

LSC SERIES MOBILE ELEVATING WORK PLATFORM

OPERATION AND MAINTENANCE MANUAL

Important Safety Information

Most accidents involving product operation, maintenance and repair are caused by failure to observe safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation, lubrication, maintenance or repair on this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product, until you have read and understood the operation, lubrication, maintain and repair information.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or other persons.

The hazards are identified by the "Safety Alert Symbol" and followed by a "Signal Word" such as "WARNING" as shown following.



The meaning of this safety alert symbol is as follows:

Attention. Be alert. Your safety is involved.

The message that appears under the warning, explaining the hazard, can be either written or pictorially presented.

Operations that may cause product damage are identified by NOTICE labels on the product and in this publication.

LiuGong cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are therefore not all inclusive. If a tool, procedure, work method or operating technique not specifically recommended by LiuGong is used, you must satisfy yourself that it is safe for you and others. You should also ensure that the product will not be damaged or made unsafe by the operation, lubrication, maintenance or require procedures you choose.

The information, specification, and illustrations in this publication are on the basis of information available at the time when it was written. The specification, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service given to the product. Obtain the complete and most current information before starting any job. LiuGong has the most current information available.

CALIFORNIA PROPOSITION 65

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects and other reproductive harm.

Battery post, terminal and related accessories contain lead and lead compounds, Always wash hands after handling.

This product is designed according to EN280-1-2022 and AS1418.10:2011+A1:2017.

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Preface

This manual includes important instructions concerning the operation, lubrication, checking, testing, and adjustment of the machine, which are permanent integral components of the machine.

The manual should always be kept safe, clean, and within reach of the operator of the machine for convenient reference. This manual should not be separated from the machine even when the latter is resold or leased.

Some photographs and illustrations in this manual show details of attachments that may be different from those of your machine. Guards and covers may have been removed for the purpose of illustration.

Read this manual carefully and follow all instructions for the proper operation and maintenance of this machine. Instructions in this manual should help the reader avoid possible personal injury or damage to the machine. The operator should be able to operate the machine proficiently and correctly to ensure safety.

Use this machine only for the purposes described in this manual. Contact your LiuGong dealer for approval before making any modifications or adding attachments to the machine. The addition of any unauthorized attachment may cause the operation of the machine to become unsafe and reduce the service life of the machine. Guangxi LiuGong accepts no liability for any damage resulting from the use of unapproved attachments or working practices.

Only trained or experienced personnel should be allowed to operate or maintain this machine. Record the correct machine type, serial number, engine serial number, and all major component serial numbers for your reference when ordering parts, or for the purposes of filing a report in the event of theft. Record the correct serial numbers on the operator's manual that is kept in the cab and in a secure place away from the machine.

Safety

The safety section lists the basic safety precautions. In addition, this section indicates the text and locations of warning symbols and labels used on the machine.

Read and understand the basic precautions listed in the safety section before operating this machine, or performing lubrication, maintenance, or repairs on the machine.

Operation

The operation section provides a reference for the new operator and a refresher for the experienced operator. Read, understand, and reference this section whenever necessary. The section includes a description of gauges, machine controls, switches, and other controls at the operators' station. It also provides information on transporting and towing the machine.

Photographs and illustrations guide the operator in the correct procedures for checking, starting, operating, and stopping the machine.

The operating techniques outlined in this manual are basic, and the operator's skills and techniques will develop as his or her understanding of the machine and its capabilities increases.

Maintenance

The maintenance section is a guide for equipment care. The illustrated, step-by-step instructions are grouped by servicing intervals. Items without specific servicing intervals are listed under "When required." Refer to the detailed instructions that follow the items in "Maintenance Intervals."

For the replacement of environmentally-friendly key parts and components when maintaining an engine, please use the OEM parts and components of the same type and the same specifications. Otherwise, LiuGong accepts no legal liability for any consequence resulting from the use of unapproved parts.

Maintenance intervals

Use the service hour meter to determine the servicing intervals. The calendar intervals shown (daily, weekly, monthly, etc.) can be used instead of the service hour meter intervals if such servicing schedules provide greater convenience and approximate the indicated service hour meter reading. The recommended servicing should always be performed at the interval that occurs first.

Under extremely severe, dusty, or wet operating conditions, more frequent lubrication than what is specified in "Maintenance Intervals" may be necessary.

Perform servicing on items at each and every interval required. For example, at every 500 service hours, also service those items listed under every 250 service hours, 50 service hours, and 10 service hours, or daily servicing.

All the information, figures, tables, and specifications are the latest product information obtainable at the time of publication. Guangxi LiuGong reserves the right to make changes without prior notice.

Proper Engine Maintenance

Correct maintenance and repair methods are essential to keep the engine and machine systems running properly. As the owner, you are responsible for performing the necessary maintenance set out in the Maintenance Manual for this machine. Any person engaged in the business of repairing, servicing, selling, leasing or trading engines or machines is prohibited from removing, altering, or rendering inoperative any emissions related device or element of design installed on or in an engine or machine that is in compliance with the regulations. Certain elements of the machine such as the exhaust system, fuel system, electrical system, air intake system, and cooling system may be related to the machine's emissions and should not be altered unless approved by LiuGong.

Safety Precautions

Usage of the Product Design

The purpose of this machine is limited to the lifting of personnel, tools, and materials in the workplace with elevated heights.

Safety Warning Signs

DANGER

A warning indicates immediate danger, which, if unavoidable, will lead to death or serious bodily injury.

WARNING

Safety warnings can appear on high-altitude operating platforms, safety signs, manuals or other forms of important safety information anywhere. When you see this symbol, you should follow the instructions in the safety information and be alert to the possibility of personal injury or death.

Do Not Operate the Machine Unless You Have Complied With the Following

1. You have learned and reviewed the principles of safe machine operation contained in this Operator's Manual.
 - Avoid hazardous situations. Know and understand the safety rules before going on to the next section.
 - Always perform a pre-operation inspection.
 - Always perform function tests prior to use.
 - Inspect the workplace.
 - Only use the machine as it was intended.
2. You have read and understood, and will obey the manufacturer's instructions and safety rules, Operator's Manual and machine decals.
 3. You have read and understood, and will obey your employer's safety rules and worksite regulations.
 4. You have read and understood, and will obey all applicable governmental regulations.
 5. You are properly trained to safely operate the machine.

Safety Signs

Definitions of the safety signs with the words "Danger", "Warning" and "Caution" which appear in this manual and on the machine are as follows:

DANGER

- Danger: this word denotes an impending danger, failure to observe instructions could result in death or serious injuries.

WARNING

- Warning: this word denotes potential danger, failure to observe instructions could result in death or serious injuries.

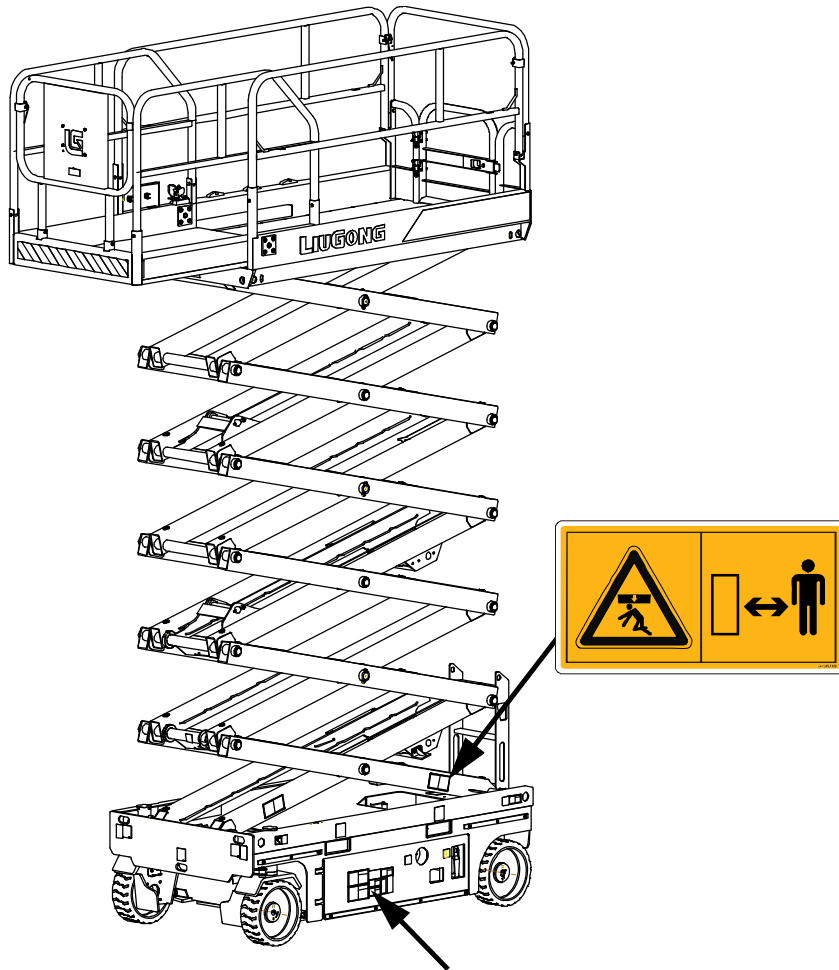
CAUTION

- Caution: this word denotes potential danger, failure to observe instructions could result in minor to medium degree of injury.

"Caution" is also used to indicate safety information relating to unsafe operations which may cause personal injuries. "Danger" represents the most dangerous conditions. The safety signs "Danger" or "Warning" are placed near particular dangerous places. General notice information is placed on the safety sign "Caution."

