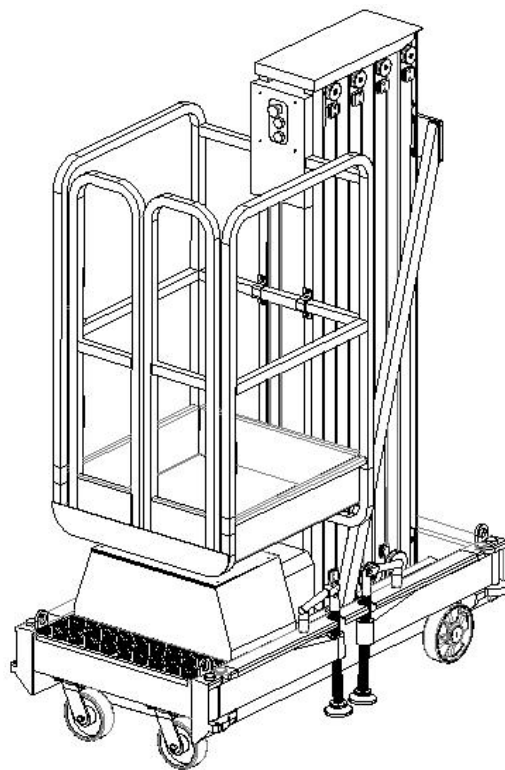


**⚠ WARNING**

Must read before using this manual  
And the various warning label attached!  
Attention preservation for future use!

**SINGLE MAST MOBILE ELEVATING  
WORK PLATFORM****OPERATION AND SAFETY MANUAL**

(For AWP6/AWP8/AWP10)

Original Issue of Manual

Version 07/2013

## **Important**

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

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

### **Owners, Users and operators:**

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

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

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

Revision Log

Original Issue of Manual.....July 2013

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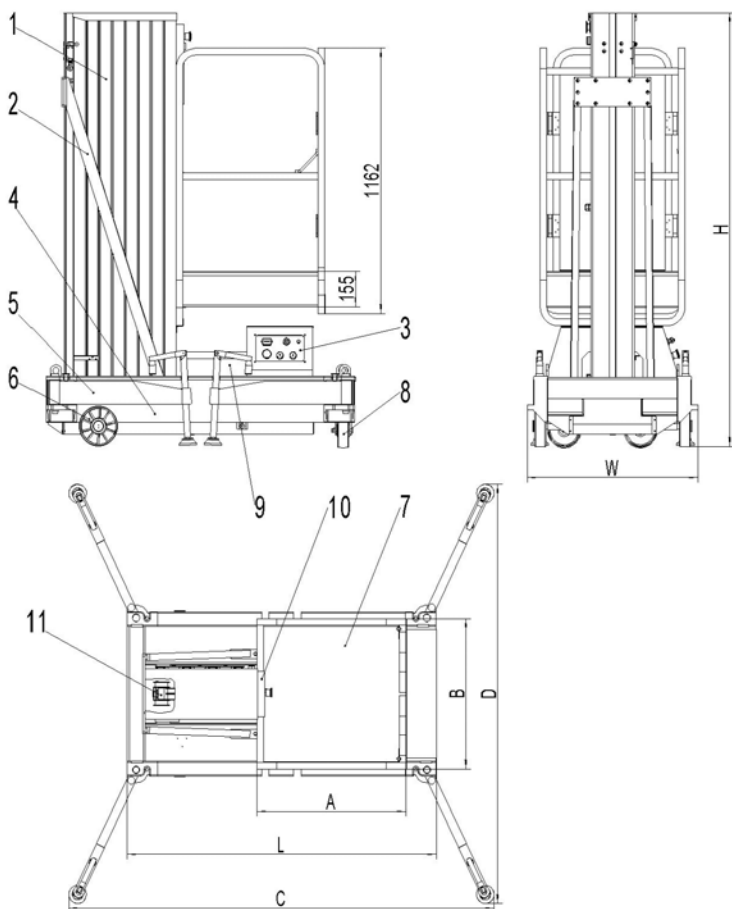
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## Section -1 Specifications

Technical specifications and major dimensions are shown in Table and Figure, respectively.

Model	Max. Platform height	Max. Working height	Rated Load	The number of persons allowed on platform	Platform size A x B	Outrigger footprint C x D	Power rating		Stored dimension L x W x H	Machine weight
							AC	DC		
	mm	mm	kg	Person(s)	mm	mm	Kw		mm	kg
AWP6	6000	8000	150	1	690x660	1940x1840	0.75	1.5	1420x776x1910	401
AWP8	8000	10000	125	1	690x660	1940x1840	0.75	1.5	1420x776x1930	430
AWP10	10000	12000	125	1	690x660	1940x1840	0.75	1.5	1420x776x1930	471



The following shows main component parts:

- 1-Mast
- 2-Stay bar
- 3-Electric box
- 4-Chassis
- 5-Turning stabilizers of the unit
- 6-Non-steer tire
- 7-Platform
- 8-Steer tire
- 9-Motor protective cover
- 10-Control panel on work platform
- 11-Lifting Jack

## Section-2 Safety Rules



### **Danger**

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

### **Do Not Operate Unless:**

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

- 1. Avoid hazardous situations.  
Know and understand the safety rules before going on to the next section.
- 2. Always perform a pre-operation inspection.
- 3. Always perform function tests prior to use.
- 4. Inspect the workplace.
- 5. Only use the machine as it was intended.
  
- You read, understand and obey the manufacturer's instructions and safety rules-safety and operator's manuals and machine decals.
- You read, understand and obey employer's safety rules and worksite regulations.
- You read, understand and obey all applicable governmental regulations.
- You are properly trained to safely operate the machine.

### **1. Decal Legend**

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



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

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

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

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

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

## 2. Intended Use

***Single mast mobile elevating work platform is intended to move one person along with the necessary tools and materials to working position where he will carry out work on the work platform.***

## 3. Maintenance Labels

Please instead the loosed or bad labels.  
Wash the labels with neutral soap or limpid water.  
Don't use the deliquescent cleanser to wash the labels.

## 4. Operator

Only the trained and qualified are permitted to operate this machine. Always use safety belt and helmet when aerially working.

If you are subject to dizziness or seizures, or are bothered by heights, you must not operate this type of machinery.

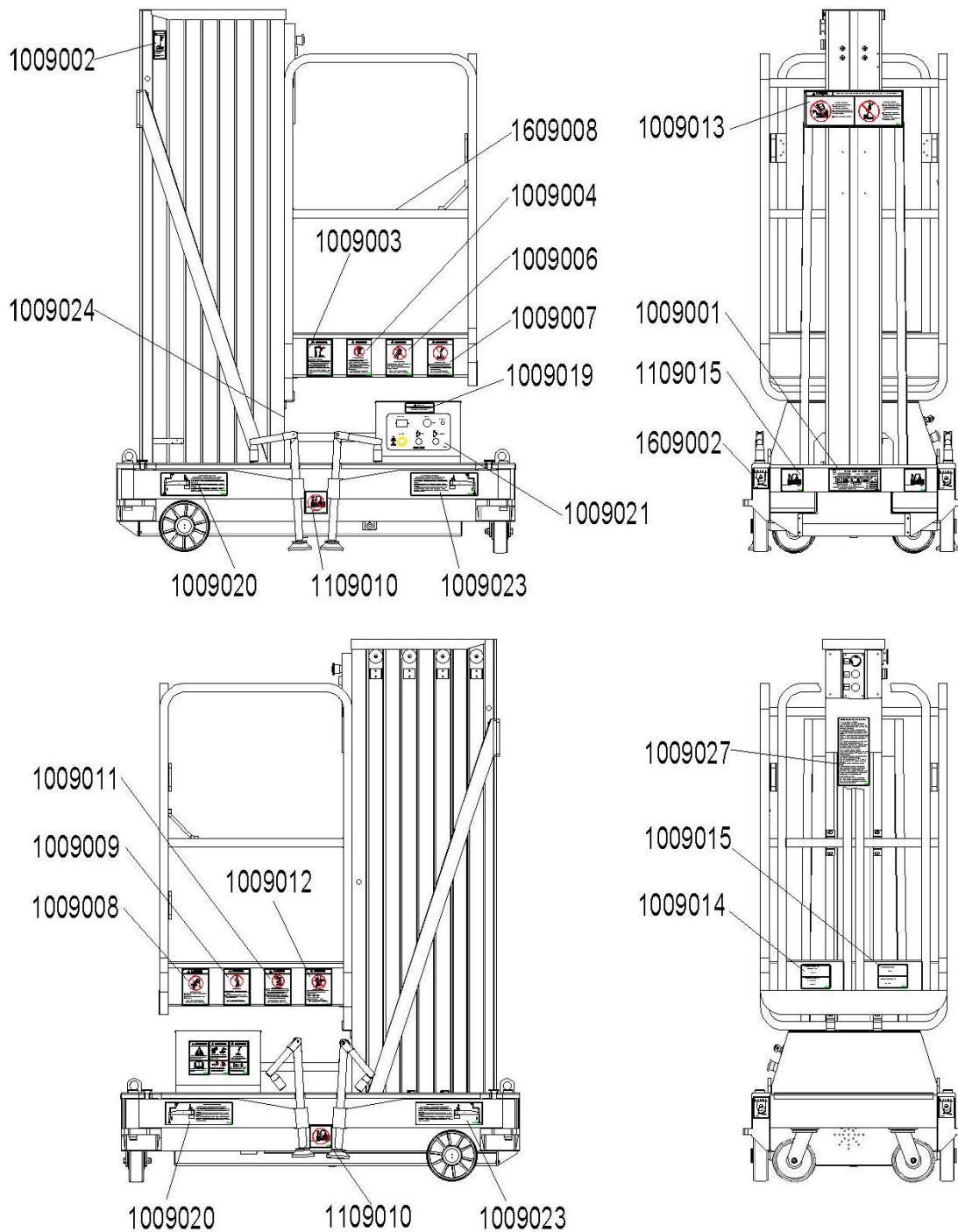
An operator must not use drugs or alcohol that can change his/her alertness or coordination.

