



# Operation Manual

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SS0407E/SS0507E/SS0607E/AS0607E/AS0607WE  
/AS0608E/AS0808E/AS0612E/AS0812E/AS1012E/  
AS1212E/AS1413E/AS0607/AS0607W/AS0608/  
AS0808/AS0612/AS0812/AS1012/AS1212/AS1413  
S0607E/S1212E

## Mobile Elevating Work Platform

 **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.

# Elevating Work Platform Operation Manual

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## Foreword

Thank you for choosing to use this Mobile Elevating Work Platform from LGMG. This machine is designed according to EN280:2013/A1:2015. 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 reserves the right to make specification changes without any prior notifications. For any updated information, contact LGMG.

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.

The information, technical specifications and drawings in this manual are the latest available when this manual is issued. Due to continuous improvement, LGMG 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.

### **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.**

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

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# 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.

The operation & maintenance prevention measures listed in this manual are only applicable to the specified uses of this machine. LGMG 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.

 **Danger:**

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

 **Warning:**

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

 **Notice:**

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

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# Chapter 1 Safety

## Danger

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

## Warning

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.

## Notice

### Classification of hazards

The meanings of symbols, color codes and characters of LGMG'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 or hydraulic motors.

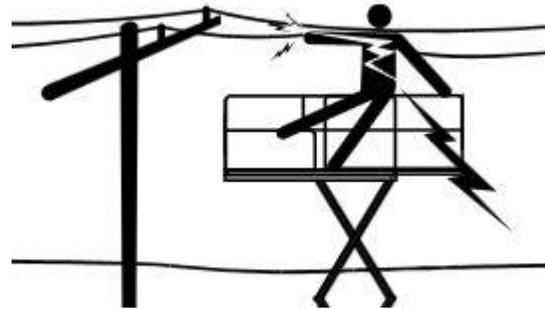
## 1.2 Maintenance of Safety Signs and Decals

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

### Electrocuting Danger

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**

Voltage	Required Clearance
0 to 50KV	3.05m
50KV to 200KV	4.6m
200KV to 350KV	6.10m
350KV to 500KV	7.62m
500KV to 750KV	10.67m
750KV to 1000KV	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. Refer to Chapter 10 – Specifications for model capacities.**

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



- 2) The maximum elevated drive speed for models AS0607E/AS0607WE/AS0608E/AS0808E/AS0612E/AS0812E/AS1012E/AS1212E/AS1413E/AS0607/AS0607W/AS0608/AS0808/AS0612/AS0812/AS1012/AS1212/AS1413/S0607E/S1212E is 0.8 kph. The maximum elevated drive speed for models SS0407E/SS0507E/SS0607E is 0.5 kph.
- 3) Do not use the tilt alarm as a level indicator. The tilt alarm only sounds when the machine is severely tilted.
- 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 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 0m/s.
- 7) The ambient temperature range for use of this machine is (-20°C to 40°C).
- 8) The relative humidity for use of this machine shall be no greater than 90% (20°C).
- 9) The allowable voltage fluctuation of the machine is ±10%.
- 10) Do not increase the surface area of platform or load. Increasing the exposure area in wind 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.
- 15) Do not push off or pull toward any object outside of the platform.

Maximum allowable manual force	
Model	Manual Force
SS0407E	Indoor: 400N Outdoor:200N
SS0507E	Indoor: 400N Outdoor:200N
SS0607E	Indoor use only:400N
AS0607	Indoor use only:400N
AS0607W	Indoor: 400N Outdoor:200N
AS0607E	Indoor use only:400N
AS0607WE	Indoor: 400N Outdoor:200N
AS0608	Indoor: 400N Outdoor:200N

AS0608E	Indoor: 400N Outdoor:200N
AS0808	Indoor use only:400N
AS0808E	Indoor use only:400N
AS0612	Indoor: 400N Outdoor:400N
AS0812	Indoor: 400N Outdoor:200N
AS1012	Indoor: 400N Outdoor:200N
AS1212	Indoor use only:400N
AS0612E	Indoor: 400N Outdoor:400N
AS0812E	Indoor: 400N Outdoor:200N
AS1012E	Indoor: 400N Outdoor:200N
AS1212E	Indoor use only:400N
AS1413	Indoor: 400N Outdoor:200N
AS1413E	Indoor: 400N Outdoor:200N
S0607E	Indoor: 400N Outdoor:200N
S1212E	Indoor use only:400N

- 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.
- 21) 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**

Model	Battery weight (Kg)
SS0407E	28
AS0607	
AS0607E	
AS0607W	
AS0607WE	
AS0608	
AS0608E	
AS0808	
AS0808E	
AS0612	
AS0612E	
AS0812	
AS0812E	
AS1012	
AS1012E	

SS0507E	39
SS0607E	
AS1212	
AS1212E	
AS1413	
AS1413E	28
S0607E	
S1212E	39

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 (including the battery) on the chassis (kg)
SS0407E	86
SS0507E	106
SS0607E	
AS0607	146
AS0607E	
AS0607W	
AS0607WE	
AS0608	150
AS0608E	
AS0808	
AS0808E	
AS0612	157
AS0612E	
AS0812	
AS0812E	
AS1012	
AS1012E	193
AS1212	
AS1212E	

AS1413	225.4
AS1413E	
S0607E	144.5
S1212E	212.5

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**

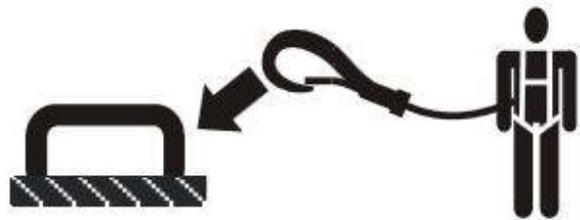
- Do not drive the machine on a slope that exceeds the slope and side slope rating of the machine. The rated value of slope is applicable to a stowed machine.

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

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

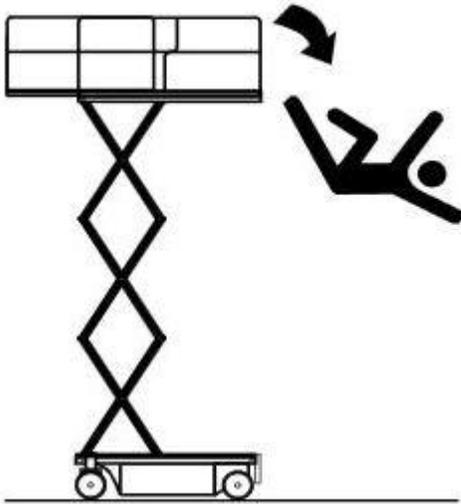
### **Falling Hazards**

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



- Do not climb on or sit on the guard rail of the platform. Firmly stand on

the platform floor at all times.



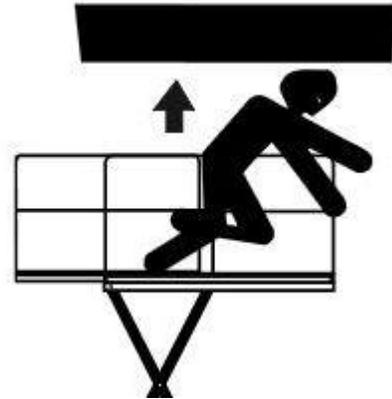
- Do not climb down the platform scissors when the machine is elevated.
- Keep the platform floor free from debris.
- Shut down the platform door before operation.
- Do not operate the machine if the guard rail is not correctly installed.
- Do not enter or exit the platform unless the machine is in the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

### Crash Hazards

- Pay attention to any items or obstacles within the machine's sight line and in any blind spots when starting or running the machine.
- Pay attention to the position of the extending platform when moving the

machine.

- Check the workstation to avoid any overhead barriers or other possible hazards in the work site.



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

- **Dangerous driving or careless operation when running the machine are strictly prohibited.**
- **The platform can be lowered only when there are no personnel or barriers below the platform.**
- **Limit travel speed according to ground conditions, traffic, road grade, personnel position, or any other possible bump factors.**

 **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.

### Explosion danger

- 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.**

### Electrocuting/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.

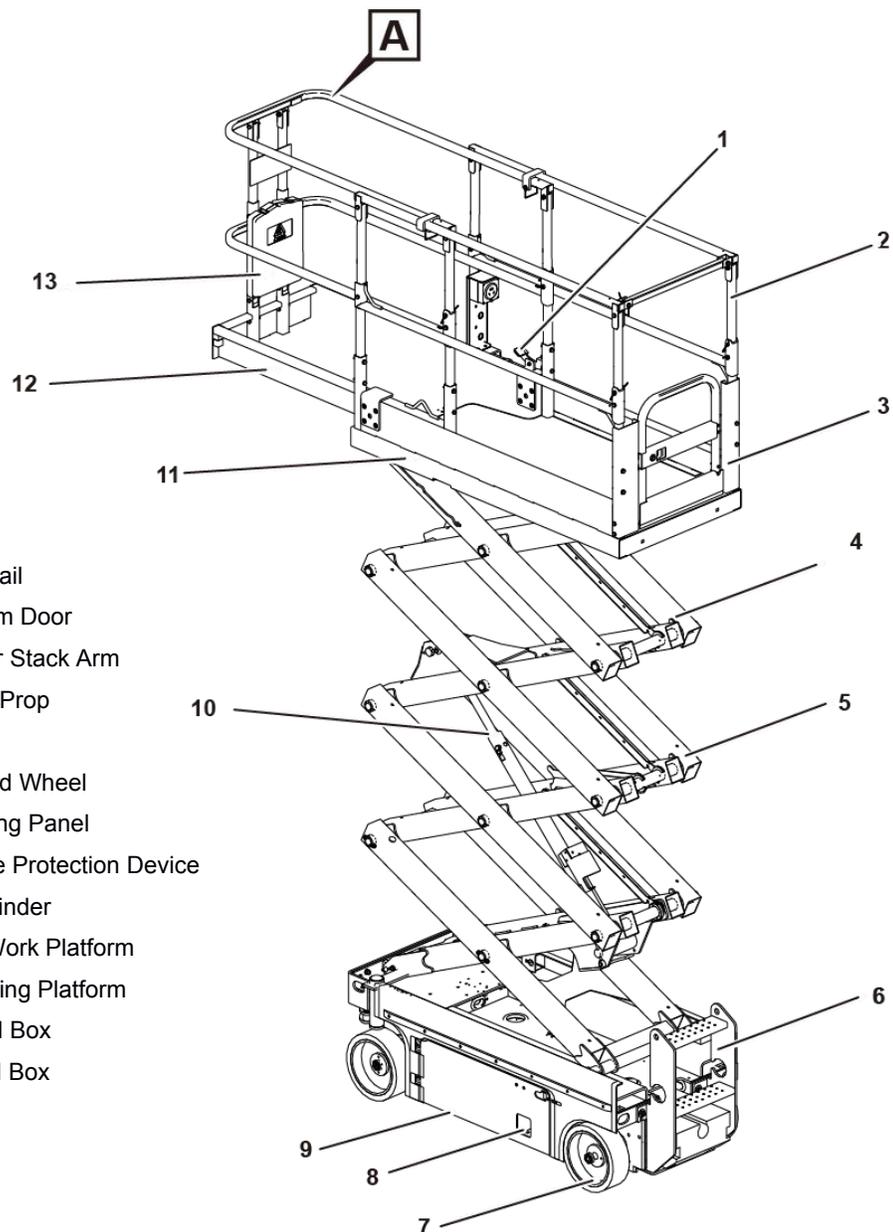
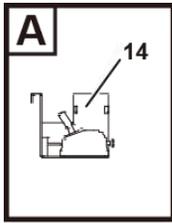
## 1.5 Lock After Each Use

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

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# Chapter 2 Machine Nomenclature

 Notice: This drawing shows an AS0607E, but the nomenclature is common for all other models.

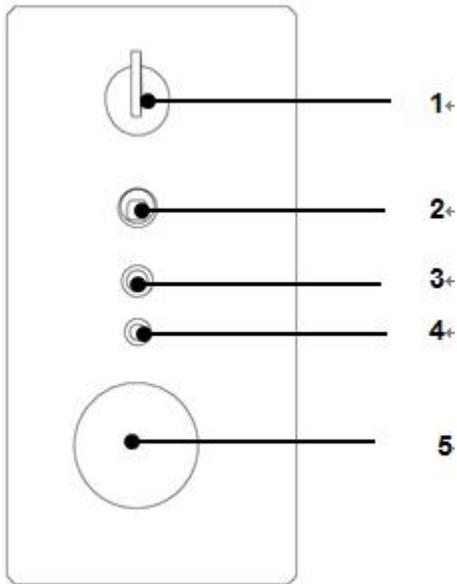


1. Pedal
2. Guardrail
3. Platform Door
4. Scissor Stack Arm
5. Safety Prop
6. Ladder
7. Tire and Wheel
8. Charging Panel
9. Pothole Protection Device
10. Lift Cylinder
11. Main Work Platform
12. Extending Platform
13. Manual Box
14. Control Box

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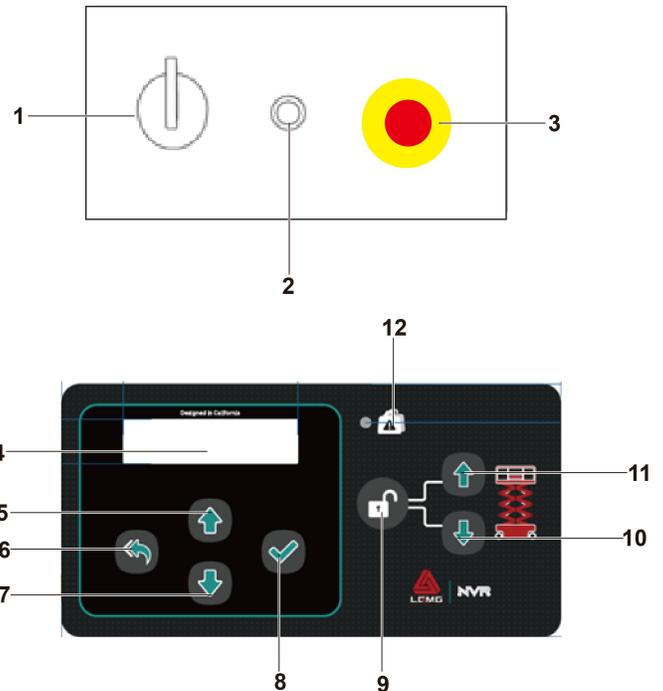
# Chapter 3 Controls

## 3.1 Ground Controls



**Fig. 3-1 Ground Control**

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



**Fig. 3-2 Ground Control**

(If equipped)

1. Key Switch
2. Auto reset fuse (7A)
3. Emergency stop switch
4. LCD
5. Menu up button
6. Menu escape button
7. Menu down button
8. Menu enter button
9. Lift function enable button  
Press and hold this button to activate the lift function.
10. Platform down button
11. Platform up button
12. Platform overload indicator

### 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.

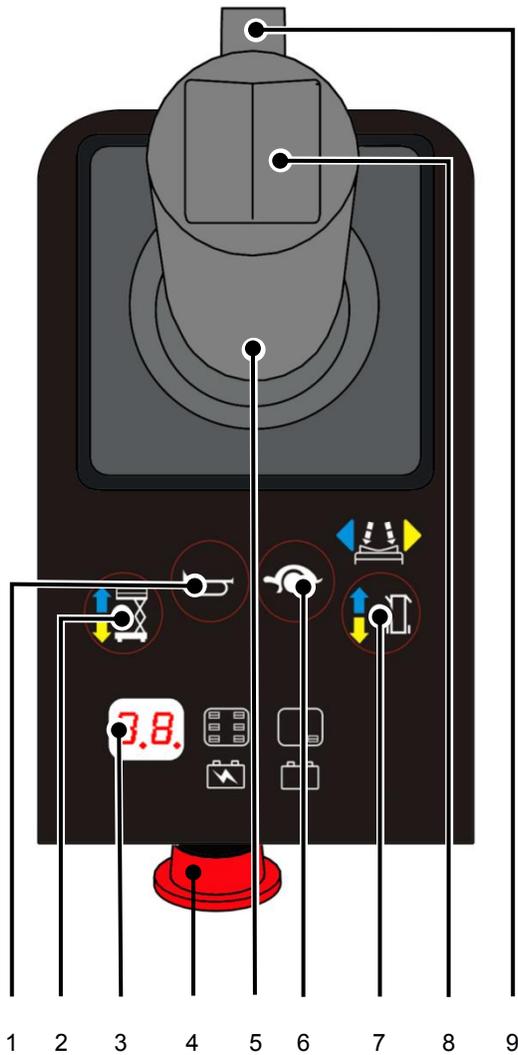
#### Notice

**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

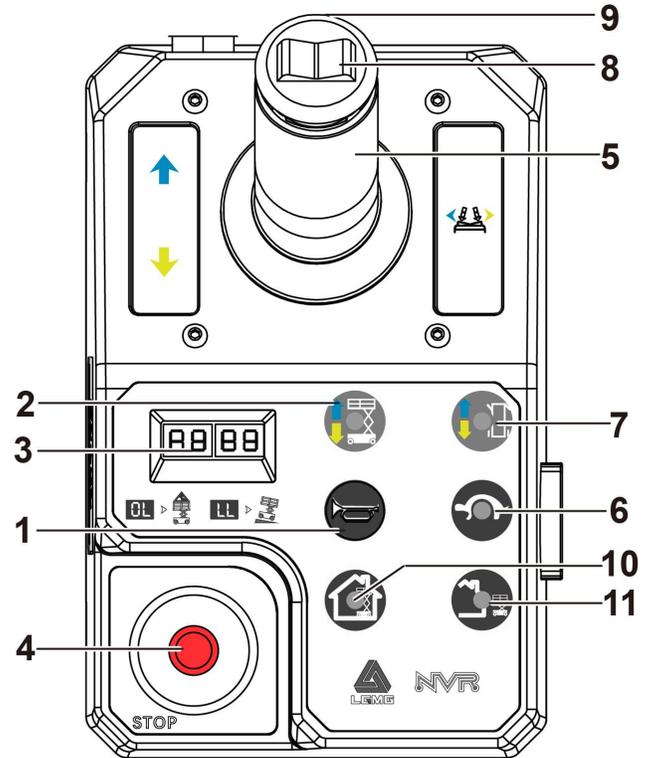
The platform Lift Switch is only used to control the lifting or lowering of platform.