General safety

European standard-hydraulic drive safety sticker-1
LSC0407DH/LSC0607DH/LSC0608DH/LSC0808DH/LSC0812DH/LSC1012DH/LSC1212DH/
LSC1414DH



European standard-hydraulic drive safety sticker-2

LSC0407DH/LSC0607DH/LSC0608DH/LSC0808DH/LSC0812DH/LSC1012DH/LSC1212DH/
LSC1414DH

⚠ DANGER

- The suspended load position the platform will cause the machine to tip over. The suspension beam outside the platform is prohibited.
- Please reach the manual vertically before operation.

⚠ WARNING

When the platform is raised, the suspension beam outside the platform is prohibited. Please reach the manual vertically before operation.

Lower the platform when the machine is in the up position. If it does not lower when the platform is raised, the machine will not be able to lower the platform.

⚠ WARNING

Platform lifting is prohibited in order to avoid accidental fall, hearing loss, etc.

⚠ WARNING

Platform lifting is prohibited in order to avoid accidental fall, hearing loss, etc.

⚠ WARNING

Whenever mounting or dismounting machine, face machine and maintain 3 points of contact. Never jump from machine. Ensure steps are clean.

Please refer to the table1-1 for this label

⚠ WARNING

- Check the function of the brake system before operation, to prevent the failure of the braking system when driving or stopping on the ramp and caused personnel injury.
- Check the wheel of wedge when stopping on ramp, to prevent the personnel and machine damage caused by sliding from ramp.

⚠ WARNING

Annual inspection record Failure to complete required inspections could result in death or serious injury

Scheduled maintenance inspections must be completed as specified in the appropriate service manual. Use this decal to record the date of the annual inspection, the initials of the inspector and the machine owner.

Use the maintenance inspection report in the service manual for required record keeping. Keep records on all inspections for four years. Maintenance inspections must be completed by a person trained and qualified on the maintenance of this machine.

Model	Serial number
Date of inspection	
Inspected by	
Machine Owner	

⚠ WARNING

Two sides of the chassis other weight is larger, please lower the load before lifting platform. The platform is prohibited to tilt.

⚠ WARNING

Please keep a safe distance from the platform when the platform is raised.

⚠ WARNING

Check the function of the brake system before operation, to prevent the failure of the braking system when driving or stopping on the ramp and caused personnel injury.

⚠ WARNING

Check the wheel of wedge when stopping on ramp, to prevent the personnel and machine damage caused by sliding from ramp.

⚠ WARNING

Check the function of the brake system before operation, to prevent the failure of the braking system when driving or stopping on the ramp and caused personnel injury.

⚠ WARNING

Check the wheel of wedge when stopping on ramp, to prevent the personnel and machine damage caused by sliding from ramp.

Safety Sign Maintenance

Replace any missing or damaged safety signs so that operators must always keep safety in mind.

Use neutral soap and clean water to clean the safety label.

Do not use solvent-based cleaners because they may damage safety labeling materials.

Label Symbol Description

Table1-1 Label symbol description

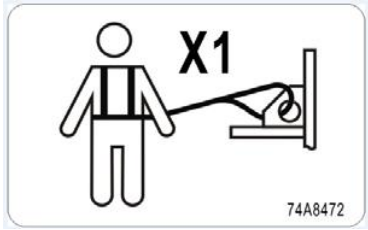


NO.	Item number	Identification	Identification description
1	74A8472		Lanyard Anchorage Point
2	74A5150		Stay away from machine
3	74A3080		machine.

Table1-1 Label symbol description



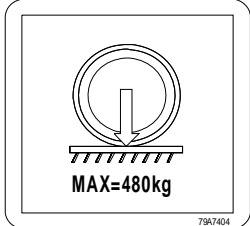
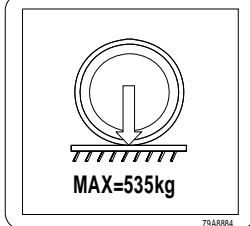
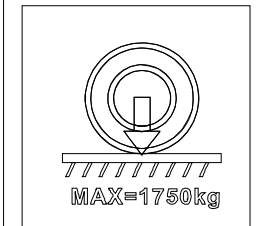
NO.	Item number	Identification	Identification description
4	79A5806		Wheel load
5	79A5997		Wheel load
6	79A7404		Wheel load
7	79A8884		Wheel load
8	79A9070		Wheel load

Table1-1 Label symbol description

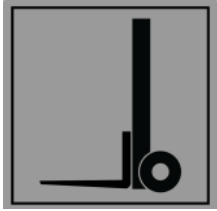



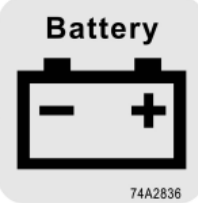
NO.	Item number	Identification	Identification description
8	79A5798		Lift point of forklift
9	79A6680		Power switch
10	79A8459		Power switch
11	74A2871		Fuse
12	74A2836		Battery

Table1-1 Label symbol description






NO.	Item number	Identification	Identification description
13	79A8512		<p>Set warning signs to stay away from power lines, warning signs to close the bracket door, warning signs to use the scissor arm safety bracket, warning signs for electric shock, warning signs for electric shock, warning signs for reading instructions before operation</p>
14	74A3308		<p>Pay attention to waterproof</p>
15	74A2862		<p>Lifting Point</p>
16	74A1658		<p>Lifting Point</p>
17	74A8342		<p>Lubricate periodically</p>

Table1-1 Label symbol description

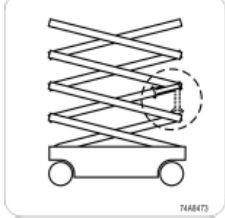




NO.	Item number	Identification	Identification description
18	74A8473		Fork rack safety arm
19	74A8765		Reflective decal
20	79A6472		Reflective decal
21	79A8513		A set of tilting hazard signs, keep away from power lines, no climbing hazard signs, platform no load warning signs, pay attention to the warning signs, no unauthorized operation signs read the instructions before operation signs
22	79A8514		In case of prohibition, press the red button to stop all actions, and pull out the button before troubleshooting.

Table1-1 Label symbol description


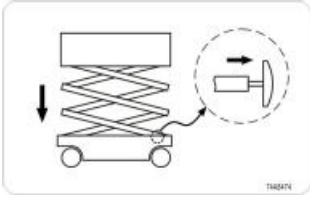



NO.	Item number	Identification	Identification description
23	79A6706	 <p>The label features the word "MAX" in large, bold, black capital letters on a grey rectangular background. Below the text is a horizontal line, and at the bottom right corner, the text "79A6706-ISO" is printed in a smaller font.</p>	Hydraulic oil level
24	74A8474	 <p>The diagram shows a scissor lift with a dashed circle highlighting a cable on the side. An arrow points to the cable, and another arrow points to a circular component. The label is identified as "74A8474" in the bottom right corner.</p>	Emergency drop cable
25	79A8511	 <p>A collection of nine warning signs arranged in a 3x3 grid. Each sign has a yellow background with a black border and a warning symbol (exclamation mark, flame, or other hazard icons). The signs contain text in multiple languages, including "WARNING" and "ATTENTION".</p>	A set of warning signs to keep away from the power cord, warning signs to close the bracket door, warning signs to use the scissor arm safety bracket, warning signs are equipped with a maintenance box, warning signs shall not be operated without authorization, please read the instructions before use and gather them together
26	79A6707	 <p>The label features the word "MIN" in large, bold, black capital letters on a grey rectangular background. Below the text is a horizontal line, and at the bottom right corner, the text "79A6707-ISO" is printed in a smaller font.</p>	Hydraulic oil level
27	74A4458	 <p>The label has a grey background with the text "Hydraulic Oil" at the top. Below the text is a black icon of a hydraulic cylinder with a drop of oil falling from it. The label is identified as "74A4458" in the bottom right corner.</p>	Hydraulic oil

Table1-1 Label symbol description



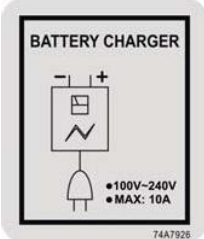


NO.	Item number	Identification	Identification description
28	79A6688		DO NOT LIFT THE WHOLE MACHINE THROUGH ESCALATOR
29	74A3091		Electrocution Hazard
30	74A7926		Battery Charger, 100v~240v MAX:10A
31	74A9935		<p>Check the function of the brake system before operation, to prevent the failure of the braking system when driving or stopping on the ramp ,and caused personnel injury.</p> <p>Chock the wheel of wedge when stopping on ramp, to prevent the personnel and machine damage caused by sliding from ramp.</p>
32	74A4508		Platform safety label

Table1-1 Label symbol description

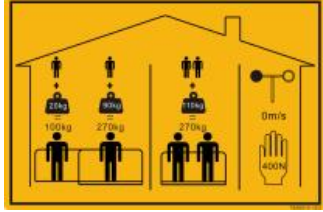
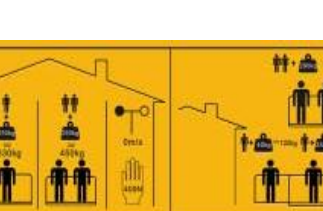
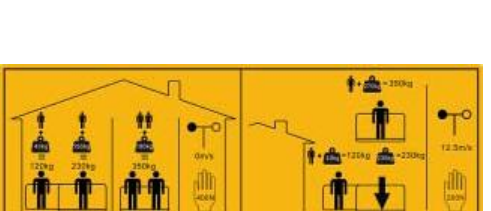