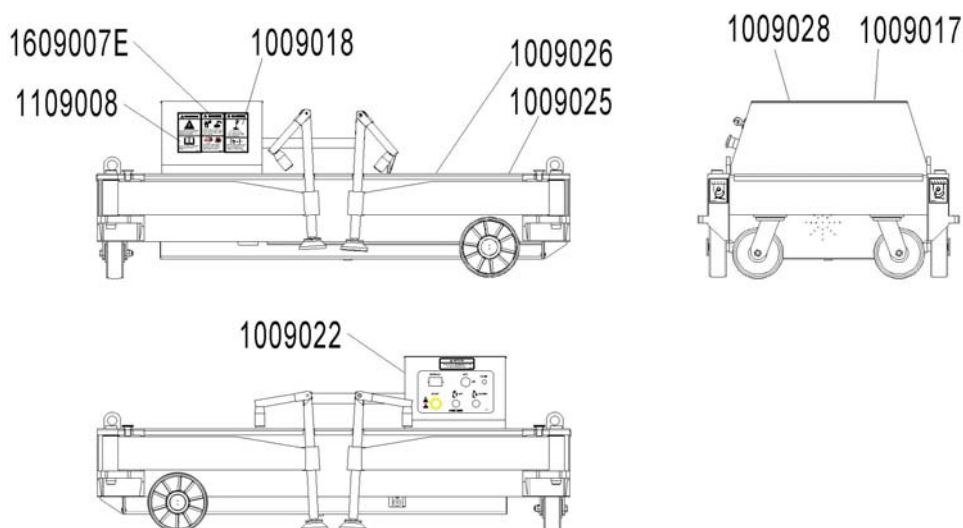
An operator on prescription or over-the-counter drugs needs medical advice on whether or not he/she can safely operate machines.



## Section-3 Decals

### 1. AWP Series Decal Inspection (Single)





## 2. Decals Table

Use the pictures on the next page to verify that all decal are legible and in place. Below is a numerical list with quantities and descriptions.

Part No.	Description	QTY.
1009002	The travel switch warning label	1
1009024	Warning-shearing danger, keep hands away	1
1609008	Safety belt fixed point	1
1009003	Danger—Keeping safe clearance with live electric conductors	1
1009004	Collision Hazards	1
1009006	Tip-over Hazards	1
1009007	Tilt the warning	1
1009019	Notice- Please cut off the power after operating(For DC)	1
1009021	DC control panel	1
1009020	Leveling and justment	2
1009023	Leveling and justment	2
1109010	Prohibition of forklift transport label	2
1009001	Machinery label	1
1009013	Danger-Collision hazards or Tip-over hazard	1
1109015	Forklift transport label	2
1609002	Label-fastness location	4
1009011	Max. Allowed wind speed-10.7m/s	1
1009012	Maximum load warning label	1
1009009	Fall hazards warning label	1
1009008	Warning-The manual forces applied by persons on the work platform should not exceed the permitted limit when it is raised	1
1009027	Brief operating instruction	1

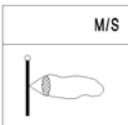
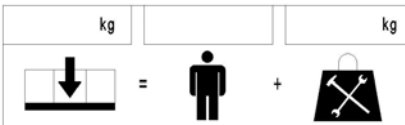
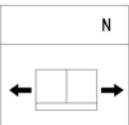
1009014	Maximum allowable manual force 200N Maximum allowable wind speed 10.7m/s	1
1009015	Maximum capacity 125kg, Maximum occupancy 1 person	1
1109008	Warning-Operating Instruction	1
1609007E	Battery maintenance warning label	1
1009018	Battery replacement warning label	1
1009025	Warning-Make sure to position the stabilizers before operating	2
1009026	Max. Load on each stabilizer-2800N	2
1009017	Please don't stand	1
1009028	Caution-Electrocution hazard	1
1009022	Notice-The charging socket of the battery(For DC)	1

### Plates and Warning Labels



Upon unpacking, check the plates and warning labels. Do not operate the machine on which the plates or labels are missing or illegible. Contact the dealer immediately.

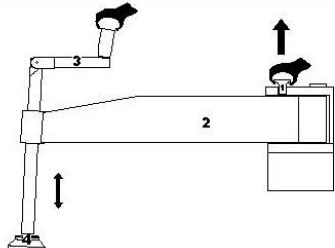
The following plates are visible on the machine.

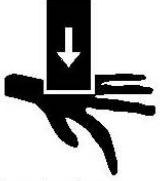
### 3. Nameplate and CE Mark

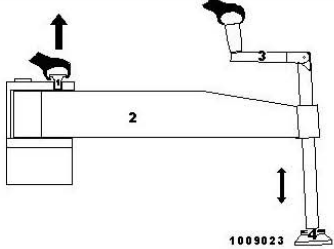
<b>CE</b>	<b>AERIAL WORK PLATFORM</b>		<b>NOBLELIFT</b>
MODEL	<input type="text"/>	SERIAL NO.	<input type="text"/>
MAX	<input type="text"/> M/S 	<input type="text"/> kg 	<input type="text"/> N 
Dimension	<input type="text"/>	Power	<input type="text"/>
NOBLELIFT EQUIPMENT JOINT STOCK CO.,LTD.		Voltage	<input type="text"/>
Add: No.58,Jing Yi Road,Economic Development Zone,Changxing,Zhejiang,China		G.V.W.	<input type="text"/> kg
Tel: (86)572-6210788 Fax: (86)572-6210777		DATE OF MANUFACTURE	<input type="text"/>
			<b>1009001</b>

## 4. Warning Labels

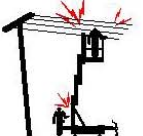
<b>⚠ DANGER</b>		Failure to follow these instructions could result in death or serious injury.	
	<p><b>Collision Hazards</b></p> <ul style="list-style-type: none"> <li>Do not lower the platform unless the area below is clear of personnel and obstructions.</li> <li>Use common sense and planning to control the movement of the machine on or near inclines.</li> <li>Stay clear of descending platform.</li> </ul>		<p><b>Tip-over Hazards</b></p> <ul style="list-style-type: none"> <li>Do not raise the platform unless the base is level, all four outriggers are properly installed and the leveling jacks firmly contact the floor.</li> <li>Do not adjust or remove the outriggers while the platform is occupied or raised.</li> <li>Do not move the machine while the platform is raised.</li> </ul>
		1009013	

	<p style="text-align: center;"><b>LEVELING AND JUSTMENT</b></p> <ol style="list-style-type: none"> <li>Pull up the aligning pin 1 and extend outwards the turning leg 2 until the aligning pin comes into the working aligning hole automatically.</li> <li>Turn the handle 3 clockwise until the supporting foundation 4 contacts the ground for all the four bolts, go on turning to make the road wheel away from the ground.</li> <li>Adjust the leveling by observe the spirit level on the chassis. The bubble should moves to the center circle of the gauge when the chassis is set on an even plane.</li> <li>To store the turning stabilizers of the unit, turn the handle 3 counter-clock wise until the supporting foundation 4 away from the ground. Pull up the aligning pin 1, retract inwards the turning leg until the aligning pin 1 comes into the storing aligning hole.</li> </ol>
	1009020

<b>⚠ WARNING</b>

<p><b>Shearing danger</b> Keep hands away</p>
<p>Make sure the check is in place during maintenance</p>
1009024

<p style="text-align: center;"><b>LEVELING AND JUSTMENT</b></p> <ol style="list-style-type: none"> <li>Pull up the aligning pin 1 and extend outwards the turning leg 2 until the aligning pin comes into the working aligning hole automatically.</li> <li>Turn the handle 3 clockwise until the supporting foundation 4 contacts the ground for all the four bolts, go on turning to make the road wheel away from the ground.</li> <li>Adjust the leveling by observe the spirit level on the chassis. The bubble should moves to the center circle of the gauge when the chassis is set on an even plane.</li> <li>To store the turning stabilizers of the unit, turn the handle 3 counter-clock wise until the supporting foundation 4 away from the ground. Pull up the aligning pin 1, retract inwards the turning leg until the aligning pin 1 comes into the storing aligning hole.</li> </ol>	
	1009023

<b>⚠ WARNING</b>
<p>Make sure to position the stabilizers before operating</p>
1009025

<b>⚠ DANGER</b>

<p><b>ELECTROCUTION HAZARD</b></p> <ul style="list-style-type: none"> <li>This machine is not insulated.</li> <li>Maintain a clearance of at least 3 m. between any part of machine or load and any electrical line or apparatus charged up to 50,000 volts.</li> <li>One foot additional clearance is required for each additional 30,000 volts or less.</li> <li>Allowances must be made for operator error, machine deflection and electrical line swaying.</li> </ul> <p>Death or serious injury will occur from contact or being too close to electrical lines.</p>
1009003

<b>⚠ DANGER</b>

<p><b>Collision Hazards</b></p> <ul style="list-style-type: none"> <li>Approved head gear must be worn by all operating and ground personnel.</li> <li>Watch for obstructions around machine and overhead when driving. Check clearances above, on sides, and bottom of platform when lifting or lowering platform.</li> <li>During operation, keep all body parts inside platform railing.</li> </ul> <p>Failure to follow these instructions could result in death or serious injury.</p>
1009004

<b>⚠ DANGER</b>

<p><b>Tip-over Hazard</b> Machine tip-over will result in death or serious injury. Do not alter disable limits w/each.</p>
1009002

<b>⚠ WARNING</b>
<p>MAX. LOAD ON EACH STABILIZER</p> <p><b>2800N</b></p>
1009026

<p>Maximum allowable manual force</p> <p><b>200N</b></p>
<p>Maximum allowable wind speed</p> <p><b>10.7m/s</b></p>
1009014

**⚠ DANGER**



**Tip-over Hazards**

- Do not place ladders or scaffolds in the platform or against any part of this machine.
- Do not place or attach overhanging loads to any part of this machine.
- Do not transport tools and materials unless they are evenly distributed and can be safely handled by the person in the platform.