## 3.2 Platform Controls



**Fig. 3-3 Platform Control**

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



**Fig. 3-4 Platform Control**

(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
10. Indoor use button
11. Outdoor use button

### 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	CH

### 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 direction (front) indicated by the blue arrow when the control lever is moved to the direction indicated by the blue arrow, or to the direction (back) indicated by the yellow arrow when the control lever is moved to the direction 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 direction indicated by the blue arrow, or lower when the control lever is moved to the direction indicated by the yellow arrow..



**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 use button (If equipped)

Press this button, the indicator lamp will light up, and the indoor mode is enabled.

When the indoor mode is enabled, the lift will be allowed to set to the indoor maximum height.

Refer to the specifications.

 **Danger: Forbid operating the lift in**

**indoor mode outdoors.**

### 3.2.11 Outdoor use button (If equipped)

Press this button, the indicator lamp will light up, and the outdoor mode is enabled.

When the outdoor mode is enabled, the lift will be allowed to set to the outdoor maximum height.

Refer to the specifications.

### 3.2.12 Indoor or outdoor mode selection (If equipped)

- 1) Via the lift button on the handle for indoor or outdoor selection (indoor light, outdoor flashing).(as shown in figure 3-3 )
- 2) When indoor mode is selected, the machine AS1413/AS1413E 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.
- 3) 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.**

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## Chapter 4 Pre-Operation Inspection



### Warning

**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.



### Notice

**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

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

- 2) The pre-operation inspection is a visual process, which shall be performed daily by the operator before each work shift. The purpose of the inspection is to check the machine for any significant problems before performing the Function Test.
- 3) The pre-operation inspection can also be used for confirming if routine maintenance is required. The operator shall only perform routine maintenance as specified in this manual.
- 4) 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. 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

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

- proper oil level. Go through the label.
- 4) 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.
  - l) 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.

**Notice**

**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.**

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

## **Notice**

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

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

## 5.1 General Information

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

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# Chapter 6 Function Test

 **Warning**

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

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

 **Notice**

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

- 5) The machine is used as described in this manual.

## 6.1 General Information

- 1) 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.

- 3) Do not use a damaged or malfunctioning machine. Tag out the control boxes and do not use the machine until repairs have been made.
- 4) 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

- 1) 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

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

## 6.4 Test the Emergency Stop Switch

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

## 6.5 Test of Lifting/Lowering Function



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

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

S0607E/S1212E:

Press and hold the lift function enable button and platform lift button at the same time.

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.

S0607E/S1212E:

Press and hold the lift function enable button and platform lift button at the same time.

Result: The platform will elevate.

- 5) Push down and hold the platform lift switch.

S0607E/S1212E:

Press and hold the lift function enable button and platform lift button at the same time.

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.

## 6.6 Emergency Lowering Function Test

- 1) Push up the platform lift switch to elevate the platform approximately 24 in (60cm).
- 2) 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.
- 3) Switch the key switch to the platform controller.

## 6.7 Platform Controller Test

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

## 6.8 Horn Test

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

## 6.9 Lift Function and Function Enable Switch Test

- 1) Do not press the enable switch on the control handle.
- 2) Slowly move the control handle as per the blue arrows and then move it as per the yellow arrows. Result: All lift functions shall not be operational.
- 3) Press the lift function selector button.
- 4) Press the enable switch on the control handle.
- 5) Slowly move the control handle as per the blue arrows. 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 as per the yellow arrows. 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.**

- 1) 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 front wheels shall move as per the direction indicated by the leftward arrows on the chassis
- 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 front wheels shall move as per the direction indicated by the rightward arrows the chassis.

## 6.11 Driving and Braking Function Test

- 1) 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.



### Notice

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

## 6.12 Driving Function Test

- 1) Press the lift function button; the indicator lamp will light up. Press and hold the enable switch and move the control handle 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 (m)
SS0407E	2
SS0507E	
SS0607E	2.43
AS0607	2.1
AS0607E	
AS0608	
AS0608E	
AS0808	
AS0808E	
AS0812	
AS0812E	
AS1012	
AS1012E	
AS1012	
AS1212E	
S1212E	
AS0612	
AS0612E	
AS0607W	1.23
AS0607WE	
S0607E	
AS1413	2.52
AS1413E	

- 2) 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 0.8km/h when the platform is elevated. On models SS0407E/SS0507E/SS0607E, the driving speed of the platform will not be greater than 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 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 (m)
AS0607	1.7
AS0607E	
AS0607W	1.58
AS0607WE	
S0607E	
SS0407E	2
SS0507E	
AS0608	2.1
AS0608E	
AS0808	
AS0808E	
AS1012	
AS1012E	
AS1212	
AS1212E	
S1212E	
SS0607E	2.6

AS0812	
AS0812E	
AS0612	1.45
AS0612E	
AS1413	2.78
AS1413E	

- 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



**Notice:**

**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.**

- 1) 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 (m)
SS0507E	2
SS0407E	
AS0607	1.3
AS0607E	
AS0607W	1.23
AS0607WE	
S0607E	
AS0612	1.25
AS0612E	
AS0608	1.9
AS0608E	
AS0808	
AS0808E	
AS1012	
AS1012E	
AS1212	
AS1212E	
S1212E	2.18
AS0812	2.29
AS0812E	
SS0607E	2.43
AS1413	2.52
AS1413E	

**Table 8 – Pothole Guard Not Deployed Alarm Height**

Model	Height (m)
SS0407E	2
SS0507E	
AS0612	1.45
AS0612E	
AS0607	1.5
AS0607E	
AS0607W	1.58
AS0607WE	
S0607E	2.18
AS0608	2.1
AS0608E	
AS0808	
AS0808E	
AS1012	
AS1012E	
AS1212	
AS1212E	
S1212E	3.6
SS0607E	2.6
AS0812	
AS0812E	2.78
AS1413	
AS1413E	

- 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.

- 5) Lower the platform and remove the blocks.

# Chapter 7 Operating Instructions

## **Warning:**

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

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

## 7.1 General Information

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

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

## 7.2 Emergency Stop

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

## 7.3 Emergency Lowering

Pull the emergency lowering control button outward.

## 7.4 Operation from the Ground Controls

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

## 7.5 Platform Positioning

Move the platform lifting and lowering switch according to the mark on the control panel.

S0607E/S1212E:

Press and hold the lift function enable button and platform lift button at the same time.

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

## 7.7 Platform Positioning

- 1) Press the lift function selector switch.
- 2) Press the enable switch on the control handle.
- 3) Move the handle forward to elevate and rearward to lower.

## 7.8 Steering

- 1) Press the drive function selector switch.
- 2) Press the enable key on the control handle.
- 3) 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.
- 4) Coordinate machine drive direction with the direction arrows on the platform controller and the platform.
- 5) When the platform is elevated, the drive speed of the machine is reduced.
- 6) The charge 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.

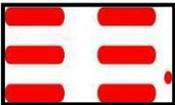
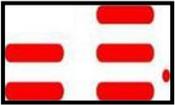
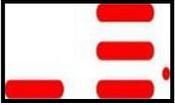
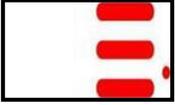
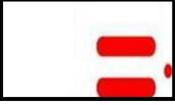
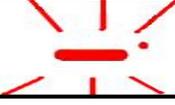
## 7.11 Driving the Machine from the Ground

- 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.
- 3) Identify the battery level with the LED display.

Table 9 - Battery Level as Shown on LED Display

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

 **Notice**

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

## 7.12 Driving on a slope

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

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

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

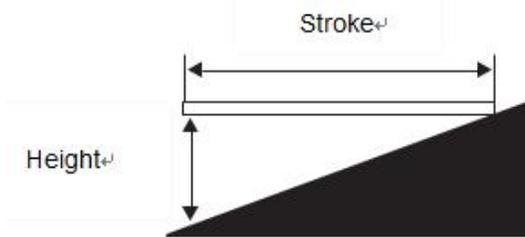
**Additional platform weight may reduce slope rating.**

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

$$0.3 \div 3.6 = 0.083 = 8.3\%$$

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

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

Model	Height (m)
SS0407E	2.4
SS0507E	
AS0607	
AS0607E	
S0607E	
AS0612	2.5
AS0612E	

SS0607E	2.77
AS0607W	
AS0607WE	
AS0608	3.2
AS0608E	
AS0808	
AS0808E	
AS0812	
AS0812E	
AS1012	
AS1012E	
AS1212	4
AS1212E	
S1212E	
AS1413	
AS1413E	

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



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

### 7.14 How to Stow the Guardrail

.On models SS0407E/SS0507E/ SS0607E/ AS0607/ AS0607E/ AS0607W/AS0607WE/

/S0607E/AS0608/AS0608E/AS0808/AS0808E,  
the platform guardrail system consists of a  
folding guardrail on an extended platform and  
a folding guardrail on the main platform.

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

the same time, prevent the 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.
- 13) Install the two retaining pins which were removed back to the guardrail on each side.  
On models , AS0612/AS0612E/AS0812/  
AS0812E/AS1012/AS1012E/AS1212/AS1212  
E/ S1212E/AS1413/AS1413E, the platform  
guardrail system consists of a folding guardrail  
on an extended platform and a folding  
guardrail on the main platform.
- 1) Fully lower the platform and lock it into the extended platform.
- 2) Remove the platform controller.
- 3) Remove the M-shaped fixed seat between the guardrails of the main platform and the extended platform from the inside of the platform and place it in the platform.
- 4) Remove the two retaining pins at the front of the extended platform from the inside of the main platform.
- 5) Fold the front guardrail of the extended platform inward. Do not place your hands in places where there may be a pinch point. At the same time, prevent the left and right guardrails of the extended platform from

tilting over.

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

## 7.15 How to Erect the Guardrail

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

## 7.16 Extending and Retracting the Extending Platform Deck

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



**Notice**

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

## 7.17 Power Supply Switch

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



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

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

### 2. Anderson connector (if equipped)



**Connect**



**Disconnect**



**Notice:**

**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



**Notice**

**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
23	Lifting restriction prompt	Prohibit traveling after lifting
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
37	ECU standby prompt	Display alarms only
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
44	AC pump motor parameter setting malfunction	Display alarms only
45	AC pump motor hardware malfunction	Display alarms 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
49	AC pump motor detection malfunction	Display alarms only
50	AC pump motor contactor malfunction	Display alarms only
52	Forward coil error	Stop lifting and running
53	Backward coil error	Stop lifting and running
54	Lifting error of lifting coil	Stop lifting and running
55	Lifting error of lowering coil	Stop lifting and running
56	Right turn coil error	Stop lifting and running
57	Left turn coil error	Stop lifting and running
58	Brake coil error (because the brake coil is optional, this function is temporarily shielded)	Stop lifting and running
60	Motor controller error	Stop lifting and running (Triplat only)
61	Electric drive motor controller current sensor error (overheating of running or lifting motor)	Display alarm only
62	Motor controller hardware damage error	Display alarm only
63	Motor controller motor output error	Display alarm only
64	Motor controller SRO error	Display alarm only
65	Motor controller throttle valve error	Display alarm only
66	Motor controller emergency reverse error	Display alarm only
67	Motor controller HPD error	Display alarm only
68	Low voltage alarm	Stop all actions
69	High neutral current (MC is detecting current in the motor, but there shall be no current in this case)	Stop lifting and running
70	The steering input is beyond the range (the improper voltage is in the steering input)	Stop lifting and running
71	Motor controller main contactor error	Stop lifting and running
72	Motor controller overvoltage error	Display alarm only
73	Motor controller heat reduction error	Display alarm only
74	Motor controller motor error	Display alarm only
75	Motor controller pump motor error	Display alarm only
76	Motor controller left drive motor error	Stop lifting and running
77	Motor controller right drive motor error	Triplat prohibits lifting and walking combiacx shows only alarms
78	Pump motor short circuit error	Triplat show only alarms combiacx

		prohibits lifting and walking
79	Left drive motor short circuit error	Stop lifting and running
80	Alarm of exceeding 80% load	Alarm only
81	Right drive motor short circuit error	Stop lifting and running
82	Left brake coil error	Stop lifting and running
83	Right brake coil error	Stop lifting and running
84	Motor controller short circuit error	Stop lifting and running
85	Brake release switch error	Alarm only
86	Brake release not open error	Alarm only
87	Brake application failure	Alarm only
89	Motor protection open error	Stop lifting and running
90	Alarm of exceeding 90% load	Alarm only
91	Short circuit of left drive motor protection	Stop lifting and running
92	Right drive motor protection short circuit	Stop lifting and running
93	AC pump motor braking fault	Display alarms only
94	AC pump motor driver temperature fault	Display alarms only
95	AC pump motor temperature fault	Display alarms only
96	AC pump motor voltage or electric quantity abnormality	Display alarms only
97	AC pump motor CANBUS communication malfunction	Display alarms only
98	AC pump motor speed sensor malfunction	Display alarms only
99	Alarm of exceeding 99% load	Alarm only
OL	Platform overload alarm	Stop all actions
LL	"The machine tilts over the safety limit" error	Stop lifting and running

**Table 11 - Troubleshooting Guide**

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.

Display	Description
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.
23	Enable the lift travel with the minimum height, or shutdown lifting limit function
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.
37	Press the enable / Travel button and cancel ECU sleep
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.
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.
44	AC pump motor parameter setting failure
45	AC pump motor hardware failure
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.
49	AC pump motor detection failure
50	AC pump motor contactor failure
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

Display	Description
	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
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
84	Motor controller short circuit fault
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.

Display	Description
91	Check if the left drive motor is shorted
92	Check if the right drive motor is shorted
93	AC pump motor braking failure
94	AC pump motor driver temp failure
95	AC pump motor temp failure
96	AC pump motor voltage or battery abnormality
97	AC pump motor driver temp failure
98	AC pump motor speed sensor failure
99	Alarm of exceeding 99% load: As the platform has reached the load limit, do not to increase the load.
OL	Platform overload alarm: Remove excessive loads immediately.
LL	"The machine tilts over the safety limit" error: If the machine tilts, try to make it recover horizontal status. If the machine is horizontal, check the wiring of the level sensor or the sensor.

#### Historical error status

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

# Chapter 8 Transport and Lifting Instructions

## **Warning**

### **Obey these instructions.**

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

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

## **8.1 Releasing the Brake**

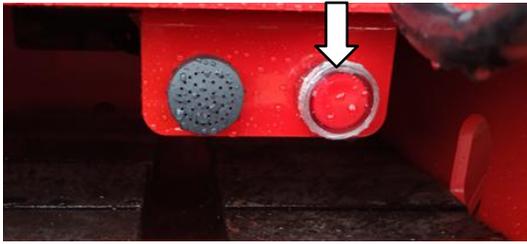
### **Collision Hazard**

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

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

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

- 1) Wedge the wheels with wedges to prevent the machine from moving.
- 2) Make sure that the winch rope is fastened correctly at the fastening point on the chassis, and there is no obstacle on the passage.
- 3) Remove the brake button, brake lifting, when the machine voltage is higher than 10 v. Touch back brake button to complete the machine after adjustment.



4) The machine no electricity or under the condition of the machine voltage is less than 10 v, according to the following operation.

① Unscrew the drive motor end cover;



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

 Notice: For SS0407E/SS0507E/SS0607E

models, screw the M3\*20 bolt 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.

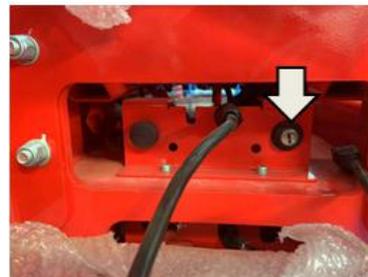
⑤ After moving the machine, reinstall both drive motors to the original conditions.

**Brake Release Operation (Key release)**

 **Notice:**

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

1. Chock wheels to prevent machine from rolling.
2. Be sure winch line is properly secured to drive chassis tie points and path is clear of all obstructions.
3. Turn the key switch to the right side to release the brake.