NO.	Item number	Identification	Identification description
33	79A6910		<p>Indoor use load capacity: Personnel (≤ 2) + tools ≤ 270kg, Wind speed ≤ 0m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:100kg.</p>
			<p>No outdoor work.</p>
34	79A6909		<p>Indoor use load capacity: Personnel (≤ 2) + tools ≤ 230kg, Wind speed ≤ 0m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:100kg.</p>
			<p>No outdoor work.</p>
35	79A6700		<p>Indoor use load capacity: Personnel (≤ 2) + tools ≤ 450kg, Wind speed ≤ 0m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:120kg.</p> <p>Outdoor use load capacity: Personnel (≤ 1) + tool ≤ 450kg, Wind speed ≤ 12.5m/s, Maximum load capacity of platform extension:120kg</p>
36	79A6702		<p>Indoor use load capacity: Personnel (≤ 2) + tools ≤ 350kg.Wind speed ≤ 0m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:120kg.</p> <p>Outdoor use load capacity: Personnel (≤ 1) + tool ≤ 350kg.Wind speed ≤ 12.5m/s, Operating force ≤ 200N, Maximum load capacity of platform extension:120kg.</p>

Table1-1 Label symbol description

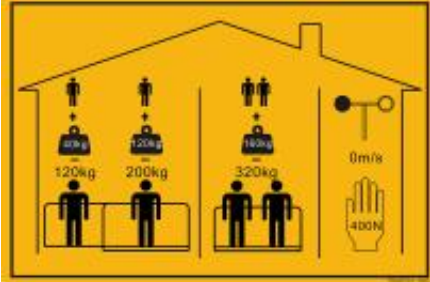


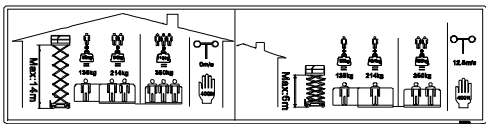
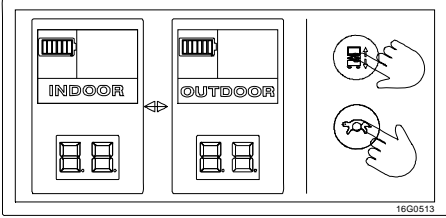
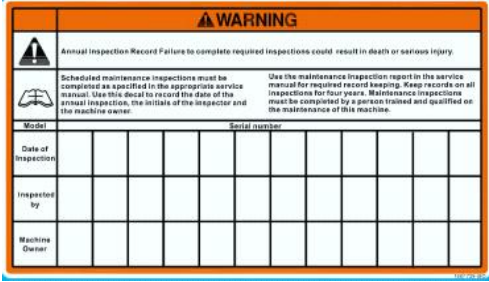


NO.	Item number	Identification	Identification description
37	79A6701		<p>Indoor use load capacity: Personnel (≤ 2) + tools ≤ 230kg, Wind speed ≤ 0m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:120kg</p> <p>No outdoor work.</p>
38	79A7170		<p>Indoor use load capacity: Personnel (≤ 2) + tools ≤ 240kg, Wind speed ≤ 0m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:110kg</p> <p>No outdoor work.</p>
39	79A8876		<p>Indoor use load capacity: Personnel (≤ 2) + tools ≤ 230kg, Wind speed ≤ 0 m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:113kg</p> <p>No outdoor work.</p>
40	79A9073		<p>Indoor use load capacity: Working height ≤ 14 m, Personnel (≤ 3) + tools ≤ 350kg, Wind speed ≤ 0 m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:136kg</p> <p>Outdoor use load capacity: Working height ≤ 6 m, Personnel (≤ 2) + tools ≤ 350kg, Wind speed ≤ 12.5 m/s, Operating force ≤ 400N, Maximum load capacity of platform extension:136kg</p>

Table1-1 Label symbol description

NO.	Item number	Identification	Identification description
41	16G0513		Exchange between indoor use and outdoor use.
42	16G1729		
43	16G1818		
44	16G1827		

The Impact of Wind on Aerial Work

Machines intended for indoor use only shall not be used for outdoor work.

For outdoor use, the platform should not be lifted when the wind speed is greater than 12.5 m/s (28 mph).

If the wind speed exceeds 12.5 m/s (28 mph) after the rise, the platform should be lowered immediately and the machine should not be operated.

Table 1-2 Object Anemometer (American)

Wind level	Wind description	Scenery feature	Wind speed (m/s)	Wind speed (mph)
0	No wind	Quiet, smoke rises straight up	0 ~ 0.2	0 ~ 0.5
1	Light breeze	Smoke can indicate the direction of the wind, and the vane does not rotate.	0.3 ~ 1.5	0.7 ~ 3.4
2	Soft wind	Wind can be felt on your face, the leaves rustle slightly, and the wind vane turns.	1.6 ~ 3.3	3.5 ~ 7.4
3	Breeze	Leaves and twigs sway and flags unfold.	3.4 ~ 5.4	7.6 ~ 12
4	A gentle wind	Dust and paper are blown off the ground, and twigs shake.	5.5 ~ 7.9	12.3 ~ 17.7
5	Cool breeze	Whole leafy trees sway; inland waters ripple.	8.0 ~ 10.7	18 ~ 24
6	Fierce wind	Big branches sway, you find it difficult to hold onto an umbrella, and wires are whistling.	10.8 ~ 13.8	24 ~ 30.8
7	Near gale	Trees are shaking and it is difficult for you to move forward in the wind.	13.9 ~ 17.1	31 ~ 38.3
8	Gale	It is difficult for you to move forward because of broken branches.	17.2 ~ 20.7	38.4 ~ 46.3
9	Strong gale	The top of chimneys are moving and wooden houses are damaged.	20.8 ~ 24.4	46.5 ~ 54.6
10	Fierce wind	Trees are uprooted and buildings are damaged.	24.5 ~ 28.4	54.8 ~ 63.5
11	Storm	Rare on land, and buildings are generally damaged.	28.5 ~ 32.5	63.7 ~ 72.7
12	Hurricane	Rare on land, and buildings are generally seriously damaged.	≥ 32.6	≥ 72.9

Safety When Handling Batteries

Burn Hazards

Ordinary batteries contain acidic substances. Wear protective clothing and protective glasses when performing battery maintenance.

Avoid battery acid spills or contact. Use soda and water to neutralize overflowing battery acid.

Explosion Hazards

The battery is capable of releasing explosive gases. Do not allow sparks, flames, and ignited cigarettes near the battery.

The rechargeable battery tray should remain open during the entire charge.

Do not touch the battery terminals or cable clamps with tools that may cause sparks.

Component Damage Hazard

Do not use any battery charger with a voltage greater than 24V to charge the batteries.

Electrocution/Burn Hazards

Only connect the battery charger to a grounded AC three-wire power outlet.

Check cables and wiring for damage every day. Replace damaged objects before operation.

Avoid electric shock due to contact with battery terminals. Remove all rings, watches, and other accessories.

Tip-Over Hazards

Do not use batteries that weigh less than the original battery. The battery not only provides electrical energy, but also stabilizes the whole machine.

Lifting Hazards

When lifting the battery, please use the appropriate number of people and lifting methods.

Work Area Security

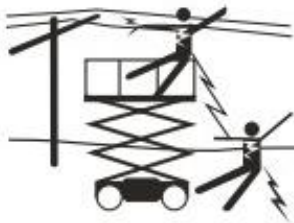
1. The platform should only be lifted on a sturdy, flat floor.
2. Do not use the tilt alarm as a level indicator. The tilt alarm only goes off when the machine is longitudinal 3° and transverse 1.5°.
3. If the tilting alarm sounds, carefully lower the platform.
4. 0.7 km/h (0.4 mph)

The travel speed shall not exceed 0.7 km/h (0.4 mph) when the platform is raised.

Electrocution Hazards

This machine does not have insulation properties and does not provide protection against electric shock when in contact with or near electrical wiring.

Fig. 1-1



Maintain adequate safety distances from power lines and electrical equipment in accordance with applicable government laws and regulations and the following table.

Table 1-3 Object Anemometer

Phase-to-phase voltage	Min. safe distance	Min. safe distance
0 ~ 300 V	No touching	No touching
300 V ~ 50 kV	3.05 m	10 ft
50kV ~ 200 kV	4.6 m	15 ft
200kV ~ 350 kV	6.1 m	20 ft
350kV ~ 500 kV	7.62 m	25 ft

Table 1-3 Object Anemometer

500kV ~ 750 kV	10.67 m	35 ft
750kV ~ 1000 kV	13.72 m	45 ft

Tip-Over Hazards

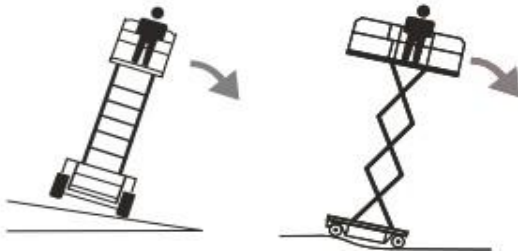
Prohibition of overloading the work platform

The total weight of personnel, tools, and materials on the platform shall not exceed the maximum carrying capacity of the platform and the extension platform.

Table 1-4 Maximum loads

Model	Max. working load of platform		Max. working load of extended platform	
	kg	lb	kg	lb
LSC0407DH	270 kg	595 lb	100 kg	220 lb
LSC0407DE				
LSC0607DH	230 kg	507 lb	100 kg	220 lb
LSC0607DE				
LSC0808DH	230 kg	507 lb	113 kg	249 lb
LSC0808DE				
LSC0812DH	450 kg	992 lb	120 kg	265 lb
LSC0812DE				
LSC1012DH	350 kg	772 lb	120 kg	265 lb
LSC1012DE				
LSC1212DH	320 kg	705 lb	120 kg	265 lb
LSC1212DE				
LSC1414DH	350 kg	772 lb	136 kg	300 lb
LSC1414DE				
LSC0407DEM	240 kg	529 lb	110 kg	243 lb
LSC0507DEM	240 kg	529 lb	110 kg	243 lb
LSC0608DEM	230 kg	507 lb	113 kg	249 lb

Fig. 1-2



When using outdoors, do not raise the platform when the wind speed may exceed 12.5 m/s (28 mph). If the wind speed exceeds 12.5 m/s (28 mph) after the platform is raised, the platform should be lowered and the machine should not be operated.