Failure to follow these instructions could result in death or serious injury.

1009006

**⚠ DANGER**



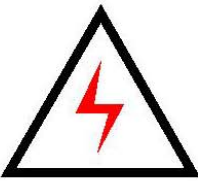
**Tip-over Hazards**

- Do not raise the platform unless the machine is level. Do not set the machine up on a surface where it cannot be leveled using only the leveling jacks.

Failure to follow these instructions could result in death or serious injury.

1009007

**⚠ CAUTION**



High voltage power is supplying and calling for special attention during power connection and operation to avoid electrical shock.

1009028

**⚠ DANGER**



**Tip-over Hazards**

- Do not push off or pull toward any object outside the platform.
- Maximum allowable manual force: CE / AUS 45 lbs / 200 N

Failure to follow these instructions could result in death or serious injury.

1009008

**⚠ DANGER**



**Fall Hazards**

- Do not sit, stand or climb on the platform guard rails. Maintain a firm footing on the platform floor at all times.
- Do not exit the platform while raised. If a power failure occurs, have ground personnel activate the manual lowering valve.
- Keep the platform floor clear of debris.
- Lower the platform entry mid-rail or gate before operating.

Failure to follow these instructions could result in death or serious injury.

1009009

**⚠ DANGER**



**Please don't stand**

1009017

**⚠ DANGER**



**Tip-over Hazards**

- Do not raise the platform when wind speeds may exceed 10.7 m/s. If wind speeds exceed 10.7 m/s when platform is raised, lower the platform and do not continue to operate the machine.
- Do not operate the machine in strong or gusty winds. Do not increase the surface area of the platform or the load. Increasing the area exposed to the wind will decrease machine stability.

Failure to follow these instructions could result in death or serious injury.

1009011

**⚠ DANGER**



**Tip-over Hazards**

- Occupants, equipment and materials shall not exceed the maximum platform capacity.
- Maximum capacity:  
AWP8 330lbs 150 kg  
AWP10 275lbs 125 kg  
AWP12 275lbs 125 kg
- Maximum occupancy : 1 person

Failure to follow these instructions could result in death or serious injury.

1009012

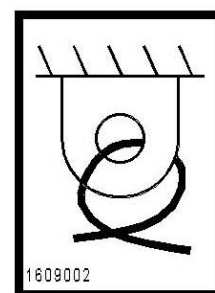
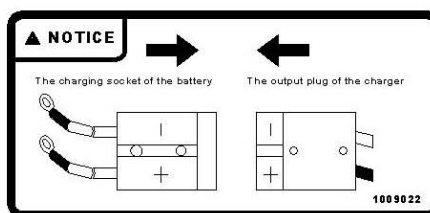
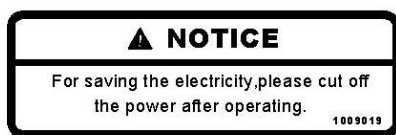
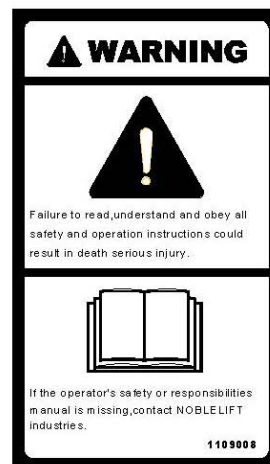
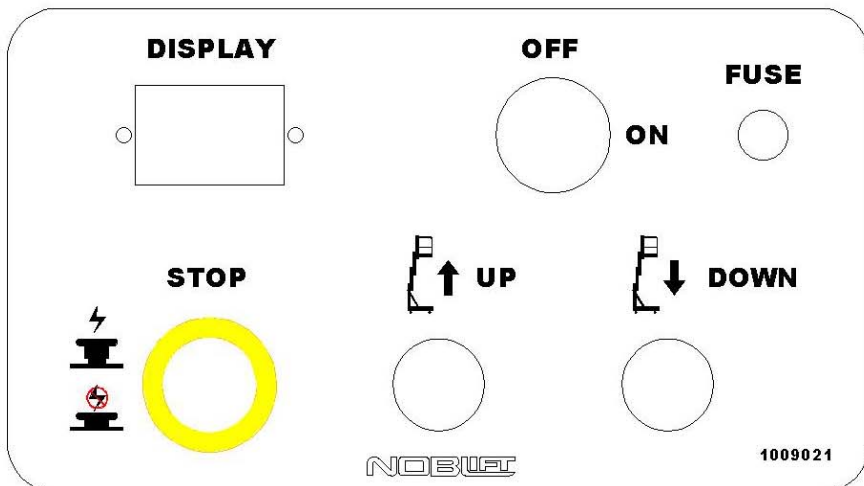
Maximum capacity  
**125kg**

Maximum occupancy  
**1 person**

1009015







### Brief Operating Instruction

**Brief Operating Instruction**

1. Pull up the aligning pin, extend outwards the turning leg, which is connected to the four corners of chassis, until the aligning pin comes into the working aligning hole automatically.
2. Turn the handle clockwise until the supporting foundation contacts the ground for all the four bolts, go on turning to make the road wheel away from the ground.
3. Adjust the leveling by observe the spirit level on the chassis. The bubble should moves to the center circle of the gauge when the chassis is set on an even plane.
4. To store the turning stabilizers of the unit, turn the handle counter-clockwise until the supporting foundation away from the ground, Pull up the aligning pin, retract inwards the turning leg until the aligning pin comes into the storing aligning hole.

**How to use the control buttons**

1. Before operate the machine, all circuit breakers and leakage breaker must be in "ON" position on the electrical box panel.
2. The mobile elevating work platform uses two sets upper and lower parallel control device.
3. On either control panels, press "UP" button for lifting and press "DOWN" button for lowering the platform.
4. The platform rises or falls when the button is pressed.

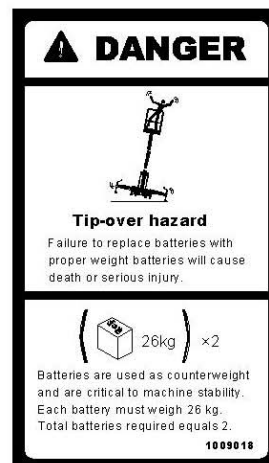
Up on loosening the buttons the platform stops.

5. Abig mushroom-shaped button is the stopping button at emergency. Press it only if only if the platform can't stop effectively in the course of rising. Reset the button by turning the knob in the direction shown by the arrow. Do not pull the knob.

**Emergency Operation**

If two sets of the upper and lower control device can't make the platform fall because of sudden power failure or other causes, pull the knob and the platform will be lowered slowly.

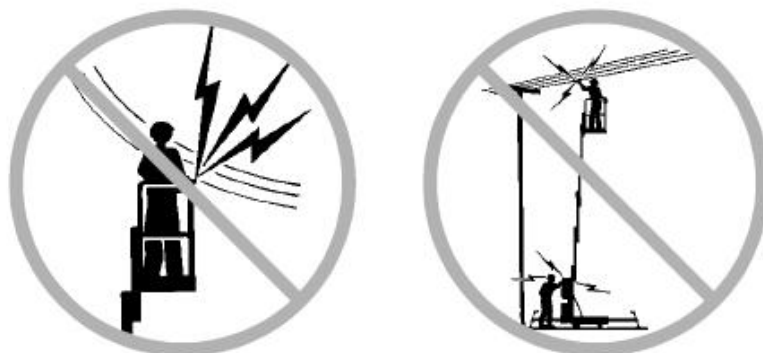
1009027



## Section-4 Workplace Safety

### 1. Electrocution Hazards

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



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

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

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

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

***Do not operate the machine during lightning or storms.  
Do not use the machine as a ground for welding .***

## 2. Tip-Over Hazards



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

**Maximum capacity**

**Maximum occupants 1**

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

***Do not move the machine when the platform is raised.***

Do not raise the platform when wind speeds may exceed 10.7 m/s. If wind speeds exceed 10.7 m/s when the platform is raised, lower the platform and do not continue to operate the machine.

Do not operate the machine in strong or gusty winds. Do not increase the surface area of the platform or the load. Increasing the area exposed to the wind will decrease machine stability.

Use extreme care and slow speeds while moving the machine in the stowed position across uneven terrain, debris, unstable or slippery surfaces and near holes and drop-offs.

Do not use the machine as a crane.

Do not place or attach fixed or overhanging loads to any part of this machine.

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

Do not contact adjacent structures with the platform.

Do not alter or disable the limit switches.

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





Maximum allowable side force 200N

Do not tie the platform to adjacent structures.

Do not place loads outside the platform perimeter.

Do not alter or disable machine components that in any way affect safety and stability.

Do not modify or alter an aerial work platform without prior written permission from the manufacturer. Mounting attachments for holding tools or other materials onto the platform, toe boards or guard rail system can increase the weight in the platform and the surface area of the platform or the load.

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

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



Do not transport tools and materials unless they are evenly distributed and can be safely handled by person(s) in the platform.