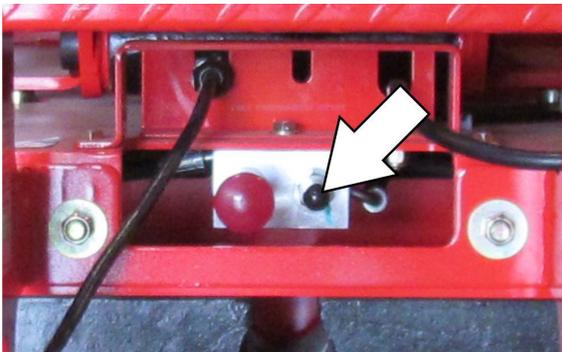


**After brake release operation:**

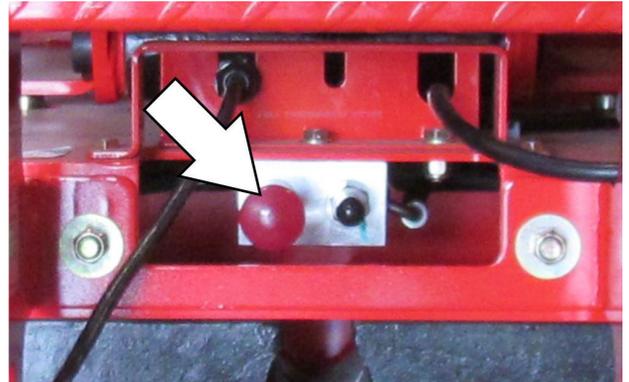
1. Chock wheels to prevent machine from rolling.
2. Turn the key switch to the off position to engage the brake.

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

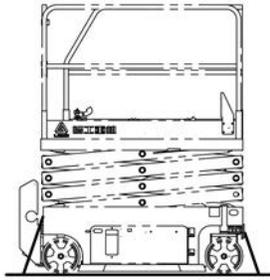
- 1) Chock the wheels to prevent the machine from moving.
- 2) Make sure all lifting devices are properly fastened at the designated tie down/lifting points on the chassis, and there are no obstacles in the way.
- 3) Push the black brake release knob to open the brake valve.



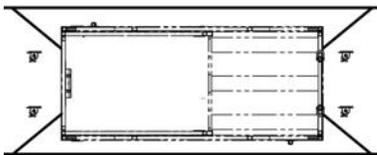
- 4) Pull the red brake release pump knob.

**8.2 Transport Safety**

- 1) 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.
- 5) Secure the machine on the transport surface using the tie down areas on the chassis.



6) Use at least four chains or tie straps.



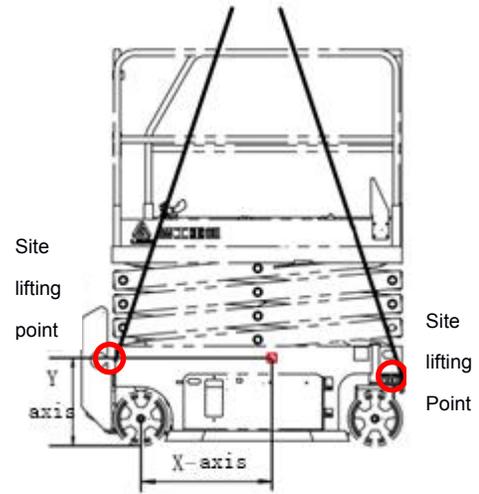
7) Be sure to use chains or tie straps of sufficient load capacity.

8) Secure the folded guard rail (if any) with a tie strap before transport

**Warning**

**Obey the following instructions.**

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



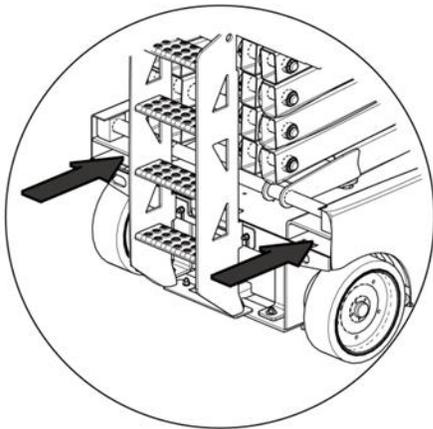
**Table 12 - Center of Gravity**

Model	X-axis(mm)	Y-axis (mm)
SS0407E	553	521
SS0507E	566.195	504.954
SS0607E	835.1	579.4
AS0607W	769.2	487.5
AS0607WE		
S0607E		
AS0607	546.3	478.8
AS0607E		
AS0608	823	615.6
AS0608E		
AS0808	860.2	645.6
AS0808E		
AS0612	1291.89	597
AS0612E		
AS0812	847.76	606.13
AS0812E		
AS1012	991.5	645
AS1012E		
AS1212	1202	683.15
AS1212E		
S1212E		
AS1413	1090.5	853
AS1413E		

- 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

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



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

- 2) The spreader can only be attached to the specified lifting point on the machine shown.
- 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.
- 4) Adjust the lock tool in such a way that the machine is not damaged and the machine is kept horizontal.

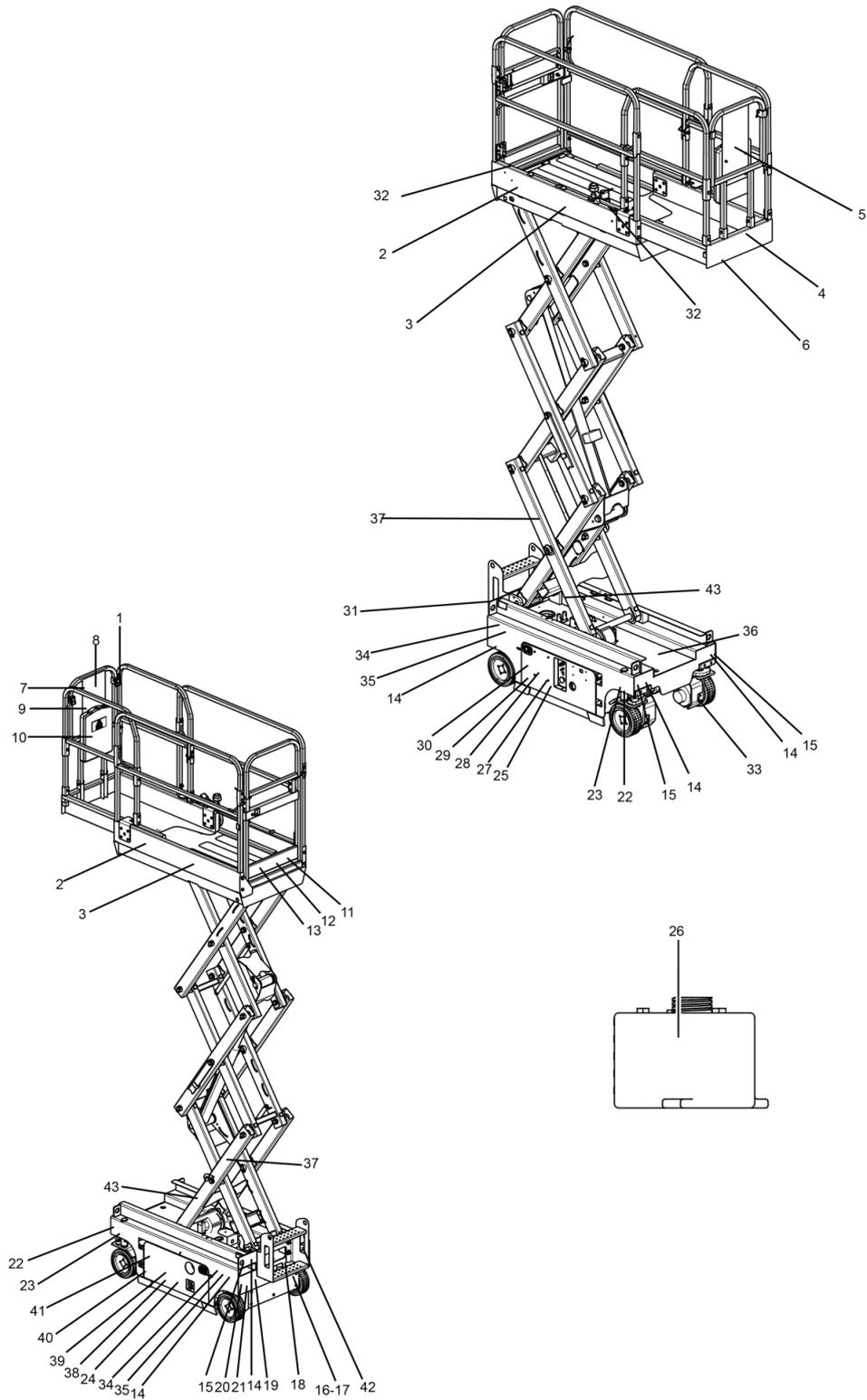
## 8.5 Parking and Storage

Follow the parking and storage instructions below:

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

# Chapter 9 Decals and Warning Labels

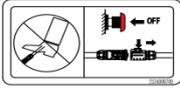
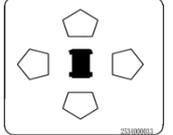
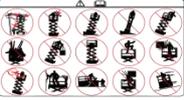
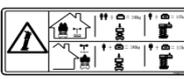
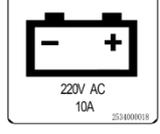
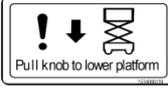
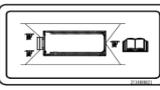
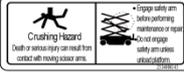
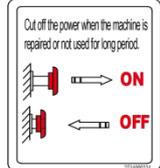
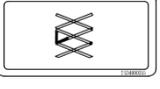
SS0407E/SS0507E/SS0607E

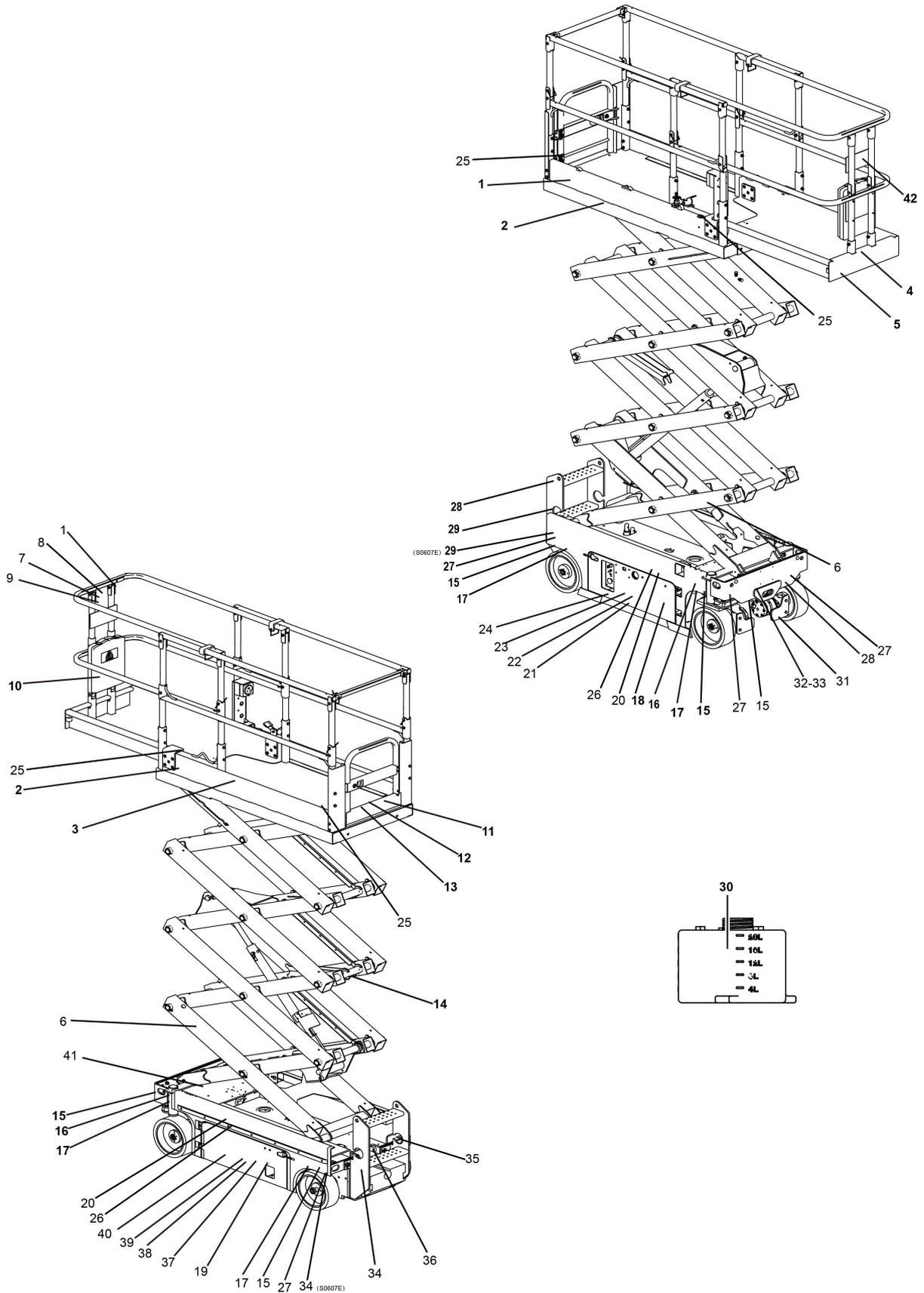


**SS0407E/SS0507E/SS0607E Label List**

Code	Name	Code	Name
1	Prohibited hot plug sign	23	Signs for progress direction
2	Company Logo	24	Electric shock hazard
3	Model identification	25	Attention mark of skin infraction
4	Warning line	26	Oil sign
5	Company Logo	27	Close the chassis bracket warning sign
6	IPAF	28	CE sign
7	Arrow indication sign	29	Warning description
8	Prohibition sign	30	Attention in overhaul
9	Reduce Platform warning sign	31	Fasting mark of transportation parts
10	Instructions	32	Lanyard Anchorage Point
11	Maximum manual force sign	33	No water Spray
12	Maximum manual force sign	34	Electric shock hazard
13	Platform safety warning sign	35	Crushing hazard sign
14	Hanger sign	36	Tilting hazard sign
15	Lifting Position	37	Stay away from machine warning signs
16	Whole machine nameplate	38	Turn off the power signs
17	Whole machine nameplate	39	Battery for counterweight warning signs
18	Battery charging sign	40	Warning signs for explosive burns
19	Emergency drop mark	41	Danger description
20	Safety warning signs for brake release	42	Forklift Fork Position
21	Electric shock hazard	43	Forklift safety arm sign
22	Wheel load capacity sign		

SS0407E/SS0507E/SS0607E Label

1-2534000709	2-2534000335	3-2534000913	3-2534000960	4-2534000024	5-2534000605
		<b>SS0407E</b> <b>SS0507E</b>	<b>SS0607E</b>		
6-2534000272	7-2534000033	8-2534000229	9-2534000013	10-2534000119	11-2534000140
<b>I P A F</b>					
11-2534000147	12-2534000134	12-2534000148	13-2534001273	13-2534000521	13-2534000535
					
14-2831990027	15-2534000027	16/17-2534001610	18-2534000018	19-2534000139	20-2534000016
					
21-2534000007	22-2534000539	22-2534000642	23-2534000102	24-2534000247	25-2534000029
					
26-2534000100	27-2534000010	28-2534000276	29-2534000145	30-2534000011	31-2534000021
					
32-2534000017	33-2534000124	34-2534000009	35-2534000143	36-2534000015	37-2534000142
					
38-2534000334	39-2534000008	40-2534000144	41-2534000146	42-2534000101	43-2534000355
					

