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# **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** 

### / WARNING

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

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

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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.

## . WARNING

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

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

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

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

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

# **Safety Precautions**

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

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

The safety measures are specified in Chapter 1 Safety.

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

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

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

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



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



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



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



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# **Chapter 1 Safety**



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



Operation of the machine is forbidden, unless:

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

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

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

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

The workstation is inspected and tested.

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

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

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

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



#### Classification of hazards

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

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

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



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



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





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



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

#### 1.1 Description

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

# 1.2 Maintenance of Safety Signs and Decals

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

#### 1.3 Workstation Safety



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

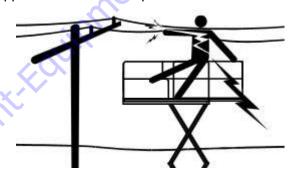


Table 1 Minimum Safe Approach Distance

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

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

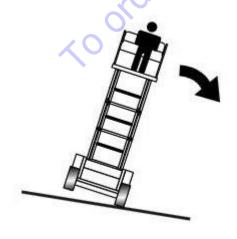
- Stay away from the machine if it contacts a live electric wire. Do not touch or operate the machine from the ground or the platform before cutting off the power supply.
- Do not operate the machine in inclement weather.
- Do not use the machine as a ground for welding. This could damage electrical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

# / Tip Over Hazard

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

Refer to Chapter 10 – Specifications for model capacities.

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



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



will reduce the stability of machine.

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

## / Caution

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

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

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

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

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



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

Table 2 Battery Weights

145.02 24	ttory worging
Model	Battery weight
SS1230E	55IIb (25Kg)
AS1930	
AS1930E	
AS1932	60lba (2014a)
AS1932E	62lbs (28Kg)
AS2632	
AS2632E	]
AS3246	
AS3246E	66lbs (30Kg)
AS2646	
AS2646E	4 0

Model	Battery weight
SS1432E	
SS1932E	96lbs (30Ka)
AS4046	86lbs (39Kg)
AS4046E	
AS4650	92lba (27Ka)
AS4650E	82lbs (37Kg)

The minimum weight of battery tray (including the

battery) on the chassis varies with the model type as detailed in the following table.

Table 3 Battery Tray Weights

Model	Weight of battery tray and batteries
SS1230E	173lbs(78.3Kg)
SS1432E	224lba/406l/a)
SS1932E	234lbs(106Kg)
AS1930	co <sub>l</sub>
AS1930E	322lbs(146Kg)
AS1932	022103(1401(g)
AS1932E	
AS2632	331lbs(150Kg)
AS2632E	33 Hbs(130Kg)
AS3246	
AS3246E	346lbs(157Kg)
AS2646	340lb5(137 Kg)
AS2646E	
AS4046E	425lbs (193Kg)
AS4046	+23103 (183Ng)
AS4650	478lbs (216.6Kg)
AS4650E	470105 (210.0Ng)

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



surface or vehicle.

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

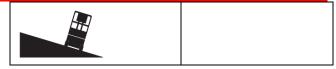
# \ Crushing Hazards

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

# Hazards When Operating on a 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.

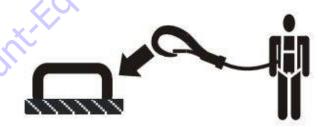
Maximum slope rating,	
stowed position:	250/ (4.4%)
	25%(14°)
Maximum side slope	259/ (4.4%)
rating, stowed position:	25%(14°)



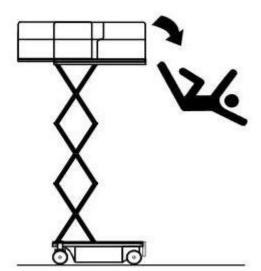
Note: Slope rating is subject to ground conditions and adequate traction.



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



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





- Do not climb down the platform scissors when the machine is elevated.
- Keep the platform floor free from debris.
- Shut down the platform door before operation.
- Do not operate the machine if the guard rail is not correctly installed.
- Do not enter or exit the platform unless the machine is in the stowed position.

## / Crash Hazards

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



- Pay attention to any crushing hazards when holding the guard rail of the platform.
- The operator must follow the manufacturer's service rules for personal protection equipment, the service rules for the workstation, and the laws and regulations made by the local government.
- Observe and follow the traveling arrow and the turning direction arrows on the platform controller and the platform's label and nameplate.
- Do not operate the machine on the line of any crane or movable overhead machine, unless the crane controller is locked and/or the potential bump prevention measure is taken.
- Dangerous driving or careless operation when running the machine are strictly prohibited.
- The platform can be lowered only



when there are no personnel or barriers below the platform.

 Limit travel speed according to ground conditions, traffic, road grade, personnel position, or any other possible bump factors.

**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.

**Explosion and Fire Hazards** 

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

Machine Damage Hazards

- Do not use a damaged or malfunctioning machine.
- Make a complete operational and function check before each shift.
   Attach a tag on a damaged or malfunctioning machine immediately and stop all operation.
- Be sure to perform all maintenance

- and operation according to the instructions in this manual.
- Be sure to keep all labels and decals at the appropriate locations. Replace any that are not legible.
- Be sure to keep this manual in the manual box of the platform.

Personal Injury Hazards

- Do not operate the machine if it is leaking hydraulic oil. Leaking hydraulic oil under pressure can pierce or burn skin.
- Severe injury may result if any component below the cover is touched by mistake. Only trained technicians can perform maintenance to the components under the cover. The operator shall only perform maintenance before the pre-operation inspection. Be sure to keep all compartments closed and locked during operation of the machine.

#### 1.4 Battery Safety

/ Combustion hazards

 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.

Component damage hazard

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

Electrocution/Burn hazards

 The battery charger can be connected to the grounded AC three-wire power socket.

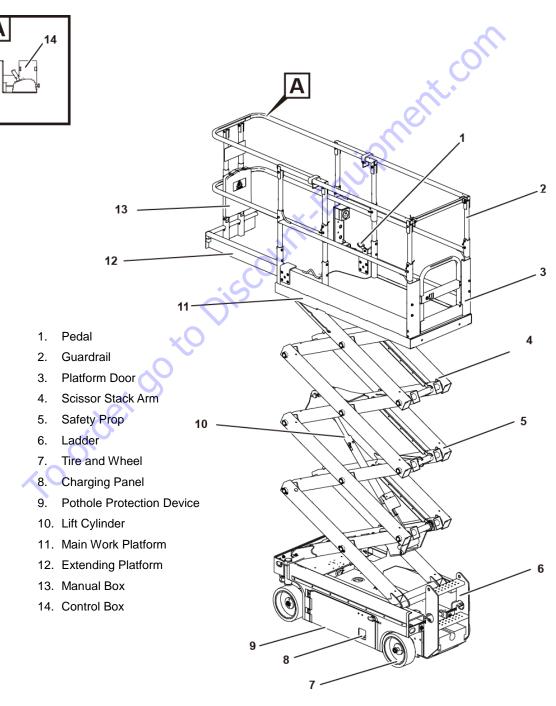
- On a daily basis, check to see if the wire cable, electric cable and wiring are damaged. Replace the damaged items before the operation.
- Take measures to prevent electric shock from touching the battery terminals. When working on the electrical circuits, remove all jewelry and metallic objects. The 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.
- 3) Rotate the key switch to the "OFF" position and pull out the key, to avoid unauthorized use.
- 4) Charge the battery
- Disconnect and remove the platform control box
- 6) Store in a safe location

# **Chapter 2 Machine Nomenclature**

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



# **Chapter 3 Controls**

#### 3.1 Ground Controls

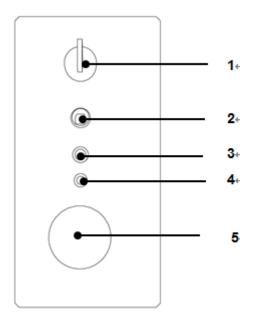


Fig -3.1

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

#### 3.1.1 Key Switch

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

# / Notice

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

#### 3.1.2 Emergency Stop Switch

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



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

#### 3.1.3 Platform Lift Switch

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



## 3.2 Platform Controls

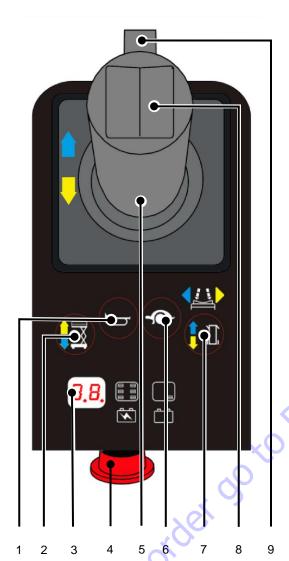


Fig-3.1(If equipped)

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

#### 3.2.1 Horn Button

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

#### 3.2.2 Lift Switch

Pressing this switch activates the lift function for the platform.

#### 3.2.3 Display

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

Table 4-Data on the Display

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

#### 3.2.4 Emergency Stop Switch

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



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



is pressed.

#### 3.2.5 Drive/Lift Control Lever

#### Drive function:

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

#### Lift function:

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



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



If using emergency lowering, the alarm will not beep.

#### 3.2.6 Drive Speed Button

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

#### 3.2.7 Drive Function Button

Pressing this button activates the drive function.

#### 3.2.8 Steer Switch

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

#### 3.2.9 Enabling Switch

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

# 3.2.10 Indoor or outdoor mode selection (If equipped)

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



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



/! Warning : In case of indoor mode,

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

# **Chapter 4 Pre-Operation Inspection**



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

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



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

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

#### 4.1 Basic Principles

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

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

#### 4.2 Pre-Operation Inspection

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

proper oil level. Go through the label.

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

- k) Drive motors.
- 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.
- s) Keep the chassis battery tray and oil pump tray closed and locked. Engage the battery disconnect switch.



If the platform must be elevated to inspect any machine components, keep the safety prop in the correct position. Refer to Chapter 7 – Operating Instructions.

# **Chapter 5 Workstation Inspection**

## ✓ Warning

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

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

## **Notice**

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

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

## 5.1 General Information

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

#### **5.2 Workstation Inspection**

Be aware of the following hazards:

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

# **Chapter 6 Function Test**

# **⚠** Warning

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

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

The machine is used as described in this manual.

## 6.1 General Information

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

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

#### **6.2 Function Test**

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

# 6.3 Tests from the Ground Controls

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

# 6.4 Test the Emergency Stop Switch

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

# 6.5 Test of Lifting/Lowering Function



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

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

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

# 6.6 Emergency Lowering Function Test

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

#### 6.7 Platform Controller Test

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

#### 6.8 Horn Test

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

# **6.9 Lift Function and Function Enable Switch Test**

- Do not press the enable switch on the control handle.
- Slowly move the control handle forward or backward. Result: All lift functions shall not be operational.
- 3) Press the lift function selector button.
- 4) Press the enable switch on the control handle.
- Slowly move the control handle backward.
   Result: The platform shall elevate and the pothole guards shall be deployed.
- 6) 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.
- 3) Press the rocker switch on top of control handle according to the direction indicated by leftward arrows on the control panel. Result: The machine will turn left.
- 4) Press the rocker switch on top of the control handle according to the direction indicated by rightward arrows on the control panel. Result: The machine will turn right.

