

Operation and Safety Manual

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

Mobile Elevating Work Platform

ANSI



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.

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Foreword

Thank you for choosing to use this Mobile Elevating Work Platform from LGMG North America. This machine is designed according to A92.20-2018. 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.



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.

Warning:

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.

Notice:

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

machine has been completed.



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





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.

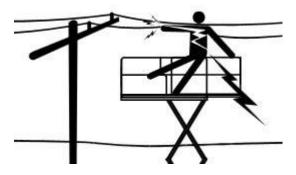
1.2 Maintenance of Safety Signs and Decals

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.





	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.

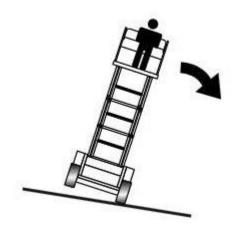
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- Stay away from the machine if it contacts a live electric wire. Do not touch or operate the machine from the ground or the platform before cutting off the power supply.
- Do not operate the machine in inclement weather.
- Do not use the machine as 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.

1) 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).
- 3) Do not use the tilt alarm as a level indicator. The tilt alarm only sounds when the machine is severely tilted.
- If the tilt alarm sounds: lower the platform 4) and move the platform to flat, solid ground. If the tilt alarm sounds when elevating the platform, lower the platform immediately.
- If the machine is used outdoors, do not 5) 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.
- If the machine is used indoors, do not 6) elevate the platform when wind speed is above 0mph (0m/s).
- 7) The ambient temperature range for use of this machine is -4° Fto104 $^{\circ}$ F(-20 $^{\circ}$ C to 40 $^{\circ}$ C)
- 8) The relative humidity for use of this machine shall be no greater than 90% (at 68°F **[20°**℃]).
- 9) The allowable voltage fluctuation of the machine is ±10%.
- 10) Do not increase the surface area of platform or load. Increasing the exposure area in wind

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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 the machine on any uneven or unstable roads or in any other dangerous conditions, when the platform is elevated.
- Do not use the platform to push any item or object.
- 15) Do not use the machine as a crane.
- 16) Do not place, anchor, or suspend any load from any part of the machine.
- 17) Do not push the machine or other items using the platform.
- Do not operate the machine when the chassis tray is pulled out.
- 19) Do not lean the platform against any nearby structure or wall.
- 20) Do not modify or limit the use of the limit switch.
- 21) Do not bind or tie the platform to a nearby structure or wall.

22) Do not place the load outside the platform guard rail.

23) 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.

24) Do not modify or damage any safety or stability related parts of the machine.

25) Do not replace any key stability-related parts with those with different weights or specifications.

26) 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).

Model	Battery weight	
SS1230E	55llb (25Kg)	
AS1930		
AS1930E		
AS1932	62lbs (28Kg)	
AS1932E	62lbs (28Kg)	
AS2632		
AS2632E		
AS3246		
AS3246E	ffiles (20Kg)	
AS2646	66lbs (30Kg)	
AS2646E		

Table 2 Battery Weights



Model	Battery weight	
SS1432E		
SS1932E		
AS4046	86lbs (39Kg)	
AS4046E		
AS4650	- 82lbs (37Kg)	
AS4650E		

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

Model	Weight of battery tray and batteries
SS1230E	173lbs(78.3Kg)
SS1432E	224lba(106Ka)
SS1932E	234lbs(106Kg)
AS1930	
AS1930E	322lbc(146Ka)
AS1932	322lbs(146Kg)
AS1932E	
AS2632	331lbs(150Kg)
AS2632E	55 HDS(150Kg)
AS3246	
AS3246E	$246 \ln (457 V_{e})$
AS2646	346lbs(157Kg)
AS2646E	
AS4046E	425lbs (193Kg)
AS4046	420105 (190rg)

Table 3 Battery Tray Weights

AS4650	478lbs (216.6Kg)	
AS4650E	47 0105 (210.0Kg)	

27) Do not place the steps, ladders, orscaffolding in the platform or lean them against any part of the machine.

28) Tools and materials, evenly distributed and able to be safely moved by the operator in the platform, can be carried in the platform only.

29) Do not use the machine on a movable surface or vehicle.

30) Keep all tires in good condition and appropriately tighten the lug nuts.



- 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.

/! Hazards When Operating on a

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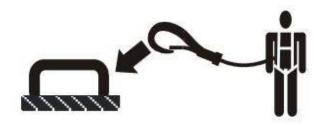


Slope

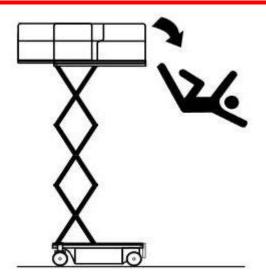
 Do not drive the machine on a slope that exceeds the slope and side slope rating of the machine. The rated value of slope is applicable to a stowed machine. Refer to Chapter 10 – Specifications.



 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.



- 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.

Component Damage Hazards

- 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.



- 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

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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

- Choose a safe parking position which is solid and horizontal ground where there are no barriers or heavy traffic.
- 2) Lower the platform.
- 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

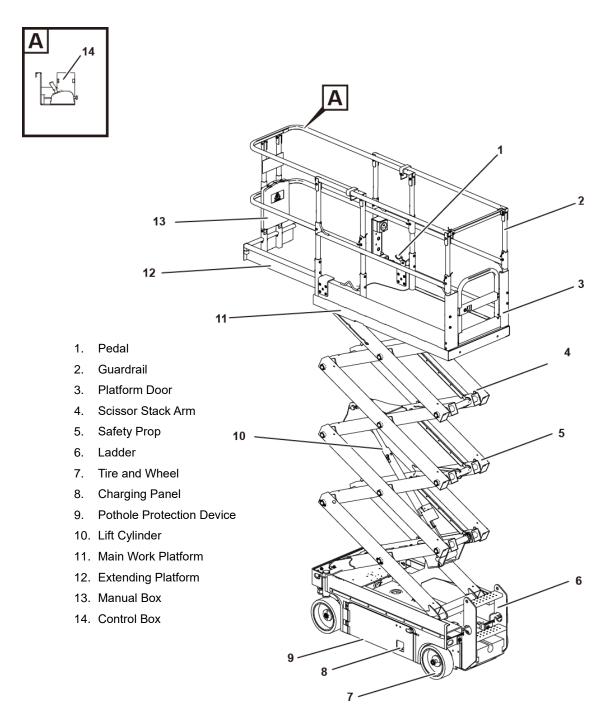


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Chapter 2 Machine Nomenclature

<u>Notice</u>: This drawing shows an AS1932E, but the nomenclature is common for all other models.



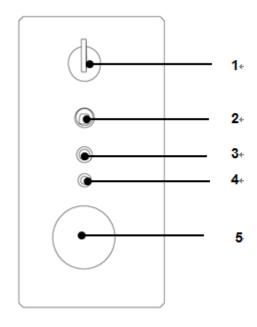


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Chapter 3 Controls

3.1 Ground Controls





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.

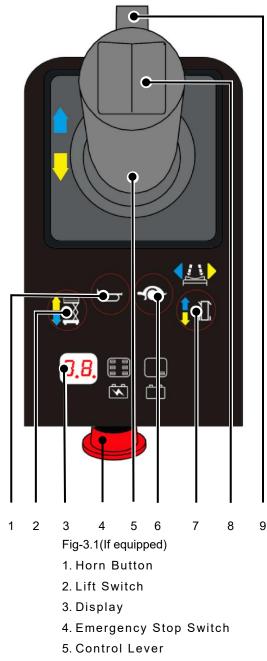
Fig -3.1

- 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.

3.2 Platform Controls



- 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.

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	

Table 4-Data on the Display

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 **Operation and Safety Manual**

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.

 $\cancel{!}$ Warning : In case of indoor mode,

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



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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.
- 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.
- 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.
- 2) Keep all labels clear and readable and place them appropriately. Go through the label.
- 3) Check for any hydraulic oil leakage and

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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.
 - Install the guard rail, place the guard rail pin in place, and tighten the retaining bolts.
- 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.

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- 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



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.



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. 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.
- 2) Bumps, ground barriers, or debris on the ground.
- 3) Inclined plane.
- 4) Infirm or unsteady ground surface.
- 5) Overhead barriers and high-voltage power lines.
- 6) Dangerous location
- 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

<u>∕!</u> 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.



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

5) 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.
- 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.



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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.
- 2) Pull the emergency stop switch out to the ON position.

6.5 Test of Lifting/Lowering Function



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.

- 1) Position the key switch to the platform controller or the OFF position.
- 2) Push up and hold the platform lift control switch. Result: The platform fails to elevate.
- 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.

 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.
- 7) 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.
- 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.
- 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.



Table 5 - Pothole Deployment Height When Driving

6.11 Driving and Braking Function Test

- Press the enable switch on the control handle.
- 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.
- 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 stop the machine on any grade.

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.

Model	Height	
AS1930		
AS1930E	1.2ft (1.2m)	
AS1932	4.3ft (1.3m)	
AS1932E		
AS2632	6.2ft (1.9m)	
AS2632E	0.211 (1.911)	
AS3246		
AS3246E	6.2ft (1.0m)	
AS4046	6.2ft (1.9m)	
AS4046E		
SS1230E	6 E6ft (2m)	
SS1432E	6.56ft (2m)	
AS2646	7 54# (0.00mm)	
AS2646E	7.51ft (2.29m)	
SS1932E	7.97ft (2.43m)	
AS4650	8.3ft (2.52m)	
AS4650E	0.511 (2.5211)	

- 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



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

- 1) Completely lower the platform.
- Drive two wheels on the same side of the machine up on a 1.37×7.9in (3.5×20cm) block.
- 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		
SS1432E	6.56ft (2m)	
AS2632		
AS2632E		
AS3246	C Off (0.4m)	
AS3246E	6.9ft (2.1m)	
AS4046		
AS4046E		
SS1932E		
AS2646	8.53ft (2.6m)	
AS2646E		
AS4650	<mark>9.2ft (2.8m)</mark>	
Model	Height	

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AS4650E	9.2ft (2.8m)
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- 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



Model	Height
AS1930	4.3ft (1.3m)
AS1930E	
AS1932	
AS1932E	
AS2632	6.2ft (1.9m)
AS2632E	
AS3246	6.2ft (1.9m)
AS3246E	
AS4046	
AS4046E	
SS1230E	6.56ft (2m)
SS1432E	
AS2646	7.51ft (2.29m)
AS2646E	
SS1932E	7.97ft (2.43m)
AS4650	8.3ft (2.52m)
AS4650E	

- 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.
- 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

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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



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

- 1) The dangerous conditions are avoided.
- 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

- 1) 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.
- 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.

- It is prohibited to use the machine for any purpose other than carrying the staff, equipment, tool and material to the overhead workstation.
- 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.
- 2) 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.
- 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.
- 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.
- Identify the battery level with the LED display.

Table 9 - Battery Level as Shown on LED Display

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



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

7.12 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	7.0ft (2.4m)	
AS1930E	7.9ft (2.4m)	
AS1932		
AS1932E		
SS1932E	9.09ft (2.77m)	
AS2632		
AS2632E		
AS2646	10 5ft (2.2m)	
AS2646E	10.5ft (3.2m)	
AS3246		
AS3246E		
AS4046		
AS4046E		
AS4650	13.1ft (4m)	
AS4650E		

- Lift the safety prop, move it to the center of the scissor cross tube and rotate it upward until it is vertical.
- 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.

7.13 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.
- Fully lower the platform and lock it into the extended platform.
- 2) Remove the platform controller.
- 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.
- Install the two retaining pins which were removed back to the guardrail on each side.
- 7) Fold the left guardrail of the extending

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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.
- 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 guardrails of the extended platform from tilting over.
- 11) Fold the left guardrail of main platform 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 right guardrails of the main platform from tilting over.
- 12) Fold the right guardrail of main platform from the ladder or the ground inward. 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.

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- 2) Remove the platform controller.
- 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.
- 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 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.
- 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.

7.14 How to Erect the Guardrail

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

7.15 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.