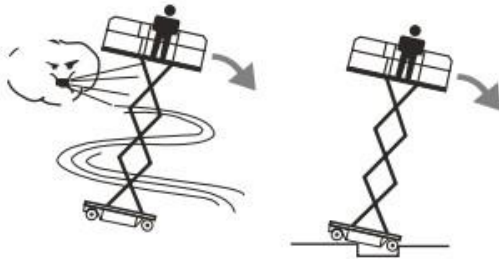
When using indoors, please follow the maximum number of workers and the maximum allowable lateral force.

Table 1-5 The maximum number of workers for the machine and the maximum allowable lateral force

Model	Max. operating force	Usage	Max. number of workers
LSC0407DE	400 N	Only indoors	2
LSC0607DE	400 N	Only indoors	2
LSC0808DE	400 N	Only indoors	2
LSC0812DE	400 N	Indoor	2
	400 N	Outdoor	2
LSC1012DE	400 N	Indoor	2
	200 N	Outdoor	1
LSC1212DE	400N	Only indoors	2
LSC1414DE	400 N	Indoor	3
	400 N	Outdoor	2
LSC0407DH	400 N	Only indoors	2
LSC0607DH	400 N	Only indoors	2
LSC0808DH	400 N	Only indoors	2
LSC0812DH	400 N	Indoor	2
	400 N	Outdoor	2
LSC1012DH	400 N	Indoor	2
	200 N	Outdoor	1
LSC1212DH	400N	Only indoors	2
LSC1414DH	400 N	Indoor	3
	400 N	Outdoor	2
LSC0407DEM	400N	Indoor	2
LSC0507DEM	400N	Indoor	2
LSC0608DEM	400N	Indoor	2

After the platform is lifted, the machine cannot travel on uneven terrain, unstable surfaces, or other dangerous conditions, or travel near these areas.

Fig. 1-3



- Do not use the machine as a crane.
- When driving the machine, the platform should be in compliance with local traffic regulations.
- Prohibition of any increase in reach or working height of the MEWP by use of additional equipment, e.g., ladders.
- Access the platform only from the platform door.
- Prohibition of getting on and off the work platform when elevated.
- When the intended use of the platform changes, the user should obtain guidance and approval from the manufacturer.
- Do not push the machine or other objects with the platform.
- Do not let the platform come into contact with adjacent components.
- Do not bundle the platform on adjacent components.
- Do not place the load outside the perimeter of the platform.
- Do not operate the machine while the chassis bracket is open.
- Do not add load to the platform after lifting.

- Do not operate the machine in strong winds or gusts. Do not increase the surface area of the platform or load. Increasing the area exposed to the wind will reduce the stability of the machine.
- In the stowed position, be very careful and reduce speed when the machine is traveling on uneven terrain, with gravel, unstable or smooth surfaces, and near holes and steep slopes.
- Do not use batteries that weigh less than the original battery. The battery is not only a source of electricity, but also serves as a counterweight, which is essential for maintaining the stability of the machine.

Operation on Slopes Hazards

Do not drive on the maximum allowable slope. The maximum slope only applies when the platform is fully retracted.

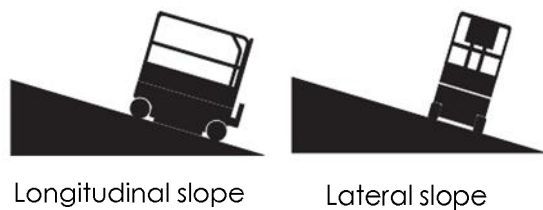
Table 1-6

Model	Max.longitudi nal slope	Max.lateral slope
LSC0407DH	14°	3°
LSC0407DE		
LSC0607DH	14°	3°
LSC0607DE		
LSC0808DH	14°	3°
LSC0808DE		
LSC0812DH	14°	3°
LSC0812DE		
LSC1012DH	14°	3°
LSC1012DE		
LSC1212DH	14°	3°
LSC1212DE		
LSC1414DH	14°	3°
LSC1414DE		
LSC0407DEM	14°	3°
LSC0507DEM	14°	3°

Table 1-6

Model	Max. longitudinal slope	Max. lateral slope
LSC0608DEM	14°	3°

Fig. 1-4



Fall Hazards

Do not enter the platform unless the machine is completely retracted.

When climbing up and down the ladder, be sure to keep at least three points of contact, such as two hands and one foot and two feet and one hand.

After entering the platform, you should confirm that the entry is reliably closed.

When the platform is raised, do not climb down the platform.

Personnel on the platform must wear safety shoes, helmets, safety belts, etc., and confirm that the seat belt hooks are attached to the seat belt tethers. Each tether point can only be tied to one hook.

You cannot climb or sit on the platform guardrail and should stand on the platform floor at all times.

Keep the platform floor clean and tidy.

Collision Hazards

When starting or operating the machine, pay attention to the existence of line of sight and blind spots.

Fig. 1-5



Check the work area to avoid obstacles or other possible hazards.

Fig. 1-6



When grabbing the guardrail of the platform, beware of crush hazards.

Fig. 1-7



The platform must only be lowered when there are no people or obstacles in the area below the platform.

Fig. 1-8



The speed of travel shall be limited based on ground conditions, congestion levels, slope, personnel location, and any other factors that may cause a collision.

Fig. 1-9



Crush Hazards

Do not put your hands and arms close to areas where there is a risk of shearing.

When the safety arm is not in the proper position, do not work under the platform or in the scissors.

When using the controller to operate the machine on the ground, please exercise normal judgment and plan ahead. Keep safe distances between the operator, machine, and a fixed object.

Bodily Injury Hazard

Do not operate the machine when a hydraulic oil or air leak is present. 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.

Explosion and Fire Hazards

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

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 Anhui LiuGong 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 on the machine.

Component Damage Hazards

Do not use any battery charger with a voltage greater than 24V to charge the batteries.

Do not use the machine as a ground for welding.

Locking After Each Use

1. Choose a safe parking location, such as a solid horizontal ground free of obstacles and clear of heavy transportation.
2. Lower the platform.
3. Turn the key switch to the off position and unplug the key to avoid unauthorized use.
4. Charge the batteries.

Modification to the Product Use

The purpose of this machine is limited to the lifting of personnel, tools, and materials in the workplace with elevated heights. Under normal circumstances, no changes are allowed. If you must make changes due to usage requirements, please contact our company and obtain permission.

The manufacturer's approval must be obtained for any alteration that might affect stability, strength, or performance.

Replacement of Parts During Maintenance

In order to ensure product performance and quality when replacing parts during equipment maintenance or repairs, please purchase the original accessories of LiuGong.

Product Overview and Main Technical Specifications

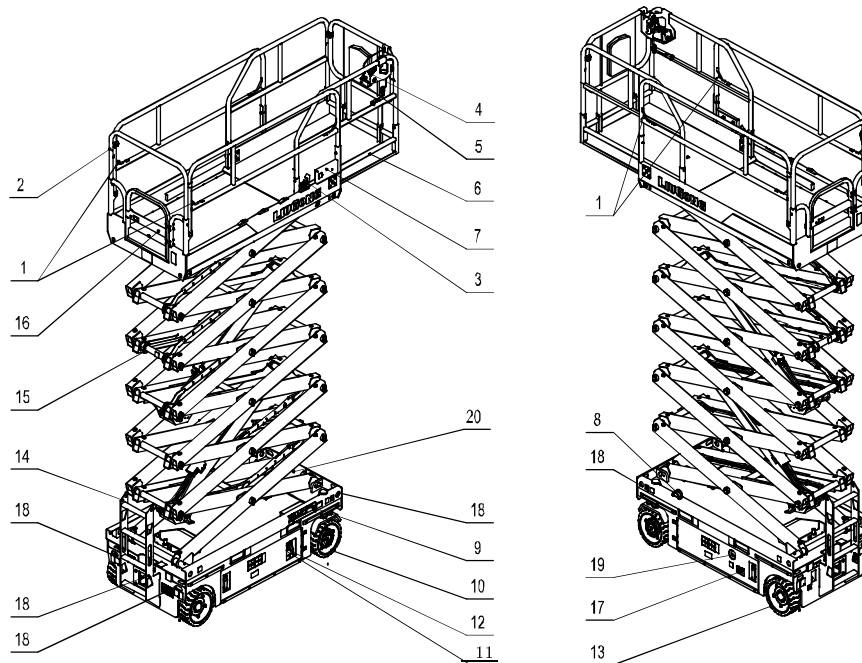
Product Overview

Application

The purpose of this machine is limited to the lifting of personnel, tools, and materials in the workplace with elevated heights.