# 6.11 Driving and Braking Function Test

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



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

#### **6.12 Driving Function Test**

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

**Table 5 - Pothole Deployment Height When Driving** 

Model	Height
AS1930	
AS1930E	4.2ft (4.2m)
AS1932	4.3ft (1.3m)
AS1932E	
AS2632	6 2# (1 0m)
AS2632E	6.2ft (1.9m)
AS3246	<0/
AS3246E	6 2ft (1.0m)
AS4046	6.2ft (1.9m)
AS4046E	
SS1230E	6.56ft (2m)
SS1432E	0.3011 (2111)
AS2646	7.54# (2.20m)
AS2646E	7.51ft (2.29m)
SS1932E	7.97ft (2.43m)
AS4650	9.2ft (2.52m)
AS4650E	8.3ft (2.52m)

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

# 6.13 Operation of Tilt Sensor Test

## / Notice

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

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

**Table 6- Drive Cutout Height When Tilted** 

Model	Height
AS1930	XO.
AS1930E	5.6ft (1.7m)
AS1932	5.611 (1.7111)
AS1932E	76/
SS1230E	6.56ft (2m)
SS1432E	0.3011 (2111)
AS2632	
AS2632E	
AS3246	6.9ft (2.1m)
AS3246E	0.911 (2.1111)
AS4046	
AS4046E	
SS1932E	
AS2646	8.53ft (2.6m)
AS2646E	
AS4650	9.2ft (2.8m)

Model	Height
AS4650E	9.2ft (2.8m)

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

#### 6.14 Pothole Guard Test



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

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

Table 7 - Pothole Deployment Height When Lifting



Model	Height
AS1930	
AS1930E	4.24 (4.2 )
AS1932	4.3ft (1.3m)
AS1932E	
AS2632	6.2# (4.0m)
AS2632E	6.2ft (1.9m)
AS3246	
AS3246E	6.2# (4.0m)
AS4046	6.2ft (1.9m)
AS4046E	
SS1230E	6 F6# (2m)
SS1432E	6.56ft (2m)
AS2646	7.545 (0.00.)
AS2646E	7.51ft (2.29m)
SS1932E	7.97ft (2.43m)
AS4650	0.04 (0.50)
AS4650E	8.3ft (2.52m)

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

. Table 8 - Pothole Guard Not Deployed Alarm Height

Model	Height
AS1932E	4.0ft (1.5m)
AS1932	4.9ft (1.5m)
SS1230E	6 F6ft (2m)
SS1432E	6.56ft (2m)
AS2632	
AS2632E	
AS3246	6.9ft (2.1m)
AS3246E	· 0/1
AS4046	6
AS4046E	6.9ft (2.1m)
SS1932E	
AS2646	8.53ft (2.6m)
AS2646E	
AS4650	0.46 (2.79)
AS4650E	9.1ft (2.78)

Lower the platform and remove the blocks.

# **Chapter 7 Operating Instructions**

# **⚠** Warning:

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

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

#### 7.1 General Information

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

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

#### 7.2 Emergency Stop

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

#### 7.3 Emergency Lowering

Pull the emergency lowering control button outward.

# 7.4 Operation from the Ground Controls

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

## 7.5 Platform Positioning

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

# 7.6 Operation from the Platform Controls

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

#### 7.7 Platform Positioning

- 1) Press the lift function selector switch.
- 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.
- The status of the battery pack will affect machine performance.
- 7) When the battery level indicator lamp flashes, driving speed and functional speed of machine will be reduced.



## 7.10 Drive Speed Option

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

#### 7.11 Using platform controller to drive the machine on the ground

- 1) Keep a safe distance between the operator, machine, and any stationary object.
- 2) 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	(%)	
	90-100	The battery
	90-100	capacity is full
	co <sup>s</sup>	Percentage of
_ =	70	remaining
	eil	battery capacity
		Percentage of
	50	remaining
		battery capacity
		Percentage of
	30	remaining
		battery capacity
		The battery
	20	must be
		charged
		The battery
	10	capacity is very
		low



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

## 7.12 Driving on a slope

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

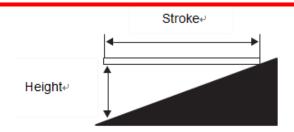
Maximum slope rating,	250//4.4° )	
stowed position:		
	25%(14°)	
Maximum side slope rating,		
stowed position:	250/(4.4° )	
	25%(14°)	

Note: Slope rating is subject to ground conditions with one person in the platform and adequate traction.

Additional platform weight may reduce slope rating.

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

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



Stroke=3.6m/11.8ft

lifting height=0.3m/1ft

0.3÷3.6=0.083=8.3%

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

#### 7.13 Using the Safety Prop

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

Model	Height
SS1230E	
SS1432E	
AS1930	7 Oft (2 4m)
AS1930E	7.9ft (2.4m)
AS1932	
AS1932E	
SS1932E	9.09ft (2.77m)
AS2632	
AS2632E	10.5ft (3.2m)
AS2646	
AS2646E	



AS3246	
AS3246E	
AS4046	
AS4046E	12.1ft (4m)
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.
- 3) Lower the platform height until the safety prop completely contacts the shaft tube. Keep the platform away from the movable parts during the lowering process.

# **Danger**

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

## 7.14 How to Stow the

#### Guardrail

- On models SS1230E/SS1432E/SS1932E/AS1930/AS1930E/AS1932 / AS1930E/AS1930E/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.
- 3) Remove the M-shaped fixed seat between

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

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

# 7.15 How to Erect the Guardrail

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

# 7.16 Extending and Retracting the Extending Platform Deck

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



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

### 7.17 Power Supply Switch

#### 1. DC power switch (If equipped)



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

SCOUNT: EQUIPMENT. COM Pull out the DC power switch and power supply of the whole machine will be connected.

#### 2. Anderson connector (if equipped)





Connect

Disconnect



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

# 7.18 Error Codes



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

Table 10 - Error Codes

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



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



84	Motor controller short circuit error Stop lifting and running		
85	Brake release switch error	Alarm only	
86	Brake release not open error	Alarm only	
87	Brake application failure	Alarm only	
89	Motor protection open error	Stop lifting and running	
90	Alarm of exceeding 90% load	Alarm only	
91	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	ty limit" error Stop lifting and running	

# Table 11 - Troubleshooting Guide

Disastan	Description (1997)		
Display	Description		
01	System initialization error: The ECU may have fault, replace the ECU.		
02	System communication error: Check connection between the communication line and other cables. If fault still exists, please replace the PCU or the ECU.		
03	Invalid option setting error: Set proper options for the machine		
04	The selected machine code is not within the application range, make selection again based on the model		
06	Prompt of successful release of the parameter: Restart it		
07	Determine whether the GPS platform issues a car lock command		
08	Prompt of successful release of calibration data: Restart it		
09	Whether the function bit is not configured		
12	Chassis lifting or lowering button opening error during start: Check the wiring of the toggle switch or check whether the toggle switch is jammed.		
18	Pothole protection error: Check whether the pothole protection is activated, and check the pothole protection limit switch. Check the wiring of the switch, lower limit switch and wiring.		
27	Check that the proportional valve is wired correctly.		
31	Pressure sensor error: Check the sensor wiring and the sensor. Check to confirm that the correct machine option with overload detection is selected.		
32	Angle sensor error: Check the sensor wiring and the sensor. Check to confirm that the correct machine option with overload detection is selected.		
33	1412 light load mode unsuccessful overload weight function data calibration error: Carry out weight calibration again.		
35	Check whether the calibration process is reversed		
36	Check whether the vehicle voltage is too low and whether it needs to be charged.		
38	Error of unsuccessful overload weight function calibration: Carry out weight calibration again.		
39	Too low level of the battery: Check the battery level and fill the electrolyte if liquid level is too low. Check whether the liquid level switch is installed correctly.		



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



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

#### Historical error status

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

# Chapter 8 Transport and Lifting Instructions

# 

#### Obey these instructions.

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

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

### 8.1 Releasing the Brake



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

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

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



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



#### After brake release operation:

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



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



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



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

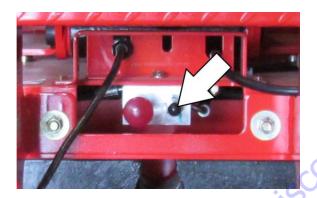


- ④ Repeat the above procedure on opposite drive motor. With both drive motor brake released the machine can be moved manually.
- ⑤After moving the machine, reinstall both drive motors to the original conditions.

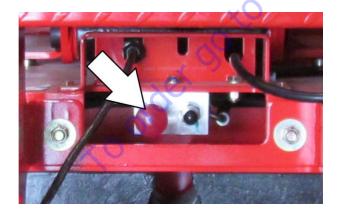


# **Brake Release Operation (For hydraulic drive models)**

- 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.



- ©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.
- 4) Ensure the front and rear wheels are securely chocked and the machine is inspected to ensure there are no loose or unsecured parts.
- Secure the machine on the transport surface using the tie down areas on the chassis.



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

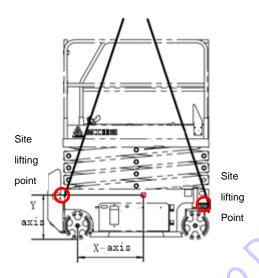


strap before transport



#### Obey the following instructions.

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



**Table 12 - Center of Gravity** 

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

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

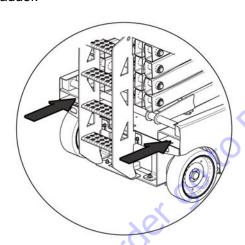
 Only personnel qualified in forklift operation qualification are permitted to load and unload the machine with a forklift.



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

#### 8.3 Loading the Machine with a Forklift

- 1) 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.
- 3) 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.
- 6) 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.



#### Notice

# 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.
- 3) 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.

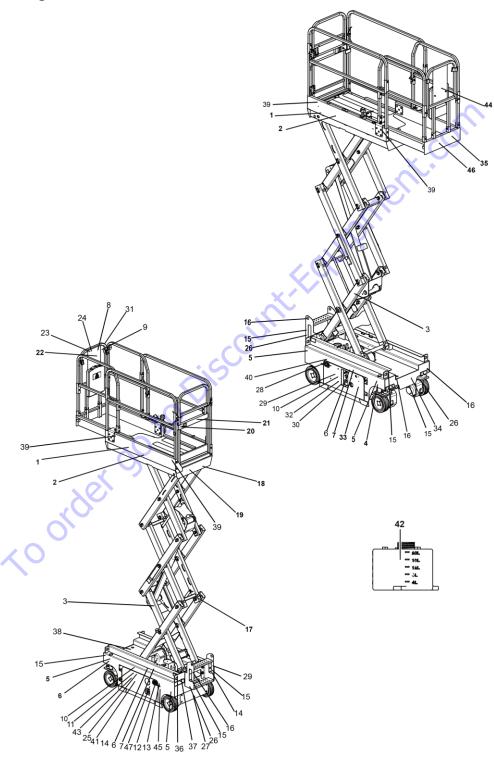
### 8.5 Parking and Storage

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.
- 3) 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.
- 6) 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

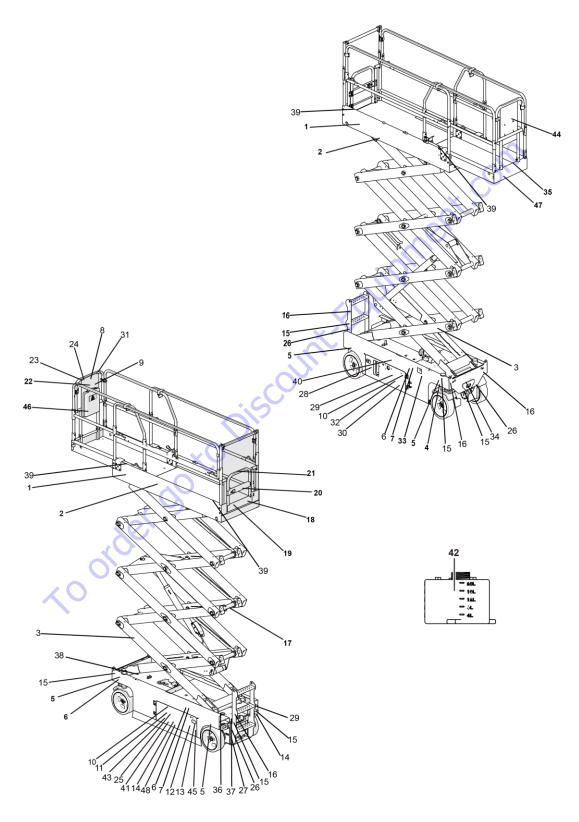
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# SS1432E /SS1932E Decal Diagram





