Gr	ound p	ressur	е	2	231.4psf (11.08KPa)		
		Tire	e specifica	tior	า		
Drive whe	el load-	6km/h	(kg/lbs)		1395/3075		
Maximum static load (kg/lbs)				1630/3594			

10.1 Hydraulic Oil Specifications

№ NOTICE

When filling the hydraulic oil tank, it is a requirement to use the proper hydraulic oil in accordance with the work site environment and ambient temperature with reference to the following:

- L-HM 32 antiwear hydraulic oil: minimum air temperature>32°F (0°C);
- L-HV 32 low temperature hydraulic oil:-13°F
 (-25°C)<minimum air temperature≤32°F
 (0°C);
- L-HS 32 Ultralow temperature hydraulic oil:
 -40°F (-40°C) < minimum air temperature≤-13
 °F (-25°C);
- 10# aviation hydraulic oil: minimum air temperature ≤-40°F (-40°C);
- Oil level in the oil tank when SS1230E/SS1432E/SS1932E is stowed after the whole machine has been fully elevated, steered from stop-to-stop, and driven is 1 gal. (4L).
- Oil level in the oil tank when AS1930/ AS1930EAS1932/AS1932E is stowed after the whole machine has been fully elevated, steered from stop-to-stop, and driven is 1.6 gal. (6L).

- Oil level in the oil tank when AS2632E/ AS2632E is stowed after the whole machine has been fully elevated, steered stop-to-stop, and driven is 2.5 gal. (9.5L).
- Oil level in the oil tank when AS2646/
 AS2646E is stowed after the whole machine has been fully elevated, steered from stop-to-stop, and driven is 3 gal. (11.5L).
- Oil level in the oil tank when AS3246/ AS3246E/AS4046/AS4046E is stowed after the whole machine has been fully elevated, steered from stop-to-stop, and driven: is 3.7 gal. (14L).
- Oil level in the oil tank when AS4650
 /AS4650E is stowed after the whole machine has been fully elevated, steered from stop-to-stop, and driven: is 5.8 gal. (22L).

№ NOTICE

The ground bearing information is approximate information, and the different options are not included. The information can be used only if the safety factor is high enough.

 The weight of the machine varies according to the configuration of the selected part.

Chapter 11 Maintenance Schedule

Routine inspection and maintenance interval table

Maintenance level	Routine inspection	Level I	Level II	Level III	Level IV	Level V
Maintenance period	Every day	25h/1m	50h/3m	100h/6m	200h/12m	400h/24m



NOTICE: Working hours are based on those shown on the hourmeter.

Maintenance items of every level are given in the following tables

		Maintenance Level					
Item	Description	Routine inspection	I	II	III	IV	V
	Check battery capacity	•	•	•	•	•	•
	Check that all buttons/switches on the PCU panel function normally	•	•	•	•	•	•
	Ensure the PCU emergency stop switch is secure	•	•	•	•	•	•
	Check if all switches operate properly	•	•	•	•	•	•
	Check if any wiring harnesses are damaged	•	•	•	•	•	•
	Ensure the PCU wiring harness connector is secure	•	•	•	•	•	•
	Check if the PCU wiring harness connector is not damaged	•	•	•	•	•	•
Electric system	Check if the PCU wiring harness is crimped or damaged	•	•	•	•	•	•
	Check if the pressure switch wiring is secure and not damaged	•	•	•	•	•	•
	Check if the lowering solenoid valve is secure and not damaged	•	•	•	•	•	•
	Check if the wirings of horizon sensor and inclination sensor are secure and not damaged	•	•	•	•	•	•
	Check the position and wiring of every limit switch rocker arm	•	•	•	•	•	•
	Ensure the angle sensor wiring harness	•	•	•	•	•	•