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



7.16 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
<mark>27</mark>	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

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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	
<mark>60</mark>	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	
		·	



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<mark>84</mark>	Motor controller short circuit error	Stop lifting and running
<mark>85</mark>	Brake release switch error	Alarm only
<mark>86</mark>	Brake release not open error	Alarm only
<mark>87</mark>	Brake application failure	Alarm only
<mark>89</mark>	Motor protection open error	Stop lifting and running
90	Alarm of exceeding 90% load	Alarm only
<mark>91</mark>	Short circuit of left drive motor protection	Stop lifting and running
92	Right drive motor protection short circuit	Stop lifting and running
99	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

Description
System initialization error: The ECU may have fault, replace the ECU.
System communication error: Check connection between the communication line and other cables. If fault still exists, please replace the PCU or the ECU.
Invalid option setting error: Set proper options for the machine
The selected machine code is not within the application range, make selection again based on the model
Prompt of successful release of the parameter: Restart it
Determine whether the GPS platform issues a car lock command
Prompt of successful release of calibration data: Restart it
Whether the function bit is not configured
Chassis lifting or lowering button opening error during start: Check the wiring of the toggle switch or check whether the toggle switch is jammed.
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.
Check that the proportional valve is wired correctly.
Pressure sensor error: Check the sensor wiring and the sensor. Check to confirm that the correct machine option with overload detection is selected.
Angle sensor error: Check the sensor wiring and the sensor. Check to confirm that the correct machine option with overload detection is selected.
1412 light load mode unsuccessful overload weight function data calibration error: Carry out weight calibration again.
Check whether the calibration process is reversed
Check whether the vehicle voltage is too low and whether it needs to be charged.
Error of unsuccessful overload weight function calibration: Carry out weight calibration again.
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.
<mark>60</mark>	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
<mark>85</mark>	Check that the brake connection is correct
<mark>86</mark>	Check that the brake connection is correct
<mark>87</mark>	Check that the brake connection is correct
<mark>89</mark>	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.
<mark>91</mark>	Check if the left drive motor is shorted
<mark>92</mark>	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.



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Chapter 8 Transport and Lifting Instructions



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



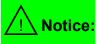
Failure to secure machine before

releasing brakes will result in death or

serious injury.

- 1. Make sure machine is on a firm, level surface or secured.
- 2. 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.
- 2. 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 ;

Notice: For SS1230E/SS1432E/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.

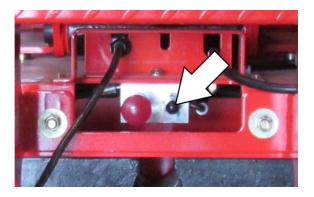


④Repeat the above procedure on opposite drive motor. With both drive motor brake released the machine can be moved manually.

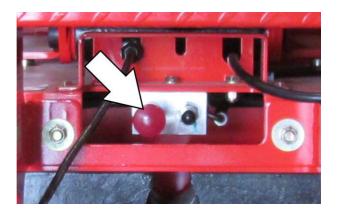
(5) After moving the machine, reinstall both drive motors to the original conditions.

Brake Release Operation (For hydraulic drive models)

- Chock the wheels to prevent the machine from moving.
- 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.
- Push the black brake release knob to open the brake valve.



4) 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.

⑥After moving the machine, return both drive motors to the original conditions.

8.2 Transport Safety

- Chock the machine wheels when preparing for transport.
- 2) Retract and secure the extending platform.
- 3) Switch the key switch to the OFF position and 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.
- Ensure the front and rear wheels are securely chocked and the machine is inspected to ensure there are no loose or unsecured parts.
- 5) Secure the machine on the transport surface using the tie down areas on the chassis.



6) Use at least four chains or tie straps.



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



strap before transport

Warning

Obey the following instructions.

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

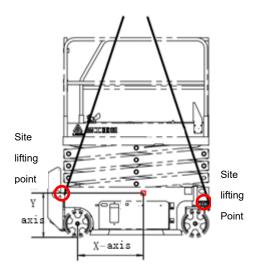


Table 12 - Center of Gravity

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.

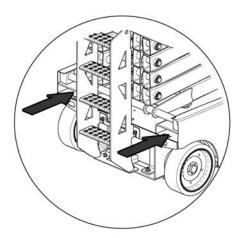
Operation and Safety Manual



 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.



- 4) Place the forks of the forklift into the forklift pockets.
- 5) Drive the forklift forward to completely insert the fork into the pockets.
- Lift the machine by 6in (15cm) and slightly tilt the fork backward to keep the machine stable.
- 7) 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.

- 2) 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

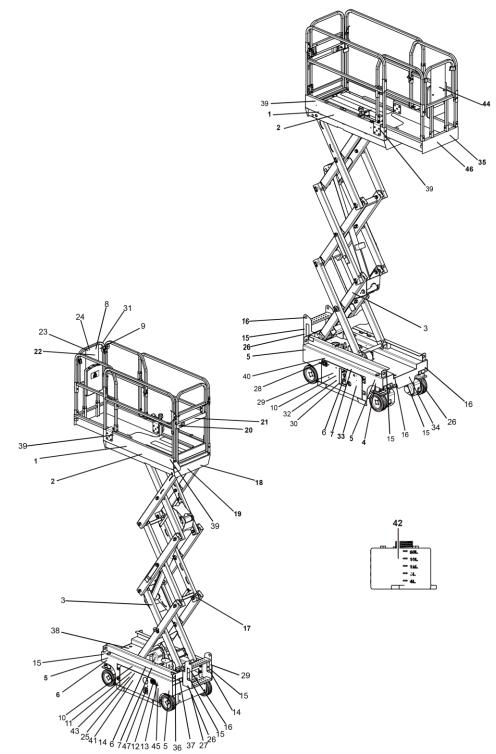
Follow the parking and storage instructions below:

- Drive the machine to a well-protected and well-ventilated area.
- 2) Be sure to completely lower the platform.
- Push the emergency stop switch in to the OFF position.
- 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.
- Turn the power supply selector switch to the OFF position and pull out the key to avoid starting and unauthorized use of equipment.
- If equipped with the optional anti-vandalism package, the working station and ground control box can be covered and locked to prevent vandalism.



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	Brake release safety warning sign



SS1230E Decals

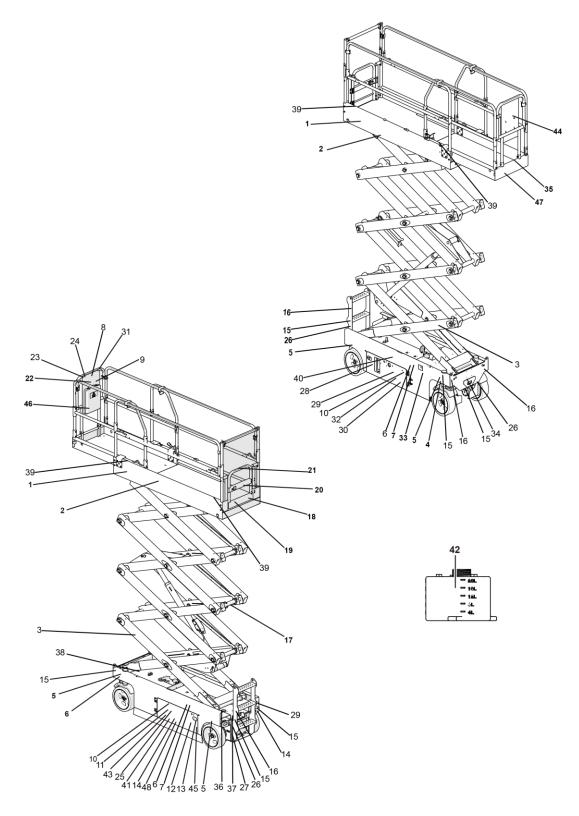
1-2534000335	2-2534001108	3-2534000973	4-2534000102	5-2534001042	6-2534000977
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SS1432E /SS1932E Decal Diagram





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	Brake release safety warning sign
24	Description of file loss		



SS1432E/SS1932E Decals

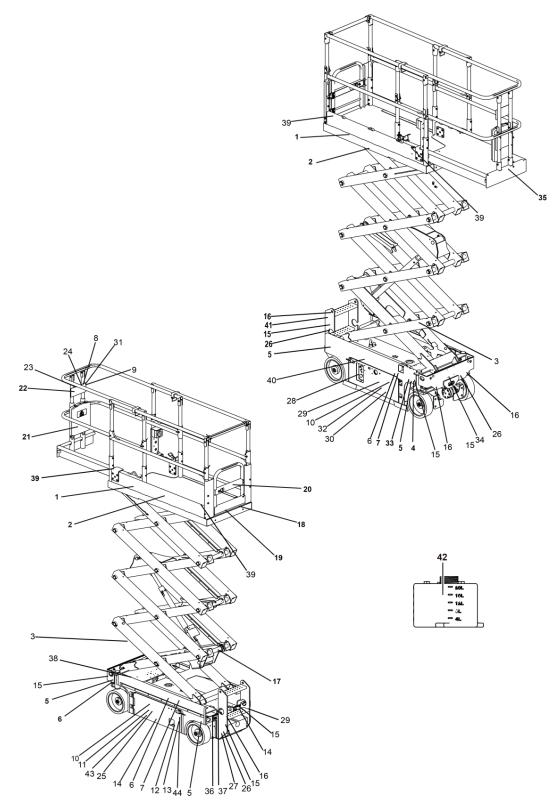
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AS1930E/AS1932E Decal Diagram





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		
23	Arrow indication sign		



AS1930E/AS1932E Decals

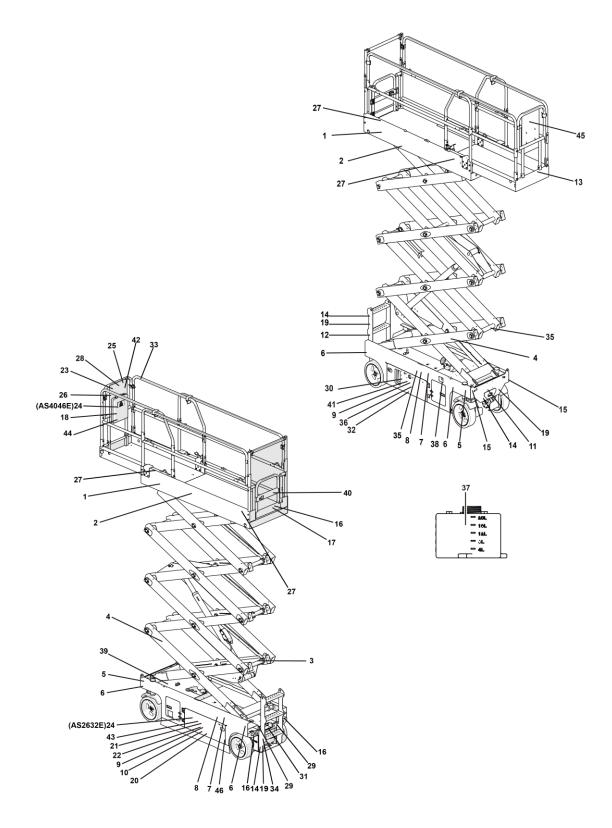
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31-2534000975	32-2534000980	33-2534000981	34-2534001126	35-2534000024	36-2534000101
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AS2632E/AS4046E Decal Diagram





AS2632E/AS4046E Decal List

ltem #	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 sign	33	Suspension position sign
10	Warning signs for explosive burns	34	Electric shock sign
11	Whole machine nameplate	35	Danger description
12	Fasting mark of transportation parts	36	Attention mark of skin infraction
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	Indoor Only
21	Battery connection indicator identification	45	Company Logo
22	Warning sign	46	Annual Inspection
23	Annual inspection instruction		
24	Safety rules description sign		



AS2632E/AS4046E Decals

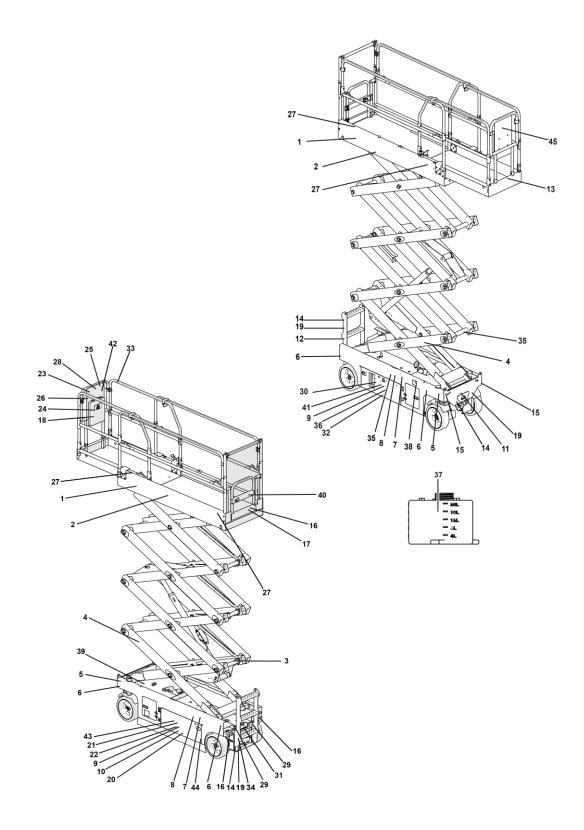
1-2534000219	2-2534000907/1119	3-2534000992	4-2534000973	5-2534000102	6-2534001044/90
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AS2646E/AS3246E Decal Diagram