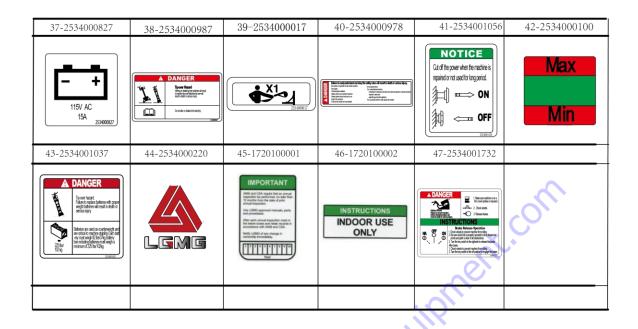
#### SS1432E/SS1932E Decal List

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

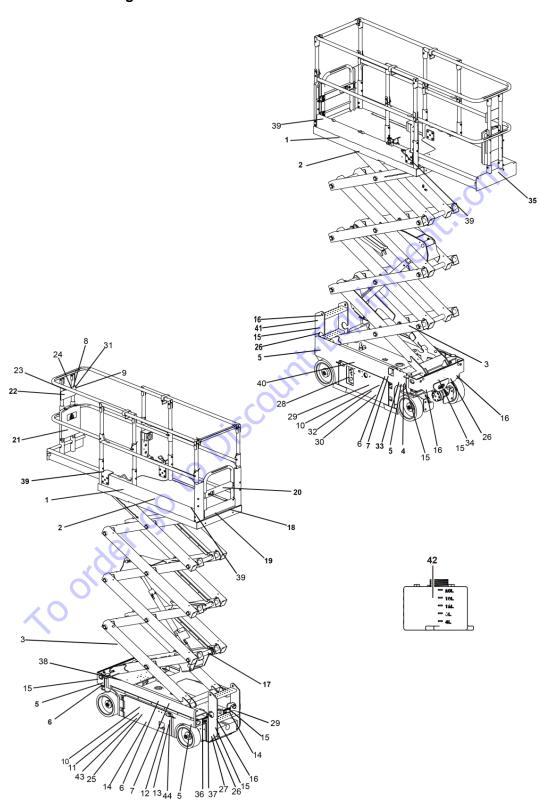
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#### AS1930E/AS1932E Decal Diagram



#### 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
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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

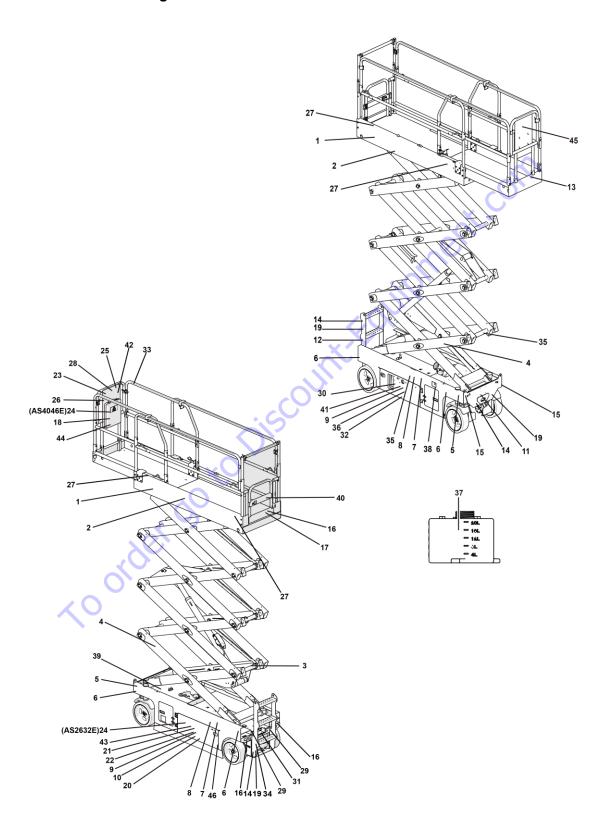
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	ordero	o to Disc	OUNTERCH		



#### AS2632E/AS4046E Decal Diagram

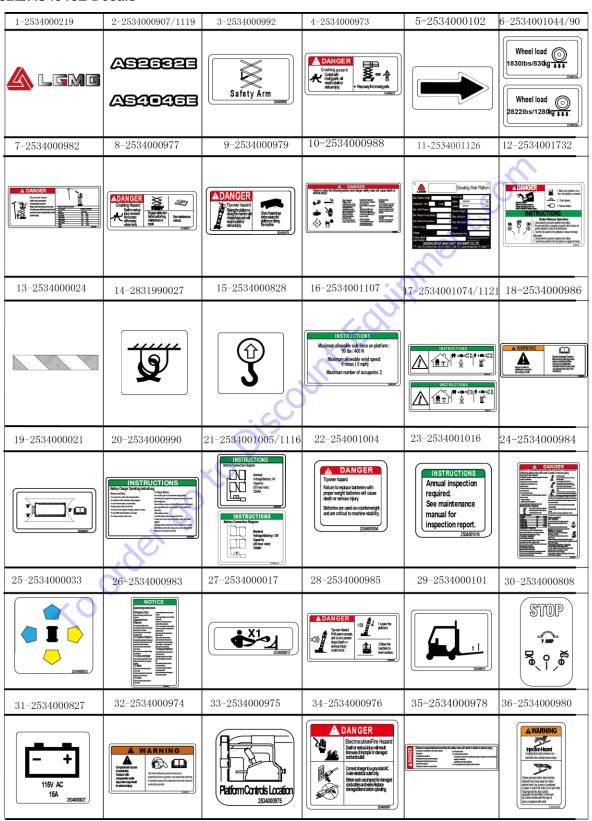




#### AS2632E/AS4046E Decal List

Item #	Description	Item #	Description
	-		-
1	Company Logo	25	Arrow indication sign
2	Model identification	26	Notices indication
3	Forklift safety arm sign	27	Lanyard Anchorage Point
4	Stay away from machine sign	28	Reduce platform warning sign
5	Direction indicator sign	29	Forklift Fork Position
6	Wheel load capacity sign	30	Indicator for lower control panel
7	Electric shock hazard	31	Battery charging sign
8	Pressure hazard identification	32	Attention in overhaul
9	Close the chassis bracket warning	33	Suspension position sign
	sign		il P
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
	0		sign
20	Battery charging sign	44	Indoor Only
21	Battery connection indicator	45	Company Logo
	identification		
22	Warning sign	46	Annual Inspection
23	Annual inspection instruction		
24	Safety rules description sign		

#### AS2632E/AS4046E Decals

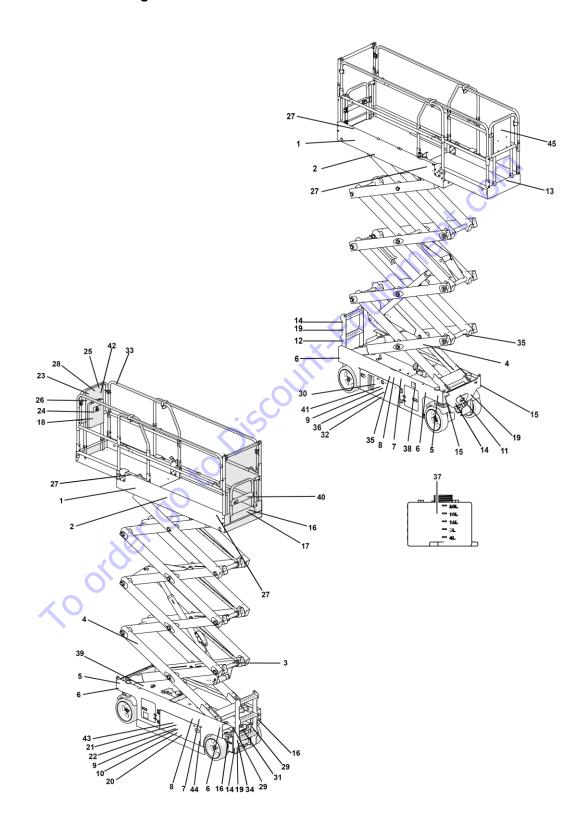




37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	DANGER Those Vised There is the first individual and a state of the st	Total State	253400996	If Operator's Menual is missing contact local LLSMG distributor or LGMG lord usines 2834001016
43-2534001038	43-2534001117	44-1720100002	45-2534000220	46-1720100001	
A DANGER  [Floor house of thirds with years of third with years of thirds with years of third with work of the property of the	DANGER    Four final   Four fin	INSTRUCTIONS INDOOR USE ONLY		IMPORTANT  After and CIA register that an entrud- cial Cianter and the control of the control Cianter and the control of the cianter control requestion.  Use (State) agreement internuls plant  After and mount internuls  After	offi
	Ootdex	so to Diss	Olinicico		



# 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	32	Attention in overhaul
	sign		
10	Warning signs for explosive burns	33	Suspension position sign
11	Whole machine nameplate	34	Electric shock sign
12	Fasting mark of transportation	35	Danger description
	parts		
13	Warning line	36	Attention mark of skin infraction
14	Hanger sign	37	Oil position sign
15	Lifting Position	38	Emergency lowing mark
16	Maximum manual force sign	39	Tilting hazard sign
17	Platform safety warning sign	40	Operation sign
18	Instructions sign	41	Prohibition of sparks sign
19	Transportation sign	42	Description of file loss
20	Battery charging sign	43	Battery for counterweight warning
20	Battery Charging Sign		sign
21	Battery connection indicator	44	Annual Inspection
	identification	74	Allinai iliopectivii
22	Warning sign	45	Company Logo
23	Annual inspection instruction		



#### **AS2646E/AS3246E Decals**

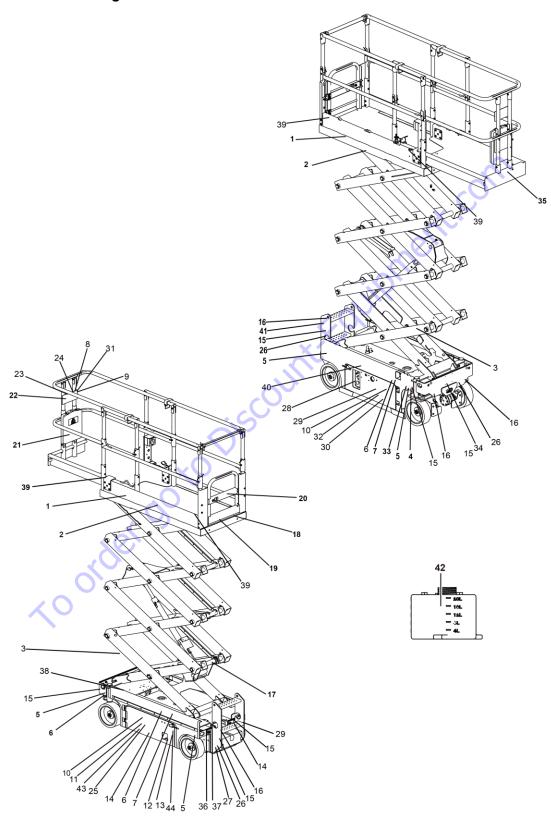
1-2534000219	2-2534001110/0910	3-2534000992	4-2534000973	5-2534000102	6-2534001017/43
<b>A</b> LGMG	ASSE2463	Safety Arm	DANGER Containing page and		Wheel load (2505lbs/1136kg 111
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534001732
A DANGER  The state of the stat	Outling House Date many How many House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House Hous House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House House Hous Hous House Hous House House Hous Hous Hous Hous Hous Hous Hous Hous	Theore hazard Secretary Consists of the Cons	CONSTRUCTION OF THE PROPERTY O	Booling Wax Parlor  Booling Wax Parlor  Booling Wax Parlor  To the second of the secon	ADANCER  In the contribution and interest of the contribution and
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001072/1073	18-2534000986
	<b>1</b>	3	INSTRUCTIONS Identifies all females side fueror in platform identifies side fueror in platform identifies all females side fueror identifies all females side fueror identifies in methor of accipants 2 (Author) 2 (Indian)	INSTRUCTIONS  IN	A VISANING  A VISANING  Framework of the control of
19-2534000021	20-2534000990	21-2534001023	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS  Barry Outry Quarter and Market  Characteristic	INSTRUCTIONS  Before Connection Diagram  Violenge Ballery of Violenge Ballery (Note of the Connection Connecti	Tiposer hazard.  Fallur to replace batteries with proper weight batteries will case down or sort can lightly.  Batteries are used as contenseight and are critical to medine skilling.  2534001004	INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report.	A DANGER  THE PROPERTY OF THE
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
155500033	NOTICE Descriptions War by A. T.	**************************************	Toor lead the pattern to pattern	Some	STOP (1) No.
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 25M000827	WARNING  A Construct con the state of the st	PlatformControls Location 2834000975	DANGER  Bectroculori Fire Hazard Darin ordinati Apyrel med  podro ordinati	Note to displace care by he day loss of each or sets systems.  See the second second by he day loss of each or sets systems.  See the second second by he day loss of each or sets systems.  See the second s	Company of the compan