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

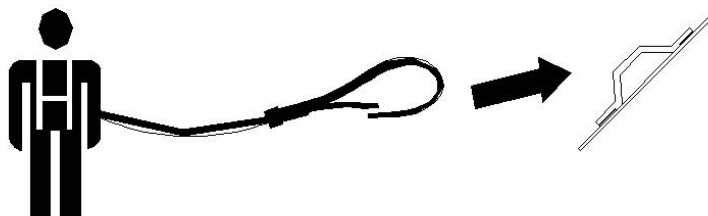
Be sure all tires are in good condition, air-filled tires are properly inflated and lug nuts are properly tightened.

Do not drive the machine on a slope that exceeds the slope and side slope rating of the machine.

Slope rating applies to machine in the stowed position.

### 3. Fall Hazards

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



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

Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

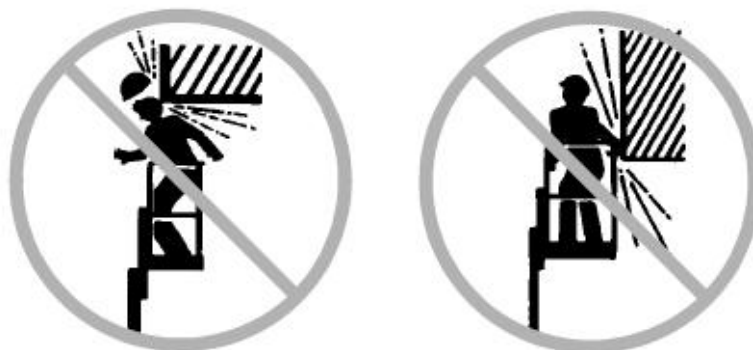
Close the entry gate before operating .

### 4. Collision Hazards

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

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

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



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

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

No stunt driving or horseplay while operating a machine.

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

## **5. Component Damage Hazards**

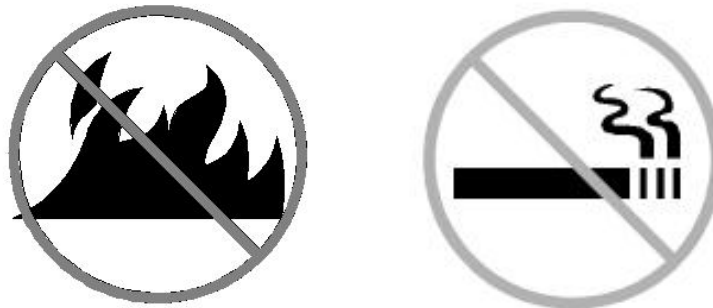
Do not use any battery or charger greater than 12V to jump-start the engine.

Do not use the machine as a ground for welding.

## **6. Explosion and Fire Hazards**

Do not start the engine if you smell or detect liquid petroleum gas (LPG), gasoline, diesel fuel or other explosive substances.

Do not refuel the machine with the engine running.



Refuel the machine and charge the battery only in an open, well-ventilated area away from sparks, flames and lighted tobacco.

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

Do not spray ether into engines equipped with glow plugs.

## **7. Damaged Machine Hazards**

Do not use a damaged or malfunctioning machine.

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

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

Be sure all decals are in place and legible.

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

## **8. Crushing Hazards**

Keep hands and limbs out of scissors.

Use common sense and planning when operating the machine with the controller from the ground. Maintain safe distances between the operator, the machine and fixed objects.

## **9. Bodily Injury Hazard**

Always operate the machine in a well-ventilated area to avoid carbon monoxide poisoning.

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

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

## **10. Outrigger Safety**

Do not lower the outriggers unless the machine is on a firm surface. Avoid drop-offs, holes, unstable or slippery surfaces and other possible hazardous conditions.

Do not raise the platform unless the machine is level. Do not set the machine up on a surface where it cannot be leveled using only the outriggers.

Do not raise the platform unless all four outriggers are properly lowered, the footpads are in firm contact with the ground and the machine is level.

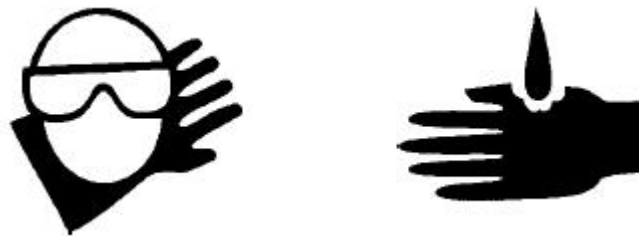
Do not adjust the outriggers while the platform is raised.

Do not drive while the outriggers are lowered.

## 11. Battery Safety

### 1) Burn Hazards

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



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

### 2) Explosion Hazard



#### **NOTICE**

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

### 3) Electrocution Hazard



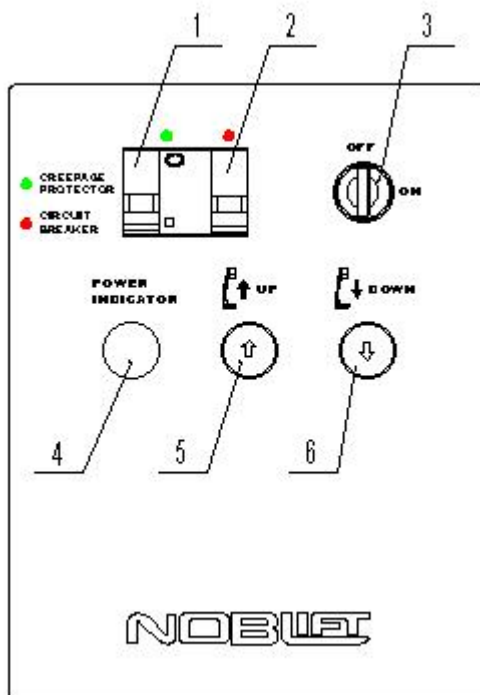
**NOTICE** *Avoid contact with electrical terminals.*

## Section-5 Control Panel

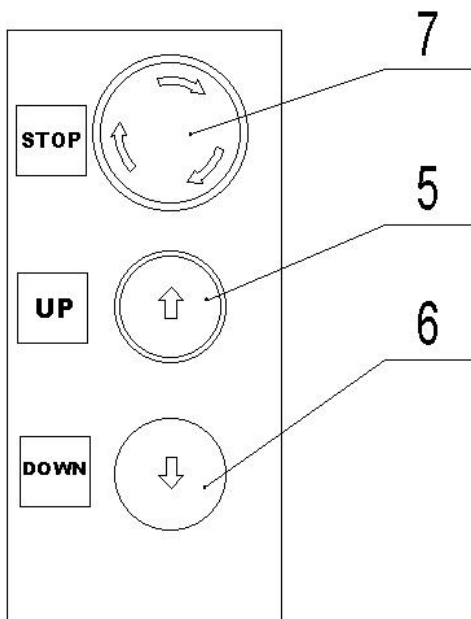
### 1. Control Panel function and Description

#### 1) AC Control Panel

Control panel on electric box

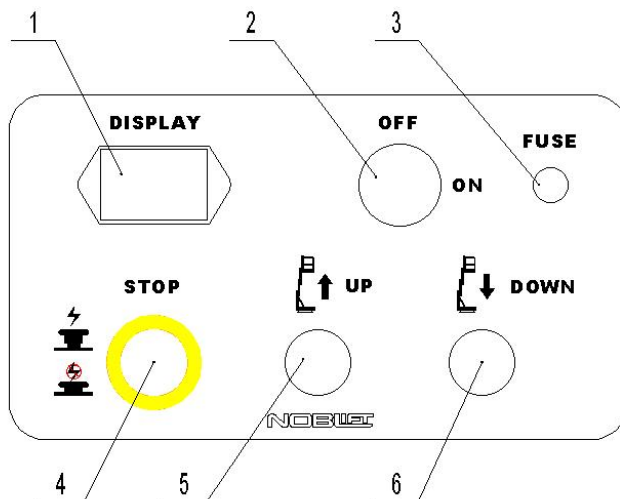


Control panel on work platform



- 1. Leakage breaker
- 2. Circuit breaker
- 3. key switch
- 4. Power indicator
- 5. Up button
- 6. Down button
- 7. Red Emergency Stop button

2) DC Control Panel



- 1. Voltage indicator
- 2. On/Off key
- 3. Fuse
- 4. Emergency stop switch
- 5. Up button
- 6. Down button

## 2. How to use the control buttons

1. Before operating the machine, all circuit breakers and leakage breaker must be in "ON" position on the electrical box panel.
2. The mobile elevating work platform has two sets of controls; one at the base of the unit and the other on the work platform itself.
3. On either control panels, press "UP" button for lifting and press "DOWN" button for lowering the platform.
4. The platform will be raised or lowered so long as the appropriate button is depressed. The platform will stop in position as soon as the button is released.
5. Emergency stop: A big mushroom-shaped button is provided at each control panel for emergency stop. This should be used only when other means to stop the platform moving fails. Reset the button by turning the knob in the direction shown by the arrow. Do not pull the knob.

**NOTICE** *The lower controls is installed on the electrical box, control its key. The key should be taken away if it is not in use so as to prevent the unauthorized personnel from using it.*

## 3. Installation of Power Plug

Put the power plug into the power socket at the job site in accordance.

**NOTICE** *Prior to installation, the rating of the power source must be confirmed.*

## 4. Emergency Operation

In the event of power cut-off or other reasons and the platform fails to descend using both the upper and lower controls, a knob consisting used to lower the platform. **Pull the knob** and the platform will be lowered slowly.



The above shows the diagram of the knob.



## Section-6 Pre-operation Inspection



### **Do Not Operate Unless:**

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

1. Avoid hazardous situations.
2. **Always perform a pre-operation inspection.**

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

3. Always perform function tests prior to use.
4. Inspect the workplace.
5. Only use the machine as it was intended.

### **1. Fundamentals**

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

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

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

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

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

Repairs to the machine may only be made by a qualified service technician, according to the manufacture's specifications. After repairs are completed, the

operator must perform a pre-operation inspection again before going on to the function tests.