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 parts	35	Danger description
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 identification	44	Annual Inspection
22	Warning sign	45	Company Logo
23	Annual inspection instruction		



AS2646E/AS3246E Decals

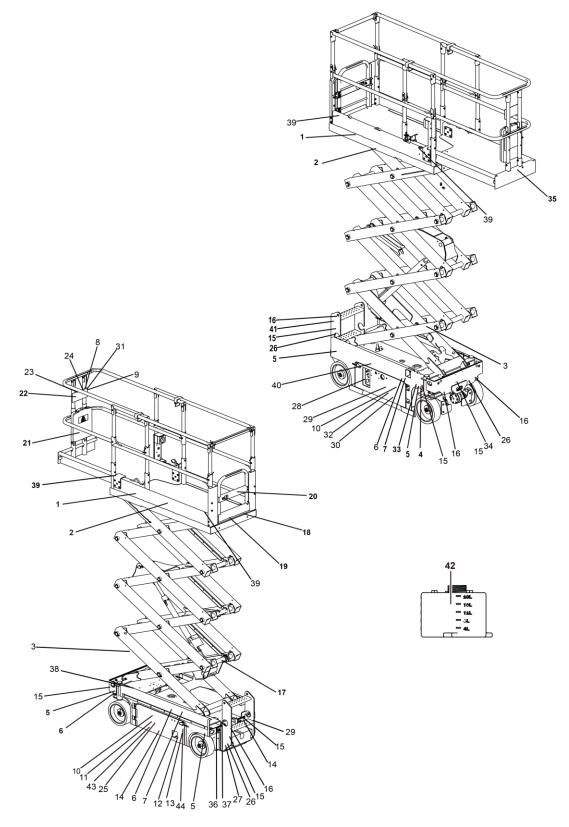
1-2534000219	2-2534001110/0910	3-2534000992	4-2534000973	5-2534000102	6-2534001017/43
<u>k</u> lgmg	A525463 A552463	Safety Arm	Danker Controg sarard Malder saladigo Arganyformalgant		Wheel load O 2623lbs/1190 kg +++ Wheel load O 2505lbs/1136kg +++ xmm
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534001732
A DANCER The second se	Control theorem Image: Control theorem	Tipore Indian Tipore Indian Methoday Method	And the second s	Control of the second sec	A DANCE OF THE ADDRESS OF THE ADDRES
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001072/1073	18-2534000986
	<u> </u>	3	INSTRUCTIONS Idealman allowadd add trice o piddform Nacionan allowadd anied ganod Bealman mather of acceptate Neolinan mather of acceptate 2 (holdwor) 2 (holdwor) 		A WARNING A WARNING A WARNING Warning W
19-2534000021	20-2534000990	21-2534001023	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS INTO A CONTRACT INTO A CO	INSTRUCTIONS Befory Connection Logues Verspecifications of the second verspecifications of the second connections of the second sec	DANGER Typor hazat Typor hazat Fylic to gelac bitmis with puper wigft lattries will case dath or striction inpuy. Bitmeins are used as contenengift ard are official formschire skiality. 253400004	INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report. 254007016	
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
	NOTICE Sectorsical Participations Participa		ADANCER Tore Hord and a packet and and and and and and and and		
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 2554000827	A WARNING A A A A A A A A A A A A A A A A A A A	PatornControls Location 2534000975	And the second s		A WARNING Warbard and the second seco



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	A DANGER Image: Second s	Proprieta International Internatio		If Qazato's Maruel is nissing contact local LGMG distributor or LGMG Inclustics. 2834001015
43-2534001021	43-2534001021	44-1720100001	45-2534000220		
A DANCER Revenue Re	Annual Construction Joint State The original construction of the train o	HUPORTAUL With and China stapping the start and and the start and the s			



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		
23	Arrow indication sign		



AS1930/AS1932/ Decals

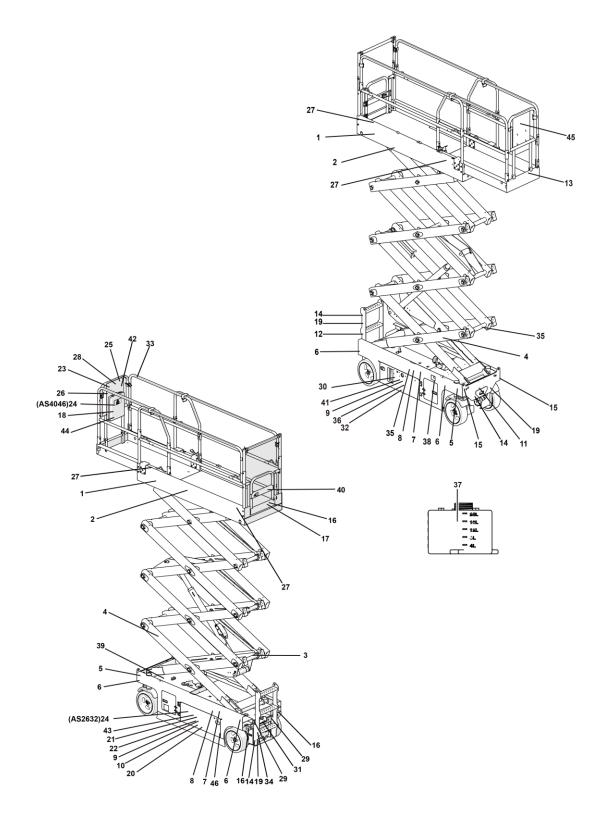
1-2534000218	2-2534001125/0904	3-2534000973	4-2534000102	5-2534001018	6-2534000977
\land lgmg	astee Asteed	Carding para Controls to carding the set of the set		Wheel load	And
7-2534000982	8-2534000983	9-2534000984	10-2534000979	11-2534000988	12-2534000990
A DANCER Dear Control of the second s			Recent the second secon	Han by the Life way	
13-254001004	14-2534001005	15-2831990027	16-2534000828	17-2534000032	18-2534001106/7
Constraints Danger Toporram Toporram Reverse	INSTRUCTIONS Battery Connection Diagram Netricel Videophaney: 6V (2000 mate): 2544 Documents	<u> </u>	(1) 3	Safety Arm	Notice and after the second after the second after the second after the second after the second after the second after the second after the second after the second after the s
19-2534001114/074	20-2534000997	21-2534000986	22-2534000985	23-2534000033	24-2534001015
	Free Participant Strategy (1997) (199	A WARNING A WARNING Wards of the second se	ADANCER Toar Read The area way application applicatio		If Operator's Manual is missing contrad local LGMG distributor or LGMG industries. 2534001015
25-2534001016	26-2534000021	27-2534000976	28-2534000808	29-2534000998	30-2534000974
INSTRUCTIONS Arnual inspection required. See maintenance manual for inspection report. 2530008		Constraints of the second	STOP , No , , , , , , , , , , , , ,		A WARNING A Constant of the second s
31-2534000975	32-2534000980	33-2534000981	34-2534001126	35-2534000024	36-2534000101
Platform Controls Location 2534000975	Contraction of the second seco		Evendary UNA Platform Evendary UNA Platform Sector 1		



37-2534000827	38-2534000987	39-2534000017	40-2534000978	41-2534000991	42-2534000100
115V AC 15A 253400827	A DANGER Deneted		Man subjects of a first data that a distribution (first that the second	ADANGER Anternational and a second	Max Min
43-2534001037	44-1720100001				
A DANCER Image: A state of the state	IMPORTANT Motor of Colonages for a small share a small strain of the small strain the small strain of the small strain of the small share a small strain of the small strain of the small strain of the small strain of the s				



AS2632/AS4046 Decal Diagram





AS2632/AS4046 Decal List

ltem #	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 sign	33	Suspension position sign
10	Warning signs for explosive burns	34	Electric shock sign
11	Whole machine nameplate	35	Danger description
12	Fasting mark of transportation parts	36	Attention mark of skin infraction
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	Indoor Only
21	Battery connection indicator identification	45	Company Logo
22	Warning sign	46	Annual Inspection
23	Annual inspection instruction		
24	Safety rules description sign		



AS2632/AS4046 Decals

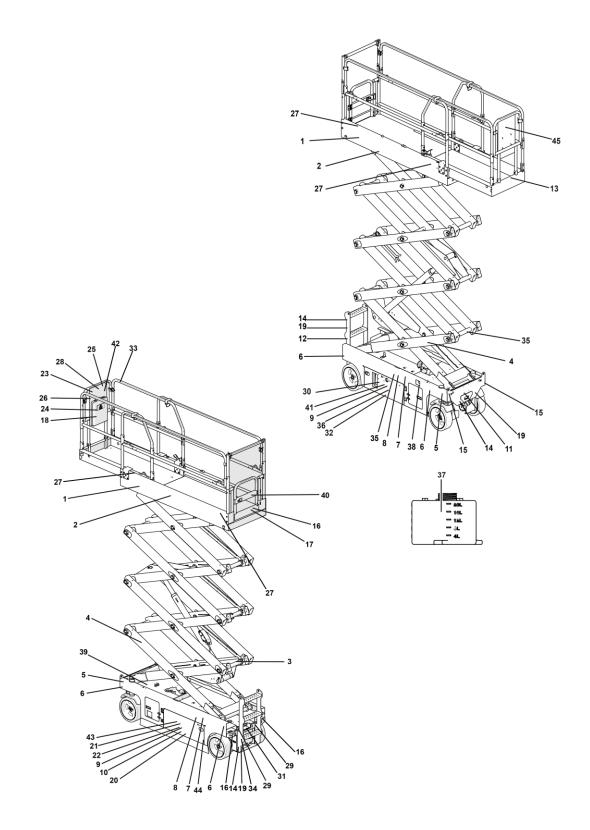
1-2534000219	2-2534000908/1118	3-2534000992	4-2534000973	5-2534000102	6-2534001044/90
<u>k</u> lgmg	ASEGE AS4046	Safety Arm	Cuthing yeard Cuthing yeard Mathematical Microsoft		Wheel load 1830lbs/83dkg ### Wheel load 2822lbs/1280kg ### 2822lbs/1280kg ###
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534000991
	Chain of Name Image: A state of the state o	ADANGER Toor taxat Marketar Ma	Construction of the second sec	Brodry Work Reform Bordry Bordry	A DANCER A DANCE AND
13-2534000024	14-2831990027	15-2534000828	16-2534001107	17-2534001074/1121	18-2534000986
	<u> </u>	() 3	INSTRUCTIONS Maximum allowable side force on platform : 50 bin 4400 M Maximum allowable wind speed: 6 mines (0 mpH) Maximum number of occupants: 2		A WARNING A WARNING Warning the second sec
19-2534000021	20-2534000990	21-2534001005/1116	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS Horizon Construction Horizon	HISTRUCTIONS Ling conside ligan Medical Signal Description Descrip	DANGER Tipor haard Tipor haard File to pice battries with point on pice battries with adden or strongen wild case dedn or strongen wild case dedn or strongen Battries are used as constructing ard are official to machine stability. 2534091064	INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report. 254007016	A DANCE Provide and the state of the state and the state of the state of the state of the state and the state of the state of the state of the state and the state of the state of the state of the state of the state and the state of the state
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
			ADANCER There from the adaptive to the adaptiv		STOP , , , , , , , , , , , , ,
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 250400627	A WARNING A Market B Market B Market B Market B Market B Market B Market Market B Market B Marke	PetformControls Location 2534000975	Constant of the second se		A WARNING WALL AND



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min		DANGER Dort NED Dort NED Dort NED Dort NED Dort NED Dort NED Dort NED	Definition of the second secon		If Quado's Manual is missing control local LGMG distributor or LGMG Inclusives 2534001015
43-2534001038	43-2534001117	44-1720100002	45-2534000220	46-1720100001	
Annotation Dankger Der Halt <	A DANCER Normal Index of the second with the second second second with the second second second the second secon	INSTRUCTIONS INDOOR USE ONLY		IMPORTANT And and Colorador that an annual more than the second of the second more than the second of the second the second more than the second of the second the second of the second of the second of the second the second of the second of the second of the second the second of the second of the second of the second the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second	



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 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 parts	35	Danger description
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 identification	44	Annual Inspection
22	Warning sign	45	Company Logo
23	Annual inspection instruction		