Main Components

Fig. 2-1 The main components

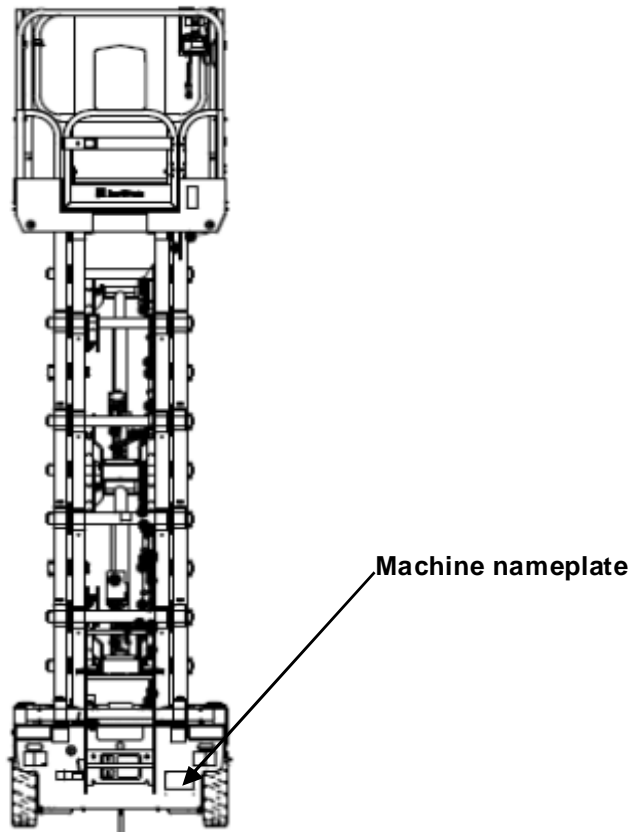


- | | | |
|---|--|-------------------------------------|
| 1. Lanyard anchorage points | 2. Platform guardrails | 3. Platform extension release pedal |
| 4. Platform controls | 5. Manual storage container | 6. Platform extension |
| 7. Air line to platform (optional) | 8. Flashing light | 9. Emergency lowering knob |
| 10. Steer tire | 11. Pothole guard | 12. Ground controls |
| 13. Non-steer tire | 14. Entry ladder / transport tie-down | 15. Safety arm |
| 16. Platform entry gate | 17. Battery charger (on battery side of machine) | 18. Transport tie-down |
| 19. Brake release switch (hydraulic side) | 20. Tilt alarm | |

Product Identification

The machine serial number is located on the machine nameplate.

Fig. 2-2 Machine nameplate



Inspection for Decals with Words

Fig. 2-3 Decal components-1

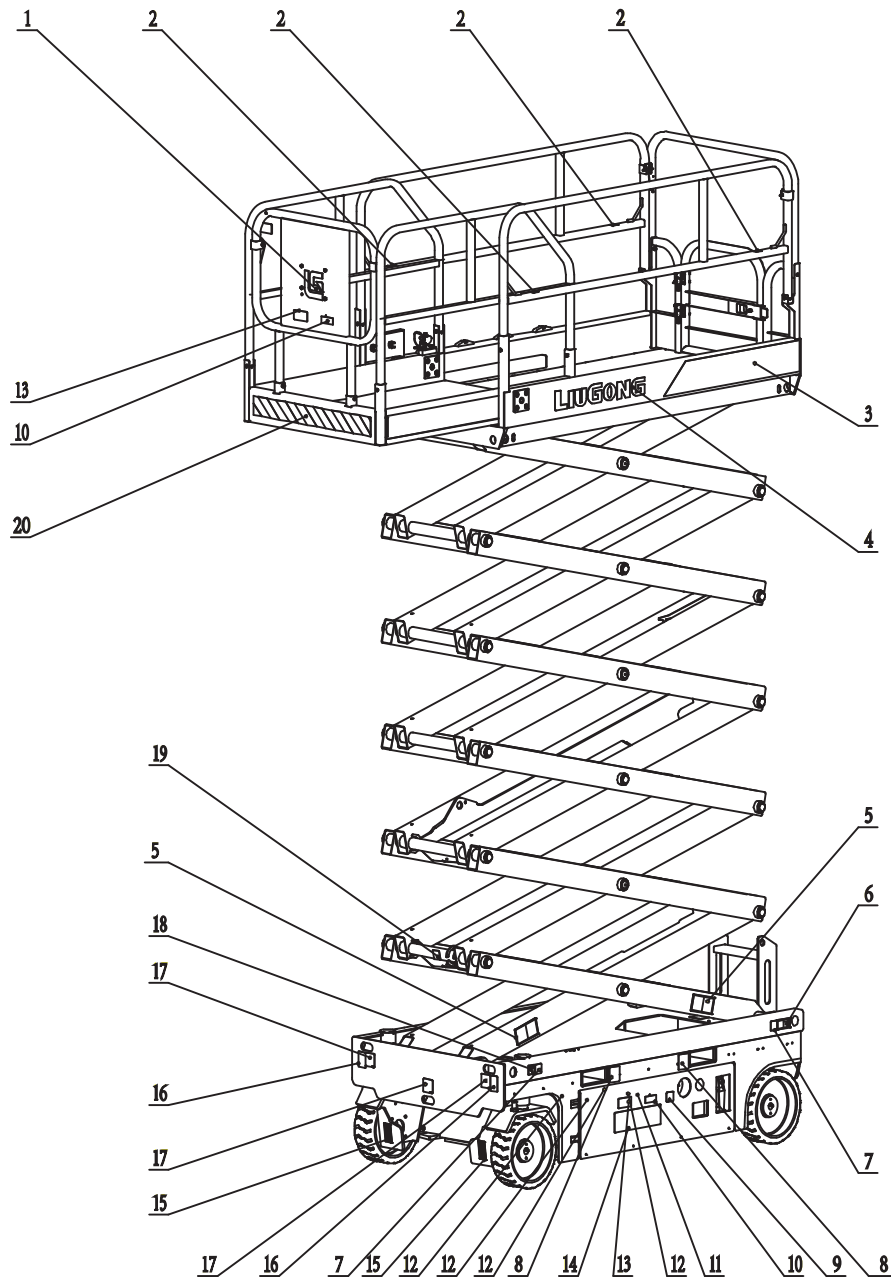
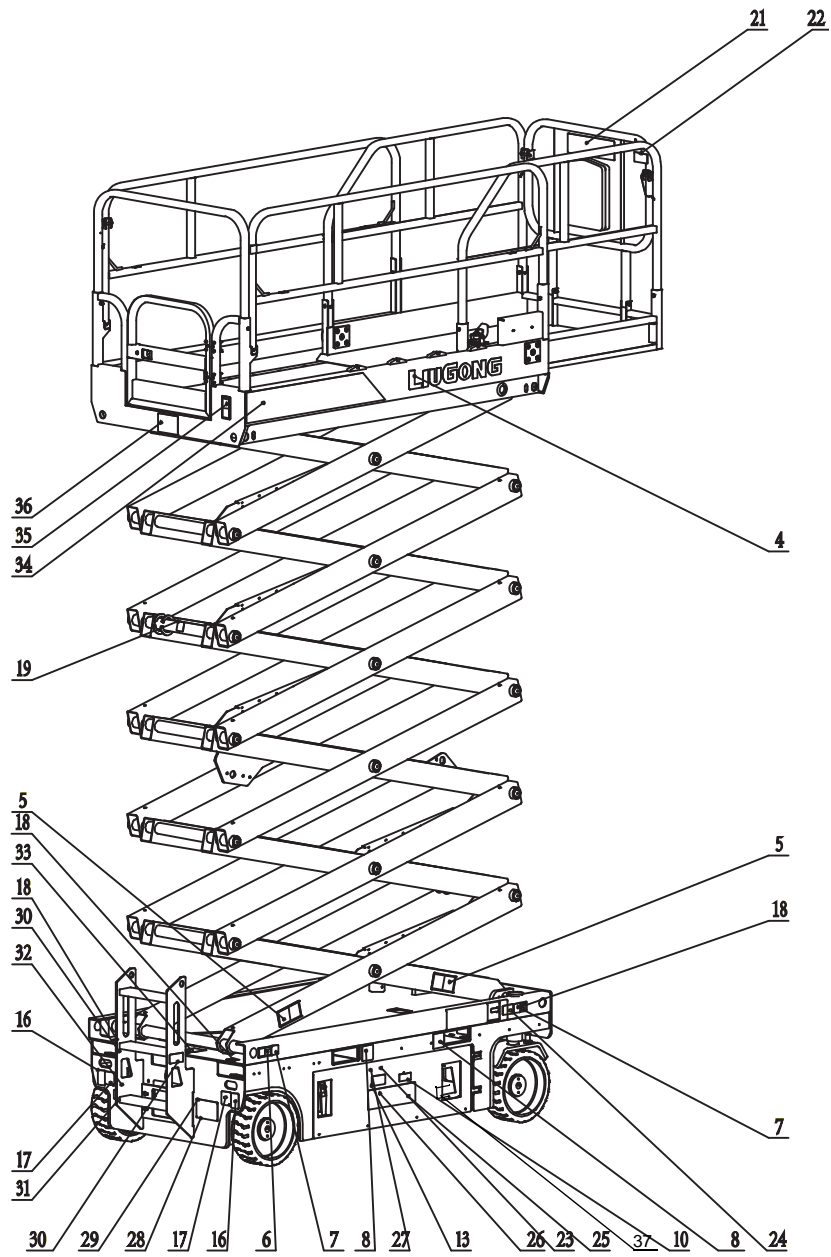


Fig. 2-4 Decal components-2



NO.	Labeling type	Decal Description	Part No. -EN	Applicable models	Qty	Note
1	Liugong logo	Liugong logo	79A5400	All model	1	
2	Instructions	Lanyard anchorage point	74A8472	All model	4	
3	Instructions	Model identification	79A9613	LSC1414DH	1	
			79A6950	LSC1212DH	1	
			79A6952	LSC1012DH	1	
			79A6954	LSC0812DH	1	
			79A7924	LSC0808DH	1	
			79A6956	LSC0607DH	1	
			79A6958	LSC0407DH	1	
			79A9072	LSC1414DE	1	
			79A6960	LSC1212DE	1	
			79A6962	LSC1012DE	1	
			79A6964	LSC0812DE	1	
			79A8496	LSC0808DE	1	
			79A6966	LSC0607DE	1	
			79A6968	LSC0407DE	1	
			79A7212	LSC0407DEM	1	
79A9845	LSC0507DEM	1				
79A8879	LSC0608DEM	1				
4	Liugong logo	liugong trademark	79A4633	All model	2	
5	safety sign	Stay away from machine	74A5150	All model	4	
6	safety sign	Check brake system	79A222	All model	4	