	1	00 050/00005		ı	
37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	Down Teach Those Teach Teach Teach Teach and and a company of the	Supports Defe State Stat	2300000	If Coerator's Menual is missing contact local LCMG distributor or LCMG Inclusives.
43-2534001021	43-2534001021	44-1720100001	45-2534000220		_
DANGER    Convinced   Figure Name of Dayer   Figure Name   Figure Name of Dayer   Figure Na	A DANGER    For vivery	IMPORTANT  AND set Clist regists but as brand reported to be officed to be set from a property of the set of t		ment.	on
				Q.	
	ordero	o to Disc	OUNTER		



# 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

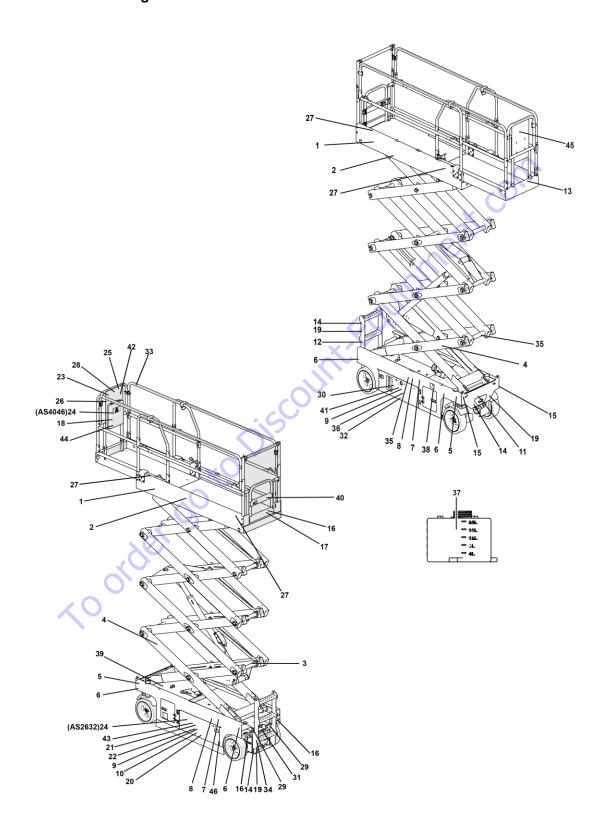
1 0504000010	0.050.400-100-100-1	3-2534000973	4 2534000102	5 2524001010	6 2524000077
1-2534000218	2-2534001125/0904	5-2554000973	4-2534000102	5-2534001018	6-2534000977
<u></u> LGMG	AS1962 AS1960	Outside guard Control to Control Co		Wheel load 13321bs/600kg	Onling Neural Control
7-2534000982	8-2534000983	9-2534000984	10-2534000979	11-2534000988	12-2534000990
A DANCER  British the Market State S	NOTICE  Quantity banders  Warry De  Grant Common Co	A DANCER  The state of the stat	Those hade the state of the sta	CAYCE COMMENTS OF CONTROL OF CONT	INSTITUTONS  INSTITUTONS  Introduction of control of co
13-254001004	14-2534001005	15-2831990027	16-2534000828	17-2534000032	18-2534001106/7
in DANGER Tiposer heard. Failure to regional interiors with proper weight interiors will case deaths or entire legals. Before an use of social entirely, and the social field of the social field of the social field.  253(01)004	INSTRUCTIONS Bettery Connection Gayare Norried Voltage Interior, 50 Volt		3	Safety Arm	INSTRUCTIONS  Maciona disordia didi loco oppositore  Or lan i di Ni piloto pi di piloto pi di loco oppositore  Or lan i di Ni piloto pi di piloto pi
19-2534001114/074	20-2534000997	21-2534000986	22-2534000985	23-2534000033	24-2534001015
INSTRUCTIONS  IN	Torquis Grade Mariadas Archiva Company (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997	A WARNING  A WARNING  The state of the state	Town freed	1 D	If Operator's Manual is missing, context local LOMG distributor or LOMG industries.
25-2534001016	26-2534000021	27-2534000976	28-2534000808	29-2534000998	30-2534000974
INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report.		BechooldonFre Heard Debugger of angel Debugger o	STOP No.	2300098	Compared and control and contr
31-2534000975	32-2534000980	33-2534000981	34-2534001126	35-2534000024	36-2534000101
Platform Controls Location 2534000975	WARNING  Hocker Heard  To be have a more or provide to county owner or provide to county of the county of	I + S - Enreigency Lowering	Boosting Work Preform  So Assessed Service Ser		



37-2534000827	38-2534000987	39-2534000017	40-2534000978	41-2534000991	42-2534000100
115V AC 15A 253400827	DANGER  Poor beef with the poor		See to include the of participation of and it is being until being the participation of an article being until b	A DANGER    I   Name of the part of the pa	Max Min
43-2534001037	44-1720100001				
Town heard risk to the contract of the contrac	IMPORTANT  AND and CICk regards for a remail registration of propertiessal, or since the registration of propertiessal, or since the second registration.  Use (ARIS, aggreend mensals) partle, and provediessa.  Note and the aggreend companies partle and provediessa.  Note and the aggreend companies partle and provediessa.  Note and the aggreend companies partle and companies and provides and aggreend mensals and aggreend and aggreend mensals and aggreend and aggreend mensals aggreend Trade			nent	om
			•	Ó,	
	order o	o to Disc	Ountification		



#### AS2632/AS4046 Decal Diagram



#### AS2632/AS4046 Decal List

Item #	Description	Item #	Description
1	Company Logo	25	Arrow indication sign
2	Model identification	26	Notices indication
3	Forklift safety arm sign	27	Lanyard Anchorage Point
4	Stay away from machine sign	28	Reduce platform warning sign
5	Direction indicator sign	29	Forklift Fork Position
6	Wheel load capacity sign	30	Indicator for lower control panel
7	Electric shock hazard	31	Battery charging sign
8	Pressure hazard identification	32	Attention in overhaul
9	Close the chassis bracket warning	33	Suspension position sign
	sign		
10	Warning signs for explosive burns	34	Electric shock sign
11	Whole machine nameplate	35	Danger description
12	Fasting mark of transportation	36	Attention mark of skin infraction
	parts	5	
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
<b>/</b>	0		sign
20	Battery charging sign	44	Indoor Only
21	Battery connection indicator	45	Company Logo
	identification		
22	Warning sign	46	Annual Inspection
23	Annual inspection instruction		
24	Safety rules description sign		

#### **AS2632/AS4046 Decals**

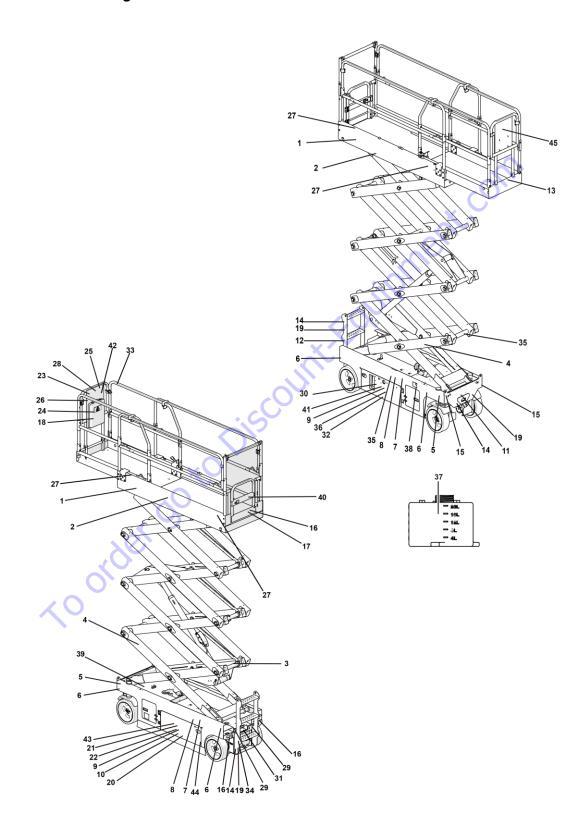
1-2534000219	2-2534000908/1118	3-2534000992	4-2534000973	5-2534000102	6-2534001044/90
<u> </u>	AS2662 AS2046	Safety Arm	DANGER Crubing pagard Containing		Wheel load 1830lbs/83dkg 111  Wheel load 2822lbs/128dkg 111
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534000991
A DANCER  The state of the stat	Cusing Nazar Cusing Nazar Intervention of the Cusing Nazar Interve	ADANGER Throw hazed September of the sep	CANGE And CANGE And CANGE AND AND	Elevating Wask Platform Wash Wash Platform Wash Was	DANGER    Compared to the comp
13-2534000024	14-2831990027	15-2534000828	16-2534001107	17-2534001074/1121	18-2534000986
	<u> </u>	3	INSTRUCTIONS  Maximum allowable edic force op latform: 10 bits 400 N  Maximum allowable wide force of part of the control of t	INSTRUCTIONS  IN	A VARNING  A VARNING  The control of
19-2534000021	20-2534000990	21-2534001005/1116	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS  Interly Own (Cortin) tendering  Own relies  For a relies	INSTRUCTIONS Licity vierceize Obgan  Provided Control  Install Control  (It borrants)	Those hazed Those hazed Failur to project batteries with proper weight batteries will case doubt or stront pilay.  Batteries are used as contenereight and are critical to machine stability.  2530011004	Annual inspection required. See maintenance manual for inspection report.	DANGER  Land Viging of Land Land And Vision Land  Land Viging of Land Land Land Land Land  Land Viging of Land Land Land Land Land  Land Land Land Land Land Land Land Land  Land Land Land Land Land Land Land Land
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
.55600033	NOTICE  Partyrighted  Washington  Washingt	ZAMM61)	Those fload (CD) of the control of t	TOWN	STOP STOP STOP STOP
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 25M000027	MARNING  Consideration Ordered and Ordered	PlatformCortrols Location 253400975	DANGER  BectrocutionFire Hazard  Defror winskip yel east  control die ger of dengel   Core double ger of dengel   Core double ger of dengel   Core double ger of dengel   dengel dengel   Great darry   Bits each wat year to drengel  dengel dengel   dengel dengel   Second	Figure 1 to 1 t	A WARNING  I/COO-Heard  Logic law or amounts  particle has an amount of the control of the contr



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	DANGER Tope Flatter Control and Control an	Torque to the control of the control	23,00098	If Quado's Manual is missing contect local LONG destinator or LONG Inclusives
43-2534001038	43-2534001117	44-1720100002	45-2534000220	46-1720100001	
DANGER  Town broad of the popular of	Down four Proper Vision to Associate the Control of	INSTRUCTIONS INDOOR USE ONLY		IMPORTANT And and COA wagaes that an amount And and COA wagaes that an amount if the coal and a give a second of the coal and a second of the c	com
				.0)	
			ountiful		