AS2646E/AS3246E Decals

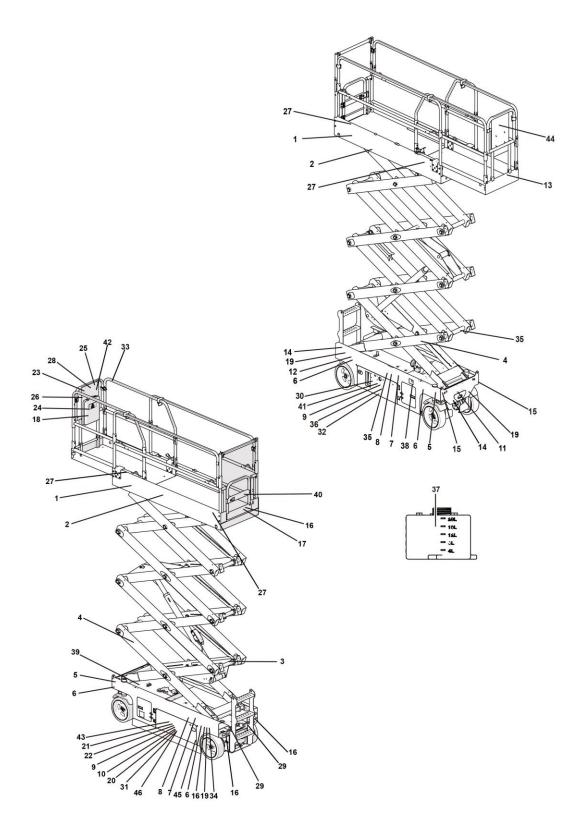
1-2534000219	2-2534000908/909	3-2534000992	4-2534000973	5-2534000102	6-2534001017/43
<u> L</u> GMG	A52646 A56246	Safety Arm	Appander Control of the second Control of t		Wheel load O 2623lbs/1190 kg ### Wheel load O 2505lbs/1136kg ### xee
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534000991
	Counter teason Image: Counter teason Im	ADANCER Toore haar definition with a strategy with a strategy with a strategy with a strategy with a strategy the strate	CONCESSION CONCESSION	Control of the second s	KOMMERT Karal Strategy Arrow Strategy Karal Strateg
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001072/1073	18-2534000986
	<u> </u>	(f) 5	INSTRUCTIONS Idonimum allowalde side force on platform: Idonimum allowalde side goods Idonimum marbor of acceptores I (adone) 2 (bolicor) 2 (bolicor) 2 (bolicor)		A VIJARNING A VIJARNING Martine Barrier Bari
19-2534000021	20-2534000990	21-2534001023	22-254001004	23-2534001016	24-2534000984
	INCOME DISTUICTIONS	INSTRUCTIONS Befry Conection Daysm Hereing Augusty (2) Approximation 2 Advin mini- 2 Advin mini- 2 Advin mini-	DANGER Typor haard Typor haard Typor weigh tathrise with point one share add or sort one share. Bitreles we used as contenengit ard are official formahire stability. 285400004	INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report. 2834027016	
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
	NOTICE Professional Professi		ADANCER Toor least and sort with an avery end sort. 2 March bar tab.		STOP STOP Ne Ne
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 2554000627	A WARNING A Constant of the second s	PetformControls Location 2534000975	Consider the second secon		A WARNING WALL AND



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min		A DANGER Der fel ministerioren Der satistation Der satistation	The second secon		If Quado's Minual is nissing contact local LGMG distributor or LGMG inclusives 153400015
43-2534001021	43-2534001021	44-1720100001	45-2534000220		
Annotation Dancer The stress of t	A DANGER Port and the start share where the start share share where the start share share where the start share s	IMPORTANT Marking and the sense the sense the sense marking and the sense the sense marking and the sense the sens			



AS4650/AS4650E Decal Diagram





AS4650/AS4650E Decals

1-2534000218	2-2534001070/2180	3-2534000992	4-2534000973	5-2534000102	6-2534001111
1 00000000000					
<u> L</u> GMG	AS4350	Safety Arm	And the second s		Wheel load O 2976lbs/1350kg +++
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534001732
A DANCER Under the State of th	Anner Date base Detroit Det	Apple and the second se	Constant and the second s	During Yok Rafton	ADMCCC ADMCCCC ADMCCCCC ADMCCCCC ADMCCCCCC ADMCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001073	18-2534000986
	<u> </u>	A	INSTRUCTION S Maximuliacable sist force on platform 6 Sis / 2014 (Markon) We Si al 6 Al 01 (Induced 10 (Instantial Construction) Notes and the sister of accularts: 1 (Instantial of accularts: 2 (Induced) 2 (Induced)		A VARNING A VARNING Margina
19-2534000021	20-2534000990	21-2534001116	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS INFO: Control Linking Info: Co	INSTRUCTIONS Mary franction Bayes Media Decking for Decking for D	DANGER Topor haard Fujuro topice lattiniswih point opice lattiniswih point on jiny. Bitareisa we used as contenengit ard are official formality. 250407004	INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report. 29000016	
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
			ADANCER Toor life that are a space of the sp		STOP , , , , , , , , , , , , , , , , , , ,
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 2504000027	A WARNING A Market Wards and A starting Wards and Wards and	PlatformControls Location 255400075	Constraints of the second	Rect and address of the first and address of the first address of the fi	A WARNING HELDONEAL DECIDINATION DECIDINA



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min		Conference Conference	System Linkerson All Link Barray System System System Barray System System System		ffQzatar/sMinualis missigarizat.local LGMGdithubar or LGMGindusties 2534071075
43-2534001120	44-2534000220	45-1720100001	46-2534001056	47-2534002178	
A D NCEER With State The states State states With States The states States With States States States With States States States With States States States		IMPORTANT AND ref CM super that an email the super super that an email the super super super super super super the super s	NOTICE Out of the power when the matrice is repaired or nut used for long poind () () () () () () () () () ()		



AS4650/AS4650E 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 sign	33	Suspension position 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	Company Logo
21	Battery connection indicator identification	45	Annual Inspection
22	Warning sign	46	Turn off the power sign
23	Annual inspection instruction	47	Warning signs for switch
24	Safety rules description sign		



Chapter 10 Specifications

Table 13 - Platform Load Capacity

Model		SS1	1432E	
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Maximum working load of extending platform	indoor	265lbs	outdoor	-
Model		SS1	1932E	
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Maximum working load of extending platform	indoor	265lbs	outdoor	-
Model	AS2632E			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Maximum working load of extending platform	indoor	265lbs	outdoor	-
Model	AS4046E			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	705lbs	outdoor	-
Maximum working load of extending platform	indoor	265lbs	outdoor	-

Load	Capacity
	Load

Model		SS1	230E		
Maximum occupant capacity	indoor	2	outdoor	1	
Maximum working load of platform	indoor	530lbs	outdoor	530lbs	
Maximum working load of extending platform	indoor	265lbs	outdoor	265lbs	
Model		AS1	1932E		
Maximum occupant capacity	indoor	2	outdoor	1	
Maximum working load of platform	indoor	510lbs	outdoor	510lbs	
Maximum working load of extending platform	indoor	265lbs	outdoor	265lbs	
Model	AS2646E				
Maximum occupant capacity	indoor	2	outdoor	1	
Maximum working load of platform	indoor	990lbs	outdoor	990lbs	
Maximum working load of extending platform	indoor	265lbs	outdoor	265lbs	
Model	AS3246E		3246E		
Maximum occupant capacity	indoor	2	outdoor	1	
Maximum working load of platform	indoor	705lbs	outdoor	705lbs	
Maximum working load of extending platform	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	-	
Maximum working load of extending platform	indoor	265lbs	outdoor	-	
Model		AS	1930		
Maximum occupant capacity	indoor	2	outdoor	-	
Maximum working load of platform	indoor	510lbs	outdoor	-	
Maximum working load of extending platform	indoor	265lbs	outdoor	-	
Model	AS2632				
Maximum occupant capacity	indoor	2	outdoor	-	
Maximum working load of platform	indoor	510lbs	outdoor	-	
Maximum working load of extending platform	indoor	265lbs	outdoor	-	
Model	AS4046				
Maximum occupant capacity	indoor	2	outdoor	-	
Maximum working load of platform	indoor	705lbs	outdoor	-	
Maximum working load of extending platform	indoor	265lbs	outdoor	-	

Table 16- Platform Load Capacity

Model		AS	1932	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	510lbs	outdoor	510lbs
Maximum working load of extending platform	indoor	265lbs	outdoor	265lbs
Model		AS	2646	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	990lbs	outdoor	990lbs
Maximum working load of extending platform	indoor	265lbs	outdoor	265lbs
Model		AS	3246	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Maximum working load of extending platform	indoor	265lbs	outdoor	265lbs
Model		AS	<mark>4650</mark>	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	<mark>indoor</mark>	705lbs	outdoor	705lbs
Maximum working load of extending platform	<mark>indoor</mark>	265lbs	outdoor	265lbs
Model	AS4650E			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	<mark>indoor</mark>	705lbs	outdoor	705lbs
Maximum working load of extending platform	<mark>indoor</mark>	265lbs	outdoor	265lbs

Table 17-SS1230E Operating Specifications

(Indoor Outdoor)

ltem			Parameter
Maxi	mum w	orking height	18.4ft (5.6m)
Maxim	um he	ight of platform	12ft (3.6m)
Exter	iding si	ze of platform	2ft (0.6m)
	(for	ble working angle ward)	3°
	(bacl	ble working angle ward)	3°
Maximum		ble working angle ward)	1.5°
Max Tra	aveling	speed (Stowed)	2mph (3.2Km/h)
Max Tra	veling	speed (Elevated)	0.3mph (0.5Km/h)
Lifting	g/lower	ing speed (S)	25/18
Mini	mum ti	urning radius	4.9ft (1.5m)
	Grad	eability	25%
Overall le	nath	With ladder	5ft (1.53m)
Overall le	ngin	Without ladder	4.4ft (1.35m)
Tire	:		9.1in×3.1in
The s	ize (dia	ameter×width)	(230mm×80mm)
	Overa	III width	2.5ft (0.76m)
Dimens		working platform ×W)	4.4ft×2.3ft (1.35m×0.7m)
\\/b	,	e (front/rear)	44.1in(1120mm)
		ce (stowed/lifting	1.97in/0.63in
Giodila		ition)	(50mm/16mm)
Overall h	eiaht	Rails Folding	6ft (1.82m)
	5	Rails un-folding	6.8ft (2.06m)
	Overa	ll weight	1940lbs (880Kg)
D "	Οι	itput Voltage(V)	12
Battery	(Capacity (AH)	25A/175;75A/45
		. AC Input Voltage	
Charger	Max.DC Output Current Nominal .DC Output		t 15
0	Nor	24	
Voltage Ground environment noise radiation			< 70dBA
Platform environment noise radiation			< 70dBA
System pr	essure		1884psi (13MPa)
Tire conta			162psi (1116.71KPa)
Ground pr			223.7psf (10.71KPa)

Table 16 - SS1432E Operating Specifications

(In door)

	lt	Parameter		
Maxi		orking heig	t	20.7ft (6.3m)
		· · ·		
		ight of platf		14.1ft (4.3m)
	•	ze of platfo		2ft (0.6m)
	(for	ward)		3°
	(bacl	ble working (ward)		3°
Maximum		ble working ward)	g angle	1.5°
	ing spe	ed of mach position)	nine	2mph (3.2Km/h)
Traveling	speed	of machine	e (lifting	0.3mph (0.5Km/h)
Lifting		ing speed ((S)	25/20
Mini	mum tı	urning radiu	IS	4.9ft (1.5m)
	Grad	eability		25%
Overall le	nath	With la	dder	5ft (1.53m)
Overall le	ngui	Without	ladder	4.4ft (1.35m)
Overall width			2.65ft (0.81m)	
Tiro e	izo (dir	ameter×wid	lth)	9.1in×3.1in
	•		-	(230mm×80mm)
Dimens		working pla ×W)	tform	4.4ft×2.3ft (1.35m×0.7m)
Whe	elbase	e (front/real	r)	44.1in(1120mm)
Ground		ce (stowed ition)	/lifting	1.97in/0.63in (50mm/16mm)
	pos	Rails F	olding	6.2ft (1.9m)
Overall h	eight	Rails un-	•	7.1ft (2.15m)
Overall we	eight		-	2172lbs (985Kg)
Detter	Οι	utput Voltag	ge(V)	12
Battery	(Capacity (A	.H)	25A/280;75A/70
	Nomi Volta	nal AC qe	Input	100-240VAC
Charger	Maxir	mum DC	Output	15
	Nominal DC Output Voltage			24
Ground er radiation	Ground environment noise			< 70dBA
	nvironr	ment noise		< 70dBA
System pr	essure		2174ps	i (15MPa)
Tire conta	ct pres	sure	213.4ps	si (1471.5KPa)
Ground pr	essure		228.5ps	sf (10.94KPa)