NO.	Labeling type	Decal Description	Part No. -EN	Applicable models	Qty	Note
7	Instructions	Wheel load	79A5806	LSC1212DH/ LSC1212DE LSC1012DH/ LSC1012DE LSC0812DH/ LSC0812DE	4	
			79A5997	LSC0607DH/ LSC0607DE LSC0407DH/ LSC0407DE	4	
			79A7404	LSC0407DEM	4	
			79A7404	LSC0507DEM	4	
			79A8884	LSC0608DEM	4	
			79A7928	LSC0808DH/ LSC0808DE	4	
			79A9070	LSC1414DH/ LSC1414DE	4	
8	Instructions	Lift point of forklift	79A5798	All model	1	
9	Label	IPAF	79A7038	All model	1	
10	Instructions	Power switch	79A6680	All model	1	LSC0607DH/ LSC0607DE LSC0407DH/ LSC0407DE (the lable is near the main power switch)
11	Instructions	Fuse	74A2871	All model	1	Not on the surface of the machine, and near the fuse in the battery box ,you need to open the battery box to find
12	Instructions	Battery	74A2836	All model	4	Not on the surface of machine but on the surface of the battery,you need to open the battery box to find.
13	Safety sign	Important safety labels	79A7403	All model	1	
14	Label	CE	/	All model	2	
15	Safety sign	Pay attention to waterproof	74A3308	LSC1212DE LSC1012DE LSC0812DE LSC0808DE LSC0607DE LSC0407DE	2	
16	Safety sign	Lifting point	74A2862	All model	4	

NO.	Labeling type	Decal Description	Part No. -EN	Applicable models	Qty	Note
17	Safety sign	Lifting point	74A1658	All model	5	
18	Instructions	Lubricate periodically	74A8342	All model	4	
19	Instructions	Fork rack safety arm	74A8473	All model	/	Depending on the model, the inspection location is different, and the table is near the inspection bracket
20	Safety sign	Reflective decal	74A8765	LSC1212DH/ LSC1212DE LSC1012DH/ LSC1012DE LSC0812DH/ LSC0812DE	1	
			79A6472	LSC0607DH/ LSC0607DE LSC0407DH/ LSC0407DE	1	
21	Safety sign	Important safety labels	79A7410	All model	1	
22	Safety sign	Emergency stop	79A7411	All model	1	
23	Instructions	Hydraulic oil level	79A6706	All model	1	Positioned on the side of the hydraulic tank, the tray door needs to be opened
24	Safety sign	Important safety labels	79A4705	All model	1	
25	Instructions	Hydraulic oil level	79A6707	All model	1	Positioned on the side of the hydraulic tank, the tray door needs to be opened
26	Instructions	Hydraulic oil	74A4458	All model	1	
27	Pin nameplate	Pin nameplate	00G2405	All model	1	
28	Rivet	Rivet	01B0012	All model	4	
29	Safety sign	Ban lifting	79A6688	All model	2	
30	Safety sign	Electrocution hazard	74A3091	All model	1	
31	Instructions	Battery charger indicator	74A7926	All model	1	
32	Instructions	Lubricate periodically	74A8342	LSC0407DEM LSC0507DEM LSC0608DEM LSC0407DH/DE LSC0607DH/DE LSC0808DH/DE LSC0812DH/DE LSC1012DH/DE LSC1212DH/DE LSC1414DH/DE	1	

NO.	Labeling type	Decal Description	Part No. -EN	Applicable models	Qty	Note
33	Instructions	Model identification	79A6951	LSC1212DH	1	
			79A6953	LSC1012DH	1	
			79A6955	LSC0812DH	1	
			79A6957	LSC0607DH	1	
			79A6959	LSC0407DH	1	
			79A6961	LSC1212DE	1	
			79A6963	LSC1012DE	1	
			79A6965	LSC0812DE	1	
			79A6967	LSC0607DE	1	
			79A6969	LSC0407DE	1	
34	Safety sign	Platform safety label	74A4508	All model	1	
35	Safety sign	Platform safety label	79A6910	LSC0407DH/ LSC0407DE	1	
			79A6909	LSC0607DH/ LSC0607DE	1	
			79A6909	LSC0808DH/ LSC0808DE	1	
			79A6700	LSC0812DH/ LSC0812DE	1	
			79A6702	LSC1012DH/ LSC1012DE	1	
			79A6701	LSC1212DH/ LSC1212DE	1	
			79A9073	LSC1414DH/ LSC1414DE	1	
			79A7170	LSC0407DEM	1	
			79A7170	LSC0507DEM	1	
			79A8876	LSC0608DEM	1	
36	Pin nameplate	Pin nameplate	16G1813	All model	1	

Main Technical Specifications

Fig.2-5

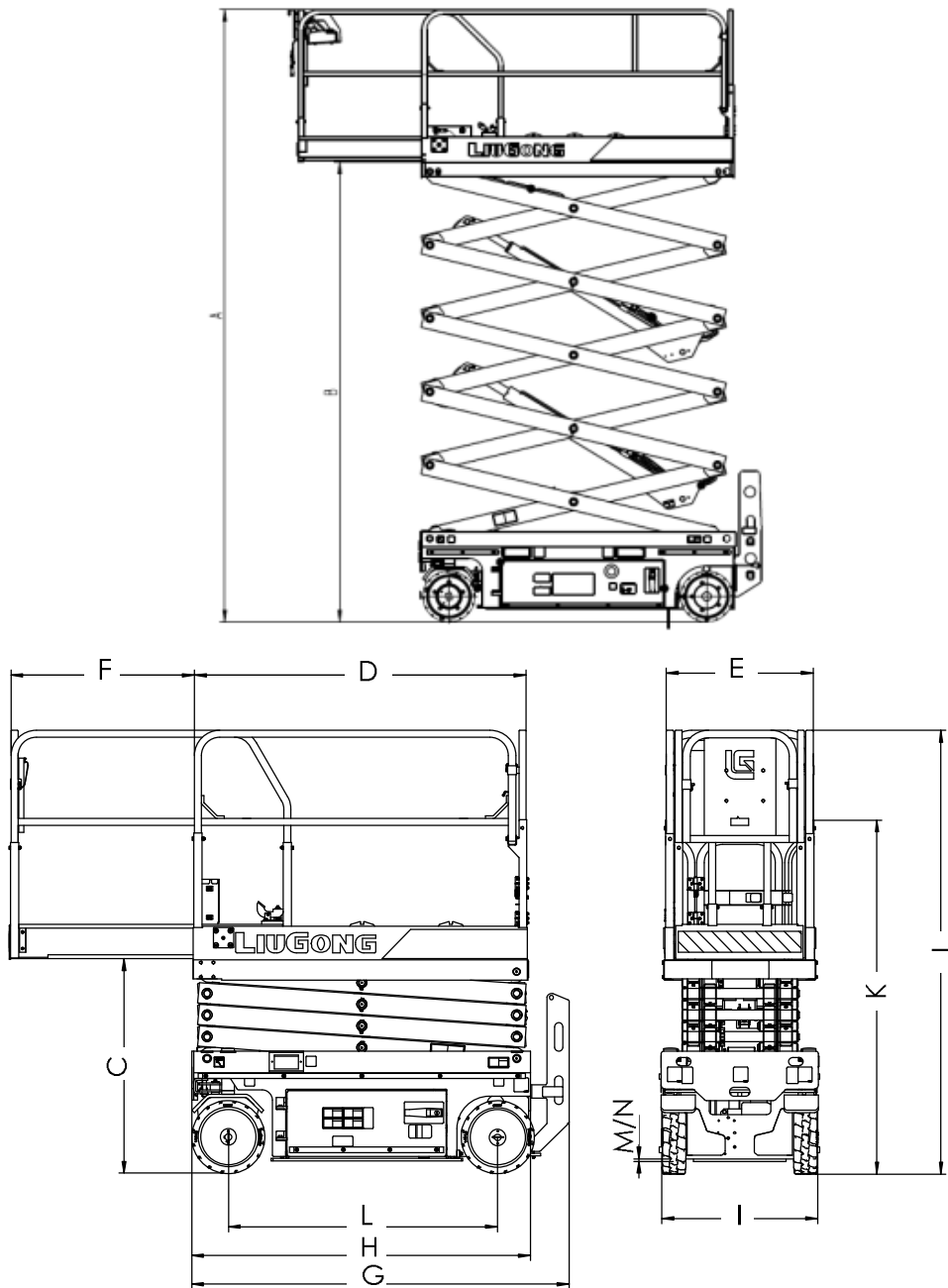


Table 2-1

No.	Item	Model: LSC0407DH	
Size			
1	A - Working height (max.)	6.5 m	21 ft 3 in
2	B - Platform height (max.)	4.5 m	14 ft 9 in
3	C - Platform height (min.)	0.83 m	2 ft 9 in
4	D - Length with platform retracted	1.6 m	5 ft 5 in
5	E - Width (work platform)	0.75 m	2 ft 6 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	1.85 m	6 ft 1 in
8	H - Overall length (without Ladder)	1.66 m	5 ft 5 in
9	I - Overall width	0.78 m	2 ft 7 in
10	J - Overall height (stowed, rails up)	2.05 m	6 ft 9 in
11	K - Overall height (stowed, rails down)	1.62 m	5 ft 4 in
12	L - Wheelbase	1.32 m	4 ft 4 in
13	M - Ground clearance (stowed)	60 mm	2.4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	270 kg	595 lb
2	Rated load of extended platform	100 kg	220 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	3.4 km/h	2.1 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	25/30 s	25/30 s
8	Min. turning radius (inside/outside)	0/1560 mm	0/61.5 in
9	Total vibration value of the hand/arm	$\leq 2.5 \text{ m/s}^2$	$\leq 2.5 \text{ m/s}^2$
10	Tire size	356×114 mm	14×4.5 in
11	Weight	1320 kg	2910 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	3.3 kw	4.4 hp
3	Battery (C20)	24 V/215 Ah	24 V/215 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz