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

## 2. The relevant conditions of using the equipment

### Using the equipment

- *The surface of work ground should be flat and hard with no obstacles in air and the safety distance between the equipment and high-tension line is adequate.*
- *The environment temperature should be within -10 °C~38 °C; Height above sea level ≤ 1000m.*
- *The environment humidity ≤ 90%.*
- *Electrical power : AC 230V±10%,50Hz.*
- *The wind power is not more than Beaufort Scale 5 (the speed of wind is 10.7 m/s).*
- *The noise grade of this machine is 72~74 dB while operation.*

### **NOTICE**

*Prevent the sunlight from directly shining onto the hydraulic and electrical units of the equipment if the environment temperature is above 32 °C.*

If the conditions mentioned above are not met, please contact with your supplier and take the relevant guarantee measures for using the equipment.

## 3. Pre-operation Inspection

Before you begin your workday, you must inspect your machine and report all deficiencies. Do not operate the machine until deficiencies are corrected and all systems are in good operational condition.

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

- Check for battery fluid leaks and proper fluid level. Add distilled water if needed. See Maintenance section.

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

- Electrical components, wiring and electrical cables
- Hydraulic hoses, fittings, cylinders and manifolds
- Fuel and hydraulic tanks
- Drive motors
- Wear pads
- Tires and wheels
- Limit switches
- Nuts, bolts and other fasteners, especially the screws and nuts on both sides of the masts.
- Platform overload components
- Platform entry gate
- Beacon and alarms (if equipped)
- Generator (if equipped)

Check entire machine for:

- Cracks in welds or structural components
- Dents or damage to machine
- Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened
- Check if there is an abnormal noise or tremble when starting the machine
- Secure connection of power or battery plug.
- Perform necessary maintenance procedure outlined by the manufacture.

## Section-7 Maintenance



Observe and Obey:

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

### Maintenance Symbols Legend

#### **NOTICE**

***The following symbols have been used in this manual to help communicate the intent of the instructions.***

When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below.



Indicates that tools will be required to perform this procedure.



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

### 1. Periodical examinations and tests

This GTWP should be examined and tested according to the following items every 3 months.

1. Lubricate the lifting chain. Check the chain for wear.
2. Check and tighten possible loose screws and nuts.
3. Check brush wear in the pump motor, and replace those worn so that a good contact is maintained.
4. Visual examination of the structure with special attention to corrosion and other damage of load-bearing parts and welds.
5. Examination of the mechanical, hydraulic, and electrical systems with special attention to safety devices.

**NOTICE**

*The frequency and extent of periodical examinations and tests may also depend on national regulations.*

**2. Check the Batteries**

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

They must be checked at least once a week

**WARNING** *Electrocution hazard*

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

**WARNING** *Bodily injury hazard*

Put on protective clothing and eye wear.

The terminal connections must be firmly tightened and greased with acid-free grease, which prevents sulphate formations. Sulphate coating reduces the contact surface, resulting in a considerable voltage.

Be sure that the battery hold-down bars are secure.

Terminal points must be free of scale. Cable insulation must be in good condition.

Remove the battery vent caps. Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water. If skin or clothes come into contact with this acid wash with abundant soap and water.

The battery surface must be kept clean and dry, as dirt and wet will cause leakage of current and consequently reduced battery capacity.

**3. Battery charging**

1. Turn the key and switch on, when the display indicated voltage is below 11 volt, please charge up the battery.

2. *The rated specification of the battery charger supplied:*

*Input: 220V AC50/ 60Hz*

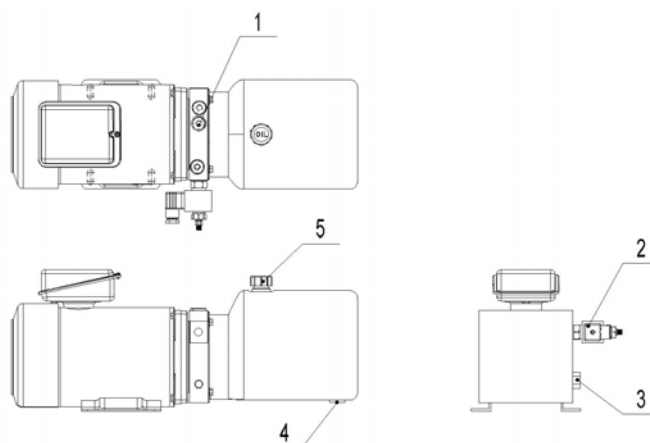
*Output: 12V DC 15A*

3. When start charging, insert the output plug of the charger to the charging socket of the chassis first, then the input plug of the charger to the socket of AC power supply. Turn on the charger switch; battery charging is started with indicator (red lamp) lights up. Normal recharging lasts about 10 hours. ***When charging is terminated check that all cells have reached a density between 1.260~1.280kg/l at 30 °C.*** When charge is finished, the AC supply should be cut off.
4. Battery charging should be done in a well-ventilated place and there are no naked flames, no sparks and no heat radiation sources nearby.
5. Make sure the level of the electrolyte is above the lower line. If the elements are not covered, top up with distilled water. Under normal conditions topping up can be generally done once a month.
6. Refilling must not take place until charging has been finished, as the acid expands during charging.
7. ***During recharging , check the temperature of the electrolyte, which must not exceed 45 °C***

#### 4. Hydraulic Maintenance

##### 1) Adjusting the maximum rising force

The proper pressure of hydraulic system has been preset at the factory, however, the regulating value has been changed because of using the product for a long term.



- |                     |                   |
|---------------------|-------------------|
| 1- regulating valve | 4- oil drain plug |
| 2- throttle valve   | 5- oil filler cap |
| 3- check valve      |                   |

When you find the rising force not reach the rated value, open the hydraulic unit cover. Please refer to the above sketch, turn the regulating valve 1 of the hydraulic control device clockwise till the rising rated value.

If necessary, a pressure gauge (supplied as an optional attachment) could be connected to the emergency lowering valve block for hydraulic system pressure checking.

## 2) Adjusting the speed of falling

The speed of falling of the platform can also be adjusted.

Please refer to above sketch. The speed is reduced when you turn the adjusting screw 2 of "throttle valve" clockwise, otherwise, the speed is increased.

## 5. Check the Hydraulic Oil Level



Maintaining the hydraulic oil at the proper level is essential to machine operation. Improper hydraulic oil levels can damage hydraulic components. Daily checks allow the inspector to identify changes in oil level that might indicate the presence of hydraulic system problems.

### **NOTICE**

*Perform this procedure with the platform in the stowed position and the engine off.*

1. A separate fluid level indicator is provided as an attachment (optional) for both the permissible maximum fluid level and the necessary minimum level when the machine is in transports.

2. Check the oil level dipstick. Add oil as needed.

### **NOTICE**

*Selecting of the hydraulic oil depends directly on influence of the temperature for using. For non-paramo region, the common hydraulic oil of kinematics viscosity (40) 46mm<sup>2</sup>/s (the nominal value) is recommended for use.*

## 6. Replacing the hydraulic oil



The hydraulic oil of the equipment should be replaced once after the equipment has been used for half a year to clear off the pollution caused by wearing of the system in the first term. Determine the term of the replacement according to the polluted circumstances of the hydraulic oil later (suggest replacing the hydraulic oil once every one and half one years).

When replacing the hydraulic oil, first place a basin for containing waste oil under the oil box. Open the oil filler cap 5 at the top of the oil box and then remove the oil drain plug 4 at the bottom. After draining off the waste oil, fill a little clean hydraulic

oil into the oil box through the oil filler hole and wash it. Tighten the drain plug 5 after all the oil has been drained. Then fill up with clean hydraulic oil and allow for a slight overflow to displace any air.

## 7. Control check

For the initial use or use after long periods of storage or changes in environmental conditions. Check should be made on power supply; hydraulic oils and lubricants to confirm that are all in well condition.

Caution! Special attention should be paid to check all safety devices of this machine before using it:

### 1. Emergency stop switches

There are two emergency stop switches on the machine. Please check the function of these two emergency stop switches. Stop to use this machine and inform the manufacturer/agent immediately if they cannot work normally.

### 2. Emergency release valve

There is a knob on this machine to lower the platform in the event of power cut-off or other reasons and platform fails to descend using both the upper and lower controls.

Please check the function of the knob. Stop to use this machine and inform the manufacture/agent immediately if it cannot work normally.

## 8. Regulating the transmission chain

The direct result of wearing the transmission chain is to stretch the total length of the chain. Measure the stretching rate of the used transmission chain by eye every three months. The mast connected to the elongated chain would be lower in position so that the top of each mast is obviously uneven in 'stored' position. It may lead to damage on guide roller if the problem is serious.

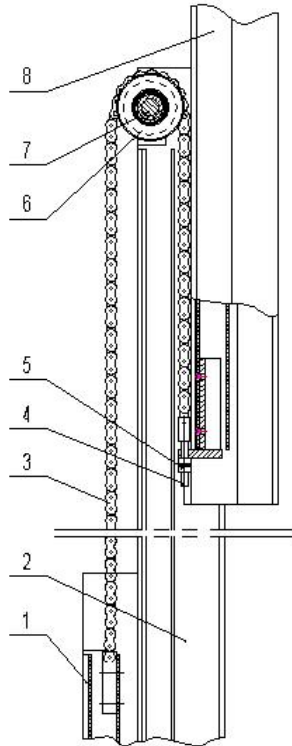
### **NOTICE**

***Every link of the transmission chain is associated with three links of the masts.***

The following sketch shows the connection of the masts and the transmission chain.