			Mair	ntenance	e Level		
Item	Description	Routine inspection	ı	II	III	IV	V
	and connector are secure and not damaged						
	Ensure the emergency stop switch, key switch and plug switch on the lowering control panel and their wiring are secure and not damaged	•	•	•	•	•	•
	Ensure the warning lamp and horn function normally	•	•	•	•	•	•
	Ensure the motor, motor controller, relay and ECU wirings are secure and not damaged	•	•	•	•	•	•
	Ensure the wiring of every solenoid valve on the main valve block is secure and not damaged	•	•	•	•	•	•
	Ensure the charger wiring is secure and not corroded	•	•	•	•	•	•
	Ensure the battery posts are secure and not corroded	•	•	•	•	•	•
	Check the battery is secure and not damaged	•					
	Check machine performance and various limit switches	•					
	Check if any connector is loose, damaged or corroded	•	•	•	•	•	•
	Check if the pressure of the hydraulic system is normal	•	•	•	•	•	•
	Check if the lift system hydraulic pressure is normal	•	•	•	•	•	•
	Check if the steering system hydraulic pressure is normal	•	•	•	•	•	•
	Check if the driving system hydraulic pressure is normal	•	•	•	•	•	•
	Check if any oil line or connector is loose or damaged	•	•	•	•	•	•
Hydraulic System	Check all hydraulic cylinders for damage or leaking	•	•	•	•	•	•
	Check every hydraulic valve for damage or leaking	•	•	•	•	•	•
	Check if the scissor stack arm oil line is securely fastened or damaged	•	•	•	•	•	•
	Check if the driving oil pipe clip is loose	•	•	•	•	•	•
	Check oil level in the hydraulic tank	•	•	•	•	•	•
	Replace the hydraulic oil			Yearly	,		

		Maintenance Level					
Item	Description	Routine inspection	ı	II	III	IV	v
	Hydraulic oil return filter element	Every 6 months					
	Check the hydraulic oil tank vent cap for leaks	•	•	•	•	•	•
	Replace the hydraulic oil tank vent cap			•	•	•	
	Replace the reducer lubricating oil	F	irstly 50 h	ours, ev	ery 200 h	ours	
	Check the fork sliding block for abnormal noise					•	•
	Check and replace the sliding block					•	•
	Check for loose or damaged bolts or abnormal noise	•					
	Check if any circlip or washer on fork arms are damaged, worn, or missing	•					
	Check if the emergency lowering system operates properly	•					
Whole machine	Check if the platform, scissor stack arm, and chassis are deformed or have broken welds	•					
	Check if the paint is excessively chips or peels off	•					
	Check if the decals and safety signs are correct and legible	•					
	Check if the manuals are with the machine	•					
	Machine performance and limit switches operate properly	•					
Lubrication	Lubricate the steering knuckle		С	nce a m	onth		

Hydraulic Oil Specifications

Use temperature	Oil type
Minimum air temperature >32°F(0°C)	L-HM 32 antiwear hydraulic oil
-13°F (-25°C) < minimum air temperature ≤ 32°F (0°C)	L-HV 32 low temperature hudraulic oil
-40°F (-40°C) < minimum air temperature ≤-13°F (-25°C)	L-HS 32ultralow temperature hudraulic oil
Minimum air temperature ≤-40°F (-40°C)	10# aviation hydraulic oil

Annual Inspection Record

Legend description								
Y=Yes, completed								
N=No, un-completed								
R=Repaired								
Evaluation								
Annual Inspection	Y	N	R					
Operation inspection completed								
Maintenance item completed								
Function test completed								
Model		1						
Serial number								
Manufacturing Date								
Owner								
Inspector								
Title of inspector								
Inspection company								
Inspection Date								
Last Annual Inspection Date								



California Proposition 65



Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. These chemicals can be emitted from or contained in other various parts and systems, fluids and some component wear by-products. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment and vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment or vehicle and after operation. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.
 For more information go to www.P65warnings.ca.gov/diesel.

Scissors Mobile Elevating Work Platform Operation and Safety Manual

Ninth edition - September 2022



LGMG North America Inc.

1445 Sheffler Drive

Chambersburg, PA. 17201

Toll Free: 833.288.LGMG (5464)

Local Phone: 717.889.LGMG (5464)

Email: sales@lgmgna.com

www.lgmgna.com