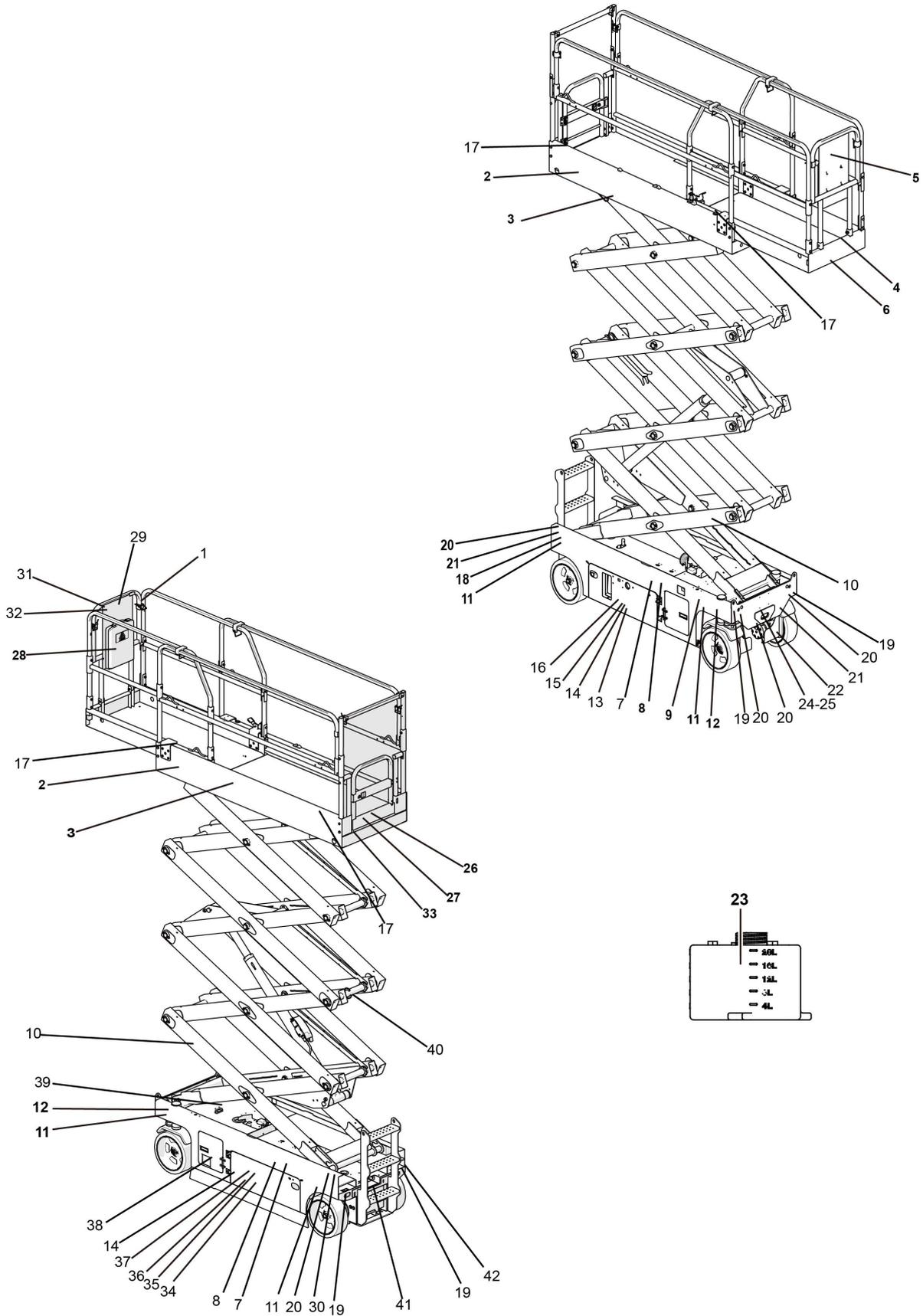


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 AS0607E/AS0607WE/S0607E Label List

Code	Name	Code	Name
1	Prohibited hot plug sign	22	Close the chassis bracket warning sign
2	Company Logo	23	Attention in overhaul
3	Model identification	24	CE sign
4	Warning line	25	Lanyard Anchorage Point
5	IPAF	26	Crushing hazard sign
6	Stay away from machine sign	27	Lifting Position
7	Prohibition sign	28	Fasting mark of transportation parts
8	Reduce Platform warning sign	29	Safety warning signs for brake release
9	Arrow indication sign	30	Oil sign
10	Instructions	31	No water Spray
11	Maximum manual force sign	32	Whole machine nameplate
12	Maximum manual force sign	33	Whole machine nameplate
13	Platform safety warning sign	34	Electric shock sign
14	Forklift safety arm sign	35	Forklift Fork Position
15	Hanger sign	36	Battery charging sign
16	Signs for progress direction	37	Danger description
17	Wheel load capacity sign	38	Warning description
18	Emergency drop mark	39	Warning signs for explosive burns
19	Electric shock hazard	40	Battery for counterweight warning signs
20	Electric shock hazard	41	Tilting hazard sign
21	Attention mark of skin infraction	42	Company Logo

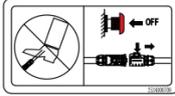
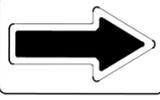
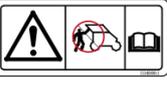
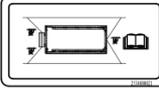
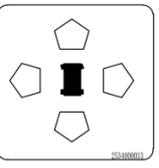
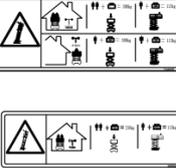
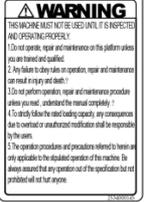
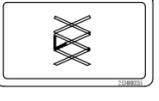
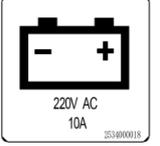




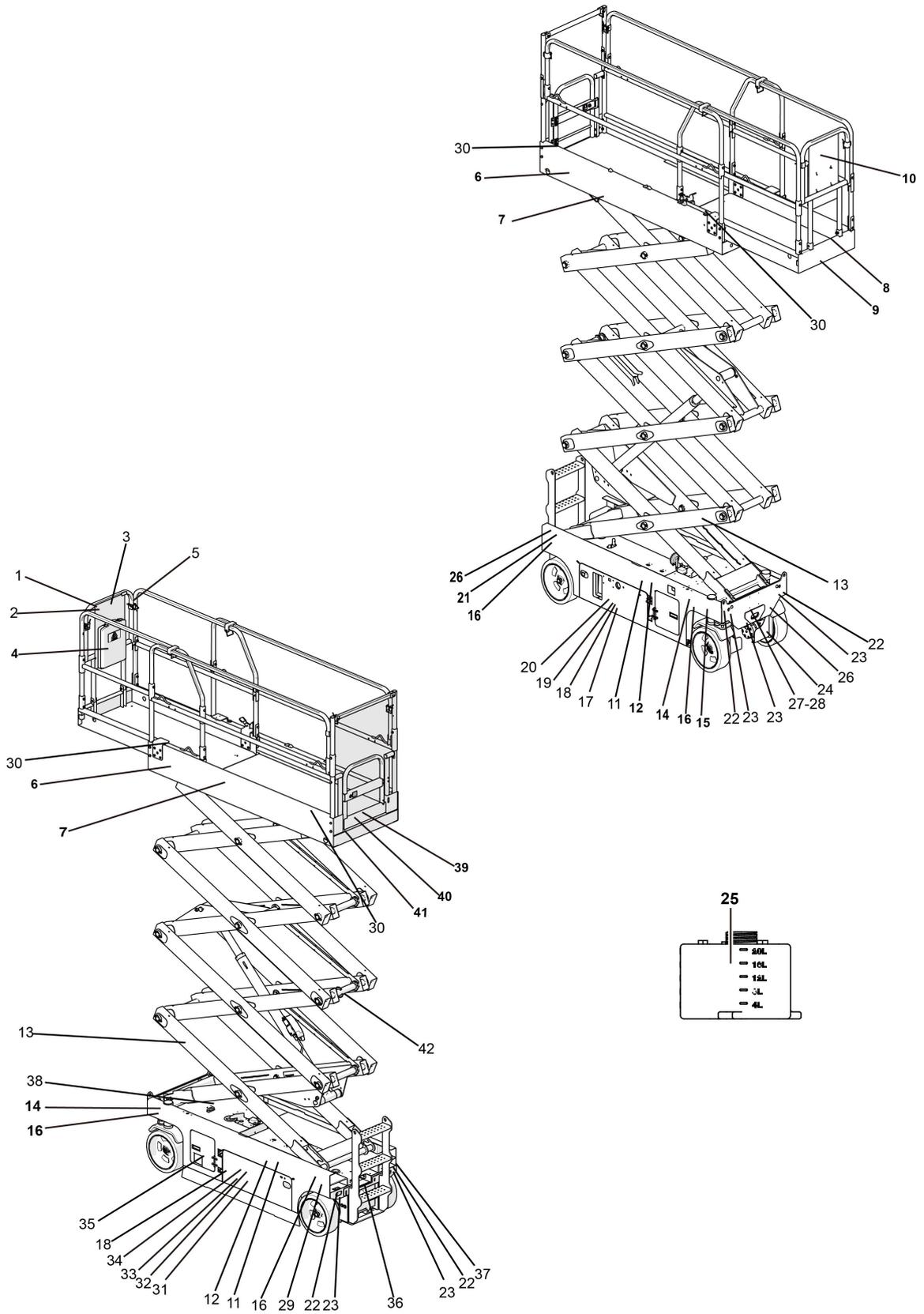
**AS0608E/AS0808E Label List**

Code	Name	Code	Name
1	Prohibited hot plug sign	22	No water spray
2	Company Logo	23	Oil sign
3	Model identification	24	Whole machine nameplate
4	Warning line	25	Whole machine nameplate
5	Company Logo	26	Maximum manual force sign
6	IPAF	27	Maximum manual force sign
7	Crushing hazard sign	28	Instructions
8	Electric shock hazard	29	Reduce Platform warning sign
9	Emergency drop mark	30	Electric shock sign
10	Stay away from machine sign	31	Prohibition sign
11	Wheel load capacity sign	32	Arrow indication sign
12	Signs for progress direction	33	Platform safety warning sign
13	Attention mark of skin infraction	34	Danger description
14	Close the chassis bracket warning sign	35	Warning description
15	Attention in overhaul	36	Warning signs for explosive burns
16	CE sign	37	Battery for counterweight warning signs
17	Lanyard Anchorage Point	38	Electric shock hazard
18	Safety warning signs for brake release	39	Tilting hazard sign
19	Lifting Position	40	Forklift safety arm sign
20	Hanger sign	41	Battery charging sign
21	Fasting mark of transportation parts	42	Forklift Fork Position

## AS0608E/AS0808E Label

1-2534000709	2-2534000219	3-2534000265/6	4-2534000024	5-2534000220	6-2534000272
		<b>AS0608E</b> <b>AS0808E</b>			<b>IPAF</b>
7-2534000143	8-2534000009	9-2534000139	10-2534000142	11-2534000211/207	12-2534000102
				Wheel load 770kg 	
13-2534000029	14-2534000010	15-2534000011	16-2534000276	17-2534000017	18-2534000016
					
19-2534000027	20-2831990027	21-2534000021	22-2534000124	23-2534000100	24/25-2534001610
				Max  Min	
26-2534000140/7	27-2534000134/148	28-2534000119	29-2534000013	30-2534000007	31-2534000229
Max. Manual Force 400N(Handrail) 200N(Cabinet)					
32-2534000033	33-2534000209/8	34-2534000146	35-2534000145	36-2534000144	37-2534000008
					
38-2534000247	39-2534000015	40-2534000032	41-2534000018	42-2534000101	
					

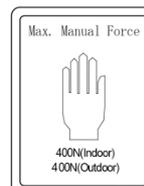
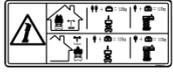
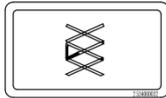
AS0612E/AS0812E/AS1012E/AS1212E/S1212E



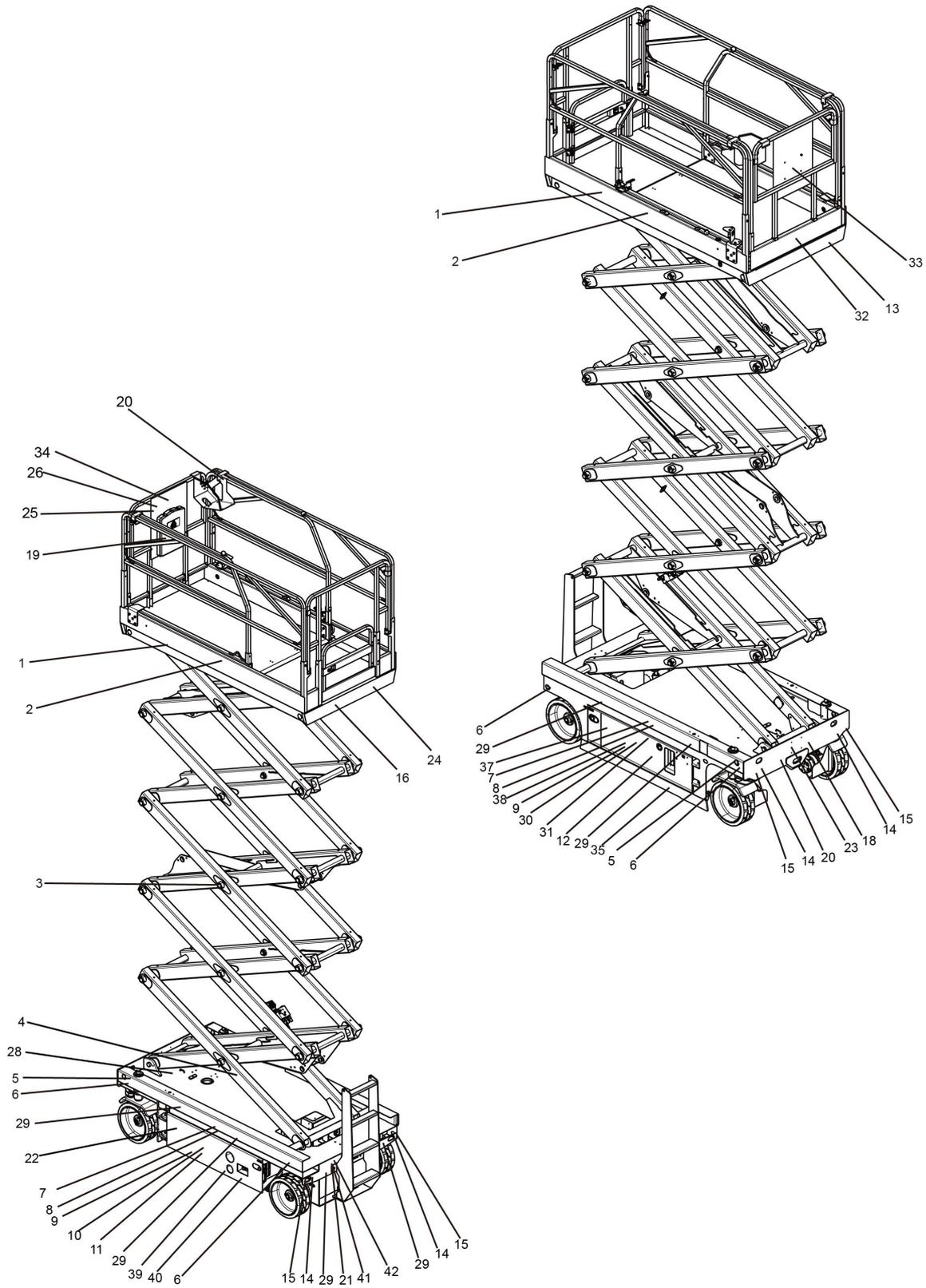
## AS0612E/AS0812E/AS1012E/AS1212E/S1212E Label list

Code	Name	Code	Name
1	Prohibition sign	22	Lifting Position
2	Arrow indication sign	23	Hanger sign
3	Reduce Platform warning sign	24	No water Spray
4	Instructions	25	Oil sign
5	Prohibited hot plug sign	26	Fasting mark of transportation parts
6	Company Logo	27	Whole machine nameplate
7	Model identification	28	Whole machine nameplate
8	Warning line	29	Electric shock sign
9	Company Logo	30	Lanyard Anchorage Point
10	IPAF	31	Danger description
11	Crushing hazard sign	32	Warning description
12	Electric shock hazard	33	Warning signs for explosive burns
13	Stay away from machine sign	34	Battery for counterweight warning signs
14	Signs for progress direction	35	Electric shock hazard
15	Emergency drop mark	36	Forklift Fork Position
16	Wheel load capacity sign	37	Battery charging sign
17	Attention mark of skin infraction	38	Tilting hazard sign
18	Close the chassis bracket warning sign	39	Maximum manual force sign
19	Attention in overhaul	40	Maximum manual force sign
20	CE sign	41	Platform safety warning sign
21	Safety warning signs for brake release	42	Forklift safety arm sign



<p>39-2534000147</p> 	<p>39-2534001187</p> 	<p>40-2534000134</p> 	<p>40-2534000148</p> 	<p>40-25340001182</p> 	<p>41-2534000141</p> 
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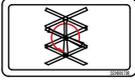
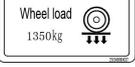
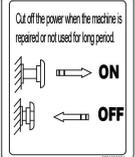
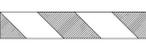
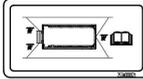
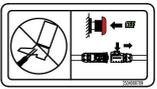
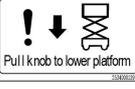
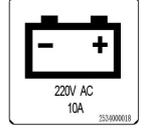
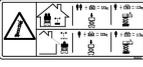
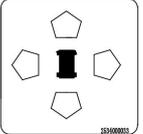
AS1413E