### AS2646/AS3246 Decal Diagram



#### AS2646/AS3246 Decal List

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

#### AS2646E/AS3246E Decals

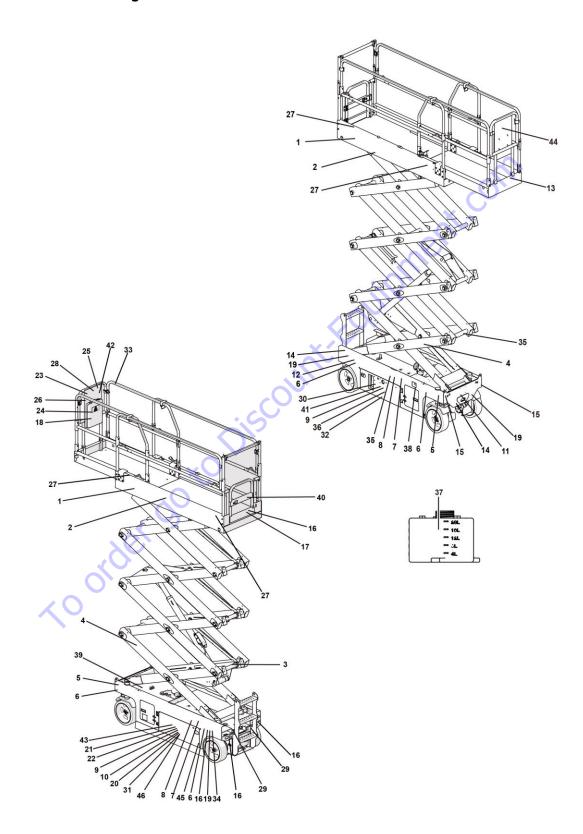
1-2534000219	2-2534000908/909	3-2534000992	4-2534000973	5-2534000102	6-2534001017/43
<u> </u>	AS2343 AS3243	Safety Arm	DANGER Crushing jacaban d Controlled Control		Wheel load
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534000991
A DANCER  The state of the stat	Cushing Named Cushing Named Figure 1997 Fi	ADANGER Tip-our hazer Transport for the second seco	CANGE CONTROL OF CONTR	Executory Work Placform  Producting Work Placform  Executing Work Placf	ADANGER    1   1   1   1   1   1   1   1   1
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001072/1073	18-2534000986
	<u> </u>	3	INSTRUCTIONS Interiors allowable dols force on platform:  Harderine site-coloid used speeds 150 rates (20 mg/s) Machine marries of occupants: (Oldoloo) 2 (Institut) 10 (Oldoloo) 2 (Institut) 10 (Ins	INSTRUCTIONS  IN	A VARNING
19-2534000021	20-2534000990	21-2534001023	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS  Interly Copy (Local y local color)  Characteristics of the Copy (Local y local	INSTRUCTIONS Better Connection Diagram Variable March Value (Plant and Plant	Those hazed Fallur to piace batteries with proper weight batteries will cause down or serious Flay.  Batteries are used as counterweight and are critical to medine stability.  2534091004	Annual inspection required. See maintenance manual for inspection report.	DANCER  Land to the control of the c
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
<b>1</b>	NOTICE Persyntetion  Was all the second of t	(*************************************	Those floard (cd) 1 (nor the gattern cold once of cold on	11	
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 253400027	WARNING  Organizations Description Descrip	PlatformControls Location 253400975	DANGER  BettorcultonFrire Hazard  Defor systos by yell end,  control deformer of enguested  Cornect of supursed AP  Serve extent of deforty,  Bifty so thus systop the draiged  dranged lens better opposite  SHERRIN	Put is transplanted as the first water and multi-shall be residently as the first water and multi-shall be residently as the first water and the first water water and the first water w	A WARNING  Incom Neural  Incom



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	DANGER    Top or lead   Top or	Supplier Spice United States S	253400998	If Operator's Menual is missing parted local LGMG influsion or LGMG inclusives
43-2534001021	43-2534001021	44-1720100001	45-2534000220		
DANGER    Too have been added to the control of the	DANGER	IMPORTANT  And and Claic agent the ser amount of the service of th	LGMG	zeri.	COM
<0	ordero	to Disc	Ountrico		



### AS4650/AS4650E Decal Diagram





#### **AS4650/AS4650E Decals**

1-2534000218	2-2534001070/2180	3-2534000992	4-2534000973	5-2534000102	6-2534001111
1 2001000210	2 2004001010/2100	3 2001000332	1 2001000010	0 2001000102	0 230 100 1111
<u>å</u> LGMG	AS4650E	Safety Arm	Consting years of sealing with the sealing of the s		Wheel load
7-2534000982	8-2534000977	9-2534000979	10-2534000988	11-2534001126	12-2534001732
A DANCER  Bertander  B	ADANGER Custing load  Province	ADANGER  T-Poor hazed Perspection Perspective Perspect	A CANCER of the standard parties and the standard of the standard parties and the standard parti	Cediry Vot Pet or  Seediry	ADANGER  Ultiparapith and  O 2 Outen  D 3 Outen  INSTRUCTIONS  D 4 Outendare  INSTRUCTIONS  D 5 Outendare  INSTRUCTIONS  O 2 Outendare  INSTRUCTIONS  O 3 Outendare  INSTRUCTIONS  O 3 Outendare  INSTRUCTIONS  O 4 Outendare  INSTRUCTIONS  O 5 Outendare  INSTRUCTIONS  O 5 Outendare  INSTRUCTIONS  O 6 Outendare  INSTRUCTIONS  O 7 Outenda
13-2534000024	14-2831990027	15-2534000828	16-2534001106	17-2534001073	18-2534000986
	<u> </u>	3	Maximum allowable size for our pullform.  Giss 2000 (Cultor)  in the 2000 (Cultor)  2 (Cultor)  2 (Cultor)  2 (Cultor)		A VISANING  A VISANING  Braining of the Control of
19-2534000021	20-2534000990	21-2534001116	22-254001004	23-2534001016	24-2534000984
	INSTRUCTIONS  Burning Open (and a particular street of the particular s	INSTRUCTIONS Identification for the second state of the second sta	Those hazed Those hazed Failur to pagical batteries with proper weight Batteries are used as counterweight and are critical to machine stability.  2536091004	INSTRUCTIONS Annual inspection required. See maintenance manual for inspection report.	DANGER  DANGER
25-2534000033	26-2534000983	27-2534000017	28-2534000985	29-2534000101	30-2534000808
1 D	NOTICE		Topes World and a second and a		STOP STOP STOP No.
31-2534000827	32-2534000974	33-2534000975	34-2534000976	35-2534000978	36-2534000980
115V AC 15A 25M000077	WARNING  Object of the control of th	PatformCortrds Location 2534000975	DANGER  BectrocationFire Hazard Debt or stacking yet east controlled.  Corned dept or dealing yet east controlled.  Corned dept of depth of the dept	Which transference as the his late to a desired which we set to 1990 t	AWARNING    Contributed   Cont



37-2534000100	38-2534000981	39-2534000987	40-2534000997	41-2534000998	42-2534001015
Max Min	Emergency Lowering	DANGER Tipow Yang Tipo	TO EGO TOOO S I	253400098	If Quadr's Manual is rissing contact local LCMG distributor or LGMG inclusives
43-2534001120	44-2534000220	45-1720100001	46-2534001056	47-2534002178	
Type and hazed  Type and type		IMPORTANT  WICH per Chit legals that as invasid inspection to enforced on the size of the control inspection to enforced on the size of the control inside the size of personal control inside the size of personal control inside the size of personal inside the control inside the c	NOTICE  Out of the power when the modrine is repaired or not used for long period  ON  OFF	On Rook	om
	oordex	o to Diss	OUNTERO		

#### 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 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	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	432E	
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	ı
Model		SS1	932E	
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	510lbs	outdoor	,
Recommend load capacity of extension deck	indoor	265lbs	outdoor	1
Model		AS2	2632E	5
Maximum occupant capacity	indoor	2	outdoor	O
Maximum working load of platform	indoor	510lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-
Model	4	AS4	1046E	
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	705lbs	outdoor	-
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-

**Table 14 - Platform Load Capacity** 

Table 14 - Platform Load Capacity				
Model		SS1	230E	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	530lbs	outdoor	530lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model	0	AS1	1932E	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	510lbs	outdoor	510lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model		AS2	2646E	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	990lbs	outdoor	990lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model	AS3246E			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs



Table 15 - Platform Load Capacity

Model		AS1	1930E		
Maximum occupant capacity	indoor	2	outdoor	-	
Maximum working load of platform	indoor	510lbs	outdoor	-	
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-	
Model		AS	1930		
Maximum occupant capacity	indoor	2	outdoor	ı	
Maximum working load of platform	indoor	510lbs	outdoor	-	
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-	
Model	AS2632				
Maximum occupant capacity	indoor	2	outdoor	ı	
Maximum working load of platform	indoor	510lbs	outdoor	.5	
Recommend load capacity of extension deck	indoor	265lbs	outdoor		
Model		AS	4046		
Maximum occupant capacity	indoor	2	outdoor	-	
Maximum working load of platform	indoor	705lbs	outdoor	-	
Recommend load capacity of extension deck	indoor	265lbs	outdoor	-	

**Table 16- Platform Load Capacity** 

Model		ΔS	1932	
			1332	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	510lbs	outdoor	510lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model		AS	2646	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	990lbs	outdoor	990lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model	AS3246			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model		AS	4650	
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs
Model	AS4650E			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	705lbs	outdoor	705lbs
Recommend load capacity of extension deck	indoor	265lbs	outdoor	265lbs

#### **Table 17-SS1230E Operating Specifications**

#### (Indoor Outdoor)

	It	Parameter	
Maxir	mum w	orking height	18.4ft (5.6m)
Maximum height of platform			12ft (3.6m)
		ze of platform	2ft (0.6m)
	_	able working angle	` ,
	(for	ward)	3°
Maximum		able working angle kward)	3°
Maximum		able working angle eward)	1.5°
Max Tra	veling	speed (Stowed)	2mph (3.2Km/h)
Max Trav	veling :	speed (Elevated)	0.3mph (0.5Km/h)
Lifting	g/lower	ing speed (S)	25/18
Minir	mum tı	urning radius	4.9ft (1.5m)
	Grad	eability	25%
Overall le	nath	With ladder	5ft (1.53m)
Overallie	ngui	Without ladder	4.4ft (1.35m)
Tire si	ize (di:	ameter×width)	9.1in×3.1in
1110 3	120 (dit	ameter x width)	(230mm×80mm)
	Overa	2.5ft (0.76m)	
Dimension of working platform (LxW)			4.4ft×2.3ft (1.35m×0.7m)
Whe	eelbase	e (front/rear)	44.1in(1120mm)
Ground o		ce (stowed/lifting ition)	1.97in/0.63in (50mm/16mm)
Overall he	eight	Rails Folding	6ft (1.82m)
	Ü	Rails un-folding	6.8ft (2.06m)
	Overa	II weight	1940lbs (880Kg)
Battery	Οι	utput Voltage(V)	12
Dattery		Capacity (Ah)	115
		. AC Input Voltage	100-240VAC
Charger	Мах	cimum DC Output Current (A)	15
	No	minal DC Output Voltage (V)	24
Ground en radiation	vironn		< 70dBA
Platform environment noise radiation			< 70dBA
System pro	essure		1884psi (13MPa)
Tire contact	ct pres	sure	162psi (1116.71KPa)
Ground pro	essure	•	223.7psf (10.71KPa)