Table 19 - SS1932E Operating Specifications

(In door)					
	lte	Parameter			
Maxi	mum w	orking heig	ght	24.6ft (7.5m)	
Maxim	um hei	ght of platf	orm	18ft (5.5m)	
Exten	ding siz	ze of platfo	orm	2ft (0.6m)	
Maximum		ble working vard)	g angle	3°	
Maximum		ble working ward)	g angle	3°	
Maximum		ble working ward)	g angle	1.5°	
Max Tra	veling	speed (Sto	owed)	2 mph (3.2Km/h)	
		speed (Elev		0.3mph (0.5Km/h)	
Lifting	g/loweri	ing speed ((S)	32/27	
Mini	mum tu	irning radiu	IS	4.9ft (1.5m)	
	Grade	eability		25%	
Overall le	nath	With la	dder	5.02ft (1.53m)	
Overall le	ngui	Without	ladder	4.4ft (1.35m)	
Overall width			2.65ft (0.81m)		
Tire size (diameter×width)			9.1in×3.1in (230mm×80mm)		
Dimens		vorking pla «W)	tform	4.4ft×2.3ft (1.35m×0.7m)	
Whe	eelbase	e (front/real	r)	44.1in(1120mm)	
Ground		ce (stowed ition)	l/lifting	1.97in/0.63in (50mm/16mm)	
Quarallh	a i a la t	Rails F	olding	6.56ft (2.0m)	
Overall h	eignt	Rails un-	-folding	7.46ft (2.27m)	
Overall we	eight			2866lbs (1300Kg)	
Detterr	Ou	tput Voltag	ge(V)	12	
Battery	(Capacity (A	\H)	25A/280;75A/70	
	Nomi Volta		Input	100-240VAC	
Charger	Maxir Curre		Output	15	
	Nominal DC Output Voltage			24	
Ground environment noise radiation				< 70dBA	
Platform e radiation	nvironr	nent noise		< 70dBA	
System pr	essure		2176ps	i (15MPa)	
Tire conta	ct press	sure	211	psi(1454.66KPa)	
Ground pr	essure		281	1.1psf(13.46Kpa)	

Table 20-AS1930E Operating Specifications

(Indoor)					
	lte	Parameter			
Maxir	mum w	orking heig	ght	25.6ft (7.8m)	
Maxim	um hei	ght of platf	orm	19ft (5.8m)	
Exten	ding si	ze of platfo	orm	3ft (0.9m)	
Maximum		ble working ward)	g angle	3°	
Maximum		ble working ward)	g angle	3°	
Maximum		ble working ward)	g angle	1.5°	
Max Tra	veling	speed (Sto	wed)	2.2mph (3.5Km/h)	
Max Trav	veling	speed (Elev	vated)	0.5mph (0.8Km/h)	
Lifting	g/lower	ing speed ((S)	16/28	
Minimum	turning	g radius (ex	cterior)	5.6ft (1.72m)	
	Grade	eability		25%	
Overallia	a aith	With la	dder	6.1ft (1.86m)	
Overall le	ngtn	Without	ladder	5.51ft (1.68m)	
	Overall width			2.5ft (0.76m)	
Tire s	ize (dia	ameter×wid	lth)	12.7in×4in 323mm×100mm	
Dimensi		vorking pla «W)	tform	5.3ft×2.4ft (1.63m×0.74m)	
Whe	elbase	e (front/real	r)	53in (1350mm)	
Ground o		ce (stowed ition)	/lifting	3.15in/0.79in (80mm/20mm)	
		Rails F	olding	6ft (1.84m)	
Overall he	eight	Rails un-	folding	7ft (2.14m)	
Overall we	eight	•		3549lbs (1610Kg)	
Detterri	Οι	itput Voltag	je(V)	6	
Battery	(Capacity (A	.H)	25A/447;75A/115	
	No	ominal AC I Voltage	nput	100-240VAC	
Charger	Max	imum DC (Current	Output	30	
	Nominal DC Output Voltage		24		
Ground en radiation	Ground environment noise			< 70dBA	
Platform e radiation	nvironr	nent noise		< 70dBA	
System pr	essure		3046ps	i (21MPa)	
Tire conta	ct pres	sure	156psi	(1074.83 KPa)	
Ground pr	essure		283.8ps	sf (13.5 9KPa)	

Table 21-AS1932E Operating Specifications

(Indoor Outdoor)				
ltem				Parameter
Maxir	Maximum working height			25.6ft (7.8m)
Maxim	um he	ight of platf	orm	19ft (5.8m)
Exten	ding si	ze of platfo	rm	3ft (0.9m)
Maximum		able working ward)	g angle	3°
Maximum		able working kward)	g angle	3°
Maximum		able working ward)	g angle	1.5°
	-	speed (Sto	-	2.2mph (3.5Km/h)
Max Trav	eling :	speed (Elev	/ated)	0.5mph (0.8Km/h)
Lifting	/lower	ing speed ((S)	16/28
Minimum	turning	g radius (ex	terior)	5.74ft (1.75m)
	Grad	eability		25%
Overall ler	ath	With la	dder	6.1ft (1.86m)
Overall lei	igin	Without	ladder	5.51ft (1.68m)
	Overall width			2.7ft (0.81m)
Tire size (diameter×width)			th)	12.7in×4in 323mm×100mm
Dimension of working platform (LxW)			tform	5.3ft×2.4ft (1.63m×0.74m)
Whe	elbase	e (front/rea	-)	53in (1350mm)
Ground c		ice (stowed sition)	/lifting	3.15in/0.79in (80mm/20mm)
Overall he		Rails F	olding	6ft (1.84m)
Overall he	ligni	Rails un-	folding	7ft (2.14m)
Overall we	ight			3571lbs (1620Kg)
Battery	Οι	utput Voltag	je(V)	6
Dationy		Capacity (A		25A/447;75A/115
	No	Iominal AC Input Voltage		100-240VAC
Charger	Мах	kimum DC (Current	Dutput	30
	Nominal DC Output Voltage		24	
Ground environment noise radiation				< 70dBA
Platform environment noise radiation				< 70dBA
System pre	essure		3046ps	i (21MPa)
Tire contac	ct pres	sure	156psi	(1074.83 KPa)
Ground pre	essure	•	283.8ps	sf (13.5 9KPa)

Table 22 - AS2632E Operating Specifications

(In door)