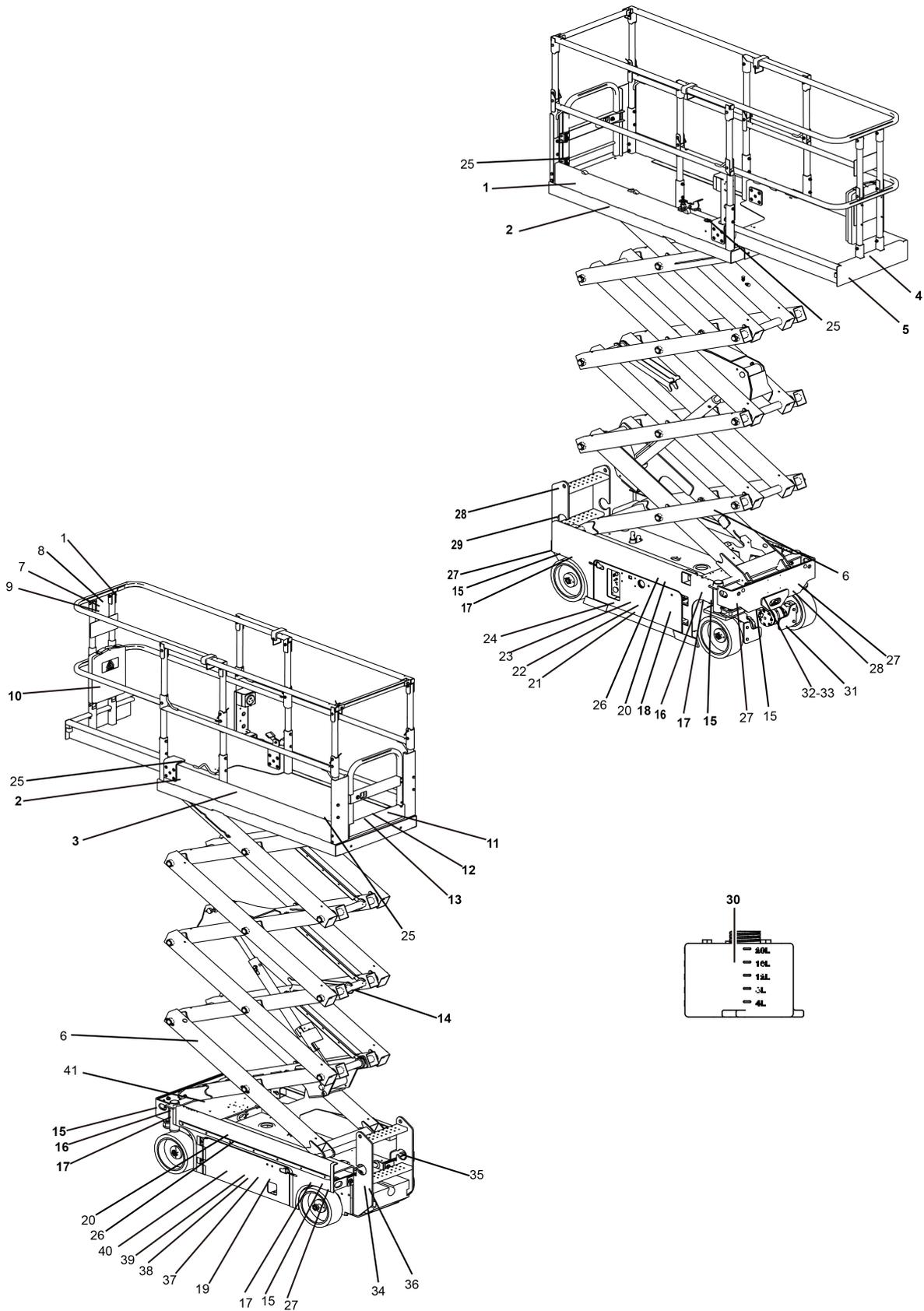
AS1413E Label List

Code	Name	Code	Name
1	Company Logo	22	Battery charging sign
2	Model identification	23	Whole machine nameplate
3	Forklift safety arm sign	24	Prohibited grounding sign
4	Stay away from machine sign	25	Arrow indication sign
5	Signs for progress direction	26	Prohibition sign
6	Wheel load capacity sign	27	Lanyard Anchorage Point
7	Electric shock hazard	28	Tilting hazard sign
8	Crushing hazard sign	29	Forklift Fork Position
9	Close the chassis bracket warning sign	30	Attention in overhaul
10	Warning signs for explosive burns	31	Attention mark of skin infraction
11	Battery for counterweight warning sign	32	IPAF
12	Power off identification	33	Company Logo
13	Warning line	34	Warning sign of lowered platform
14	Hanger sign	35	Warning line
15	Lifting Position	36	Electric shock hazard
16	Maximum manual force sign	37	Oil sign
17	Platform safety warning sign	38	CE sign
18	Fasting mark of transportation parts	39	Warning description
19	Instructions	40	Danger description
20	Prohibited hot plug sign	41	Safety warning signs for brake release
21	Emergency drop mark	42	Electric shock sign

## AS1413E Label

1-2534000218	2-2534001677	3-2534001708	4-2534000142	5-2534000102	6-2534000437
					
7-2534000009	8-2534000438	9-2534000010	10-2534000144	11-2534000008	12-2534000334
					
13-2534000024	14-2831990027	15-2534000027	16-2534000140/134	17-2534001272	18-2534000304
					
19-2534000119	20-2534000709	21-2534000139	22-254000018	23-2534001610	24-2534000141
					
25-2534000033	26-2534000229	27-2534000017	28-2534000015	29-2534000101	30-2534000011
					
31-2534000029	32-2534000272	33-2534000220	34-2534000013	35-2534000436	36-2534000247
					
37-2534000100	38-2534000276	39-2534000145	40-2534000146	41-2534000016	42-2534000007
					

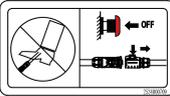
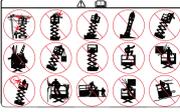
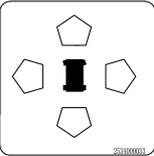
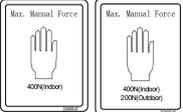
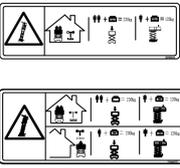
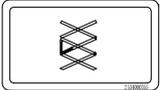
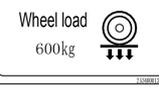
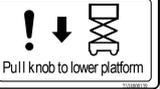
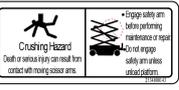
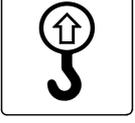
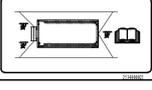
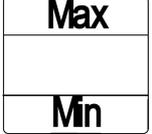
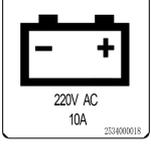
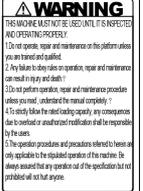
AS0607/AS0607W



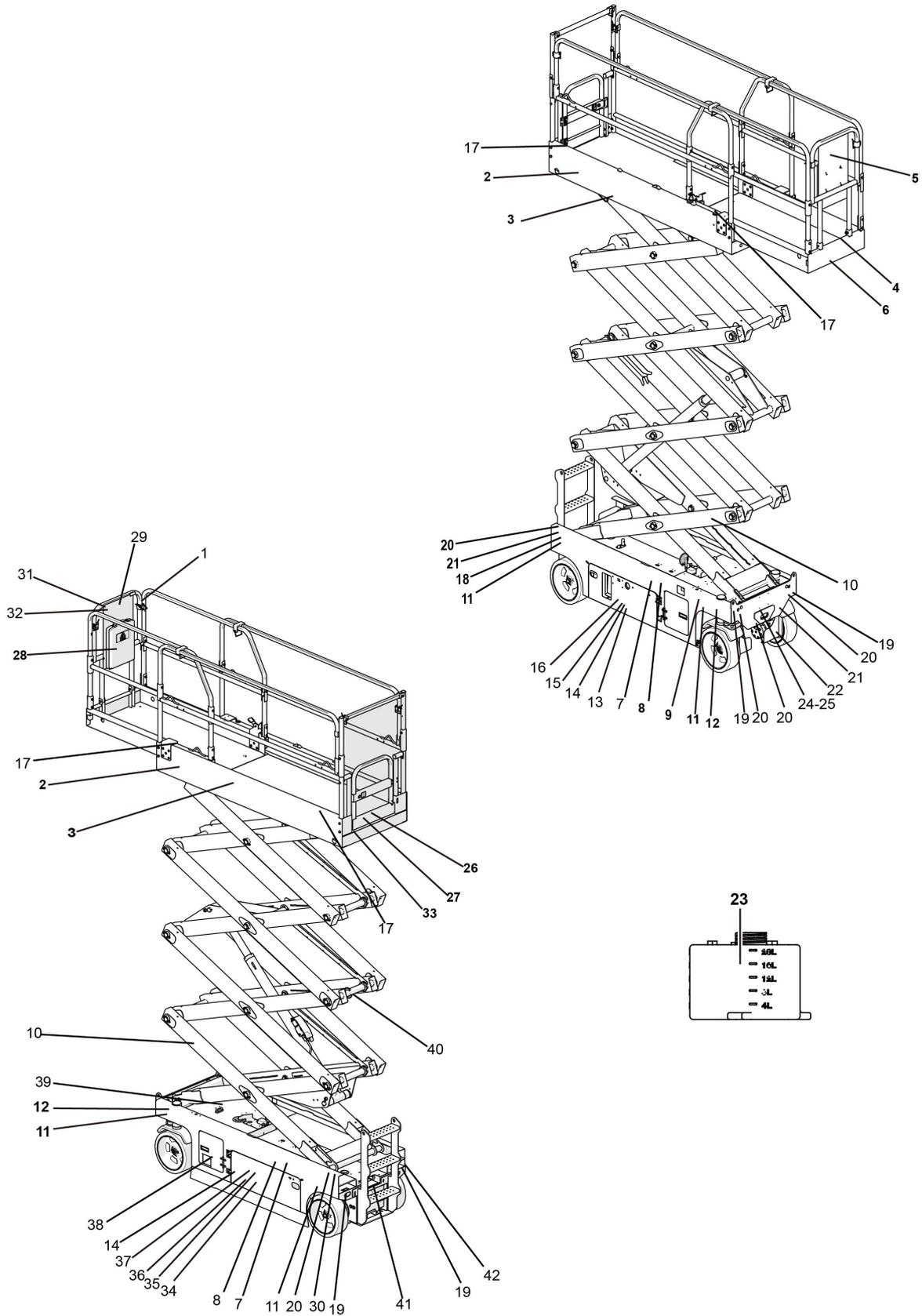
## AS0607/AS0607W Label List

Code	Name	Code	Name
1	Prohibited hot plug sign	22	Close the chassis bracket warning sign
2	Company Logo	23	Attention in overhaul
3	Model identification	24	CE sign
4	Warning line	25	Lanyard Anchorage Point
5	IPAF	26	Crushing hazard sign
6	Stay away from machine sign	27	Lifting Position
7	Prohibition sign	28	Fasting mark of transportation parts
8	Reduce Platform warning sign	29	Safety warning signs for brake release
9	Arrow indication sign	30	Oil sign
10	Instructions	31	No water Spray
11	Maximum manual force sign	32	Whole machine nameplate
12	Maximum manual force sign	33	Whole machine nameplate
13	Platform safety warning sign	34	Electric shock sign
14	Forklift safety arm sign	35	Forklift Fork Position
15	Hanger sign	36	Battery charging sign
16	Signs for progress direction	37	Danger description
17	Wheel load capacity sign	38	Warning description
18	Emergency drop mark	39	Warning signs for explosive burns
19	Electric shock hazard	40	Battery for counterweight warning signs
20	Electric shock hazard	41	Tilting hazard sign
21	Attention mark of skin infraction		

AS0607/AS0607W Label

1-2534000709	2-2534000218	3-2534000253/226	4-2534000024	5-2534000272	6-2534000142
					
7-2534000229	8-2534000013	9-2534000033	10-2534000119	11-2534000147/140	12-2534000148/134
					
13-2534000165/153	14-2534000032	15-2831990027	16-2534000102	17-2534000137	18-2534000139
					
19-2534000247	20-2534000009	21-2534000029	22-2534000010	23-2534000011	24-2534000276
					
25-2534000017	26-2534000143	27-2534000027	28-2534000021	29-2534000016	30-2534000100
					
31-2534000124	32/33-2534001610	34-2534000007	35-2534000101	36-2534000018	37-2534000146
					
38-2534000145	39-2534000144	40-2534000008	41-2534000015		
					

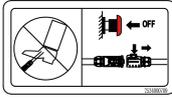
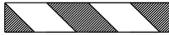
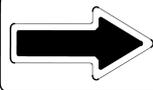
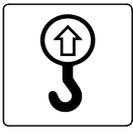
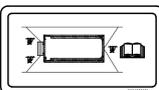
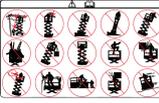
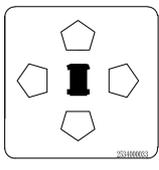
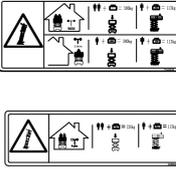
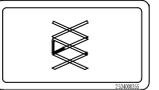
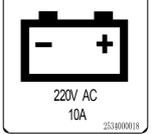
AS0608/AS0808

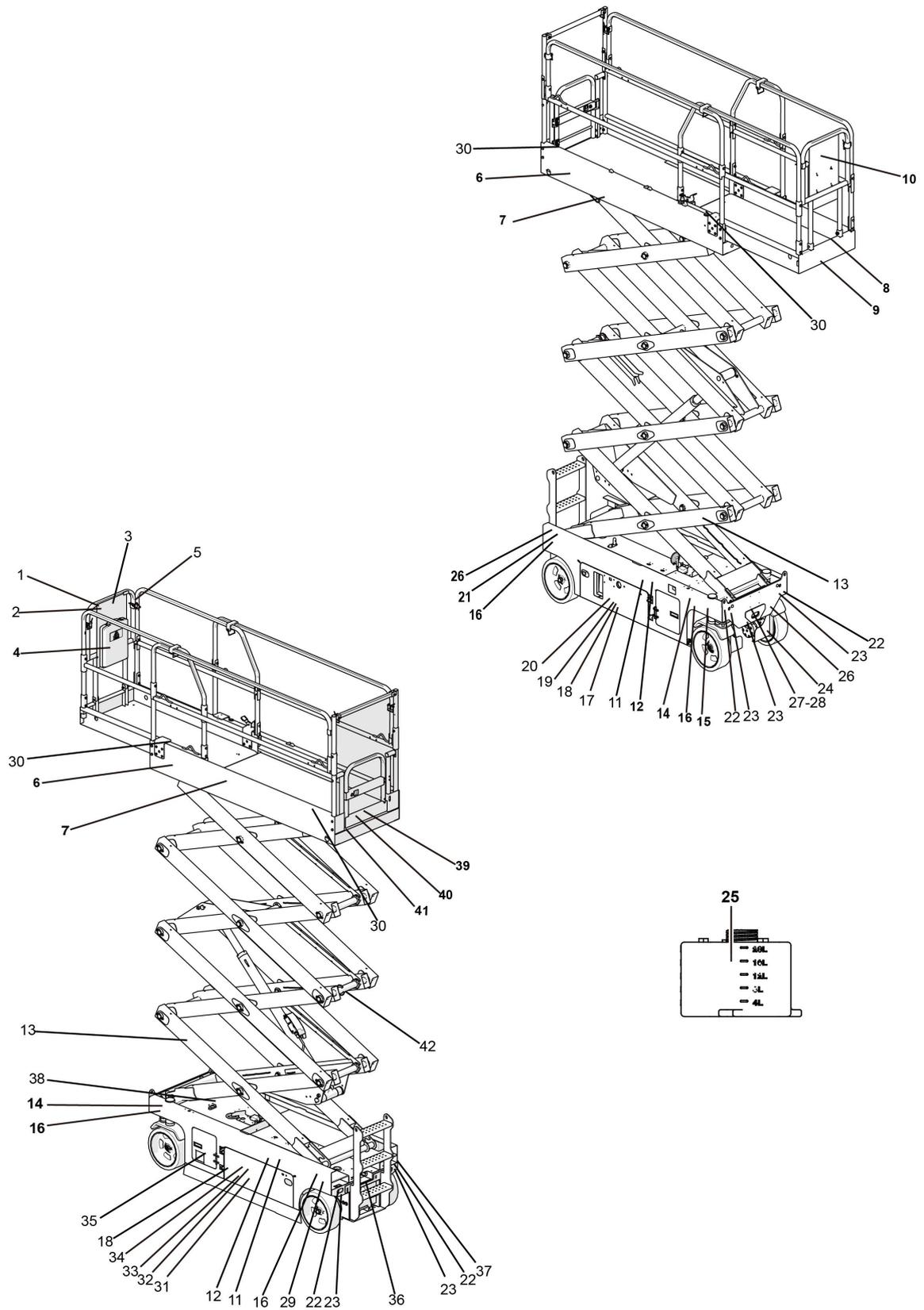


## AS0608/AS0808 Label List

Code	Name	Code	Name
1	Prohibited hot plug sign	22	No water Spray
2	Company Logo	23	Oil sign
3	Model identification	24	Whole machine nameplate
4	Warning line	25	Whole machine nameplate
5	Company Logo	26	Maximum manual force sign
6	IPAF	27	Maximum manual force sign
7	Crushing hazard sign	28	Instructions
8	Electric shock hazard	29	Reduce Platform warning sign
9	Emergency drop mark	30	Electric shock sign
10	Stay away from machine sign	31	Prohibition sign
11	Wheel load capacity sign	32	Arrow indication sign
12	Signs for progress direction	33	Platform safety warning sign
13	Attention mark of skin infraction	34	Danger description
14	Close the chassis bracket warning sign	35	Warning description
15	Attention in overhaul	36	Warning signs for explosive burns
16	CE sign	37	Battery for counterweight warning sign
17	Lanyard Anchorage Point	38	Electric shock hazard
18	Safety warning signs for brake release	39	Tilting hazard sign
19	Lifting Position	40	Forklift safety arm sign
20	Hanger sign	41	Battery charging sign
21	Fasting mark of transportation parts	42	Forklift Fork Position