Table 16 - SS1432E Operating Specifications
(In door)

	lte	Parameter			
Maxii	ximum working height			20.7ft (6.3m)	
Maxim	um hei	ght of platf	orm	14.1ft (4.3m)	
Exten	ding si	ze of platfo	rm	2ft (0.6m)	
	(for	ble working ward)		3°	
	(back	ble working (ward)		3°	
	(side	ble working ward)		1.5°	
(\$	Stowed	ed of mach position)	•	2mph (3.2Km/h)	
Traveling		of machine ition)	lifting	0.3mph (0.5Km/h)	
Liftino	g/lower	ing speed	(S)	25/20	
Mini	mum tı	ırning radiu	ıs	4.9ft (1.5m)	
	Grade	eability		25%	
Overallile	n ath	With la	dder	5ft (1.53m)	
Overall le	ngtn	Without	ladder	4.4ft (1.35m)	
Overall width			2.65ft (0.81m)		
Tire s	ize (dia	ameter×wic	lth)	9.1in×3.1in (230mm×80mm)	
Dimens		vorking pla ×W)	tform	4.4ft×2.3ft (1.35m×0.7m)	
Whe	elbase	e (front/rea	r)	44.1in(1120mm)	
Ground o		ce (stowed ition)	/lifting	1.97in/0.63in (50mm/16mm)	
Overall b	o i abt	Rails F	olding	6.2ft (1.9m)	
Overall h	eigni	Rails un-	-folding	7.1ft (2.15m)	
Overall we	eight			2172lbs (985Kg)	
Potton/	Οι	ıtput Voltaç	ge(V)	12	
Battery	•	Capacity (A	Ah)	150	
	Nomi Volta	ge	Input	100-240VAC	
Charger		ent (A)	Output	15	
	Nomi Volta	nal DC ge (V)	Output	24	
Ground environment noise radiation			< 70dBA		
Platform e radiation	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)

		7	uooi j	
	lt	Parameter		
Maximum working height				24.6ft (7.5m)
Maxim	um he	ight of platf	orm	18ft (5.5m)
Exten	ding s	ize of platfo	rm	2ft (0.6m)
Maximum		able working ward)	g angle	3°
Maximum		able working kward)	g angle	3°
Maximum		able working eward)	g angle	1.5°
Max Tra	veling	speed (Sto	wed)	2 mph (3.2Km/h)
Max Tra	veling	speed (Elev	/ated)	0.3mph (0.5Km/h)
Lifting	g/lower	ing speed	(S)	32/27
Mini	mum t	urning radio	IS	4.9ft (1.5m)
	Grad	eability		25%
		With la	dder	5.02ft (1.53m)
Overall le	ngth	Without	ladder	4.4ft (1.35m)
Overall wi	Overall width			2.65ft (0.81m)
Tire s	Tire size (diameter×width)			9.1in×3.1in (230mm×80mm)
Dimens	Dimension of working platform (L×W)			4.4ft×2.3ft (1.35m×0.7m)
Whe	eelbas	e (front/rea	r)	44.1in(1120mm)
Ground o		ice (stowed	/lifting	1.97in/0.63in (50mm/16mm)
0 "1		Rails F	olding	6.56ft (2.0m)
Overall h	eignt	Rails un-	folding _	7.46ft (2.27m)
Overall we	eight	I	10	2866lbs (1300Kg)
	Oı	utput Voltag	je(V)	12
Battery		Capacity (A		150
	Nom Volta	inal AC	Input	100-240VAC
Charger	Maxi Curre	mum DC ent (A)	Output	15
	Nominal DC Output Voltage (V)			24
Ground er radiation	Ground environment noise radiation			< 70dBA
Platform e radiation	Platform environment noise radiation			< 70dBA
System pr	essure	)	2176ps	i (15MPa)
Tire conta	ct pres	sure	211	psi(1454.66KPa)
Ground pr	essure	)	281	1.1psf(13.46Kpa)

#### **Table 20-AS1930E Operating Specifications**

#### (Indoor)

(indoor)					
	lt	em	Parameter		
Maxi	imum working height			25.6ft (7.8m)	
Maxim	Maximum height of platform			19ft (5.8m)	
Exten	ding si	ze of platfo	rm	3ft (0.9m)	
Maximum		ıble workinç ward)	g angle	3°	
Maximum		ıble workinç kward)	g angle	3°	
Maximum		ble working ward)	g angle	1.5°	
Max Tra	veling	speed (Sto	wed)	2.2mph (3.5Km/h)	
Max Tra	veling	speed (Elev	/ated)	0.5mph (0.8Km/h)	
		ing speed (		16/28	
		g radius (ex		5.6ft (1.72m)	
	-	eability		25%	
10	Jud	With la	dder	6.1ft (1.86m)	
Overall le	ngth	Without		5.51ft (1.68m)	
~~	Overa	all width	iaddei	2.5ft (0.76m)	
Tire s	Tire size (diameter×width)			12.7in×4in 323mm×100mm	
Dimens		working pla ×W)	tform	5.3ft×2.4ft (1.63m×0.74m)	
Who	eelbase	e (front/real	r)	53in (1350mm)	
Ground o		ce (stowed	/lifting	3.15in/0.79in (80mm/20mm)	
	Poo	Rails F	olding	6ft (1.84m)	
Overall h	eight	Rails un-		7ft (2.14m)	
Overall we	eight	Trails diff	Tolding	3549lbs (1610Kg)	
	Οι	ıtput Voltag	ıe(V)	6	
Battery		Capacity (A		225	
		ominal AC I Voltage		100-240VAC	
Charger	Max	timum DC ( Current (A		30	
	Nominal DC Output Voltage (V)			24	
Ground er radiation	Ground environment noise			< 70dBA	
Platform e radiation	Platform environment noise radiation			< 70dBA	
System pr	essure		3046ps	i (21MPa)	
Tire conta	ct pres	sure		(1074.83 KPa)	
Ground pr				sf (13.5 9KPa)	
·	Ground pressure 200.0ps			•	

#### **Table 21-AS1932E Operating Specifications**

#### (Indoor Outdoor)

Item Parameter				
Maximum working height			25.6ft (7.8m)	
Maxim	um he	ight of platf	orm	19ft (5.8m)
Exten	iding 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 eward)	g angle	1.5°
Max Tra	aveling	speed (Sto	wed)	2.2mph (3.5Km/h)
Max Tra	veling	speed (Elev	vated)	0.5mph (0.8Km/h)
Lifting	g/lower	ing speed	(S)	16/28
Minimum	turnin	g radius (ex	kterior)	5.74ft (1.75m)
	Grad	eability		25%
Overell le	n ath	With la	dder	6.1ft (1.86m)
Overall le	ngın	Without	ladder	5.51ft (1.68m)
	Overa	all width		2.7ft (0.81m)
Tire size (diameterxwidth)			12.7in×4in 323mm×100mm	
Dimens		working pla ×W)	tform	5.3ft×2.4ft (1.63m×0.74m)
Whe	•	e (front/rea	r)	53in (1350mm)
		ce (stowed	<u> </u>	3.15in/0.79in
0.00.10		sition)	,	(80mm/20mm)
0 "		Rails F	olding	6ft (1.84m)
Overall h	eignt	Rails un-	-folding	7ft (2.14m)
Overall we	eight		76	3571lbs (1620Kg)
Battery	Οι	utput Voltag	ge(V)	6
Dallery		Capacity (A	Ah)	225
		ominal AC I Voltage	nput	100-240VAC
Charger	Max	cimum DC (		30
	Nominal DC Output Voltage (V)			24
Ground environment noise radiation			< 70dBA	
Platform e radiation	Platform environment noise radiation			< 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 22 - AS2632E Operating Specifications

#### (In door)

(iii door)					
	lt	Parameter			
Maximum working height				32.8ft (10m)	
Maxim	ium he	ight of platf	orm	26.2ft (8m)	
Exter	ding s	ize of platfo	rm	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	wed)	2.2mph (3.5Km/h)	
Max Tra	veling	speed (Elev	vated)	0.5mph (0.8Km/h)	
Lifting	g/lowe	ring speed	(S)	31/40	
Mini	mum t	urning radiu	IS	7ft (2.15m)	
40	Grad	eability		25%	
0 111	<u>Л</u>	With la	dder	7.9ft (2.4m)	
Overall le	without I		ladder	7.4ft (2.25m)	
Overall width			2.7ft(0.83m)		
Tire s	ize (di	ameter×wic	lth)	15in×5.1in 380mm×130mm	
Dimone	ion of	working pla	tform	7.4ft×2.7ft	
Dillielis		working pia ×W)	uom	(2.26m×0.81m)	
Wh	eelbas	e (front/rea	r)	73in(1850mm)	
Ground	clearar	ce (stowed	/lifting	3.94in/0.98in	
	pos	sition)		(100mm/25mm)	
Overall h	oiaht	Rails F		6.4ft (1.95m)	
		Rails un-	-folding	7.6ft (2.32m)	
Overall we	eight			4718lbs (2140Kg)	
Battery	Oı	utput Voltag	ge(V)	6	
Dattery		Capacity (A	Nh)	225	
	Nom Volta		Input	100-240VAC	
Charger	Maxi	mum DC ent (A)	Output	30	
	Nominal DC Output Voltage (V)			24	
Ground er radiation		-		< 70dBA	
Platform environment noise radiation				< 70dBA	
System pr	essure	)	3046ps	i (21MPa)	
Tire conta			-	si (871.10KPa)	
Ground pr	essure	)	264.4ps	sf (12.66KPa)	

Table 23 - AS2646E Operating Specifications

#### (Indoor Outdoor)

	lte	em		Parameter
Maxi	mum w	orking heig	ght	32.8ft (10m)
Maxim	um hei	ight of platf	orm	26.2ft (8m)
Exten	iding si	ze of platfo	rm	3ft (0.9m)
Maximum		ble working ward)	g angle	3°
Maximum		ible working (ward)	g angle	3°
Maximum		ble working ward)	g angle	1.5°
Max. Tra	aveling	speed (Sto	owed)	2.2mph (3.5Km/h)
Max. Tra	veling	speed (Ele	vated)	0.5mph (0.8Km/h)
Lifting	g/lower	ing speed	(S)	35/40
Mini	mum tu	ırning radiu	IS	7.5ft (2.3m)
	Grade	eability		25%
Overall le	nath	With la	dder	8ft (2.42m)
Overallile	iigui	Without	ladder	7.4ft (2.25m)
	Overa	III width		3.9ft (1.18m)
Tire s	ize (dia	ameter×wic	lth)	15in×5.1in 380mm×130mm
Dimens		vorking pla ×W)	tform	7.4ft×3.7ft (2.26m×1.12m)
Who	eelbase	e (front/rea	r)	73in(1850mm)
Ground		ce (stowed ition)	/lifting	3.94in/0.79in (100mm/20mm)
Overall h	oight	Rails F	olding	5.7ft (1.73m)
Overall II	eigiit	Rails un-	folding	7.5ft (2.30m)
Overall we	eight		XC	5357lbs (2430Kg)
Battery	Οι	ıtput Voltaç	je(V)	6
Dattery	(	Capacity (A	Nh)	240
	No	ominal AC I Voltage	nput	100-240VAC
Charger	Max	imum DC ( Current (A		30
	Nominal DC Output Voltage (V)			24
Ground er radiation	Ground environment noise radiation			< 70dBA
Platform environment noise radiation				< 70dBA
System pr	essure		3046ps	i (21MPa)
Tire conta	ct pres	sure	177.76p	osi (1225.62KPa)
Ground pr	essure		222.85	osf (10.67KPa)
				-