Table 2-1

No.	Item	Model: LSC0407DH	
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	10 L	2.6 gal
4	Hydraulic system capacity (including hydraulic tank)	13 L	3.4 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-2

No.	Item	Model: LSC0607DH	
Size			
1	A - Working height (max.)	7.8 m	24 ft 7 in
2	B - Platform height (max.)	5.8 m	19 ft
3	C - Platform height (min.)	0.95 m	2 ft 1 in
4	D - Length with platform retracted	1.64 m	5 ft 5 in
5	E - Width (work platform)	0.75 m	2 ft 6 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	1.85 m	6 ft 1 in
8	H - Overall length (without Ladder)	1.66 m	5 ft 5 in
9	I - Overall width	0.78 m	2 ft 7 in
10	J - Overall height (stowed, rails up)	2.15 m	7 ft 1 in
11	K - Overall height (stowed, rails down)	1.72 m	5 ft 8 in
12	L - Wheelbase	1.32 m	4 ft 4 in
13	M - Ground clearance (stowed)	60 mm	2.4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	230 kg	507 lb
2	Rated load of extended platform	100 kg	220 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	3.4 km/h	2.1 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	25/30 s	25/30 s
8	Min. turning radius (inside/outside)	0/1560 mm	0/61.5 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	356×114 mm	14×4.5 in
11	Weight	1520 kg	3351 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	3.3 kw	4.4 hp
3	Battery (C20)	24 V/215 Ah	24 V/215 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz

Table 2-2

No.	Item	Model: LSC0607DH	
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	10 L	2.6 gal
4	Hydraulic system capacity (including hydraulic tank)	13 L	3.4 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-3

No.	Item	Model: LSC0808DH	
Size			
1	A - Working height (max.)	10 m	32 ft 10 in
2	B - Platform height (max.)	8 m	32 ft 3 in
3	C - Platform height (min.)	1.21 m	4 ft
4	D - Length with platform retracted	2.28 m	7 ft 6 in
5	E - Width (work platform)	0.81 m	2 ft 9 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	2.49 m	8 ft 2 in
8	H - Overall length (without Ladder)	2.29 m	7 ft 6 in
9	I - Overall width	0.83 m	2 ft 9 in
10	J - Overall height (stowed, rails up)	2.35 m	7 ft 9 in
11	K - Overall height (stowed, rails down)	1.8 m	5 ft 11 in
12	L - Wheelbase	1.88 m	6 ft 2 in
13	M - Ground clearance (stowed)	100 mm	4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	230 kg	507 lb
2	Rated load of extended platform	113 kg	249 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/400 N	400/400 N
5	Max. travel speed (stowed)	3.4 km/h	2.1 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	38/42 s	38/42 s
8	Min. turning radius (inside/outside)	0/2200 mm	0/86.6 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	2180 kg	4806 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	4.5 kw	6 hp
3	Battery (C20)	24 V/225 Ah	24 V/225 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz

Table 2-3

No.	Item	Model: LSC0808DH	
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	20 L	5.2 gal
4	Hydraulic system capacity (including hydraulic tank)	23 L	6 gal
Operating conditions			
1	Max. working wind speed	12.5 m/s	28 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-4

No.	Item	Model: LSC0812DH	
Size			
1	A - Working height (max.)	10 m	32 ft 10 in
2	B - Platform height (max.)	8 m	32 ft 3 in
3	C - Platform height (min.)	1.21 m	4 ft
4	D - Length with platform retracted	2.28 m	7 ft 6 in
5	E - Width (work platform)	1.15 m	3 ft 9 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	2.49 m	8 ft 2 in
8	H - Overall length (without Ladder)	2.29 m	7 ft 6 in
9	I - Overall width	1.19 m	3 ft 11 in
10	J - Overall height (stowed, rails up)	2.35 m	7 ft 9 in
11	K - Overall height (stowed, rails down)	1.8 m	5 ft 11 in
12	L - Wheelbase	1.88 m	6 ft 2 in
13	M - Ground clearance (stowed)	100 mm	4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	450 kg	992 lb
2	Rated load of extended platform	120 kg	265 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/400 N	400/400 N
5	Max. travel speed (stowed)	3.4 km/h	2.1 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	38/50 s	38/50 s
8	Min. turning radius (inside/outside)	0/2300 mm	0/90.5 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	2620 kg	5776 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	4.5 kw	6 hp
3	Battery (C20)	24 V/225 Ah	24 V/225 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz

Table 2-4

No.	Item	Model: LSC0812DH	
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	20 L	5.2 gal
4	Hydraulic system capacity (including hydraulic tank)	23 L	6 gal
Operating conditions			
1	Max. working wind speed	12.5 m/s	28 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-5

No.	Item	Model: LSC1012DH	
Size			
1	A - Working height (max.)	12 m	39 ft 4 in
2	B - Platform height (max.)	10 m	32 ft 10 in
3	C - Platform height (min.)	1.34 m	4 ft 5 in
4	D - Length with platform retracted	2.28 m	7 ft 6 in
5	E - Width (work platform)	1.15 m	3 ft 9 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	2.49 m	8 ft 2 in
8	H - Overall length (without Ladder)	2.29 m	7 ft 6 in
9	I - Overall width	1.19 m	3 ft 11 in
10	J - Overall height (stowed, rails up)	2.48 m	8 ft 2 in
11	K - Overall height (stowed, rails down)	1.92 m	6 ft 4 in
12	L - Wheelbase	1.88 m	6 ft 2 in
13	M - Ground clearance (stowed)	100 mm	4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	350 kg	772 lb
2	Rated load of extended platform	120 kg	265 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/200 N	400/200 N
5	Max. travel speed (stowed)	3.4 km/h	2.1 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	55/58 s	55/58 s
8	Min. turning radius (inside/outside)	0/2300 mm	0/90.5 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	2960 kg	6526 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	4.5 kw	6 hp
3	Battery (C20)	24 V/240 Ah	24 V/240 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz

Table 2-5

No.	Item	Model: LSC1012DH	
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	20 L	5.2 gal
4	Hydraulic system capacity (including hydraulic tank)	25 L	6.6 gal
Operating conditions			
1	Max. working wind speed	12.5 m/s	28 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-6

No.	Item	Model: LSC1212DH	
Size			
1	A - Working height (max.)	14 m	45 ft 11in
2	B - Platform height (max.)	12 m	39 ft 4 in
3	C - Platform height (min.)	1.47 m	4 ft 10 in
4	D - Length with platform retracted	2.28 m	7 ft 6 in
5	E - Width (work platform)	1.15 m	3 ft 9 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	2.49 m	8 ft 2 in
8	H - Overall length (without Ladder)	2.29 m	7 ft 6 in
9	I - Overall width	1.19 m	3 ft 11 in
10	J - Overall height (stowed, rails up)	2.6 m	8 ft 6 in
11	K - Overall height (stowed, rails down)	2.04 m	6 ft 8 in
12	L - Wheelbase	1.88 m	6 ft 2 in
13	M - Ground clearance (stowed)	100 mm	4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	320 kg	705 lb
2	Rated load of extended platform	120 kg	265 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	3.4 km/h	2.1 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	55/58 s	55/58 s
8	Min. turning radius (inside/outside)	0/2300 mm	0/90.5 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	3150 kg	6945 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	4.5 kw	6 hp
3	Battery (C20)	24 V/300 Ah	24 V/300 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz

Table 2-6

No.	Item	Model: LSC1212DH	
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	20 L	5.2 gal
4	Hydraulic system capacity (including hydraulic tank)	25 L	6.6 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-7

No.	Item	Model: LSC1414DH	
Size			
1	A - Working height (max.)-indoor	16 m	52 ft
	A - Working height (max.)-outdoor	8 m	26 ft
2	B - Platform height (max.)-indoor	14 m	46 ft
	B - Platform height (max.)-outdoor	6 m	20 ft
3	C - Platform height (min.)	1.66 m	5 ft
4	D - Length with platform retracted	2.88 m	113.4 in
5	E - Width (work platform)	1.34 m	52.8 in
6	F - Length with platform extended	1.35 m	53.1 in
7	G - Overall length (extension platform retracted)	3.14 m	124 in
8	H - Overall length (without Ladder)	2.9 m	114.2 in
9	I - Overall width	1.4 m	55 in
10	J - Overall height (stowed, rails up)	2.74 m	107.9 in
11	K - Overall height (stowed, rails down)	1.97 m	77.6 in
12	L - Wheelbase	2.46 m	97 in
13	M - Ground clearance (stowed)	150 mm	5.9 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	350 kg	772 lb
2	Rated load of extended platform	136 kg	300 lb
3	Number of people (max.)	3	3
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	3.4 km/h	2.1 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	90/60 s	90/60 s
8	Min. turning radius (inside/outside)	300/3120 mm	1/123 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	3700 kg	8159 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	3.4 kw	4.5 hp
3	Battery (C20)	24 V/300 Ah	24 V/300 Ah

Table 2-7

No.	Item	Model: LSC1414DH	
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	23 L	5.98 gal
4	Hydraulic system capacity (including hydraulic tank)	33 L	8.58 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-8