AS0608/AS0808 Label

1-2534000709	2-2534000219	3-2534000265/6	4-2534000024	5-2534000220	6-2534000272
		<b>AS0808</b> <b>AS0608</b>			<b>IPAF</b>
7-2534000143	8-2534000009	9-2534000139	10-2534000142	11-2534000211/207	12-2534000102
				Wheel load 770kg	
13-2534000029	14-2534000010	15-2534000011	16-2534000276	17-2534000017	18-2534000016
					
19-2534000027	20-2831990027	21-2534000021	22-2534000124	23-2534000100	24/25-2534001610
				Max Min	
26-2534000140/7	27-2534000134/148	28-2534000119	29-2534000013	30-2534000007	31-2534000229
Max. Manual Force 450N(Indoor) 200N(Outdoor)					
32-2534000033	33-2534000209/8	34-2534000146	35-2534000145	36-2534000144	37-2534000008
					
38-2534000247	39-2534000015	40-2534000032	41-2534000018	42-2534000101	
					

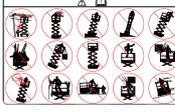
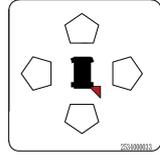
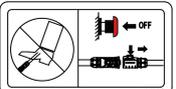
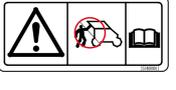
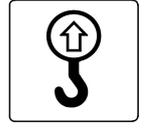
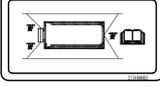


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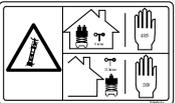
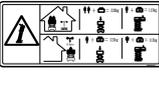
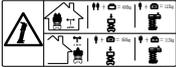
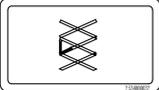
**AS0612/AS0812/AS1012/AS1212 Label List**

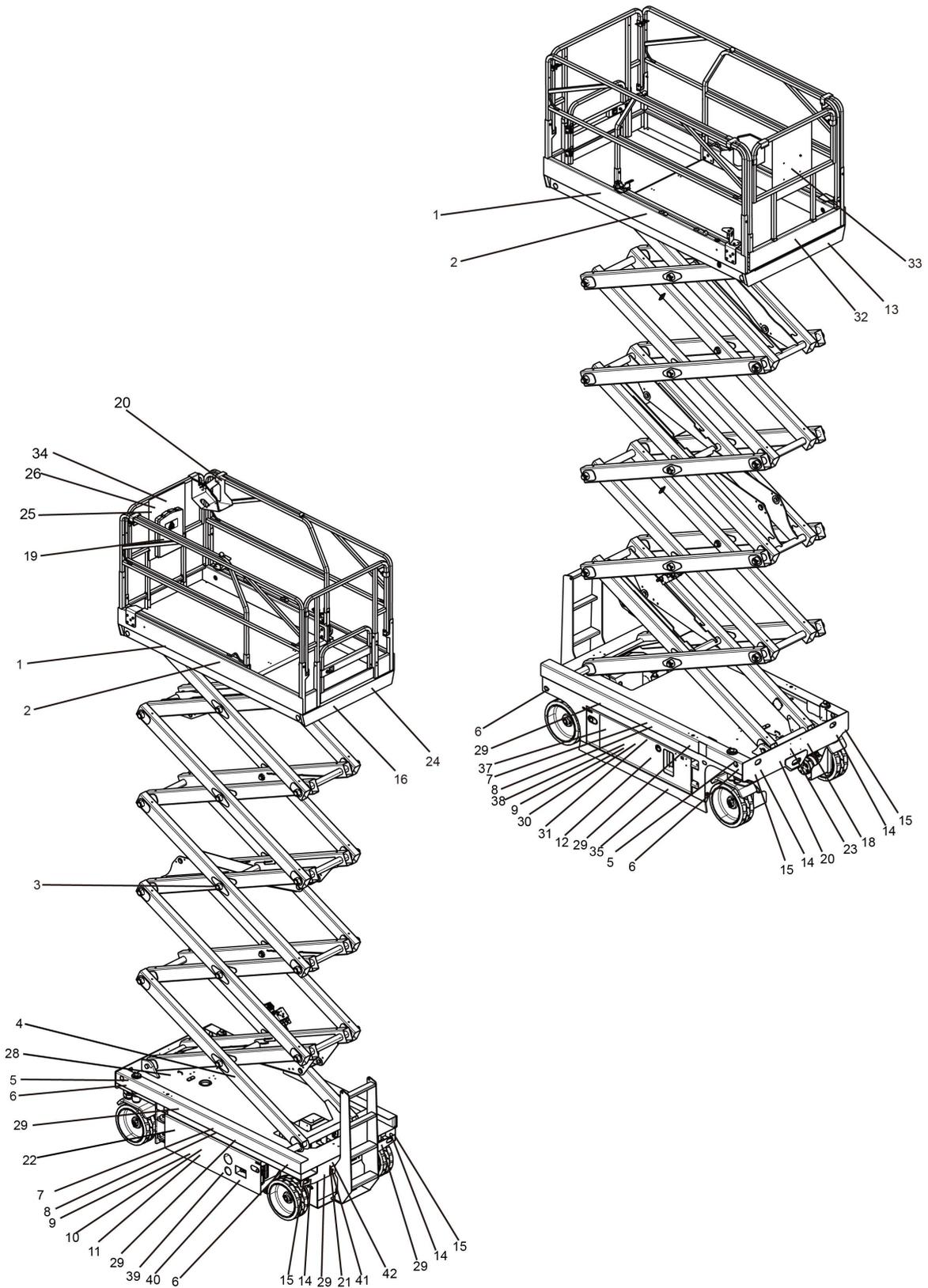
Code	Name	Code	Name
1	Prohibition sign	22	Lifting Position
2	Arrow indication sign	23	Hanger sign
3	Reduce Platform warning sign	24	No water Spray
4	Instructions	25	Oil sign
5	Prohibited hot plug sign	26	Fasting mark of transportation parts
6	Company Logo	27	Whole machine nameplate
7	Model identification	28	Whole machine nameplate
8	Warning line	29	Electric shock sign
9	Company Logo	30	Lanyard Anchorage Point
10	IPAF	31	Danger description
11	Crushing hazard sign	32	Warning description
12	Electric shock hazard	33	Warning signs for explosive burns
13	Stay away from machine sign	34	Battery for counterweight warning sign
14	Signs for progress direction	35	Electric shock hazard
15	Emergency drop mark	36	Forklift Fork Position
16	Wheel load capacity sign	37	Battery charging sign
17	Attention mark of skin infraction	38	Tilting hazard sign
18	Close the chassis bracket warning sign	39	Maximum manual force sign
19	Attention in overhaul	40	Maximum manual force sign
20	CE sign	41	Platform safety warning sign
21	Safety warning signs for brake release	42	Forklift safety arm sign

AS0612/AS0812 /AS1012/AS1212 Label

1-2534000229	2-2534000033	3-2534000013	4-2534000119	5-2534000709	6-2534000218/9
					
7-2534001223	7-2534000342	7-2534000222	8-2534000024	9-2534000220	10-2534000272
<b>AS0612</b>	<b>AS0812</b>	<b>AS1012</b> <b>AS1212</b>			<b>IPAF</b>
11-2534000143	12-2534000009	13-2534000142	14-2534000102	15-2534000139	16-2534000112/437
					Wheel load 1190kg Wheel load 1350kg
16-2534000546	16-2534000113	17-2534000029	18-2534000010	19-2534000011	20-2534000276
Wheel load 1136kg	Wheel load 1280kg				
21-2534000016	22-2534000027	23-2831990027	24-2534000124	25-2534000100	26-2534000021
		 Max. Manual Force		Max Min	
27/28-2534001610	29-2534000007	30-2534000017	31-2534000146	32-2534000145	33-2534000144
					
34-2534000008	35-2534000247	36-2534000101	37-2534000018	38-2534000015	39-2534000140
			220V AC 10A		Max. Manual Force 400N(Indoor) 200N(Outdoor)

AS0612/AS0812 /AS1012/AS1212 Label

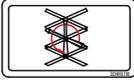
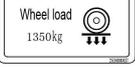
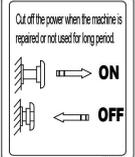
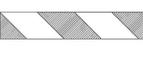
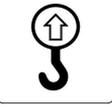
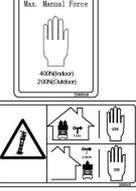
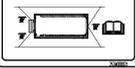
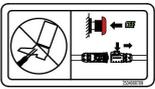
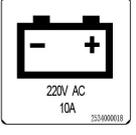
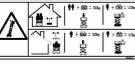
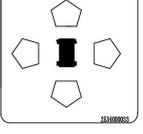
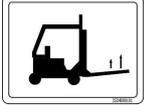
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<p>41-2534001183</p> 	<p>41-2534000478</p> 	<p>41-2534000149</p> 	<p>42-2534000032</p> 		

**AS1413 Label**


**AS1413 Label List**

Code	Name	Code	Name
1	Company Logo	21	Emergency drop sign
2	Model identification	22	Battery charging sign
3	Forklift safety arm sign	23	Whole machine nameplate
4	Stay away from machine sign	24	Prohibited grounding sign
5	Signs for progress direction	25	Arrow indication sign
6	Wheel load capacity sign	26	Prohibition sign
7	Electric shock hazard	27	Lanyard Anchorage Point
8	Crushing hazard sign	28	Tilting hazard sign
9	Close the chassis bracket warning sign	29	Forklift Fork Position
10	Warning signs for explosive burns	30	Attention in overhaul
11	Battery for counterweight warning sign	31	Attention mark of skin infraction
12	Power off identification	32	IPAF
13	Warning line	33	Company Logo
14	Hanger sign	34	Warning sign of lowered platform
15	Lifting Position	35	Warning line
16	Maximum manual force sign	36	Electric shock hazard
17	Platform safety warning sign	37	Oil sign
18	Instructions	38	CE sign
19	Instructions	39	Warning description
20	Prohibited hot plug sign	40	Danger description

## AS1413 Label

1-2534000218	2-2534000936	3-2534001708	4-2534000142	5-2534000102	6-2534000437
					
7-2534000009	8-2534000438	9-2534000010	10-2534000144	11-2534000008	12-2534000334
					
13-2534000024	14-2831990027	15-2534000027	16-2534000140/134	17-2534001272	18-2534000304
					
19-2534000119	20-2534000709	21-2534000139	22-254000018	23-2534001610	24-2534000141
					
25-2534000033	26-2534000229	27-2534000017	28-2534000015	29-2534000101	30-2534000011
					
31-2534000029	32-2534000272	33-2534000220	34-2534000013	35-2534000436	36-2534000247
					
37-2534000100	38-2534000276	39-2534000145	40-2534000146	41-2534000016	42-2534000007
					

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# Chapter 10 Specifications

**Table 13 - Platform Load Capacity**

Model (order No.)	SS0407E (S0407SDTCE10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	240Kg	outdoor	240Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
Model (order No.)	SS0507E (S0507SDTCE10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	230Kg	outdoor	230Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
Model (order No.)	SS0607E (S0607SDTCE10)			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	230Kg	outdoor	-
Recommend load capacity of extension deck	indoor	113Kg	outdoor	-
Model (order No.)	AS0607E(S06071DTCE10)			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	230Kg	outdoor	-
Recommend load capacity of extension deck	indoor	120Kg	outdoor	-

**Table 14 - Platform Load Capacity**

Model (order No.)	AS0607WE(S06071DTCE11)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	230Kg	outdoor	230Kg
Recommend load capacity of extension deck	indoor	120Kg	outdoor	120Kg
Model (order No.)	AS0608E(S06081DTCE10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	380Kg	outdoor	380Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
Model (order No.)	AS0808E (S08081DTCE10)			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	230Kg	outdoor	-
Recommend load capacity of extension deck	indoor	113Kg	outdoor	-
Model (order No.)	AS0812E (S08121DTCE10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	450Kg	outdoor	450Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg

**Table 15 - Platform Load Capacity**

<b>Model (order No.)</b>	AS0612E(S06121DTCE10)			
Maximum occupant capacity	indoor	4	outdoor	3
Maximum working load of platform	indoor	550Kg	outdoor	550Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
<b>Model (order No.)</b>	AS1012E (S10121DTCE10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	320Kg	outdoor	320Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
<b>Model (order No.)</b>	AS1212E(S12121DTCE10)			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	320Kg	outdoor	-
Recommend load capacity of extension deck	indoor	113Kg	outdoor	-
<b>Model (order No.)</b>	AS1413E (S14132DTCE10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	320Kg	outdoor	320Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg

**Table 16- Platform Load Capacity**

<b>Model (order No.)</b>	AS0607(S06071DTCH10)			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	230Kg	outdoor	-
Recommend load capacity of extension deck	indoor	120Kg	outdoor	-
<b>Model (order No.)</b>	AS0607W(S06071DTCH11)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	230Kg	outdoor	230Kg
Recommend load capacity of extension deck	indoor	120Kg	outdoor	120Kg
<b>Model (order No.)</b>	AS0608(S06081DTCH10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	380Kg	outdoor	380Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
<b>Model (order No.)</b>	AS0808 (S08081DTCH10)			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	230Kg	outdoor	-
Recommend load capacity of extension deck	indoor	113Kg	outdoor	-

**Table 17- Platform Load Capacity**

<b>Model (order No.)</b>	AS0612(S06121DTCH10)			
Maximum occupant capacity	indoor	4	outdoor	3
Maximum working load of platform	indoor	550Kg	outdoor	550Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
<b>Model (order No.)</b>	AS0812 (S08121DTCH10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	450Kg	outdoor	450Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
<b>Model (order No.)</b>	AS1012 (S10121DTCH10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	320Kg	outdoor	320Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg
<b>Model (order No.)</b>	AS1212(S12121DTCH10)			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	320Kg	outdoor	-
Recommend load capacity of extension deck	indoor	113Kg	outdoor	-
<b>Model (order No.)</b>	AS1413 (S14132DTCH10)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	320Kg	outdoor	320Kg
Recommend load capacity of extension deck	indoor	113Kg	outdoor	113Kg

**Table 17-1- Platform Load Capacity**

<b>Model (order No.)</b>	S0607E(S060702WDT0CE1000)			
Maximum occupant capacity	indoor	2	outdoor	1
Maximum working load of platform	indoor	230Kg	outdoor	230Kg
Recommend load capacity of extension deck	indoor	120Kg	outdoor	120Kg
<b>Model (order No.)</b>	S1212E (S121202NDT0CE1000)			
Maximum occupant capacity	indoor	2	outdoor	-
Maximum working load of platform	indoor	320Kg	outdoor	-
Recommend load capacity of extension deck	indoor	120Kg	outdoor	-

**Table 18-SS0407E Operating Specifications**

Model	SS0407E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	5.6
Maximum height of platform (m)	3.6
Extending size of platform (m)	0.6
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	400 ± 100
Maximum allowed wind speed(m/s)	12.5
Traveling speed of machine (folding status) (km/h)	3.5
Traveling speed of machine (lifting status) (km/h)	0.5
Lifting/lowering speed (S)	25/20
Minimum turning radius (m)	1.5
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	1.53/1.35
Overall width (m)	0.76
Tyre size (diameter×width)	230×80
Dimension of working platform (L×W) (m)	1.35×0.7
Wheel tread (mm)	680
Wheelbase (front/rear) (mm)	1120
Ground clearance (folding /lifting status) (mm)	50/16
Overall height (m) (Folding without enclosure/Folding)	2.06/1.82
Overall weight (kg)	880
Hoisting Motor	Rated Power (KW) 1.6

Battery	Output Voltage(V)	12
	Capacity (Ah)	115
Charge	Nominal AC Input Voltage	100-240VAC
	Maximum DC Output Current	15
	Nominal DC Output Voltage	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		13
Hydraulic oil		4.5L
Ground bearing information		
Maximum wheel load		480Kg
Tire contact pressure		1116.71KPa
Ground pressure		10.71KPa

**Table 19 – SS0507E Operating Specifications**

Model	SS0507E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	6.3
Maximum height of platform (m)	4.3
Extending size of platform (m)	0.6
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	400 ± 100
Maximum allowed wind speed(m/s)	12.5
Traveling speed of machine (folding status) (km/h)	3.5
Traveling speed of machine (lifting	0.5

status) (km/h)		
Lifting/lowering speed (S)		25/20
Minimum turning radius (m)		1.5
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		1.53/1.35
Overall width (m)		0.81
Tyre size (diameter×width)		230×80
Dimension of working platform (L×W) (m)		1.35×0.7
Wheel tread (mm)		730
Wheelbase (front/rear) (mm)		1120
Ground clearance (folding /lifting status) (mm)		50/16
Overall height (m) (Folding without enclosure/Folding)		2.15/1.9
Overall weight (kg)		985
Hoisting Motor	Rated Power (KW)	1.6
Battery	Output Voltage(V)	12
	Capacity (Ah)	150
Charge	Nominal AC Input Voltage	100-240VAC
	Maximum DC Output Current	15
	Nominal DC Output Voltage	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		15
Hydraulic oil		4.5L
Ground bearing information		
Maximum wheel load		480Kg
Tire contact pressure		1471.5KPa
Ground pressure		10.94KPa