# Table 24-AS3246E Operating Specifications (Indoor Outdoor)

(Indoor Outdoor)					
	Ite	Parameter			
Maximum	working l	39.4ft (12m)			
Maximum			32.8ft (10m)		
Extending	size of p	atform	3ft (0.9m)		
Maximum (forward)	allowable	e working angle	3°		
Maximum (backward		e working angle	3°		
Maximum (sideward)		working angle	1.5°		
Traveling : position)	speed of	machine (Stowed	2.2mph (3.5Km/h)		
Traveling : position)	speed of	machine (lifting	0.5mph (0.8Km/h)		
Lifting/low	ering spe	ed (S))	58/48		
Minimum t	urning ra	dius	7.5ft (2.3m)		
Gradeabili	ty		25%		
Overall lor	arth	With ladder	8ft (2.42m)		
Overall ler	igui	Without ladder	7.4ft (2.25m)		
Overall wi	dth		3.9ft (1.18m)		
Tire size (	diameter	«width)	15in×5.1in 380mm×130mm		
Dimension (LxW)	of worki	ng platform	7.4ft×3.7ft (2.26m×1.12m)		
Wheelbas	e (front/re	ear)	73in (1850mm)		
Ground cle position)	earance (	stowed/lifting	3.94in/0.79in (100mm/20mm)		
Overall he	iaht	Rails Folding	5.7ft (1.73m)		
Overall he	ignt	Rails un-folding	7.5ft (2.30m)		
Overall we	eight		6614lbs (3000Kg)		
D #	Out	out Voltage(V)	6		
Battery	С	apacity (Ah)	240		
	Non	ninal AC Input Voltage	100-240VAC		
Charger		num DC Output Current (A)	30		
		inal DC Output /oltage (V)	24		
Ground environment noise			< 70dBA		
Platform environment noise radiation			< 70dBA		
System pressure			3046psi 21(MPa)		
Tire Conta	ıct Pressı	ure	163.3psi 1225.25 kPa		
Ground pr	essure		247.5psf 11.85KPa		



Table 25 - AS4046E Operating Specifications (In door)

		/	400.7	
	lte	em		Parameter
Maxi	mum w	orking heig	jht	46ft (14m)
Maxim	ıum hei	ght of platf	orm	39.4ft (12m)
Extending	size of	platform		3ft (0.9m)
	(for	ble working ward)		3°
Maximum		ble working	g angle	3°
	(side	ble working		1.5°
		ed of mach position)	nine	2.2mph (3.5Km/h)
Traveling		of machine ition)	e (lifting	0.5mph (0.8Km/h)
Lifting	g/lower	ing speed	(S)	58/60
Minimum	turning	g radius (ex	(terior)	7.5ft (2.3m)
Gradeabil	ity			25%
Overell le	.a. a.4 la	With la	dder	8.1ft (2.47m)
Overall le	engtn	Without	ladder	7.4ft (2.25m)
Overall wi	dth			3.9ft(1.18m)
Tire size (diameter×width)				15in×5.1in 380mm×130mm
Dimens		vorking pla «W)	tform	7.4ft×3.7ft (2.26m×1.12m)
Wheelbas	e (front	/rear)		73in(1850mm)
		clearance ing positior	n)	3.94in/0.79in (100mm/20mm)
Overall b	oiabt	Rails F	olding	6.5ft (1.99m)
Overall h	eigni	Rails un	folding	8.4ft (2.56m)
Overall we	eight			6967lbs (3160Kg)
Battery	Outpu	ut Voltage(	(<	12
Dattery	Capa	city (Ah)		150
	Nomi Volta		Input	100-240VAC
Charger	Maxir	num DC nt (A)	Output	30
	Nomi		Output	24
Ground environment noise radiation				< 70dBA
Platform e radiation	nvironr	ment noise		< 70dBA
System pr	essure		3046ps	i (21MPa)
Tire conta	ct press	sure	190.98p	osi (1316.78KPa)
Ground pr	essure		280.07p	osf (13.41KPa)

Table 26 – AS4650E Operating Specifications (In door/Out door)

	Ite		Out doo	Parameter
Maximum	working	lr	door	51.8ft (15.8m)
height	Out door			32.8ft (10m)
Maximum	aximum height of In do			45.3ft (13.8m)
platform		O	ut door	26.2ft (8m)
Extending				3ft (0.9m)
	rward/ b	ackward)		3°
Maximum	(sidev	vard)		1.5°
		ed of macl position)	nine	2.2mph (3.5Km/h)
Traveling	speed c	of machine	(lifting	0.5mph (0.8Km/h)
Lifting	g/lowerir	ng speed	(S)	80/65
Minimum	turning	radius (ex	kterior)	9.35ft (2.85m)
Gradeabili	ty			25%
Overall le	nath	With la	dder	9.2ft (2.80m)
Overallile	rigiri –	Without	ladder	8.7ft (2.65m)
Overall wi	verall width			4.3ft(1.3m)
Tire size (	diamete	r×width)		15in×5.1in 380mm×130mm
Dimens	ion of w (Lx)	orking pla W)	tform	8.66ft×3.7ft (2.64m×1.12m)
Wheelbas	e (front/	rear)		87.4in(2220mm)
		learance ng positior	2)	4.1in/0.79in (105mm/20mm)
(310	wea/iiitii	Rails F	•	6.4ft (1.94m)
Overall h	eight	Rails un		9ft (2.74m)
Overall we	eight			7716lbs (3500Kg)
Battery	Output	t Voltage(	V)	12
Dattery	Capac	ity (Ah)		150
	Nomin Voltag		Input	100-240VAC
Charger	Maxim Currer	um DC nt (A)	Output	30
	Nominal DC Output Voltage (V)			24
Ground environment noise radiation			< 70dBA	
Platform e radiation	nvironm	ent noise		< 70dBA
System pr	essure		3046ps	i (21MPa)
Tire conta	ct press	ure	226.7ps	si (1563.13KPa)
Ground pr	essure		231.4ps	sf (11.08KPa)

# Table 27 – AS1930 Operating Specifications (Indoor)

	lte	em		Parameter		
Maximu	imum working height			25.6ft (7.8m)		
Maximun	aximum height of platform			19ft (5.8m)		
Extendi	ng si	ze of platfo	rm	3ft (0.9m)		
Maximum al		ble working ward)	g angle	3°		
	(bacl	(ward)		3°		
Maximum al		ble working ward)	g angle	1.5°		
Max Trave	eling	speed (Sto	wed)	2 mph (3.2Km/h)		
Max Trave	ling s	speed (Elev	vated)	0.5mph (0.8Km/h)		
Lifting/lo	ower	ing speed	(S)	16/28		
Minimu	um tu	ırning radiu	ıs	5.4ft (1.65m)		
Gradeability				25%		
Overall long	ıth.	With la	dder	6ft (1.83m)		
Overall leng	Jui	Without	ladder	5.4ft (1.65m)		
Overall width	ll width			erall width		2.7ft (0.81m)
Dimension		vorking pla ×W)	tform	5.3ft×2.4ft (1.63m×0.74m)		
Wheelbase (front/rear)			r)	52in (1320mm)		
Ground cle		ce (stowed	l/lifting	2.36in/0.79in (60mm/20mm)		
Overall bein	ah t	Rails F	olding	6ft (1.82m)		
Overall heig	Jrit	Rails un-	-folding	7ft (2.12m)		
Overall weig	ht			3483lbs (1580Kg)		
Battery	Οι	ıtput Voltaç	ge(V)	6		
Battory	(	Capacity (A	Nh)	225		
	lomi olta	ge	Input	100-240VAC		
Charger		mum DC ent (A)	Output	30		
	Nominal DC Output Voltage (V)			24		
Ground envi	Ground environment noise			< 70dBA		
Platform env	Platform environment noise radiation			< 70dBA		
System pres	sure		3481ps	i (24MPa)		
Tire contact	pres	sure	156psi	(1074.83 KPa)		
Ground pres	sure		283.8ps	sf (13.5 9KPa)		

Table 28 – AS1932 Operating Specifications
(Indoor Outdoor)

(illuoor Outdoor)						
	lt	em		Parameter		
Maxi	mum w	orking heig	jht	25.6ft (7.8m)		
		ight of platf		19ft (5.8m)		
Exter	nding si	ze of platfo	rm	3ft (0.9m)		
Maximum allowable working angle (forward)			g angle	3°		
Maximum		able working kward)	g angle	3°		
Maximum		able working eward)	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)		
Liftin	g/lower	ing speed (	S)	16/28		
Mini	mum tı	urning radiu	IS	5.6ft (1.7m)		
Gradeabil	ity.			25%		
Overall le	nath	With la	dder	6.ft (1.83m)		
Overall le	engun	Without	ladder	5.41ft (1.65m)		
Overall wi	Overall width			2.7ft (0.81m)		
Dimens	Dimension of working platform (LxW)			5.3ft×2.4ft (1.63m×0.74m)		
Wh	Wheelbase (front/rear)			52in (1320mm)		
Ground		ice (stowed sition)	/lifting	2.36in/0.79in (60mm/20mm)		
Overell b	oiabt	Rails Fo	olding	6ft (1.82m)		
Overall h	eignt	Rails un-	folding	7ft (2.12m)		
Overall we	eight			3527lbs (1600Kg)		
Battery	Οι	utput Voltag	je(V)	6		
Dationy		Capacity (A	rµ)	225		
	Nomi Volta		Input	100-240VAC		
Charger		mum DC ent (A)	Output	30		
		nal DC ge (V)	Output	24		
Ground er radiation	Ground environment noise			< 70dBA		
Platform e	environ	ment noise		< 70dBA		
System pi	essure		3481ps	i (24MPa)		
Tire conta	ct pres	sure	156psi	(1074.83 KPa)		
Ground pr	essure	,	283.8ps	sf (13.5 9KPa)		
	· · · · · · · · · · · · · · · · · · ·					

Table 29 – AS2632 Operating Specifications

#### (In door)

	It	em `		Parameter		
Maxii	mum w	orking heig	ght	32.8ft (10m)		
Maxim	um he	ight of platf	orm	26.2ft (8m)		
Exten	ding si	ze of platfo	rm	3ft (0.9m)		
	(for	able working ward)		3°		
Maximum	Maximum allowable workin (backward)			3°		
Maximum		able working eward)	g angle	1.5°		
Max Tra	veling	speed (Sto	wed)	1.9mph (3Km/h)		
Max Tra	veling	speed (Elev	vated)	0.5mph (0.8Km/h)		
Lifting	g/lower	ing speed	(S)	31/40		
Mini	mum tı	urning radiu	ıs	7ft (2.15m)		
	Grad	eability		25%		
Overall le	nath	With la	dder	7.9ft (2.4m)		
Overallile	ngui	Without	ladder	7.4ft (2.25m)		
Overall wi	Overall width			2.7ft(0.83m)		
Tire s	ize (dia	ameterxwic	lth)	15in×5.1in 380mm×130mm		
Dimens		working pla ×W)	tform	7.4ft×2.7ft (2.26m×0.81m)		
	,	el tread		27.6in(700mm)		
Whe		e (front/rea	r)	73in(1850mm)		
	learan	ice (stowed	-	3.94in/0.98in (100mm/25mm)		
0	- !!- 4	Rails F	olding	6.4ft (1.95m)		
Overall h	eignt	Rails un-	-folding	7.6ft (2.32m)		
Overall we	eight			4718lbs (2140Kg)		
Potton	Οι	utput Voltag	ge(V)	6		
Battery		Capacity (A	\h)	225		
	No	ominal AC I Voltage		100-240VAC		
Charger	Мах	cimum DC ( Current (A		30		
	Nominal DC Output Voltage (V)			24		
Ground environment noise ra			radiation	< 70dBA		
Platform e	Platform environment noise			< 70dBA		
System pr	essure	!	3481psi	(24MPa)		
Tire conta	ct pres	sure	126.3ps	3psi (871.10KPa)		
Ground pr	essure	!	264.4ps	f (12.66KPa)		