	lt	Parameter					
Maxi	mum v	vorking heig	ght	32.8ft (10m)			
Maxim	num he	ight of platf	orm	26.2ft (8m)			
Exter	nding s	ize of platfo	orm	3ft (0.9m)			
Maximum		able working ward)	g angle	3°			
	(bac	able working kward)		3°			
Maximum		able working eward)	g angle	1.5°			
Max Tra	aveling	speed (Sto	owed)	2.2mph (3.5Km/h)			
Max Tra	veling	speed (Elev	vated)	0.5mph (0.8Km/h)			
Liftin	g/lowe	ring speed	(S)	31/40			
Mini	imum t	urning radiu	IS	7ft (2.15m)			
	Grad	eability		25%			
Quarallia	nath	With ladder		7.9ft (2.4m)			
Overall le	ength	Without	ladder	7.4ft (2.25m)			
Overall wi	dth			2.7ft(0.83m)			
Tire s	size (di	ameter×wid	lth)	15in×5.1in 380mm×130mm			
Dimens		working pla	tform	7.4ft×2.7ft			
	```	×W)		(2.26m×0.81m)			
		e (front/rea	-	73in(1850mm)			
Ground		nce (stowed	/lifting	3.94in/0.98in			
	pos	sition) Rails F	olding	(100mm/25mm) 6.4ft (1.95m)			
Overall h	eight	Rails un		7.6ft (2.32m)			
Overall we	eiaht	T tails an	loluling	4718lbs (2140Kg)			
		utput Voltag	ge(V)	6			
Battery		Capacity (A	.H)	25A/447;75A/115			
	Nom Volta		Input	100-240VAC			
Charger	Maxi Curre		Output	30			
	Nom Volta		Output	24			
Ground er radiation		< 70dBA					
Platform e radiation	environ		< 70dBA				
System pr	ressure	3046ps	i (21MPa)				
Tire conta			-	si (871.10KPa)			
Ground p			264.4ps	sf (12.66KPa)			

#### Table 23 - AS2646E Operating Specifications

#### (Indoor Outdoor)

	lte	Parameter		
Maxir	num w	orking heig	ght	32.8ft (10m)
Maxim	um hei	ght of platf	orm	26.2ft (8m)
Exten	ding si	ze of platfo	orm	3ft (0.9m)
Maximum		ble working vard)	g angle	3°
Maximum		ble working ward)	g angle	3°
Maximum		ble working ward)	g angle	1.5°
Max. Tra	veling	speed (Sto	owed)	2.2mph (3.5Km/h)
Max. Tra	veling	speed (Ele	vated)	0.5mph (0.8Km/h)
Lifting	/loweri	ing speed	(S)	35/40
Minir	num tu	irning radiu	IS	7.5ft (2.3m)
	Grade	eability		25%
Overall le	aath	With la	dder	8ft (2.42m)
Overall lei	igiri	Without	ladder	7.4ft (2.25m)
	Overa	ll width		3.9ft (1.18m)
Tire si	ize (dia	imeter×wic	lth)	15in×5.1in 380mm×130mm
Dimensi		vorking pla «W)	tform	7.4ft×3.8ft (2.26m×1.15m)
Whe	elbase	e (front/rea	r)	73in(1850mm)
Ground c		ce (stowed ition)	l/lifting	3.94in/0.79in (100mm/20mm)
Overall h		Rails F	olding	5.7ft (1.73m)
Overall he	eight	Rails un	-folding	7.5ft (2.30m)
Overall we	ight			<mark>5357lbs (2430Kg)</mark>
Detten	Ou	tput Voltag	ge(V)	6
Battery	(	Capacity (A	\H)	25A/488;75A/132
	No	minal AC I Voltage	nput	100-240VAC
Charger	Maximum DC Output			30
Nominal DC Output Voltage			24	
Ground environment noise radiation				< 70dBA
Platform environment noise radiation				< 70dBA
System pressure 3046p				i (21MPa)
				osi (1225.62KPa)
Ground pro	essure		222.85	osf (10.67KPa)

#### Table 24-AS3246E Operating Specifications

(Indoor Outdoor)

	lter	Parameter	
Maximum	workina l	neight	39.4ft (12m)
Maximum			32.8ft (10m)
Extending	-	-	3ft (0.9m)
-	-	e working angle	3°
· · · ·		e working angle	3°
Maximum (sideward)		e working angle	1.5°
Traveling s position)	speed of	machine (Stowed	2.2mph (3.5Km/h)
Traveling s position)	speed of	machine (lifting	0.5mph (0.8Km/h)
Lifting/lowe	ering spe	ed (S)	58/48
Minimum t	urning ra	dius	7.5ft (2.3m)
Gradeabili	ty		25%
Overall ler	ath	With ladder	8ft (2.42m)
	igui	Without ladder	7.4ft (2.25m)
Overall wid	dth		3.9ft (1.18m)
Tire size (o	diameters	<width)< td=""><td>15in×5.1in 380mm×130mm</td></width)<>	15in×5.1in 380mm×130mm
Dimension (L×W)	of worki	ng platform	7.4ft×3.8ft (2.26m×1.15m)
Wheelbase	e (front/re	ear)	73in (1850mm)
Ground cle position)	earance (	stowed/lifting	3.94in/0.79in (100mm/20mm)
		Rails Folding	5.7ft (1.73m)
Overall he	ight	Rails un-folding	7.5ft (2.30m)
Overall we	ight		6614lbs (3000Kg)
	Out	out Voltage(V)	6
Battery	Ca	apacity (min)	25A/488;75A/13 2
	Nor	ninal AC Input Voltage	100-240VAC
Charger	Maxir	num DC Output Current	30
	Nom	inal DC Output Voltage	24
Ground en	vironmer	< 70dBA	
Platform e	nvironme	< 70dBA	
System pro	essure	3046psi 21(MPa)	
Tire Conta	ct Pressu	163.3psi 1225.25 kPa	
Ground pro	essure		247.5psf 11.85KPa

#### Table 25 - AS4046E Operating Specifications

(In door)						
	lte	em		Parameter		
Maxi	mum w	orking heig	ght	46ft (14m)		
Maxim	um hei	ght of platf	orm	39.4ft (12m)		
Extending		-		3ft (0.9m)		
	(for	ıble working ward)		3°		
Maximum		ible working (ward)	g angle	3°		
	(side	ble working ward)		1.5°		
(9	ing spe Stowed	ed of mach position)		2.2mph (3.5Km/h)		
Traveling	speed	of machine ition)	e (lifting	0.5mph (0.8Km/h)		
Lifting	g/lower	ing speed (	(S)	58/60		
Minimum	turning	g radius (e>	cterior)	7.5ft (2.3m)		
Gradeabili	ty			25%		
Overall le	nath	With la	dder	8.1ft (2.47m)		
Overall le	ngui	Without ladder		7.4ft (2.25m)		
Overall wi	dth			3.9ft(1.18m)		
Tire size (	diamet	er×width)		15in×5.1in 380mm×130mm		
Dimens		vorking pla ×W)	tform	7.4ft×3.8ft (2.26m×1.15m)		
Wheelbas	e (front	/rear)		73in(1850mm)		
		clearance ing positior	ו)	3.94in/0.79in (100mm/20mm)		
		Rails Folding		6.5ft (1.99m)		
Overall h	eignt	Rails un-folding		8.4ft (2.56m)		
Overall we	-			6967lbs (3160Kg)		
Battery	Outpu	ut Voltage(	∨)	12		
Dattery	-	city (AH)		25A/280;75A/70		
	Nomi Volta	ge	Input	100-240VAC		
Charger	Maxir Curre	ent	Output	30		
Nominal DC Output Voltage				24		
Ground er radiation		< 70dBA				
Platform e radiation	nvironr	< 70dBA				
System pr	essure	i (21MPa)				
Tire conta	ct pres	sure	190.98p	osi (1316.78KPa)		
Ground pr	essure		280.07p	osf (13.41KPa)		

Table 26 – AS4650E (	Operating S	Specific	ations

(In door/Out door)					
	ltem	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 plat	form	<mark>3ft (0.9m)</mark>		
	allowable v brward/ bacł	working angle	3°		
	n allowable v	working angle	1.5°		
	(sideward	f machine	2.2mph (3.5Km/h)		
	Stowed pos speed of m	ition) achine (lifting			
	position		0.5mph (0.8Km/h)		
	g/lowering s		80/65		
	_	lius (exterior)	9.35ft (2.85m)		
Gradeabil			25%		
Overall le	enath	With ladder	9.2ft (2.80m)		
Overall wi		Inout ladder	8.7ft (2.65m)		
			4.3ft(1.3m) 15in×5.1in		
	diameter×w		380mm×130mm		
Dimens	ion of worki (L×W)	ng platform	8.66ft×3.7ft (2.64m×1.12m)		
-	e (front/rea		87.4in(2220mm)		
	Fround clear wed/lifting p		4.1in/0.79in (105mm/20mm)		
	F	, Rails Folding	6.4ft (1.94m)		
<mark>Overall h</mark>		ails un-folding	9ft (2.74m)		
Overall we	eight		7870lbs (3570Kg)		
	Output Vo	ltage(V)	12		
Battery	Capacity (	(AH)	25A/280;75A/70		
	Nominal	AC Input	100-240VAC		
Charger	Voltage Maximum	DC Output	30		
Charger	Current Nominal	DC Output			
	Voltage	24			
radiation	nvironment	< 70dBA			
Platform e radiation	environment	< 70dBA			
System pi	ressure	si (21MPa)			
Tire conta	ct pressure	226.7p	si (1563.13KPa)		
Ground p	essure	231.4p	sf (11.08KPa <u>)</u>		
		•			



#### Table 27 – AS1930 Operating Specifications

(Indoor)						
	lte	em		Parameter		
Maxir	mum w	orking heig	pht	25.6ft (7.8m)		
Maxim	um hei	ght of platf	orm	19ft (5.8m)		
Exten	ding si	ze of platfo	rm	3ft (0.9m)		
Maximum		ıble working ward)	g angle	3°		
Maximum		ıble working (ward)	g angle	3°		
Maximum		ble working ward)	g angle	1.5°		
Max Tra	veling	speed (Sto	wed)	2 mph (3.2Km/h)		
Max Trav	veling	speed (Elev	/ated)	0.5mph (0.8Km/h)		
Lifting	g/lower	ing speed (	(S)	16/28		
Minii	mum tı	urning radiu	IS	5.4ft (1.65m)		
Gradeabili	ty			25%		
Quarallia	nath	With la	dder	6ft (1.83m)		
Overall le	ngun	Without	ladder	5.4ft (1.65m)		
Overall wi	dth	2.7ft (0.81m)				
Dimension of working platform (L×W)				5.3ft×2.4ft (1.63m×0.74m)		
Whe	eelbase	e (front/rea	r)	52in (1320mm)		
Ground o		ce (stowed ition)	/lifting	2.36in/0.79in (60mm/20mm)		
Overall b	oight	Rails Folding		6ft (1.82m)		
Overall he	eigni	Rails un-folding		7ft (2.12m)		
Overall we	-			3483lbs (1580Kg)		
Battery		tput Voltag		6		
		Capacity (A	.H)	25A/447;75A/115		
	Nomi Volta		Input	100-240VAC		
Charger	Maximum DC Output Current			30		
Nominal DC Ou Voltage			Output	24		
Ground en radiation	vironm	< 70dBA				
Platform environment noise radiation				< 70dBA		
System pressure 3481p				i (24MPa)		
Tire conta	ct pres	sure	156psi	(1074.83 KPa)		
Ground pr	essure		283.8ps	sf (13.5 9KPa)		

#### Table 28 – AS1932 Operating Specifications

#### (Indoor Outdoor)

	Parameter			
Maxi	-	em /orking heig	1ht	25.6ft (7.8m)
		ight of platf	-	19ft (5.8m)
		ize of platfo		3ft (0.9m)
		able working		
	(for	ward)		3°
Maximum		able working kward)	g angle	3°
Maximum		able working ward)	g angle	1.5°
Max Tra	aveling	speed (Sto	wed)	2 mph (3.2Km/h)
Max Tra	veling	speed (Elev	/ated)	0.5mph (0.8Km/h)
-	-	ing speed (	-	16/28
Mini	mum ti	urning radiu	IS	5.6ft (1.7m)
Gradeabil	ity			25%
0		With la	dder	6.ft (1.83m)
Overall le	ength	Without	ladder	5.41ft (1.65m)
Overall wi	dth			2.7ft (0.81m)
Dimens		working pla ×W)	tform	5.3ft×2.4ft (1.63m×0.74m)
Wh	eelbase	52in (1320mm)		
Ground		ice (stowed sition)	/lifting	2.36in/0.79in (60mm/20mm)
		Rails F	olding	6ft (1.82m)
Overall h	eight	Rails un-	folding	7ft (2.12m)
Overall we	eight	•		3527lbs (1600Kg)
Dotton	Οι	utput Voltag	je(V)	6
Battery	(	Capacity (A	.H)	25A/447;75A/115
	Nomi Volta		Input	100-240VAC
Charger	Maxir Curre		Output	30
Nominal DC Output Voltage				24
Ground er radiation		< 70dBA		
Platform environment noise radiation				< 70dBA
System pressure 3481p				i (24MPa)
Tire conta			156psi	(1074.83 KPa)
Ground pr	ressure	•	283.8ps	sf (13.5 9KPa)
200.000				

#### Table 29 – AS2632 Operating Specifications

Maximum working height32.8ft (10m)Maximum height of platform26.2ft (8m)Extending size of platform3ft (0.9m)Maximum allowable working angle (backward)3°Maximum allowable working angle (backward)3°Maximum allowable working angle (sideward)3°Maximum allowable working angle (sideward)1.5°Max Traveling speed (Slowed)1.9mph (3Km/h)Max Traveling speed (Slowed)31/40Minimum turning radius7ft (2.15m)Cracebility25%Overall lengthWith ladder7.9ft (2.4m)7.9ft (2.4m)Overall width2.7ft(0.83m)Tire size (diameterxwidth)15inx5.1in 380mm×130mmDimension of working platform (LxW)7.4ft (2.25m)Overall width27.6in(700mn)Wheel base (front/rear)73in(1850mn)Ground clearace (stowed/lifting position)3.94in/0.98in (100mm/25mm)Overall widthRails rolding (100mm/25mm)Overall wightRails rolding (2apacity (AH)Overall wightCapacity (AH) VoltageBatteryOutput Voltage(V) VoltageChargerMaximum DC Output VoltageNominal DC Output Voltage24Ground environment noise radiation Voltage30Nominal DC Output Voltage24Ground environment noise radiation< 70dBAPlatform environment noise radiation Voltage< 70dBAPlatform environment noise r	(In door)					
$ \begin{array}{ c c c c } Maximum height of platform 26.2ft (8m) \\ \hline Extending size of platform 3ft (0.9m) \\ \hline Maximum allowable working angle (forward) 3° \\ \hline Maximum allowable working angle (backward) 3° \\ \hline Maximum allowable working angle (sideward) 1.9mph (3Km/h) \\ \hline Max Traveling speed (Stowed) 1.9mph (3Km/h) \\ \hline Max Traveling speed (Stowed) 0.5mph (0.8Km/h) \\ \hline Max Traveling speed (Seveed) 0.5mph (0.8Km/h) \\ \hline Maximum Dimension of working platform (LxW) 27.6ft (2.26m) \\ \hline Maximum Seveed (Seveed)/lifting seveed (Seveed)/lifting (3.94in/0.98in (100mm/25mm)) \\ \hline Max Fraveling speed (Seveed)/lifting seveed (Seveed)/lifting seveed (Seveed)/lifting (Seveed) 27.6in (700mm) \\ \hline Maximum DC Output Voltage(V) 6 \\ \hline Maximum DC Output Voltage V) 6 \\ \hline Maximum DC Output Voltage V) 6 \\ \hline Maximum DC Output Voltage V 6 \\ \hline Capacity (AH) 25A/447;75A/115 \\ \hline Maximum DC Output Voltage V 26 \\ \hline Crancity (AH) 25A/447;75A/115 \\ \hline Maximum DC Output Voltage V 26 \\ \hline$		lt	em		Parameter	