- 1- next link of the mast;
- 2- the middle link of the mast;
- 3- the transmission chain;
- 4- adjusting bolt;
- 5- adjusting lock nut;
- 6- chainwheel;
- 7- chainwheel shaft;
- 8- the last link of the mast





When regulating the length of the chain, please select the mast that needs increasing its height. As shown in the sketch, regulating the nut 5 tightly makes the last link of the mast 8 move upwards. The dual nuts 5 should be connected with each other tightly after regulating the length of the chain.

The same link of the mast is pulled by two chains and endures the raised weight loads at the same time. If one of the chains loses efficacy, the other will play an important safety role; therefore, try to make both chains as loose or tight as consistent each other when regulating the length of the chain. The methods of judge at site are as follows: Press the two chains by hands to compare their tautness under lifting status.

**⚠ WARNING** *Not to enter the space beneath a raised work platform and extending structure during maintenance unless the chock is in place.*

**NOTICE** *When the work platform of a GTWP needs to be raised for routine servicing purposes, a captive chock shall be used to enable the extending structure to be held in the required position to prevent work platform from falling down unexpectedly.*

## 9. Lubricate

The rubed place of mobile assembly is often lubricated.

1. The bearing between chain wheel with the shaft is lubricated with the calcium base grease in raising.
- 2 . Lubricate the place between chain wheel with chain used grease gun.
- 3 . Lubricate the lead rail with the calcium base grease in raising.
4. The bearing between wheel with the shaft is lubricate with the calcium base grease.

## Section-8 Function Tests



### Do Not Operate Unless:

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

1. Avoid hazardous situations.
2. Always perform a pre-operation inspection.

**3. Always perform function tests prior to use.**

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

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

### 1. Fundamentals

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

The operator must follow the step-by-step instructions to test all machine functions. A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacture's specifications.

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

## 2. Function Tests

1. Select a test area that is firm, level and free of obstruction.

### At the Ground Controls

2. Pull out the platform and ground red Emergency Stop buttons to the on position.
3. Turn the key switch to the on position.
- ⊙ Result: The LCD indicator will light one by one.

### Test Emergency Stop

4. Push in the ground red Emergency Stop button to the off position.
- ⊙ Result: No functions should operate.
5. Pull out the red Emergency Stop button to the on position.

### Test Up/Down Functions and Function Enable

6. Press "Up" button.
- ⊙ Result: The platform should raised.
7. Press "Down" button.
- ⊙ Result: The platform should lower.

### Test the Auxiliary Lowering

8. Press "Up" button and raise the platform approximately 60 cm.
9. Pull out the Emergency Operation knob.
- ⊙ Result: The platform should lower.

### At the Platform Control

#### Test Emergency Stop

10. Push in the platform red Emergency Stop button to the off position.

#### Test Up/Down Functions and Function Enable

11. Press "Up" button.
- ⊙ Result: The platform should not raised.
12. Press "Down" button.
- ⊙ Result: The platform should not lower.
13. Push in the platform red Emergency Stop button to the on position.
14. Press "Up" button.
- ⊙ Result: The platform should raised.
15. Press "Down" button.
- ⊙ Result: The platform should lower.

#### Test the Up Limit Switch

16. Push and hold the lift function enable button.  
Raise the platform.
- ⊙ Result: The platform should raise to platform height and then stop.

## Section-9 Workplace Inspection



### **Do Not Operate Unless:**

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

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

### **4. Inspect the workplace.**

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

5. Only use the machine as it was intended.

## **1. Fundamentals**

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

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

## **2. Workplace Inspection**

Be aware of and avoid the following hazardous situations:

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

## Section-10 Operating Instructions



### Do Not Operate Unless:

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

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

### 1. Fundamentals

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

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

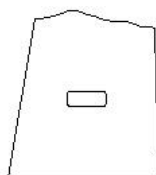
Using the machine for anything other than lifting personnel, along with their tools and materials, to an aerial work site is unsafe and dangerous.

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

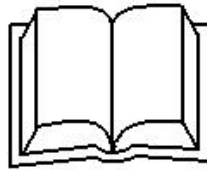
### 2. Inspection on Opening the Packaging

For the initial use, most users should remove the outer packing of wood box for equipment, shockproof and knock-preventing packing before using the equipment, Even if without outer packing, check the whole equipment and its accessories, and the equipment includes the following parts.

Dustproof Cover



User' Manual



Certificate of Quality

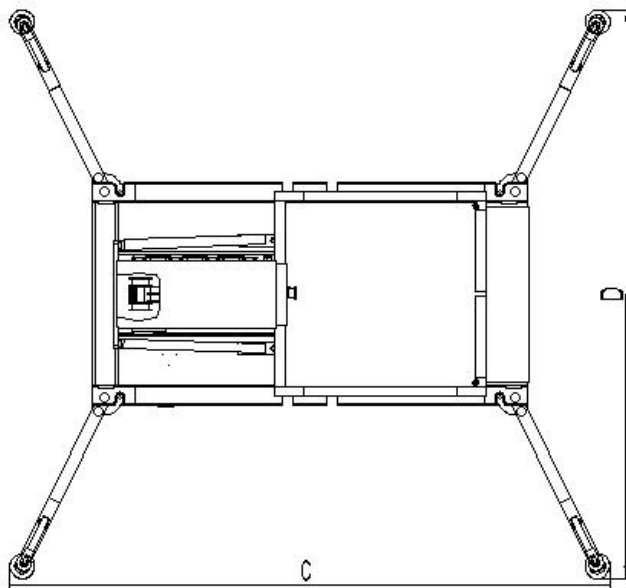


**NOTICE**

- 1. If the unit has been damaged during transport, it must not be put into service, and you should immediately contact your dealer.*
- 2. The equipment has been lubricated before delivery, and the hydraulic unit has been filled with hydraulic oil.*
- 3. If a battery has been supplied with the machine, the battery is charged. Check that the acid level is correct in each cell and that the specific gravity is in order (see "Battery").*

**3. Area Needed For Set up the Machine**

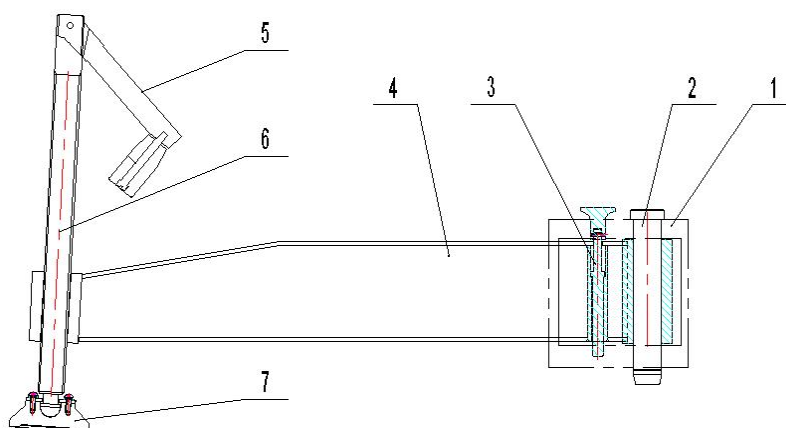
The area for machine stabilizer footprint shown as the sketch below:



Item	Model	C	D
		mm	mm
1	AWP6.1	1940	1840
2	AWP8.1	1940	1840
3	AWP10.1	1940	1840

There are horizontal forces including operating force and outer wind force etc. on the platform. If excessive, render the platform unstable. Preventing inclination of the unit is achieved by extending the four turning stabilizers, which are connected to the four corners of the chassis. Supporting and leveling the unit is achieved by adjusting the support bolts of the four turning stabilizers.

The sketch below shows the following parts:



- 1- Chassis
- 2- Axle Pin
- 3- Aligning Pin
- 4- Turning Leg
- 5- Handle
- 6- Supporting Bolt
- 7- Supporting Foundation

#### 4. Leveling the whole equipment

1. Pull up the aligning pin, extend outwards the turning leg, which is connected to one of the four corners of the chassis, until the aligning pin gets into the working aligning hole automatically
2. Turn the handle clockwise until the supporting foundation contacts the ground for all the four bolts, go on turning to make the road wheel away from the ground.
3. Adjust the leveling by observing the spirit level on the chassis. The bubble should move to the center circle of the gauge when the chassis is set on an even plane.

4. To store the turning stabilizers of the unit, turn the handle counterclockwise until the supporting foundation away from the ground. Pull up the aligning pin, retract inwards the turning leg until the aligning pin gets into the storing aligning hole.

**⚠ WARNING** *You must observe the spirit level on the chassis. The bubble should be within the center circle of the gauge.*

**⚠ WARNING** *Once you doubt leveling is incorrect, just base on mast and use rectangle level gauge to verify it .*

**⚠ WARNING** *Forbid any operation without extending out all the turning stabilizers.*

## 5. How to use the control Buttons

1. Before operating the machine, all circuit breakers and the leakage breaker must be in "ON" position on the electrical box panel .
2. The mobile elevating work platform uses two sets of upper and lower parallel control devices.
3. On either control panels, press "UP" button for lifting and press "DOWN" button for lowering the platform.
4. The platform rises or falls when the button is pressed. Upon loosening the buttons the platform stops.
5. A big mushroom-shaped button is the stopping button at emergency. Press it only if the platform can't stop effectively in the course of rising. Reset the button by turning the knob in the direction shown by the arrow. Do not pull the knob.

## 6. Emergency Operation

If two sets of the upper and the lower control devices can't make the platform fall because of sudden power failure or other causes, turn the knob and the platform will be lowered slowly.