Table 30 - AS2646 Operating Specifications

#### (Indoor Outdoor) **Parameter** Item Maximum occupant capacity 32.8ft (10m) Maximum working height Maximum height of platform 26.2ft (8m) Extending size of platform 3ft (0.9m) Maximum allowable working angle 3° (forward) Maximum allowable working angle 3° (backward) Maximum allowable working angle 1.5° (sideward) Max Traveling speed (Stowed) 1.9mph (3Km/h) Max Traveling speed (Elevated) 0.5mph (0.8Km/h) Lifting/lowering speed (S) 35/40 Minimum turning radius 7.5ft(2.3m) Gradeability 25% With ladder 8ft (2.42m) Overall length Without ladder 7.4ft (2.25m) Overall width 3.9ft(1.18m) Dimension of working platform 7.4ft×3.7ft (LxW) (2.26m×1.12m) Wheel tread 41in(1040mm) Wheelbase (front/rear) 73in(1850mm) Ground clearance (stowed/lifting 3.94in/0.79in position) (100mm/20mm) 5.7ft (1.73m) Rails Folding Overall height Rails un-folding 7.5ft (2.30m) Overall weight 5357lbs (2430Kg) Output Voltage(V) 6 Battery Capacity (Ah) 240 Nominal AC Input 100-240VAC Voltage Maximum DC Output Charger 30 Current (A) Nominal DC Output 24 Voltage (V) Ground environment noise < 70dBA radiation Platform environment noise < 70dBA radiation 3481psi (24MPa) System pressure Tire contact pressure 177.76psi (1225.62KPa) Ground pressure 217.4psf (10.41KPa)

Table 31 - AS3246 Operating Specifications (Indoor Outdoor)

	(indoor Outdoor)							
	Iten	1	Parameter					
Maximum	working h	neight	39.4ft (12m)					
Maximum	height of	platform	32.8ft (10m)					
Extending	size of pl	atform	3ft (0.9m)					
Maximum (forward)	allowable	3°						
Maximum (backward		working angle	3°					
Maximum (sideward		working angle	1.5°					
Max Trave	eling spee	d (Stowed)	1.9mph (3 Km/h)					
Max Trave	eling spee	d (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	agth	With ladder	8.1ft (2.47m)					
Overall le	igin	Without ladder	7.4ft (2.25m)					
Overall wi	dth		3.9ft (1.18m)					
Dimension (LxW)	n of workii	7.4ft×3.7ft (2.26m×1.12m)						
Wheelbase (front/rear)			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 we	eight		6614lbs (3000Kg)					
Pottony	Outp	ut Voltage(V)	6					
Battery	Capacity	/ (Ah)	240					
	Nomina Voltage	AC Input	100-240VAC					
Charger	Maximu Current		30					
	Nomina Voltage		24					
Ground er	nvironmer	nt noise	< 70dBA					
Platform environment noise radiation			< 70dBA					
System pressure			3481psi 24(MPa)					
Tire Conta	act Pressu	ıre	163.3psi 1225.62KPa					
Ground pr	essure		247.5psf 11.85KPa					

Table 32 – AS4046 Operating Specifications (In door)

			<b>5</b>		
	Iten		Parameter		
Maximum	-		2		
Maximum		-	46ft (14m)		
Maximum	height of	platform	39.4ft (12m)		
Extending	size of pl	atform	3ft (0.9m)		
Maximum (forward)	allowable	e working angle	3°		
Maximum allowable working angle (backward)			3°		
Maximum (sideward		e working angle	1.5°		
Max Trave	eling spee	ed (Stowed)	1.9mph (3Km/h)		
Max Trave	eling spee	ed (Elevated)	0.5mph (0.8Km/h)		
Lifting/low	ering spe	ed (S))	65/60		
Minimum turning radius (exterior)			7.5ft (2.3m)		
Gradeabil			25%		
With ladder			8.1ft (2.47m)		
Overall le	ngth	7.4ft (2.25m)			
Overall width			3.9ft (1.18m)		
Dimension of working platform (LxW)			7.4ft×3.7ft (2.26m×1.12m)		
Wheelbas	e (front/re	ear)	73in(1850mm)		
		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)		
Dettem	Outp	ut Voltage(V)	12		
Battery	Capacity	y (Ah)	150		
	Nom	inal AC Input Voltage	100-240VAC		
Charger		num DC Output Current (A)	30		
		nal DC Output oltage (V)	24		
Ground er	nvironmer	nt noise	< 70dBA		
Platform environment noise radiation			< 70dBA		
System pressure			3481psi (24MPa)		
Tire Conta	act Pressu	ıre	190.98psi (1316.78KPa)		
Ground pr	ressure		280.07psf (13.41KPa)		

# Table 33 – AS4650 Operating Specifications (In door/ Out door)

(In door/ Out door)							
	lte	em			Parameter		
Maximum	working	g	Ir	door	51.8ft (15.8m)		
height		Ī	Οι	ut door	32.8ft (10m)		
Maximum	height	of	lr	door	45.3ft (13.8m)		
platform			Οι	ut door	26.2ft (8m)		
Extending	size of	platfor	m		3ft (0.9m)		
Maximum allowable working angle (forward/ backward)					3°		
Maximum allowable working angle (sideward)				1.5°			
(	ing spe Stowed	position	on)		1.9mph (3Km/h)		
Traveling	speed	of mac ition)	hine	e (lifting	0.5mph (0.8Km/h)		
Liftin	g/loweri	ing spe	ed	(S)	80/65		
Minimum	turning	radius	s (ex	kterior)	9.35ft (2.85m)		
Gradeabil	ity				25%		
Overellie	n ath	Wi	th la	dder	9.2ft (2.80m)		
Overall le	engtn	With	out	ladder	8.7ft (2.65m)		
Overall wi	dth				4.3ft(1.3m)		
Tire size (	diamete	er×widt	th)		15in×5.1in 380mm×130mm		
Dimens		vorking «W)	pla	tform	8.66ft×3.7ft (2.64m×1.12m)		
Wheelbas	,				87.4in(2220mm)		
	round				4.1in/0.79in		
(sto	wed/lifti	· ·		•	(105mm/20mm)		
Overall h	eight			olding	6.4ft (1.94m)		
0		Raiis	s un	-folding	9ft (2.74m)		
Overall we	-	ıt Volta	ngo/	M C	7716lbs (3500Kg)		
Battery	Outpo	it voita	ige(	<b>V</b> )	12		
,		city (Al			150		
	Nomii Volta		AC	Input	100-240VAC		
Charger	Maxin Curre	nt (A)	DC	Output	30		
	Nomii Volta		C	Output	24		
Ground er radiation	nvironm	ent no			< 70dBA		
Platform e radiation	nvironr	nent no	oise		< 70dBA		
System pr	essure			3626ps	i (25MPa)		
Tire conta	ct press	sure		226.7ps	si (1563.13KPa)		
Ground pr	essure			231.4ps	of (11.08KPa)		
I							

# 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°C)-27.4°F <minimum air</li>
   temperature≤15.8°F (-9°C);
- 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).



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

## ! Notice:

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

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

# **Chapter 11 Maintenance Schedule**

#### Routine inspection and maintenance interval table

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



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

#### Maintenance items of every level are given in the following tables

		. ^	Mair	ntenance	Level		
ltem	Description	Routine inspection	Ι	II	III	IV	V
	Check battery capacity	101.	•	•	•	•	•
	Check that all buttons/switches on the PCU panel function normally	•	•	•	•	•	•
	Ensure the PCU emergency stop switch is secure	•	•	•	•	•	•
	Check if all switches operate properly	•	•	•	•	•	•
	Check if any wiring harnesses are damaged	•	•	•	•	•	•
	Ensure the PCU wiring harness connector is secure	•	•	•	•	•	•
<b>-</b>	Check if the PCU wiring harness connector is not damaged	•	•	•	•	•	•
Electric system	Check if the PCU wiring harness is crimped or damaged	•	•	•	•	•	•
	Check if the pressure switch wiring is secure and not damaged	•	•	•	•	•	•
	Check if the lowering solenoid valve is secure and not damaged	•	•	•	•	•	•
	Check if the wirings of horizon sensor and inclination sensor are secure and not damaged	•	•	•	•	•	•
	Check the position and wiring of every limit switch rocker arm	•	•	•	•	•	•
	Ensure the angle sensor wiring harness	•	•	•	•	•	•



			Main	tenance	Level		
Item	Description	Routine inspection	ı	II	III	IV	V
	and connector are secure and not damaged						
	Ensure the emergency stop switch, key switch and plug switch on the lowering control panel and their wiring are secure and not damaged	•	•	•	•	•	•
	Ensure the warning lamp and horn function normally	•	•	•	.(	•	•
	Ensure the motor, motor controller, relay and ECU wirings are secure and not damaged	•	•	·×		•	•
	Ensure the wiring of every solenoid valve on the main valve block is secure and not damaged	•	: 6	0.	•	•	•
	Ensure the charger wiring is secure and not corroded	•		•	•	•	•
	Ensure the battery posts are secure and not corroded		•	•	•	•	•
	Check the battery is secure and not damaged						
	Check machine performance and various limit switches	•					
	Check if any connector is loose, damaged or corroded	•	•	•	•	•	•
	Check if the pressure of the hydraulic system is normal	•	•	•	•	•	•
	Check if the lift system hydraulic pressure is normal	•	•	•	•	•	•
	Check if the steering system hydraulic pressure is normal	•	•	•	•	•	•
	Check if the driving system hydraulic pressure is normal	•	•	•	•	•	•
	Check if any oil line or connector is loose or damaged	•	•	•	•	•	•
Hydraulic System	Check all hydraulic cylinders for damage or leaking	•	•	•	•	•	•
	Check every hydraulic valve for damage or leaking	•	•	•	•	•	•
	Check if the scissor stack arm oil line is securely fastened or damaged	•	•	•	•	•	•
	Check if the driving oil pipe clip is loose	•	•	•	•	•	•
	Check oil level in the hydraulic tank	•	•	•	•	•	•
	Replace the hydraulic oil			Yearly			

		Maintenance Level					
Item	Description	Routine inspection	ı	II	III	IV	v
	Hydraulic oil return filter element		Ev	ery 6 mc	onths		
	Check the hydraulic oil tank vent cap for leaks	•	•	•	•	•	•
	Replace the hydraulic oil tank vent cap			•	•	•	
	Replace the reducer lubricating oil	F	irstly 50 h	ours, eve	ery 200 h	ours	
	Check the fork sliding block for abnormal noise				COL	•	•
	Check and replace the sliding block			Ň	,*	•	•
	Check for loose or damaged bolts or abnormal noise	•	~	6,			
	Check if any circlip or washer on fork arms are damaged, worn, or missing	•	116,				
	Check if the emergency lowering system operates properly	· </td <td></td> <td></td> <td></td> <td></td> <td></td>					
Whole machine	Check if the platform, scissor stack arm, and chassis are deformed or have broken welds						
	Check if the paint is excessively chips or peels off	•					
	Check if the decals and safety signs are correct and legible	•					
	Check if the manuals are with the machine	•					
	Machine performance and limit switches operate properly	•					
Lubrication	Lubricate the steering knuckle		0	nce a mo	onth		

## Hydraulic Oil Specifications

Use temperature	Oil type
Minimum air temperature >15.8°F(-9°C)	L-HM 46 antiwear hydraulic oil
(-33°C)-27.4°F < minimum air temperature≤15.8°F (-9°C)	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
(-39°C)-38.2°F < minimum air temperature ≤-27.4°F (-33°C)  Minimum air temperature ≤-38.2°F (-39°C)	Edilphent. Con.

## **Annual Inspection Record**

Legend description							
Y=Yes, completed							
N=No, un-completed							
R=Repaired							
Evaluation							
Annual Inspection	Y	N	R				
Operation inspection completed		,X	·				
Maintenance item completed		:ome					
Function test completed							
Model	,.C						
Serial number							
Manufacturing Date	77),						
Owner							
Inspector							
Title of inspector							
Inspection company							
Inspection Date		·					
Last Annual Inspection Date							

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#### 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.

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# Mobile Elevating Work Platform Operation and Safety Manual

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