Table 20 – SS0607E Operating Specifications

Model		SS0607E
Item		Parameter
Maximum number of worker		2
Maximum working height (m)		7.5
Maximum height of platform (m)		5.5
Extending size of platform (m)		0.6
Maximum allowable working angle (forward)		3°
Maximum allowable working angle (backward)		3°
Maximum allowable working angle (sideward)		1.5°
Braking distance		500 ± 100
Maximum allowed wind speed(m/s)		0
Traveling speed of machine (folding status) (km/h)		3.5
Traveling speed of machine (lifting status) (km/h)		0.5
Lifting/lowering speed (S)		32/27
Minimum turning radius (m)		1.5
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		1.53/1.35
Overall width (m)		0.81
Tyre size (diameter×width)		230×80
Dimension of working platform (L×W) (m)		1.35×0.7
Wheel tread (mm)		730
Wheelbase (front/rear) (mm)		1120
Ground clearance (folding /lifting status) (mm)		50/16
Overall height (m) (Folding without enclosure/Folding)		2.275/2
Overall weight (kg)		1335
Hoisting Motor	Rated Power (KW)	2.2

Battery	Output Voltage(V)	12	Traveling speed of machine (folding status) (km/h)	3.5
	Capacity (Ah)	150		Traveling speed of machine (lifting status) (km/h)
Charge	Nominal AC Input Voltage	100-240VAC	Lifting/lowering speed (S)	
	Maximum DC Output Current	15	Minimum turning radius (m)	1.72
	Nominal DC Output Voltage	24	Theoretical gradeability	25%
Ground environment noise radiation		< 70dBA	Overall length (m) (with ladder/without ladder)	1.86/1.68
Platform environment noise		< 70dBA	Overall width (m)	0.76
Type	Open-type system		Tyre size (diameter×width)	323×100
Main pump	Gear Pump		Dimension of working platform (L×W) (m)	1.63×0.74
System pressure (MPa)	15		Wheel tread (mm)	660
Hydraulic oil	4.5L		Wheelbase (front/rear) (mm)	1350
Ground bearing information			Ground clearance (folding /lifting status) (mm)	80/20
Maximum wheel load	540Kg		Overall height (m) (Folding without enclosure/Folding)	2.14/1.84
Tire contact pressure	1454.66KPa		Overall weight (kg)	1610
Ground pressure	13.46KPa		Hoisting Motor	Rated Power (KW)
				3.3
			Battery	Output Voltage(V)
				6
				Capacity (Ah)
				225
			Charger	Nominal AC Input Voltage(V)
				100-240VAC
				Maximum DC Output Current(A)
				30
				Nominal DC Output Voltage(V)
				24
			Ground environment noise radiation	< 70dBA
			Platform environment noise	< 70dBA
			Type	Open-type system
			Main pump	Gear Pump
			System pressure (MPa)	21
			Hydraulic oil	9.5L
			Ground bearing information	

**Table 21-AS0607E Operating Specifications**

Model	AS0607E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	7.8
Maximum height of platform (m)	5.8
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	0

Maximum wheel load	600Kg
Tire contact pressure	1074.83Kpa
Ground pressure	14.30Kpa

**Table 22-AS0607WE Operating Specifications**

Model	AS0607WE
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	7.8
Maximum height of platform (m)	5.8
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 150
Maximum allowed wind speed(m/s)	12.5
Traveling speed of machine (folding status) (km/h)	4
Traveling speed of machine (lifting status) (km/h)	0.8
Lifting/lowering speed (S)	16/28
Minimum turning radius (m)	1.75
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	1.86/1.68
Overall width (m)	0.81
Tyre size (diameter×width)	323×100
Dimension of working platform (L×W) (m)	1.63×0.74
Wheel tread (mm)	710
Wheelbase (front/rear) (mm)	1350
Ground clearance (folding /lifting status) (mm)	80/20
Overall height (m) (Folding without	2.14/1.84

enclosure/Folding)		
Overall weight (kg)		1620
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	6
	Capacity (Ah)	225
Charger	Nominal AC Input Voltage(V)	100-240VAC
	Maximum DC Output Current(A)	30
	Nominal DC Output Voltage(V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		21
Hydraulic oil		9.5L
Ground bearing information		
Maximum wheel load		600Kg
Tire contact pressure		981Kpa
Ground pressure		13.49Kpa

**Table 23 – AS0608E Operating Specifications**

Model	AS0608E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	7.9
Maximum height of platform (m)	5.9
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle	1.5°

(sideward)	
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	12.5
Traveling speed of machine (folding status) (km/h)	3.5
Traveling speed of machine (lifting status) (km/h)	0.8
Lifting/lowering speed (S)	30/34
Minimum turning radius (m)	2.15
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	2.40/2.25
Overall width (m)	0.83
Tyre size (diameter×width)	380×130
Dimension of working platform (L×W) (m)	2.26×0.81
Wheel tread (mm)	700
Wheelbase (front/rear) (mm)	1850
Ground clearance (folding /lifting status) (mm)	100/25
Overall height (m) (Folding without enclosure/Folding)	2.19/1.83
Overall weight (kg)	2000
Hoisting Motor	Rated Power (KW) 3.3
Battery	Output Voltage(V) 6
	Capacity (Ah) 225
Charger	Nominal AC Input Voltage(V) 100-240VAC
	Maximum DC Output Current(A) 30
	Nominal DC Output Voltage(V) 24
Ground environment noise radiation	< 70dBA
Platform environment noise	< 70dBA
Type	Open-type system
Main pump	Gear Pump

System pressure (MPa)	21
Hydraulic oil	13L
Ground bearing information	
Maximum wheel load	770Kg
Tire contact pressure	931.87Kpa
Ground pressure	11.71Kpa

**Table 24 – AS0808E Operating Specifications**

Model	AS0808E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	10
Maximum height of platform (m)	8
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	0
Traveling speed of machine (folding status) (km/h)	3.5
Traveling speed of machine (lifting status) (km/h)	0.8
Lifting/lowering speed (S)	31/40
Minimum turning radius (m)	2.15
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	2.40/2.25
Overall width (m)	0.83
Tyre size (diameter×width)	380×130
Dimension of working platform (L×W) (m)	2.26×0.81
Wheel tread (mm)	700
Wheelbase (front/rear) (mm)	1850

Ground clearance (folding /lifting status) (mm)		100/25
Overall height (m) (Folding without enclosure/Folding)		2.32/1.95
Overall weight (kg)		2140
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	6
	Capacity (Ah)	225
Charger	Nominal AC Input Voltage(V)	100-240VAC
	Maximum DC Output Current(A)	30
	Nominal DC Output Voltage(V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		21
Hydraulic oil		13L
Ground bearing information		
Maximum wheel load		830Kg
Tire contact pressure		840.71Kpa
Ground pressure		12.45Kpa

(sideward)		
Braking distance		500 ± 100
Maximum allowed wind speed(m/s)		12.5
Traveling speed of machine (folding status) (km/h)		4
Traveling speed of machine (lifting status) (km/h)		0.8
Lifting/lowering speed (S)		30/33
Minimum turning radius (m)		2.3
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		2.42/2.25
Overall width (m)		1.18
Tyre size (diameter×width)		380×130
Dimension of working platform (L×W) (m)		2.26×1.12
Wheel tread (mm)		1040
Wheelbase (front/rear) (mm)		1850
Ground clearance (folding /lifting status) (mm)		100/20
Overall height (m) (Folding without enclosure/Folding)		2.18/1.61
Overall weight (kg)		2225
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	6
	Capacity (Ah)	240
Charger	Nominal AC Input Voltage (V)	100-240VAC
	Maximum DC Output Current (A)	30
	Nominal DC Output Voltage (V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump

**Table 25-AS0612E Operating Specifications**

Model	AS0612E
Item	Parameter
Maximum number of worker	4
Maximum working height (m)	8.2
Maximum height of platform (m)	6.2
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle	1.5°

System pressure (MPa)	21
Hydraulic oil	16L
Ground bearing information	
Maximum wheel load	1350Kg
Tire contact pressure	1367.42 KPa
Ground pressure	10.28Kpa

**Table 26 – AS0812E Operating Specifications**

Model	AS0812E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	10
Maximum height of platform (m)	8
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	12.5
Traveling speed of machine (folding status) (km/h)	4
Traveling speed of machine (lifting status) (km/h)	0.8
Lifting/lowering speed (S)	35/40
Minimum turning radius (m)	2.3
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	2.42/2.25
Overall width (m)	1.18
Tyre size (diameter×width)	380×130
Dimension of working platform (L×W) (m)	2.26×1.12
Wheel tread (mm)	1040
Wheelbase (front/rear) (mm)	1850

Ground clearance (folding /lifting status) (mm)		100/20
Overall height (m) (Folding without enclosure/Folding)		2.30/1.73
Overall weight (kg)		2360
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	6
	Capacity (Ah)	240
Charger	Nominal AC Input Voltage (V)	100-240VAC
	Maximum DC Output Current (A)	30
	Nominal DC Output Voltage (V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		21
Hydraulic oil		16L
Ground bearing information		
Maximum wheel load		1136Kg
Tire contact pressure		1125.62 KPa
Ground pressure		11.85Kpa

**Table 27 – AS1012E Operating Specifications**

Model	AS1012E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	12
Maximum height of platform (m)	10
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°

Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	12.5
Traveling speed of machine (folding status) (km/h)	3.5
Traveling speed of machine (lifting status) (km/h)	0.8
Lifting/lowering speed (S)	58/48
Minimum turning radius (m)	2.3
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	2.47/2.25
Overall width (m)	1.18
Tyre size (diameter×width)	380×130
Dimension of working platform (L×W) (m)	2.26×1.12
Wheel tread (mm)	1040
Wheelbase (front/rear) (mm)	1850
Ground clearance (folding /lifting status) (mm)	100/20
Overall height (m) (Folding without enclosure/Folding)	2.43/1.86
Overall weight (kg)	3000
Hoisting Motor	Rated Power (KW) 3.3
Battery	Output Voltage(V) 6
	Capacity (Ah) 240
Charger	Nominal AC Input Voltage (V) 100-240VAC
	Maximum DC Output Current (A) 30
	Nominal DC Output Voltage (V) 24
Ground environment noise radiation	< 70dBA
Platform environment noise	< 70dBA
Type	Open-type system

Main pump	Gear Pump
System pressure (MPa)	21
Hydraulic oil	23L
Ground bearing information	
Maximum wheel load	1190Kg
Tire contact pressure	1238.78 KPa
Ground pressure	11.48Kpa

**Table 28 – AS1212E Operating Specifications**

Model	AS1212E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	14
Maximum height of platform (m)	12
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	0
Traveling speed of machine (folding status) (km/h)	3
Traveling speed of machine (lifting status) (km/h)	0.8
Lifting/lowering speed (S)	58/60
Minimum turning radius (m)	2.3
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	2.47/2.25
Overall width (m)	1.18
Tyre size (diameter×width)	380×130
Dimension of working platform (L×W) (m)	2.26×1.12
Wheel tread (mm)	1040

Wheelbase (front/rear) (mm)		1850
Ground clearance (folding /lifting status) (mm)		100/20
Overall height (m) (Folding without enclosure/Folding)		2.59/1.99
Overall weight (kg)		3160
Hoisting Motor	Rated Power (KW)	3.3
	Output Voltage(V)	12
Battery	Capacity (Ah)	150
	Nominal AC Input Voltage (V)	100-240VAC
Charger	Maximum DC Output Current (A)	30
	Nominal DC Output Voltage (V)	24
	Ground environment noise radiation	< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		21
Hydraulic oil		23L
Ground bearing information		
Maximum wheel load		1280Kg
Tire contact pressure		1316.78 KPa
Ground pressure		13.41Kpa

Maximum allowable working angle (backward)		3°
Maximum allowable working angle (sideward)		1.5°
Extending size of platform (m)		0.9
Braking distance		500 ± 100
Maximum allowed wind speed(m/s)		12.5
Traveling speed of machine (folding status) (km/h)		3.5
Traveling speed of machine (lifting status) (km/h)		0.8
Lifting/lowering speed (S)		80/65
Minimum turning radius (m)		2.85
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		2.80/2.65
Overall width (m)		1.3
Tyre size (diameter×width)		380×130
Dimension of working platform (L×W) (m)		2.64×1.12
Wheel tread (mm)		1175
Wheelbase (front/rear) (mm)		2220
Ground clearance (folding /lifting status) (mm)		105/20
Overall height (Folding/Without folding) (m)		1.94/2.74
Overall weight (kg)		3500
Hoisting Motor	Rated Power (KW)	4.5
	Output Voltage(V)	12
Battery	Capacity (Ah)	150
	Nominal AC Input Voltage (V)	100-240V AC
Charger	Maximum DC Output current (A)	30
	Nominal DC Output Voltage (V)	24
	Ground environment noise radiation	< 70dBA
Platform environment noise		< 70dBA

**Table 29 – AS1413E Operating Specifications**

Model	AS1413E	
Item	Parameter	
Maximum number of worker	2	
Maximum working height (m)	In door	15.8
	Out door	10
Maximum height of platform (m)	In door	13.8
	Out door	8
Maximum allowable working angle (forward)	3°	

Type	Open-type system
Main pump	Gear Pump
Model	AS1413E
System pressure (MPa)	21
Hydraulic oil	25.5L
Ground bearing information	
Maximum wheel load	1350Kg
Tire contact pressure	1154.71 KPa
Ground pressure	10.8Kpa

**Table 30 – AS0607 Operating Specifications**

Model	AS0607
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	7.8
Maximum height of platform (m)	5.8
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	0
Extending size of platform (m)	0.9
Traveling speed of machine (folding status) (km/h)	3.2
Traveling speed of machine (lifting status) (km/h)	0.8
Lifting/lowering speed (S)	16/28
Minimum turning radius (m)	1.65
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	1.83/1.65
Overall width (m)	0.76
Tyre size (diameter×width)	305×114

Dimension of working platform (L×W) (m)		1.63×0.74
Wheel tread (mm)		646
Wheelbase (front/rear) (mm)		1320
Ground clearance (folding /lifting status) (mm)		60/20
Overall height (m) (Folding without enclosure/Folding)		2.12/1.82
Overall weight (kg)		1580
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	6
	Capacity (Ah)	225
Charger	Nominal AC Input Voltage(V)	100-240VAC
	Maximum DC Output Current(A)	30
	Nominal DC Output Voltage(V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		24
Hydraulic oil		9.5L
Ground bearing information		
Maximum wheel load		600Kg
Tire contact pressure		981Kpa
Ground pressure		14.30Kpa

**Table 31 – AS0607W Operating Specifications**

Model	AS0607W	
Item	Parameter	
Maximum number of worker	2	
Maximum working height (m)	7.8	
Maximum height of platform (m)	5.8	
Extending size of platform (m)	0.9	
Maximum allowable working angle (forward)	3°	
Maximum allowable working angle (backward)	3°	
Maximum allowable working angle (sideward)	1.5°	
Braking distance	500 ± 100	
Maximum allowed wind speed(m/s)	12.5	
Traveling speed of machine (folding status) (km/h)	3.2	
Traveling speed of machine (lifting status) (km/h)	0.8	
Lifting/lowering speed (S)	16/28	
Minimum turning radius (m)	1.7	
Theoretical gradeability	25%	
Overall length (m) (with ladder/without ladder)	1.83/1.65	
Overall width (m)	0.81	
Tyre size (diameter×width)	305×114	
Dimension of working platform (L×W) (m)	1.63×0.74	
Wheel tread (mm)	696	
Wheelbase (front/rear) (mm)	1320	
Ground clearance (folding /lifting status) (mm)	60/20	
Overall height (m) (Folding without enclosure/Folding)	2.12/1.82	
Overall weight (kg)	1600	
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	6

	Capacity (Ah)	225
Charger	Nominal AC Input Voltage(V)	100-240VAC
	Maximum DC Output Current(A)	30
	Nominal DC Output Voltage(V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		24
Hydraulic oil		9.5L
Ground bearing information		
Maximum wheel load		600Kg
Tire contact pressure		981Kpa
Ground pressure		13.49Kpa