## Section-11 Transport and Storage



### Observe and Obey:

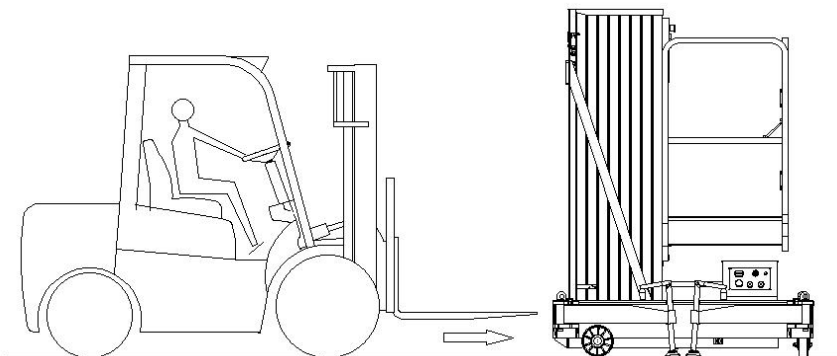
- The transport vehicle must be parked on a level surface.
- The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- Be sure the vehicle capacity, loading surfaces and chains or straps are sufficient to withstand the machine weight. See the serial label for the machine weight.
- The machine must be on a level surface or secured before releasing the brakes.

### 1. Moving the equipment

1. The platform should fall down to the bottom when you are moving the equipment to other working places and then retract the turning stabilizers. The supporting foundations should be made away from the ground and then push the whole machine to the destination. If the equipment goes across the uneven ground, the supporting foundations should be away from the ground so far as to prevent the bolt from bending by the obstacles.

2. If the platform is carried in a long distance, other loading tools should be used for transportation. A forklift should be used for loading onto other vehicles. It should be lifted upward from the bottom. The sketch below shows the lifting points and method of loading.

**NOTICE** *Pull the plug of the power supply out of the socket when you move the whole equipment, cut off the power supply to avoid any unnecessary accidents.*



## 2. Securing to Truck or Trailer for Transit

Always chock the machine wheels in preparation for transport.

Use the tie-down points on the chassis for anchoring down to the transport surface.

Use a minimum of four chains or straps.

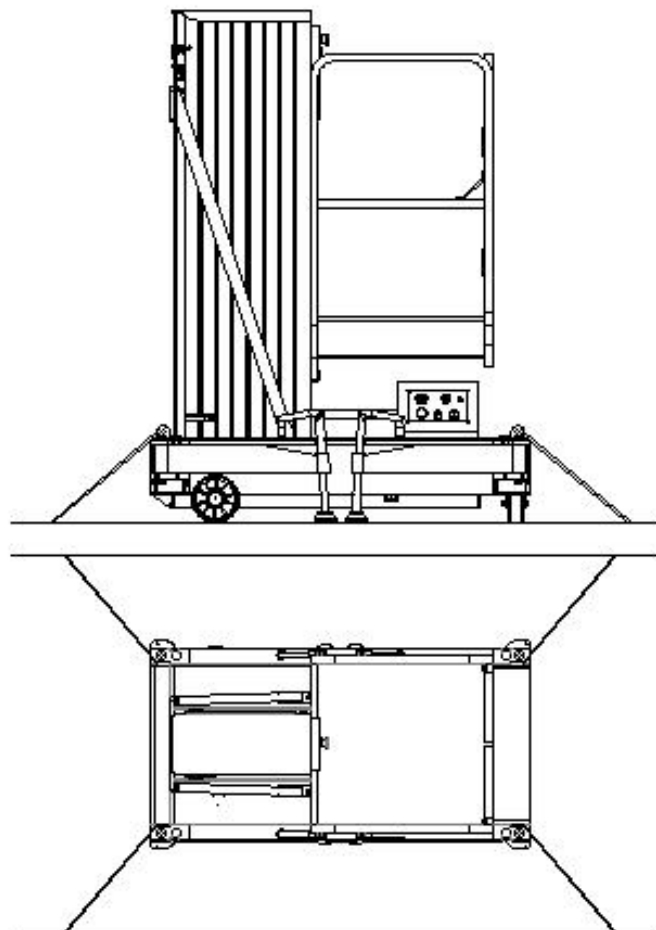
Use chains or straps of ample load capacity.

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

Inspect the entire machine for loose or unsecured items.

## 3. Storage of the equipment

If you plan to stop using the equipment for a long time, the unit should be cleaned and protected by a dustproof cover (supplied).



## Section-12 Trouble shooting

Most of the problems you meet with are easy to solve when you are operating on the mobile elevating work platform. Please find out your problems in this part and solve it according to the recommended steps. If you can't still solve it according to the instructions here, please contact with your suppliers or the experienced service personnel for help.

**Problem 1-** The indicator light of the power supply is off and the platform doesn't rise or fall.

1. Check whether the electrical wire is connected with the socket of the electricity supply correctly or not.
2. Check the circuit breaker to make sure it's in "ON" position.
3. Check the leakage breaker to make sure it's in "ON" position.

**Problem 2-** The power indication light is on, but there is a "ticking" sound in the electric box when the "UP" button is pressed and the platform can't lift or it can only rise up to a limited height .

1. Check the electrical cable to see if it is too long or too thin. The diameter of cable wire should be minimum 1.0 mm when the wire length is less than 25 meters, and minimum 1.5 mm when the wire length is above 25 meters and less than 50 meters. You can try to plug the equipment cord directly in the fixed socket, instead of to an extension cord.
2. Check power voltage to make sure it is within allowable limits.

**Problem 3-** Excessive noise from hydraulic power unit during 'lifting' operation.

1. Check oil box to make sure there is sufficient hydraulic oil in the tank.
2. Check whether the oil filler cap is excessively sealed to make the oil pump difficult to absorb the oil or not.
3. Check the mounting screws of the electric motor and cover etc. to see if they have become loose.
4. Check whether the environment humidity is in accordance with the stipulated conditions or not.

**Problem 4-** Leakage of the hydraulic oil

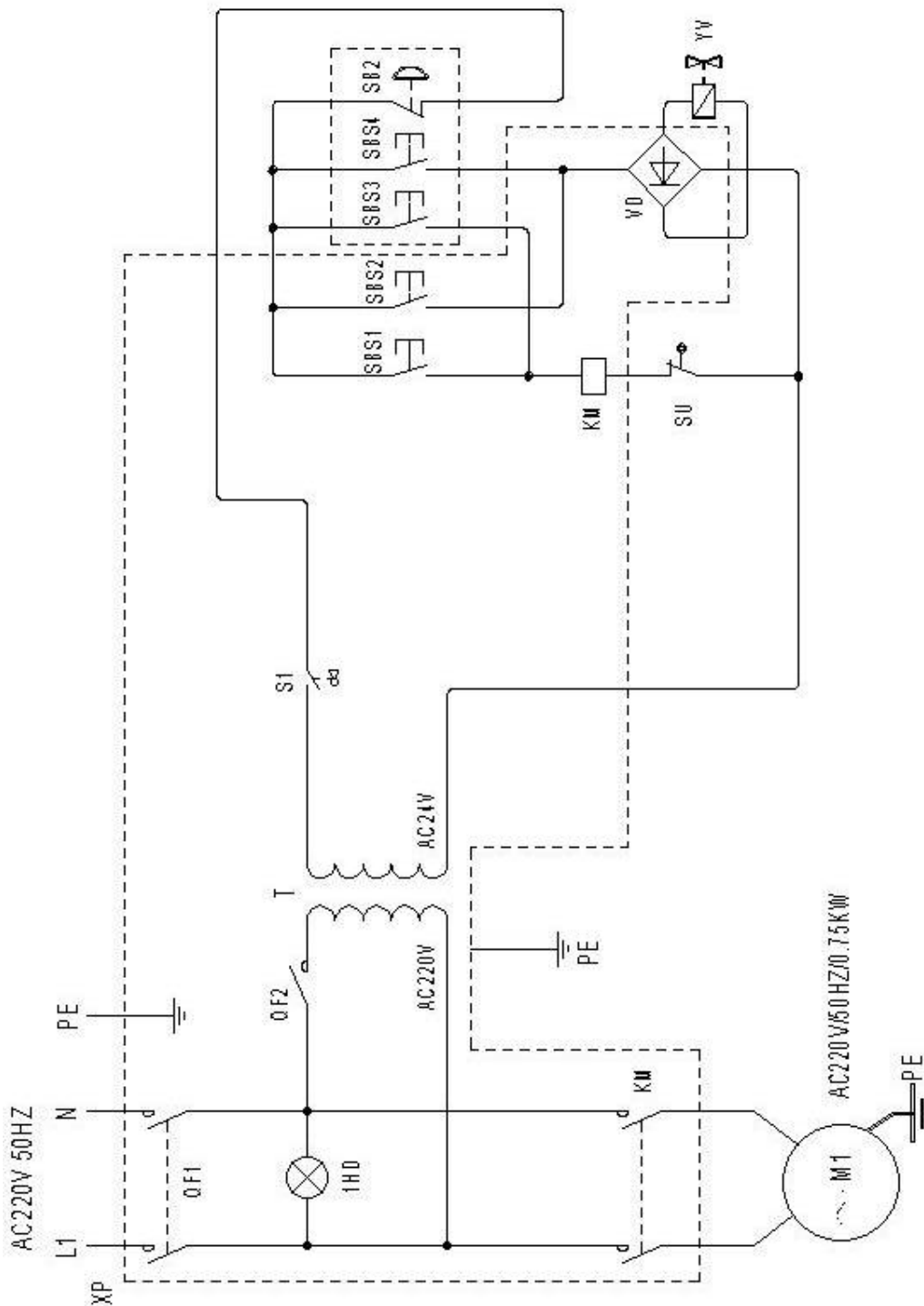
1. Check all piping connections for their tightness, and tighten up if necessary.
2. Check whether the viscosity of the used hydraulic oil is too low or not.