Extending size of platform3ft (0.9m)Maximum allowable working angle (forward)3°Maximum allowable working angle (backward)3°Maximum allowable working angle (backward)3°Maximum allowable working angle (backward)1.5°Max Traveling speed (Stowed)1.9mph (3Km/h)Max Traveling speed (Elevated)0.5mph (0.8Km/h)Lifting/lowering speed (S)31/40Minimum turning radius7ft (2.15m)Gradeability25%Overall lengthWith ladderVithout ladder7.9ft (2.4m)Overall width2.7ft(0.83m)Tire size (diameterxwidth)15in×5.1in 380mm×130mmDimension of working platform (L×W)7.3in(1850mm)Overall width27.6in(700mm)Wheel tread27.6in(700mm)Wheel tread27.6in(700mm)Overall heightRails Folding Rails un-foldingOverall weight4718lbs (2140Kg)BatteryOutput Voltage(V) VoltageBatteryOutput Voltage(V) VoltageMaximum DC Output Voltage30Nominal AC Input Voltage30Nominal AC Input Voltage30Maximum DC Output Voltage30Altornenvironment noise radiation< 70dBA	Maxi	mum w	orking heig	ght	32.8ft (10m)	
Maximum allowable working angle (forward)       3°         Maximum allowable working angle (backward)       3°         Maximum allowable working angle (sideward)       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)       31/40         Minimum turning radius       7ft (2.15m)         Gradeability       25%         Overall length       With ladder         Verall length       With ladder         Verall width       2.7ft(0.83m)         Tire size (diameterxwidth)       15in×5.1in 380mm×130mm         Dimension of working platform (LxW)       7.4ft×2.7ft (2.26m×0.81m)         Overall width       27.6in(700mn)         Wheel tread       27.6in(700mn)         Wheelbase (front/rear)       73in(1850mm)         Ground clearance (stowed/lifting position)       3.94in/0.98in (100mm/25mm)         Overall weight       4718lbs (2140Kg)         Battery       Output Voltage(V)       6         Capacity (AH)       25A/447;75A/115         Nominal DC Output Voltage       30         Rails Folding       <70dBA	Maxim	um hei	ight of platf	orm	26.2ft (8m)	
(forward)3Maximum allowable working angle (backward)3°Maximum allowable working angle (sideward)1.5°Max Traveling speed (Slowed)1.9mph (3Km/h)Max Traveling speed (Elevated)0.5mph (0.8Km/h)Lifting/lowering speed (S)31/40Max Traveling speed (S)31/40Max Traveling speed (S)31/40Max Traveling speed (S)31/40Max Traveling speed (S)31/40Minimum turning radius7ft (2.15m)Overall lengthWith ladderOverall width25%Overall width2.7ft(0.83m)Tire size (diameterxwidth)15in×5.1in 380mm×130mmDimension of working platform (LxW)7.4ft×2.7ft (2.26m×0.81m)Dimension of working platform (LxW)7.4ft×2.7ft (2.26m×0.81m)Ground cleararce (stowed/lifting position)3.94in/0.98in (100mm/25mm)Overall heightRails Folding (Aift (1.95m)BatteryQuitput Voltage(V)BatteryQuitput Voltage(V)ChargerMaximum DC Output VoltageChargerNominal AC Input VoltageNominal AC Input Voltage30Nominal DC Output Voltage30Nominal DC Output Voltage24Ground environment noise radiation radiation< 70dBA	Exten	iding si	ze of platfo	orm	3ft (0.9m)	
(backward)3Maximum allowable working angle (sideward)1.5°Max Traveling speed (Stowed)1.9mph (3Km/h)Max Traveling speed (Elevated)0.5mph (0.8Km/h)Max Traveling speed (S)31/40Max Traveling speed (S)31/40Minimum turing radius7ft (2.15m)Overall lengthWith ladderOverall lengthWith ladderOverall width2.7ft (2.4m)Vithout ladderTire size (diameterxwidth)15in < 5.1in 380mm 130mmDimension of wrking platform (L×W)7.4ft <2.2ft (2.26m <0.81m)	Maximum			g angle	3°	
$   1.5 \\   1.5 \\   Max Traveling speed (Stowed)   1.9mph (3Km/h) \\   Max Traveling speed (Elevated)   0.5mph (0.8Km/h) \\   Max Traveling speed (S)   31/40 \\   Minimum turing radius   7ft (2.15m) \\   Cassed (S)   Cassed (S)  $	Maximum			g angle	3°	
$ \begin{array}{ c c c c } \mbox{Max Traveling speed (Elevated)} & 0.5mph (0.8Km/h) \\ \mbox{Lifting/lowering speed (S)} & 31/40 \\ \mbox{Minimum turning radius} & 7ft (2.15m) \\ \mbox{Gradeability} & 25\% \\ \mbox{Overall length} & With ladder & 7.9ft (2.4m) \\ \mbox{Without ladder} & 7.4ft (2.25m) \\ \mbox{Overall width} & 2.7ft (0.83m) \\ \mbox{Overall width} & 2.7ft (0.83m) \\ \mbox{Tire size (diameterxwidth)} & 15in \times 5.1in \\ 380mm \times 130mm \\ \mbox{Momma 130mm} \\ \mbox{Dimension of working platform} \\ \mbox{(LxW)} & (2.26m \times 0.81m) \\ \mbox{Wheel tread} & 27.6in (700mm) \\ \mbox{Wheel base (front/rear)} & 73in (1850mm) \\ \mbox{Ground clearance (stowed/lifting content) } \\ \mbox{Overall height} & Rails Folding & 6.4ft (1.95m) \\ \mbox{Rails un-folding} & 7.6ft (2.32m) \\ \mbox{Overall weight} & 4718lbs (2140Kg) \\ \mbox{Battery} & Qutput Voltage(V) & 6 \\ \mbox{Capacity (AH)} & 25A/447;75A/115 \\ \mbox{Nominal AC Input Voltage} & 100-240VAC \\ \mbox{Voltage} & 0 \\ \mbox{Maximum DC Output Voltage} & 30 \\ \mbox{Nominal DC Output Voltage} & 30 \\ \mbox{Nominal DC Output Voltage} & 24 \\ \mbox{Ground environment noise radiation} & < 70dBA \\ \mbox{Platform environment noise radiation} & < 70dBA \\ \mbox{System pressure} & 3481psi (24MPa) \\ \mbox{Tire contact pressure} & 126.3psi (871.10KPa) \\ \end{tabular}$	Maximum			g angle	1.5°	
$ \begin{array}{ c c c c } \mbox{Lifting/lowering speed (S)} & 31/40 \\ \hline \mbox{Minimum turning radius} & 7ft (2.15m) \\ \hline \mbox{Gradeability} & 25\% \\ \mbox{Overall length} & With ladder & 7.9ft (2.4m) \\ \hline \mbox{Without ladder} & 7.4ft (2.25m) \\ \hline \mbox{Overall width} & 2.7ft (0.83m) \\ \hline \mbox{Tire size (diameterxwidth)} & 15in \times 5.1in \\ 380mm \times 130mm \\ \hline \mbox{Dimension of working platform} \\ \mbox{Ukeel tread} & 27.6in (700mm) \\ \hline \mbox{Wheel base (front/rear)} & 73in (1850mm) \\ \hline \mbox{Wheel base (front/rear)} & 73in (1850mm) \\ \hline \mbox{Ground clearance (stowed/lifting position)} & 0verall height \\ \hline \mbox{Rails Folding} & 6.4ft (1.95m) \\ \hline \mbox{Rails un-folding} & 7.6ft (2.32m) \\ \hline \mbox{Overall weight} & 4718lbs (2140Kg) \\ \hline \mbox{Rails un-folding} & 7.6ft (2.32m) \\ \hline \mbox{Overall weight} & 100-240VAC \\ \hline \mbox{Capacity (AH)} & 25A/447;75A/115 \\ \hline \mbox{Nominal AC Input Voltage} & 100-240VAC \\ \hline \mbox{Voltage} & 0 \\ \hline \mbox{Maximum DC Output Current} & 30 \\ \hline \mbox{Nominal DC Output Voltage} & 24 \\ \hline \mbox{Ground environment noise radiation} & < 70dBA \\ \hline \mbox{Platform environment noise radiation} & < 70dBA \\ \hline \mbox{System pressure} & 3481psi (24MPa) \\ \hline \mbox{Tire contact pressure} & 126.3psi (871.10KPa) \\ \hline \end{tabular}$	Max Tra	veling	speed (Sto	wed)	1.9mph (3Km/h)	
Minimum turning radius7ft (2.15m) $Gradeability$ 25%Overall lengthWith ladder7.9ft (2.4m)Overall width2.7ft (2.25m)Overall width2.7ft (0.83m)Tire size (diameterxwidth)15in×5.1in 380mm×130mmDimension of working platform (L×W)7.4ft×2.7ft (2.26m×0.81m)Dimension of working platform (L×W)7.4ft×2.7ft (2.26m×0.81m)Wheel tread27.6in(700mm)Wheelbase (front/rear)73in(1850mm)Ground clearance (stowed/lifting position)3.94in/0.98in (100mm/25mm)Overall heightRails Folding6.4ft (1.95m)Rails un-folding7.6ft (2.32m)Overall weight4718lbs (2140Kg)BatteryOutput Voltage(V)6Ground environment noise radiation30Nominal AC Input Voltage30Nominal DC Output Voltage30Nominal DC Output Voltage24Ground environment noise radiation< 70dBA	Max Tra	veling	speed (Elev	/ated)	0.5mph (0.8Km/h)	
	Lifting	g/lower	ing speed (	(S)	31/40	
	Mini	mum tı	urning radiu	IS	7ft (2.15m)	
		Grad	eability		25%	
Overall width7.4ft (2.25m)Overall width2.7ft (0.83m)Tire size (diameterxwidth)15in×5.1in 380mm×130mmDimension of working platform (L×W)7.4ft×2.7ft (2.26m×0.81m)Wheel tread27.6in(700mm)Wheel base (front/rear)73in(1850mm)Ground clearance (stowed/lifting position)3.94in/0.98in (100mm/25mm)Overall heightRails Folding Rails un-foldingOverall weight4718lbs (2140Kg)BatteryOutput Voltage(V)BatteryOutput Voltage(V)Maximum DC Output Voltage100-240VACNominal AC Input Voltage30Nominal DC Output Voltage30Nominal DC Output Voltage30Nominal DC Output Voltage24Ground environment noise radiation< 70dBA			-	dder	7.9ft (2.4m)	
Overall width2.7ft(0.83m)Tire size (diameterxwidth)15in×5.1in 380mm×130mmDimension of working platform (L×W)7.4ft×2.7ft (2.26m×0.81m)Wheel tread27.6in(700mm)Wheel tread27.6in(700mm)Wheel tread27.6in(700mm)Wheel tread27.6in(700mm)Wheel tread27.6in(700mm)Ground clearance (stowed/lifting position)3.94in/0.98in (100mm/25mm)Overall heightRails Folding Rails un-folding Rails un-folding6.4ft (1.95m) 7.6ft (2.32m)Overall weight4718lbs (2140Kg)Output Voltage(V)6BatteryOutput Voltage(V)6Maximum DC Output Current100-240VACVoltageNominal AC Input Voltage30Nominal DC Output CurrentVoltage30Platform environment noise radiation< 70dBA	Overall le	ngth	Without	ladder	7.4ft (2.25m)	
Tire size (diameterxwidth)15in×5.1in 380mm×130mmDimension of working platform (L×W)7.4ft×2.7ft (2.26m×0.81m)Wheel tread27.6in(700mm)Wheelbase (front/rear)73in(1850mm)Ground clearance (stowed/lifting position)3.94in/0.98in (100mm/25mm)Overall heightRails Folding Rails un-folding Capacity (AH)6.4ft (1.95m)Overall weight4718lbs (2140Kg)BatteryOutput Voltage(V) Capacity (AH)6Maximum DC Output Current100-240VACMaximum DC Output Current30Nominal DC Output Voltage30Nominal DC Output Voltage24Ground environment noise radiation< 70dBA	Overall wi	dth			2.7ft(0.83m)	
$ \begin{array}{c c c c } (L \times W) & (2.26m \times 0.81m) \\ \hline Wheel base (front/rear) & 73in(1850mm) \\ \hline Wheel base (front/rear) & 73in(1850mm) \\ \hline Ground clearance (stowed/lifting position) & (100mm/25mm) \\ \hline Ground clearance (stowed/lifting position) & 6.4ft (1.95m) \\ \hline Rails un-folding & 7.6ft (2.32m) \\ \hline Overall weight & 4718lbs (2140Kg) \\ \hline Overall weight & 0utput Voltage(V) & 6 \\ \hline Battery & 0utput Voltage(V) & 6 \\ \hline Battery & 0utput Voltage(V) & 6 \\ \hline Capacity (AH) & 25A/447;75A/115 \\ \hline Maximum DC Output Voltage & 100-240VAC \\ \hline Maximum DC Output Current & 100-240VAC \\ \hline Maximum DC Output Voltage & 30 \\ \hline Nominal DC Output Voltage & 3481psi (24MPa) \\ \hline Ground environment noise radiation & <70dBA \\ \hline System pressure & 3481psi (24MPa) \\ \hline Tire contact pressure & 126.3psi (871.10KPa) \\ \hline \end{array}$	Tire s	ize (dia	ameter×wid	lth)		
Wheel tread27.6in(700mm)Wheel tread27.6in(700mm)Wheel base (front/rear)73in(1850mm)Ground clearance (stowed/lifting position)3.94in/0.98in (100mm/25mm)Overall heightRails Folding6.4ft (1.95m)Overall weight4718lbs (2140Kg)Overall weight4718lbs (2140Kg)Output Voltage(V)6Battery25A/447;75A/115Nominal AC Input Voltage100-240VACMaximum DC Output Current30Nominal DC Output Voltage24Ground environment noise radiation< 70dBA	Dimens			tform		
Wheelbase (front/rear)73in(1850mm)Ground clearance (stowed/lifting position)3.94in/0.98in (100mm/25mm)Overall heightRails Folding Rails un-folding6.4ft (1.95m) 7.6ft (2.32m)Overall weight4718lbs (2140Kg)BatteryOutput Voltage(V)6BatteryCapacity (AH)25A/447;75A/115Maximum DC Output Current100-240VACMaximum DC Output Current30Nominal DC Output Voltage24Ground environment noise radiation< 70dBA		Whee	el tread		( )	