**Table 32 – AS0608 Operating Specifications**

Model	AS0608	
Item	Parameter	
Maximum number of worker	2	
Maximum working height (m)	7.9	
Maximum height of platform (m)	5.9	
Extending size of platform (m)	0.9	
Maximum allowable working angle (forward)	3°	
Maximum allowable working angle (backward)	3°	
Maximum allowable working angle (sideward)	1.5°	
Braking distance	500 ± 100	
Maximum allowed wind speed(m/s)	12.5	
Traveling speed of machine (folding status) (km/h)	3	
Traveling speed of machine (lifting	0.8	

status) (km/h)		
Lifting/lowering speed (S)		30/34
Minimum turning radius (m)		2.15
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		2.40/2.25
Overall width (m)		0.83
Tyre size (diameter×width)		380×130
Dimension of working platform (L×W) (m)		2.26×0.81
Wheel tread (mm)		700
Wheelbase (front/rear) (mm)		1850
Ground clearance (folding /lifting status) (mm)		100/25
Overall height (m) (Folding without enclosure/Folding)		2.19/1.83
Overall weight (kg)		2000
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	6
	Capacity (Ah)	225
Charger	Nominal AC Input Voltage(V)	100-240VAC
	Maximum DC Output Current(A)	30
	Nominal DC Output Voltage(V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		24
Hydraulic oil		13L
Ground bearing information		
Maximum wheel load		770Kg
Tire contact pressure		931.87Kpa
Ground pressure		11.71Kpa

Table 33 – AS0808 Operating Specifications

Model		AS0808
Item		Parameter
Maximum number of worker		2
Maximum working height (m)		10
Maximum height of platform (m)		8
Extending size of platform (m)		0.9
Maximum allowable working angle (forward)		3°
Maximum allowable working angle (backward)		3°
Maximum allowable working angle (sideward)		1.5°
Braking distance		500 ± 100
Maximum allowed wind speed(m/s)		0
Traveling speed of machine (folding status) (km/h)		3
Traveling speed of machine (lifting status) (km/h)		0.8
Lifting/lowering speed (S)		31/40
Minimum turning radius (m)		2.15
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		2.40/2.25
Overall width (m)		0.83
Tyre size (diameter×width)		380×130
Dimension of working platform (L×W) (m)		2.26×0.81
Wheel tread (mm)		700
Wheelbase (front/rear) (mm)		1850
Ground clearance (folding /lifting status) (mm)		100/25
Overall height (m) (Folding without enclosure/Folding)		2.32/1.95
Overall weight (kg)		2140
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	6

	Capacity (Ah)	225
Charger	Nominal AC Input Voltage(V)	100-240VAC
	Maximum DC Output Current(A)	30
	Nominal DC Output Voltage(V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		24
Hydraulic oil		13L
Ground bearing information		
Maximum wheel load		830Kg
Tire contact pressure		840.71Kpa
Ground pressure		12.45Kpa

Lifting/lowering speed (S)		30/38
Minimum turning radius (m)		2.3
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		2.42/2.25
Overall width (m)		1.18
Tyre size (diameter×width)		380×130
Dimension of working platform (L×W) (m)		2.26×1.12
Wheel tread (mm)		1040
Wheelbase (front/rear) (mm)		1850
Ground clearance (folding /lifting status) (mm)		100/20
Overall height (m) (Folding without enclosure/Folding)		2.18/1.61
Overall weight (kg)		2225
Hoisting Motor	Rated Power (KW)	4.5
Battery	Output Voltage(V)	6
	Capacity (Ah)	240
Charger	Nominal AC Input Voltage (V)	100-240VAC
	Maximum DC Output Current (A)	30
	Nominal DC Output Voltage (V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		25
Hydraulic oil		16L
Ground bearing information		
Maximum wheel load		1350Kg
Tire contact pressure		1367.42 KPa
Ground pressure		10.28Kpa

**Table 34 – AS0612 Operating Specifications**

Model	AS0612
Item	Parameter
Maximum number of worker	4
Maximum working height (m)	8.2
Maximum height of platform (m)	6.2
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	12.5
Traveling speed of machine (folding status) (km/h)	3
Traveling speed of machine (lifting status) (km/h)	0.8

**Table 35 – AS0812 Operating Specifications**

Model	AS0812	
Item	Parameter	
Maximum number of worker	2	
Maximum working height (m)	10	
Maximum height of platform (m)	8	
Extending size of platform (m)	0.9	
Maximum allowable working angle (forward)	3°	
Maximum allowable working angle (backward)	3°	
Maximum allowable working angle (sideward)	1.5°	
Braking distance	500 ± 100	
Maximum allowed wind speed(m/s)	12.5	
Traveling speed of machine (folding status) (km/h)	3	
Traveling speed of machine (lifting status) (km/h)	0.8	
Lifting/lowering speed (S)	35/40	
Minimum turning radius (m)	2.3	
Theoretical gradeability	25%	
Overall length (m) (with ladder/without ladder)	2.42/2.25	
Overall width (m)	1.18	
Tyre size (diameter×width)	380×130	
Dimension of working platform (L×W) (m)	2.26×1.12	
Wheel tread (mm)	1040	
Wheelbase (front/rear) (mm)	1850	
Ground clearance (folding /lifting status) (mm)	100/20	
Overall height (m) (Folding without enclosure/Folding)	2.30/1.73	
Overall weight (kg)	2360	
Hoisting Motor	Rated Power (KW)	4.5
Battery	Output Voltage(V)	6

	Capacity (Ah)	225
Charger	Nominal AC Input Voltage (V)	100-240VAC
	Maximum DC Output Current (A)	30
	Nominal DC Output Voltage (V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		25
Hydraulic oil		16L
Ground bearing information		
Maximum wheel load		1136Kg
Tire contact pressure		1114.42 KPa
Ground pressure		11.63Kpa

**Table 36 – AS1012 Operating Specifications**

Model	AS1012	
Item	Parameter	
Maximum number of worker	2	
Maximum working height (m)	12	
Maximum height of platform (m)	10	
Extending size of platform (m)	0.9	
Maximum allowable working angle (forward)	3°	
Maximum allowable working angle (backward)	3°	
Maximum allowable working angle (sideward)	1.5°	
Braking distance	500 ± 100	
Maximum allowed wind speed(m/s)	12.5	
Traveling speed of machine (folding status) (km/h)	3	
Traveling speed of machine (lifting status) (km/h)	0.8	

Lifting/lowering speed (S)		58/48
Minimum turning radius (m)		2.3
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		2.47/2.25
Overall width (m)		1.18
Tyre size (diameter×width)		380×130
Dimension of working platform (L×W) (m)		2.26×1.12
Wheel tread (mm)		1040
Wheelbase (front/rear) (mm)		1850
Ground clearance (folding /lifting status) (mm)		100/20
Overall height (m) (Folding without enclosure/Folding)		2.43/1.86
Overall weight (kg)		3000
Hoisting Motor	Rated Power (KW)	4.5
Battery	Output Voltage(V)	6
	Capacity (Ah)	225
Charger	Nominal AC Input Voltage (V)	100-240VAC
	Maximum DC Output Current (A)	30
	Nominal DC Output Voltage (V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		25
Hydraulic oil		23L
Ground bearing information		
Maximum wheel load		1190Kg
Tire contact pressure		1238.78 KPa
Ground pressure		11.48Kpa

**Table 37 – AS1212 Operating Specifications**

Model	AS1212	
Item	Parameter	
Maximum number of worker	2	
Maximum working height (m)	14	
Maximum height of platform (m)	12	
Extending size of platform (m)	0.9	
Maximum allowable working angle (forward)	3°	
Maximum allowable working angle (backward)	3°	
Maximum allowable working angle (sideward)	1.5°	
Braking distance	500 ± 100	
Maximum allowed wind speed(m/s)	0	
Traveling speed of machine (folding status) (km/h)	3	
Traveling speed of machine (lifting status) (km/h)	0.8	
Lifting/lowering speed (S)	65/60	
Minimum turning radius (m)	2.3	
Theoretical gradeability	25%	
Overall length (m) (with ladder/without ladder)	2.47/2.25	
Overall width (m)	1.18	
Tyre size (diameter×width)	380×130	
Dimension of working platform (L×W) (m)	2.26×1.12	
Wheel tread (mm)	1040	
Wheelbase (front/rear) (mm)	1850	
Ground clearance (folding /lifting status) (mm)	100/20	
Overall height (m) (Folding without enclosure/Folding)	2.59/1.99	
Overall weight (kg)	3160	
Hoisting Motor	Rated Power (KW)	4.5

Battery	Output Voltage(V)	12
	Capacity (Ah)	150
Charger	Nominal AC Input Voltage (V)	100-240VAC
	Maximum DC Output Current (A)	30
	Nominal DC Output Voltage (V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		25
Hydraulic oil		23L
Ground bearing information		
Maximum wheel load		1280Kg
Tire contact pressure		1316.78 KPa
Ground pressure		13.41Kpa

**Table 38 – AS1413 Operating Specifications**

Model	AS1413	
Item	Parameter	
Maximum number of worker	2	
Maximum working height (m)	In door	15.8
	Out door	10
Maximum height of platform (m)	In door	13.8
	Out door	8
Maximum allowable working angle (forward)	3°	
Maximum allowable working angle (backward)	3°	
Maximum allowable working angle (sideward)	1.5°	
Extending size of platform (m)	0.9	
Braking distance	500 ± 100	
Maximum allowed wind speed(m/s)	0	
Traveling speed of machine (folding)	3	

status) (km/h)		
Traveling speed of machine (lifting status) (km/h)		0.8
Lifting/lowering speed (S)		80/65
Minimum turning radius (m)		2.85
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		2.80/2.65
Overall width (m)		1.3
Tyre size (diameter×width)		380×130
Dimension of working platform (L×W) (m)		2.64×1.12
Wheel tread (mm)		1175
Wheelbase (front/rear) (mm)		2220
Ground clearance (folding /lifting status) (mm)		105/20
Overall height (Folding/Without folding) (m)		1..94/2.74
Overall weight (kg)		3500
Hoisting Motor	Rated Power (KW)	4.5
Battery	Output Voltage(V)	12
	Capacity (Ah)	150
Charger	Nominal AC Input Voltage (V)	100-240V AC
	Maximum DC Output current (A)	30
	Nominal DC Output Voltage (V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		25
Hydraulic oil		25.5L
Ground bearing information		
Maximum wheel load		1350Kg
Tire contact pressure		1154.71 KPa
Ground pressure		10.8Kpa

**Table 39-S0607E Operating Specifications**

Model	S0607E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	7.8
Maximum height of platform (m)	5.8
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	12.5
Traveling speed of machine (folding status) (km/h)	3.5 ± 0.2
Traveling speed of machine (lifting status) (km/h)	0.8 ± 0.1
Lifting/lowering speed (S)	16 ± 2/28 ± 3
Minimum turning radius (m)	1.8
Theoretical gradeability	25%
Overall length (m) (with ladder/without ladder)	1.86/1.679
Overall width (m)	0.79
Tyre size (diameter×width)	323×100
Dimension of working platform (L×W) (m)	1.635×0.73
Wheel tread (mm)	700
Wheelbase (front/rear) (mm)	1350
Ground clearance (folding /lifting status) (mm)	78/26
Overall height (m) (Folding without enclosure/Folding)	2.155/1.81
Overall weight (kg)	1610
Hoisting Motor	Rated Power (KW) 2.2

Battery	Output Voltage(V)	6
	Capacity (Ah)	225
Charger	Nominal AC Input Voltage(V)	100-240VAC
	Maximum DC Output Current(A)	30
	Nominal DC Output Voltage(V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		19
Hydraulic oil		5L
Ground bearing information		
Maximum wheel load		600Kg
Tire contact pressure		1074.83Kpa
Ground pressure		13.61Kpa

**Table 40– S1212E Operating Specifications**

Model	S1212E
Item	Parameter
Maximum number of worker	2
Maximum working height (m)	14
Maximum height of platform (m)	12
Extending size of platform (m)	0.9
Maximum allowable working angle (forward)	3°
Maximum allowable working angle (backward)	3°
Maximum allowable working angle (sideward)	1.5°
Braking distance	500 ± 100
Maximum allowed wind speed(m/s)	0
Traveling speed of machine (folding status) (km/h)	3

Traveling speed of machine (lifting status) (km/h)		0.8
Lifting/lowering speed (S)		58/60
Minimum turning radius (m)		2.3
Theoretical gradeability		25%
Overall length (m) (with ladder/without ladder)		2.47/2.25
Overall width (m)		1.18
Tyre size (diameter×width)		380×130
Dimension of working platform (L×W) (m)		2.26×1.12
Wheel tread (mm)		1040
Wheelbase (front/rear) (mm)		1850
Ground clearance (folding /lifting status) (mm)		100/20
Overall height (m) (Folding without enclosure/Folding)		2.59/1.99
Overall weight (kg)		3160
Hoisting Motor	Rated Power (KW)	3.3
Battery	Output Voltage(V)	12
	Capacity (Ah)	150
Charger	Nominal AC Input Voltage (V)	100-240VAC
	Maximum DC Output Current (A)	30
	Nominal DC Output Voltage (V)	24
Ground environment noise radiation		< 70dBA
Platform environment noise		< 70dBA
Type		Open-type system
Main pump		Gear Pump
System pressure (MPa)		21
Hydraulic oil		23L
Ground bearing information		
Maximum wheel load		1280Kg
Tire contact pressure		1316.78 KPa
Ground pressure		13.41Kpa

## 10.1 Hydraulic Oil Specifications



### Notice

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

- L-HM 46 antiwear hydraulic oil: minimum air temperature > -9°C;
- L-HV 46 low temperature hydraulic oil: -33°C < minimum air temperature ≤ -9°C;
- L-HS 46 Ultralow temperature hydraulic oil: -39°C < minimum air temperature ≤ -33°C
- 10# aviation hydraulic oil: minimum air temperature ≤ -39°C;
- Oil level in the oil tank when SS0407E /SS0507E/SS0607E is stowed after the whole machine has been fully elevated, steered from stop-to-stop, and driven is 4L.
  - Oil level in the oil tank when AS0607 /AS0607E/AS0607W/AS0607WE 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 AS0608 AS0608E/AS0808/AS0808E is stowed after the whole machine has been fully elevated, steered stop-to-stop, and driven is 9.5L.
- Oil level in the oil tank when AS0612 AS0612E/AS0812/AS0812E 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 AS1012 AS1012E/AS1212/AS1212E is stowed after the whole machine has been fully elevated, steered from stop-to-stop, and driven: is 14L.
- Oil level in the oil tank when AS1413/AS1413E is folded after the whole machine is lifted, steering or running: 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

Item	Description	Maintenance Level					
		Routine inspection	I	II	III	IV	V
Electric system	Check battery capacity	•	•	•	•	•	•
	Check that all buttons/switches on the PCU panel function normally	•	•	•	•	•	•
	Ensure the PCU emergency stop switch is secure	•	•	•	•	•	•
	Check if all switches operate properly	•	•	•	•	•	•
	Check if any wiring harnesses are damaged	•	•	•	•	•	•
	Ensure the PCU wiring harness connector is secure	•	•	•	•	•	•
	Check if the PCU wiring harness connector is not damaged	•	•	•	•	•	•
	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	•	•	•	•	•	•

Item	Description	Maintenance Level					
		Routine inspection	I	II	III	IV	V
	Ensure the angle sensor wiring harness and connector are secure and not damaged	•	•	•	•	•	•
	Ensure the emergency stop switch, key switch and plug switch on the lowering control panel and their wiring are secure and not damaged	•	•	•	•	•	•
	Ensure the warning lamp and horn function normally	•	•	•	•	•	•
	Ensure the motor, motor controller, relay and ECU wirings are secure and not damaged	•	•	•	•	•	•
	Ensure the wiring of every solenoid valve on the main valve block is secure and not damaged	•	•	•	•	•	•
	Ensure the charger wiring is secure and not corroded	•	•	•	•	•	•
	Ensure the battery posts are secure and not corroded	•	•	•	•	•	•
	Check the battery is secure and not damaged	•					
	Check machine performance and various limit switches	•					
	Check if any connector is loose, damaged or corroded	•	•	•	•	•	•
Hydraulic System	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	•	•	•	•	•	•
	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	•	•	•	•	•	•

Item	Description	Maintenance Level				
		Routine inspection	I	II	III	IV
	Replace the hydraulic oil	Yearly				
	Hydraulic oil return filter element	Every 6 months				
	Check the hydraulic oil tank vent cap for leaks	•	•	•	•	•
	Replace the hydraulic oil tank vent cap			•	•	•
	Replace the reducer lubricating oil	Firstly 50 hours, every 200 hours				
Whole machine	Check the fork sliding block for abnormal noise				•	•
	Check and replace the sliding block				•	•
	Check for loose or damaged bolts or abnormal noise	•				
	Check if any circlip or washer on fork arms are damaged, worn, or missing	•				
	Check if the emergency lowering system operates properly	•				
	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	Once a month				

## Hydraulic Oil Specifications

Use temperature	Oil type
Minimum air temperature $> -9^{\circ}\text{C}$	L-HM 46 antiwear hydraulic oil
$-33^{\circ}\text{C} < \text{minimum air temperature} \leq -9^{\circ}\text{C}$	L-HV 46 low temperature hydraulic oil
$-39^{\circ}\text{C} < \text{minimum air temperature} \leq -33^{\circ}\text{C}$	L-HS 46 ultralow temperature hydraulic oil
Minimum air temperature $\leq -39^{\circ}\text{C}$	10# aviation hydraulic oil