**Problem 5-** All the indicator lights are on, but the platform couldn't rise or fall.

Check the Emergency stop switches on both upper and lower control device. Reset the switch by turning the knob in the direction shown by the arrow.

## Section-13 Electrical Schematic

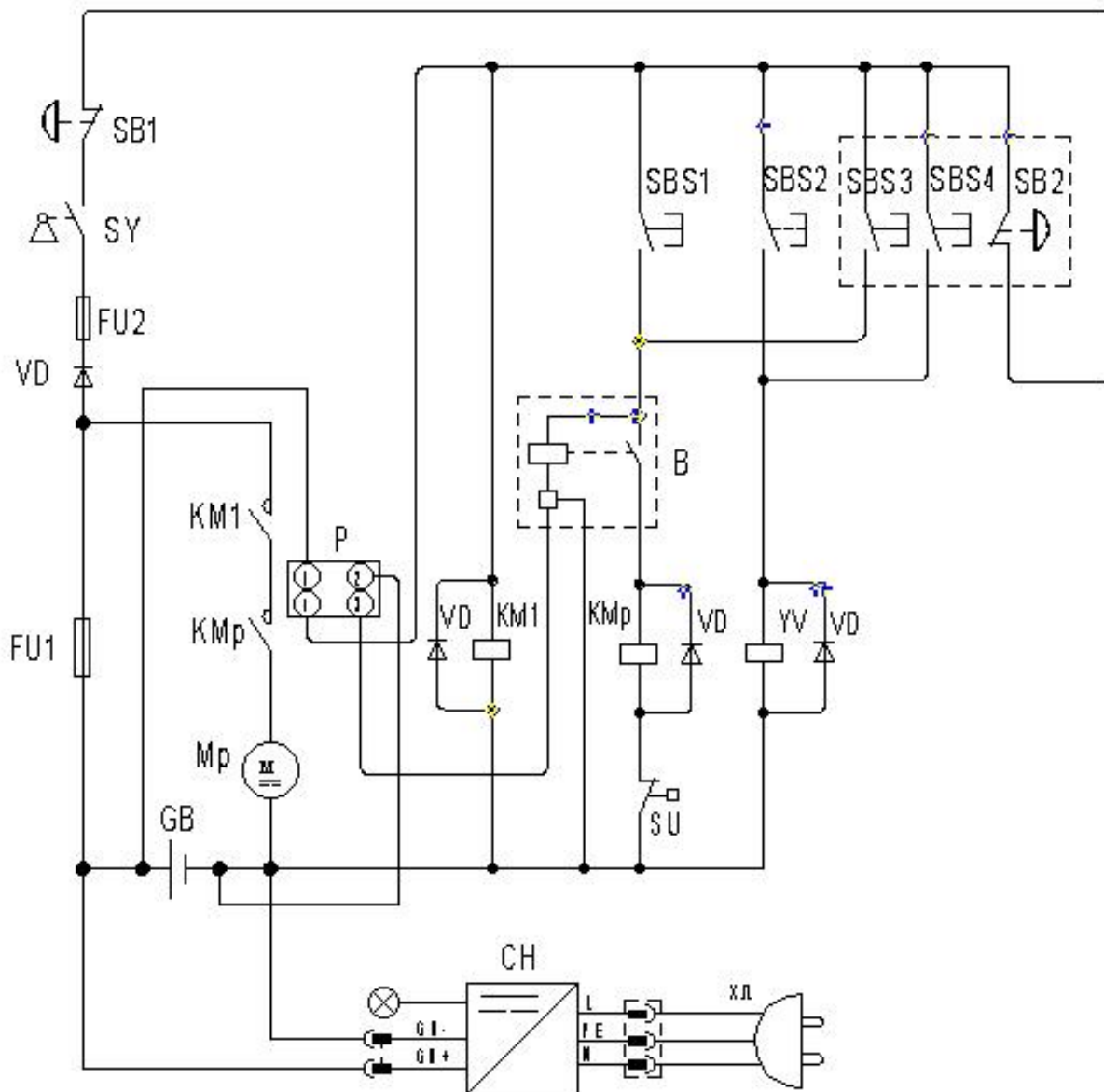
### 1. Electrical Schematic of AC power supply



**2. AC Electrical Component**

Inner and Outer of Machine			
NO.	Symbol	Description	Specification
1	~M1	AC Motor (Pump)	0.75kw/AC220V
2	YV	Lift down Solenoid	DC12V
3	SU	Up Limit Switch	TZ-8104
Chassis control			
NO.	Symbol	Description	Specification
1	QF1	Creep age Switch	DZ47LE-32 C16 16A
2	QF2	Breaker	DZ47-60 C10 10A
3	1HD	Battery Indicator	AD16-22DS
4	T	Transformer	BK-50 AC220V/24V 50-60HZ
5	SBS1	Up-Button	SHDB-221-B2A
6	SBS2	Down-Button	SHDB-221-W1A
7	KM	AC Contactor	CJX2 0910 AC24V 10A
8	VD	Rectifier	KBU8M 1000V
Platform Control			
NO.	Symbol	Description	Specification
1	SB2	Emergency Button	ZB2BS54C/ZB2BZ102C-6A
2	SBS3	Up-Button	ZB2BA3C/ZB2BZ101C-6A
3	SBS4	Down-Button	ZB2BA5C/ZB2BZ101C-6A

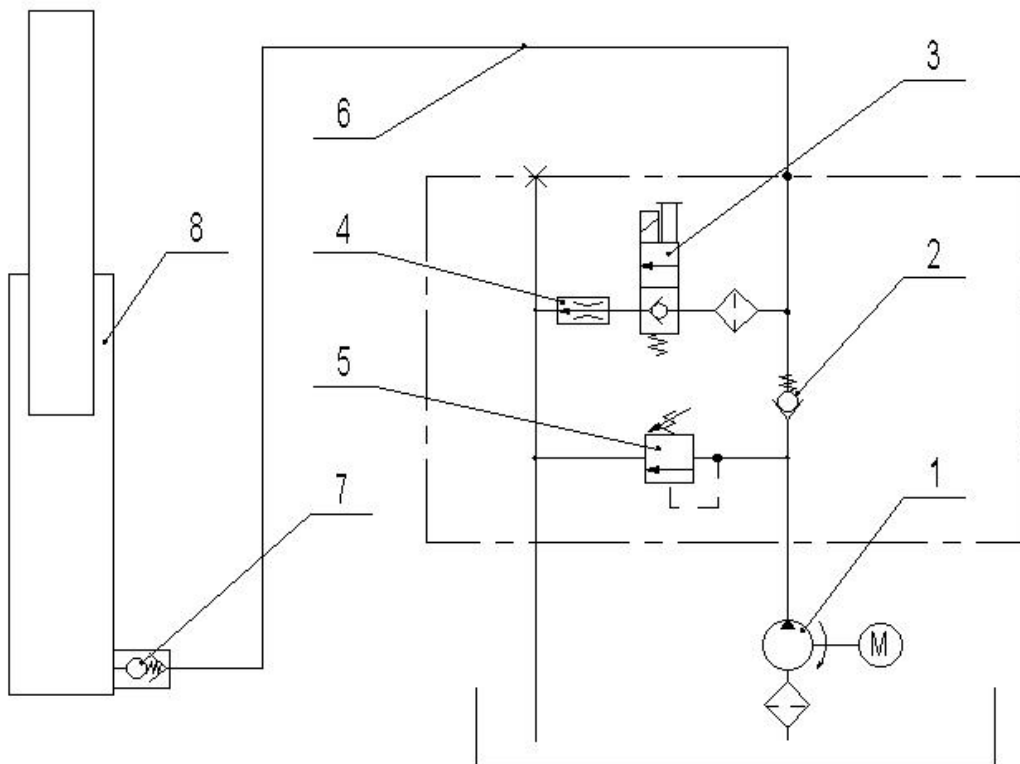
### 3. Electrical Schematic of DC power supply



#### 4. DC Electrical Components

Inner and Outer of Machine			
NO.	Symbol	Description	Specification
1	GB	Battery	80D26/20HR12V-80Ah
2	MP	DC Motor (Pump)	DC12V 1.5kw
3	FU1	Fuse	100A
4	KM1	DC Contactor (Power Supply)	MZJ-200S/1201 DC12V/100A
5	KMp	DC Contactor (Pump)	W800801-1 DC12V
6	YV	Lift Down Solenoid	DC12V
7	SU	Up Limit Switch	TZ-8104
Chassis control			
NO.	Symbol	Description	Specification
1	FU2	Fuse	6A
2	SY	Key Switch	LKS-101A
3	SB1	Emergency Button	CE4T-10R-01
4	SBS1	Up-Button	SHDB-221-B2A
5	SBS2	Down-Button	SHDB-221-W1A
6	P	Electricity meter	906T12BNDAO 12V
7	VD	Diode	1N5408
8	B	Module	BD-V-12
9	CH	Charger	12V20A
Platform Control			
NO.	Symbol	Description	Specification
1	SB2	Emergency Button	ZB2BS54C/ZB2BZ102C-6A
2	SBS3	Up-Button	ZB2BA3C/ZB2BZ101C-6A
3	SBS4	Down-Button	ZB2BA5C/ZB2BZ101C-6A

## Section-14 Hydraulic Diagram



- 1- Hydraulic Power Pack
- 2- Check valve
- 3- Solenoid Valve
- 4- Throttle Valve
- 5- Relief Valve
- 6- Piping
- 7- Fuse Valve
- 8- Hydraulic Cylinder



## Section-15 Log

### Inspection and Repair Log

Date	Comments