$ \begin{array}{c c c c c c } \hline Ground clearance (stowed/lifting position) & 3.94in/0.98in (100mm/25mm) \\ \hline & (100m/25mm) \\ \hline & $	Whe	eelbase	e (front/real	r)	· · ·	
Rails Folding6.4ft (1.95m)Overall heightRails un-folding7.6ft (2.32m)Overall weight4718lbs (2140Kg)BatteryOutput Voltage(V)6BatteryOutput Voltage(V)6BatteryNominal AC Input Voltage100-240VACChargerMaximum DC Output Current30Nominal DC Output Voltage24Ground environment noise radiation< 70dBAPlatform environment noise radiation< 70dBASystem pressure3481psi (24MPa)Tire contact pressure126.3psi (871.10KPa)	Ground			/lifting		
Overall height         Rails un-folding         7.6ft (2.32m)           Overall weight         4718lbs (2140Kg)           Battery         Output Voltage(V)         6           Capacity (AH)         25A/447;75A/115           Nominal AC Input Voltage         100-240VAC           Maximum DC Output Current         30           Nominal DC Output Voltage         24           Ground environment noise radiation         <70dBA	<b>a</b>		,	olding	· /	
Overall weight4718lbs (2140Kg)BatteryOutput Voltage(V)6BatteryCapacity (AH)25A/447;75A/115ChargerNominal AC Input Voltage100-240VACMaximum DC Output Current30Nominal DC Output Voltage24Ground environment noise radiation< 70dBA	Overall h	eight		-	7.6ft (2.32m)	
Battery     Output Voltage(V)     6       Capacity (AH)     25A/447;75A/115       Nominal AC Input Voltage     100-240VAC       Maximum DC Output Current     30       Nominal DC Output Voltage     30       Nominal DC Output Voltage     24       Ground environment noise radiation     < 70dBA	Overall we	eight		J		
Battery     Capacity (AH)     25A/447;75A/115       Capacity (AH)     25A/447;75A/115       Nominal AC Input Voltage     100-240VAC       Maximum DC Output Current     30       Nominal DC Output Voltage     24       Ground environment noise radiation     <70dBA		Ou	tput Voltag	je(V)		
Nominal AC Input Voltage     100-240VAC       Charger     Maximum DC Output Current     30       Nominal DC Output Voltage     24       Ground environment noise radiation     < 70dBA	Battery	(	Capacity (A	(H)	25A/447;75A/115	
Maximum DC Output Current     30       Nominal DC Output Voltage     24       Ground environment noise radiation     < 70dBA		No		nput	100-240VAC	
Nominal DC Output Voltage24Ground environment noise radiation< 70dBA	Charger	Maximum DC Outpu			30	
Ground environment noise radiation< 70dBAPlatform environment noise radiation< 70dBA		Nor	minal DC C	Output	24	
radiation< 700BASystem pressure3481psi (24MPa)Tire contact pressure126.3psi (871.10KPa)				adiation	< 70dBA	
System pressure3481psi (24MPa)Tire contact pressure126.3psi (871.10KPa)		nvironi	ment noise		< 70dBA	
Tire contact pressure126.3psi (871.10KPa)	System pr	essure		3481psi	i (24MPa)	
		-				

#### Table 30 - AS2646 Operating Specifications

#### (Indoor Outdoor)

	lte	Parameter		
Maximu		upant capa	acitv	2
	num w			
		ght of platf		26.2ft (8m)
		ze of platfo		3ft (0.9m)
Maximum	allowa	•		3°
Maximum		ble working ward)	g angle	3°
Maximum		ble working ward)	g angle	1.5°
Max Trav	veling	speed (Sto	wed)	1.9mph (3Km/h)
Max Trav	eling s	peed (Elev	/ated)	0.5mph (0.8Km/h)
Lifting	/loweri	ng speed (	(S)	35/40
Minin	num tu	Irning radiu	IS	7.5ft(2.3m)
	Grade	eability		25%
Overall lor	arth	With la	dder	8ft (2.42m)
Overall ler	igui	Without	ladder	7.4ft (2.25m)
Overall wid	lth			3.9ft(1.18m)
Dimensio		vorking plat (W)	tform	7.4ft×3.8ft (2.26m×1.15m)
	Whee	l tread		41in(1040mm)
Whe	elbase	(front/rea	-)	73in(1850mm)
Ground cl		ce (stowed ition)	/lifting	3.94in/0.79in (100mm/20mm)
Overall he	vight	Rails Fo	olding	5.7ft (1.73m)
Overall he	igni	Rails un-	folding	7.5ft (2.30m)
Overall wei	ight			<mark>5203lbs (2360Kg)</mark>
Pottony	Ou	tput Voltag	je(V)	6
Battery	C	Capacity (A	.H)	25A/488;75A/132
	Nomi Volta		Input	100-240VAC
Charger	Maxir Curre		Output	30
	Nomi Volta	nal DC ge	24	
Ground environment	vironm	< 70dBA		
Platform environment noise radiation				< 70dBA
System pressure 348				i (24MPa)
Tire contac	t proce		177 76r	osi (1225.62KPa)
The contac	n press	sule	-	sf (10.41KPa)



#### Table 31 - AS3246 Operating Specifications

		)	
	Iten	Parameter	
Maximum	working I	neight	39.4ft (12m)
Maximum	height of	platform	32.8ft (10m)
Extending	size of pl	latform	3ft (0.9m)
Maximum (forward)	allowable	e working angle	3°
Maximum (backwaro		e working angle	3°
Maximum (sideward		e working angle	1.5°
Max Trave	eling spee	ed (Stowed)	1.9mph (3 Km/h)
Max Trave	eling spee	ed (Elevated)	0.5mph (0.8Km/h)
Lifting/low	ering spe	ed (S))	58/48
Minimum	turning ra	dius	7.5ft (2.3m)
Gradeabil	ity		25%
Overell le	aath	With ladder	8.1ft (2.47m)
Overall le	ngun	Without ladder	7.4ft (2.25m)
Overall wi	dth		3.9ft (1.18m)
Dimension (L×W)	n of worki	ng platform	7.4ft×3.8ft (2.26m×1.15m)
Wheelbas	e (front/re	ear)	73in (1850mm)
Ground cl position)	earance (	stowed/lifting	3.94in/0.79in (100mm/20mm)
		Rails Folding	6.1ft (1.86m)
Overall he	eight	Rails un- folding	8ft (2.43m)
Overall w	eight		6614lbs (3000Kg)
Detterr	Outp	out Voltage(V)	6
Battery	Capacit	y (min)	25A/488;75A/132
	Nomina Voltage	I AC Input	100-240VAC
Charger	Maximu Current	m DC Output	30
	Nomina Voltage	I DC Output	24
Ground e	nvironmer	< 70dBA	
Platform e radiation	environme	< 70dBA	
System p	ressure	3481psi 24(MPa)	
Tire Conta	act Pressu	163.3psi 1225.62KPa	
Ground p	ressure		247.5psf 11.85KPa

(In door)						
ltem			Parameter			
Maximum	occupant	capacity	2			
Maximum	working h	neight	46ft (14m)			
Maximum	height of	platform	39.4ft (12m)			
Extending	size of pl	atform	3ft (0.9m)			
Maximum allowable working angle (forward)			3°			
Maximum (backwarc		working angle	3°			
Maximum (sideward		working angle	1.5°			
Max Trave	eling spee	d (Stowed)	1.9mph (3Km/h)			
		d (Elevated)	0.5mph (0.8Km/h)			
Lifting/low	ering spe	ed (S)	65/60			
	-	dius (exterior)	7.5ft (2.3m)			
Gradeabil	ity		25%			
Overall ler	arth	With ladder	8.1ft (2.47m)			
Overall lei	igin	Without ladder	7.4ft (2.25m)			
Overall wi	dth		3.9ft (1.18m)			
Dimensior (L×W)	n of workii	ng platform	7.4ft×3.8ft (2.26m×1.15m)			
Wheelbas	e (front/re	ar)	73in(1850mm)			
Ground cleposition)	earance (	stowed/lifting	3.94in/0.79in (100mm/20mm)			
		Rails Folding	6.5ft (1.99m)			
Overall he	eight	Rails un- folding	8.4ft (2.56m)			
Overall we	eight		6967lbs (3160Kg)			
Battery	Outp	ut Voltage(V)	12			
Dallery	Capacity	y (min)	25A/280;75A/70			
	Nom	inal AC Input Voltage	100-240VAC			
Charger	Maxim	um DC Output Current	30			
	Nomi	nal DC Output Voltage	24			
Ground environment noise			< 70dBA			
Platform environment noise radiation			< 70dBA			
System pr	essure		3481psi (24MPa)			
Tire Conta	act Pressu	ire	190.98psi (1316.78KPa)			
Ground pr	essure		280.07psf (13.41KPa)			

Table 33 – AS4650 Operating Specifications (In door/ Out door)							
	lte	m		Parameter			
Maximum	working	j lr	n door	51.8ft (15.8m)			
height		O	ut door	32.8ft (10m)			
Maximum	height o	of Ir	n door	45.3ft (13.8m)			
platform		O	ut door	26.2ft (8m)			
Extending	size of	platform		<mark>3ft (0.9m)</mark>			
		ble workin backward)		<mark>3°</mark>			
	ı allowa	ble workin		<mark>1.5°</mark>			
	ling spe	ward) ed of mac	hine	1.9mph (3Km/h)			
		position) of machine	e (lifting				
	posi	tion)		0.5mph (0.8Km/h)			
_	-	ng speed		80/65			
	_	radius (e	xterior)	9.35ft (2.85m) 25%			
Gradeabil		With Ia	ddor	9.2ft (2.80m)			
Overall le	ength	Without		8.7ft (2.65m)			
Overall wi	dth	millout		4.3ft(1.3m)			
Tire size (		vrywidth)		15in×5.1in			
		orking pla	tform	380mm×130mm 8.66ft×3.7ft (2.64m×1.12m) 87.4in(2220mm) 4.1in/0.79in (105mm/20mm)			
	(L×	:W)					
Wheelbas		(rear) clearance					
		ng positio	<b>n)</b>				
Overall h	eiaht	Rails F	olding	<mark>6.4ft (1.94m)</mark>			
	ioigint	Rails un	-folding	9ft (2.74m)			
Overall we				7870lbs (3570Kg)			
Battery	Outpu	t Voltage(	<b>V)</b>	<mark>12</mark>			
Dattery	Capad	city (AH)		25A/280;75A/70			
	Nomir Voltaç		Input	100-240VAC			
Charger	Maxin	num DC	Output	30			
	Curre Nomir		Output	24			
Ground er	Voltag						
radiation				<mark>&lt; 70dBA</mark>			
Platform environment noise < 70dBA radiation < 70dBA				< 70dBA			
System pr	ressure	i (25MPa)					
Tire contact pressure226.7psi (1563.13KPa)							
Ground pr	ressure		231.4ps	of (11.08KPa)			

## Table 33 – AS4650 Operating Specifications 10.1

## 10.1 Hydraulic Oil Specifications



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 46 antiwear hydraulic oil: minimum air temperature > 15.8°F (-9°C);
- L-HV 46 low temperature hydraulic oil: (-33℃)-27.4°F < minimum air temperature≤15.8°F (-9℃);
- L-HS 46 Ultralow temperature hydraulic oil: (-39°C)-38.2°F < minimum air temperature≤-27.4°F (-33°C)
- 10# aviation hydraulic oil: minimum air temperature ≤-38.2°F(-39°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).

## 

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- 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 stopto-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 stopto-stop, and driven: is 5.8 gal. (22L).



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						
ltem	Description	Routine inspection	I	II	111	IV	v	
	Check battery capacity	•	•	•	•	•	•	
	Check that all buttons/switches on the PCU panel function normally	•	•	•	•	•	•	
	Ensure the PCU emergency stop switch is secure	٠	•	•		•	•	
	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	٠	•	•	•	•	•	
Electric system	Check if the PCU wiring harness is crimped or damaged	٠	•	•	•	•	•	
	Check if the pressure switch wiring is secure and not damaged	٠	•	•		•	•	
	Check if the lowering solenoid valve is secure and not damaged	٠	•	•	•	•	•	
	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	•	•	•		•	•	



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	Description	Maintenance Level					
Item		Routine inspection	I	II		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	٠	•	•	•	•	•
	Ensure the motor, motor controller, relay and ECU wirings are secure and not damaged	•	٠	•	•	•	•
	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	•	•	•	•	•	•
L hadread be	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	,		



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		Maintenance Level					
ltem	Description	Routine inspection	I	II	111	IV	v
	Hydraulic oil return filter element		Ev	ery 6 m	onths		
	Check the hydraulic oil tank vent cap for leaks	•	•	•	•	•	•
	Replace the hydraulic oil tank vent cap			•	•	•	
	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	٠					
	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		0	nce a m	onth		



## Hydraulic Oil Specifications

Use temperature	Oil type
Minimum air temperature >15.8°F(-9°C)	L-HM 46 antiwear hydraulic oil
(-33℃)-27.4°F <minimum (-9℃)<="" air="" td="" temperature≤15.8°f=""><td>L-HV 46 low temperature hudraulic oil</td></minimum>	L-HV 46 low temperature hudraulic oil
(-39°C)-38.2°F < minimum air temperature ≤-27.4°F (-33°C)	L-HS 46ultralow temperature hudraulic oil
Minimum air temperature ≤-38.2°F(-39°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.

## Mobile Elevating Work Platform Operation and Safety Manual

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