No.	Item	Model: LSC0407DE	
Size			
1	A - Working height (max.)	6.5 m	21 ft 3 in
2	B - Platform height (max.)	4.5 m	14 ft 9 in
3	C - Platform height (min.)	0.83 m	2 ft 9 in
4	D - Length with platform retracted	1.64 m	5 ft 5 in
5	E - Width (work platform)	0.75 m	2 ft 6 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	1.85 m	6 ft 1 in
8	H - Overall length (without Ladder)	1.66 m	5 ft 5 in
9	I - Overall width	0.78 m	2 ft 7 in
10	J - Overall height (stowed, rails up)	2.05 m	6 ft 9 in
11	K - Overall height (stowed, rails down)	1.62 m	5 ft 4 in
12	L - Wheelbase	1.32 m	4 ft 4 in
13	M - Ground clearance (stowed)	60 mm	2.4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	270 kg	595 lb
2	Rated load of extended platform	100 kg	220 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	25/30 s	25/30 s
8	Min. turning radius (inside/outside)	0/1560 mm	0/61.5 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	356×114 mm	14×4.5 in
11	Weight	1320 kg	2910 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	3.3 kw	4.4 hp
3	Drive motor power	0.75 kW	1 hp
4	Battery	24 V/215 Ah	24 V/215 Ah
5	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC

Table 2-8

No.	Item	Model: LSC0407DE	
6	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
7	Charger input power supply maximum operating current	8.5 A	8.5 A
8	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
9	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	10 L	2.6 gal
4	Hydraulic system capacity (including hydraulic tank)	13 L	3.4 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-9

No.	Item	Model: LSC0607DE	
Size			
1	A - Working height (max.)	7.8 m	24 ft 7 in
2	B - Platform height (max.)	5.8 m	19 ft
3	C - Platform height (min.)	0.95 m	2 ft 1 in
4	D - Length with platform retracted	1.64 m	5 ft 5 in
5	E - Width (work platform)	0.75 m	2 ft 6 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	1.85 m	6 ft 1 in
8	H - Overall length (without Ladder)	1.66 m	5 ft 5 in
9	I - Overall width	0.78 m	2 ft 7 in
10	J - Overall height (stowed, rails up)	2.15 m	7 ft 1 in
11	K - Overall height (stowed, rails down)	1.72 m	5 ft 8 in
12	L - Wheelbase	1.32 m	4 ft 4 in
13	M - Ground clearance (stowed)	60 mm	2.4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	230 kg	507 lb
2	Rated load of extended platform	100 kg	220 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	25/30 s	25/30 s
8	Min. turning radius (inside/outside)	0/1560 mm	0/61.5 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	356×114 mm	14×4.5 in
11	Weight	1520 kg	3351 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	3.3 kw	4.4 hp
3	Drive motor power	0.75 kW	1 hp
4	Battery	24 V/215 Ah	24 V/215 Ah
5	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC

Table 2-9

No.	Item	Model: LSC0607DE	
6	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
7	Charger input power supply maximum operating current	8.5 A	8.5 A
8	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
9	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	10 L	2.6 gal
4	Hydraulic system capacity (including hydraulic tank)	13 L	3.4 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-10

No.	Item	Model: LSC0808DE	
Size			
1	A - Working height (max.)	10 m	32 ft 10 in
2	B - Platform height (max.)	8 m	32 ft 3 in
3	C - Platform height (min.)	1.21 m	4 ft
4	D - Length with platform retracted	2.28 m	7 ft 6 in
5	E - Width (work platform)	0.81 m	2 ft 9 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	2.49 m	8 ft 2 in
8	H - Overall length (without Ladder)	2.29 m	7 ft 6 in
9	I - Overall width	0.83 m	2 ft 9 in
10	J - Overall height (stowed, rails up)	2.35 m	7 ft 9 in
11	K - Overall height (stowed, rails down)	1.8 m	5 ft 11 in
12	L - Wheelbase	1.88 m	6 ft 2 in
13	M - Ground clearance (stowed)	100 mm	4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	230 kg	507 lb
2	Rated load of extended platform	113 kg	249 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/400 N	400/400 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	38/42 s	38/50 s
8	Min. turning radius (inside/outside)	0/2200mm	0/86.6 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	2200 kg	4850 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	4.5 kw	6 hp
3	Drive motor power	1.5 kw	2 hp
4	Battery	24 V/225 Ah	24 V/225 Ah
5	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
6	Charger input power supply operating frequency	50~60 Hz	50~60 Hz

Table 2-10

No.	Item	Model: LSC0808DE	
7	Charger input power supply maximum operating current	8.5 A	8.5 A
8	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
9	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	20 L	5.2 gal
4	Hydraulic system capacity (including hydraulic tank)	23 L	6 gal
Operating conditions			
1	Max. working wind speed	12.5 m/s	28 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-11

No.	Item	Model: LSC0812DE	
Size			
1	A - Working height (max.)	10 m	32 ft 10 in
2	B - Platform height (max.)	8 m	32 ft 3 in
3	C - Platform height (min.)	1.21 m	4 ft
4	D - Length with platform retracted	2.28 m	7 ft 6 in
5	E - Width (work platform)	1.15 m	3 ft 9 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	2.49 m	8 ft 2 in
8	H - Overall length (without Ladder)	2.29 m	7 ft 6 in
9	I - Overall width	1.19 m	3 ft 11 in
10	J - Overall height (stowed, rails up)	2.35 m	7 ft 9 in
11	K - Overall height (stowed, rails down)	1.8 m	5 ft 11 in
12	L - Wheelbase	1.88 m	6 ft 2 in
13	M - Ground clearance (stowed)	100 mm	4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	450 kg	992 lb
2	Rated load of extended platform	120 kg	265 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/400 N	400/400 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	38/50 s	38/50 s
8	Min. turning radius (inside/outside)	0/2300mm	0/90.5 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	2620 kg	5776 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	4.5 kw	6 hp
3	Drive motor power	1.5 kw	2 hp
4	Battery	24 V/225 Ah	24 V/225 Ah
5	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC

Table 2-11

No.	Item	Model: LSC0812DE	
6	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
7	Charger input power supply maximum operating current	8.5 A	8.5 A
8	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
9	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	20 L	5.2 gal
4	Hydraulic system capacity (including hydraulic tank)	23 L	6 gal
Operating conditions			
1	Max. working wind speed	12.5 m/s	28 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-12

No.	Item	Model: LSC1012DE	
Size			
1	A - Working height (max.)	12 m	39 ft 4 in
2	B - Platform height (max.)	10 m	32 ft 10 in
3	C - Platform height (min.)	1.34 m	4 ft 5 in
4	D - Length with platform retracted	2.28 m	7 ft 6 in
5	E - Width (work platform)	1.15 m	3 ft 9 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	2.49 m	8 ft 2 in
8	H - Overall length (without Ladder)	2.29 m	7 ft 6 in
9	I - Overall width	1.19 m	3 ft 11 in
10	J - Overall height (stowed, rails up)	2.48 m	8 ft 2 in
11	K - Overall height (stowed, rails down)	1.92 m	6 ft 4 in
12	L - Wheelbase	1.88 m	6 ft 2 in
13	M - Ground clearance (stowed)	100 mm	4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	350 kg	772 lb
2	Rated load of extended platform	120 kg	265 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/200 N	400/200 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	55/58 s	55/58 s
8	Min. turning radius (inside/outside)	0/2300 mm	0/90.5 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	2960 kg	6526 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	4.5 kw	6 hp
3	Drive motor power	1.5 kw	2 hp
4	Battery	24 V/240 Ah	24 V/240 Ah
5	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC

Table 2-12

No.	Item	Model: LSC1012DE	
6	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
7	Charger input power supply maximum operating current	8.5 A	8.5 A
8	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
9	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	20 L	5.2 gal
4	Hydraulic system capacity (including hydraulic tank)	25 L	6.6 gal
Operating conditions			
1	Max. working wind speed	12.5 m/s	28 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-13

No.	Item	Model: LSC1212DE	
Size			
1	A - Working height (max.)	14 m	45 ft 11 in
2	B - Platform height (max.)	12 m	39 ft 4 in
3	C - Platform height (min.)	1.47 m	4 ft 10 in
4	D - Length with platform retracted	2.28 m	7 ft 6 in
5	E - Width (work platform)	1.15 m	3 ft 9 in
6	F - Length with platform extended	0.9 m	2 ft 11 in
7	G - Overall length (extension platform retracted)	2.49 m	8 ft 2 in
8	H - Overall length (without Ladder)	2.29 m	7 ft 6 in
9	I - Overall width	1.19 m	3 ft 11 in
10	J - Overall height (stowed, rails up)	2.6 m	8 ft 6 in
11	K - Overall height (stowed, rails down)	2.04 m	6 ft 8 in
12	L - Wheelbase	1.88 m	6 ft 2 in
13	M - Ground clearance (stowed)	100 mm	4 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	320 kg	705 lb
2	Rated load of extended platform	120 kg	265 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	55/58 s	55/58 s
8	Min. turning radius (inside/outside)	0/2300 mm	0/90.5 in
9	Total vibration value of the hand/arm	$\leq 2.5 \text{ m/s}^2$	$\leq 2.5 \text{ m/s}^2$
10	Tire size	381×127 mm	15×5 in
11	Weight	3150 kg	6945 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	4.5 kw	6 hp
3	Drive motor power	1.5 kw	2 hp
4	Battery	24 V/300 Ah	24 V/300 Ah
5	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC

Table 2-13

No.	Item	Model: LSC1212DE	
6	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
7	Charger input power supply maximum operating current	8.5 A	8.5 A
8	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
9	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	20 L	5.2 gal
4	Hydraulic system capacity (including hydraulic tank)	25 L	6.6 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-14

No.	Item	Model: LSC1414DE	
Size			
1	A - Working height (max.)-indoor	16 m	52 ft
	A - Working height (max.)-outdoor	8 m	26 ft
2	B - Platform height (max.)-indoor	14 m	46 ft
	B - Platform height (max.)-outdoor	6 m	20 ft
3	C - Platform height (min.)	1.66 m	5 ft
4	D - Length with platform retracted	2.88 m	113.4 in
5	E - Width (work platform)	1.34 m	52.8 in
6	F - Length with platform extended	1.35 m	53.1 in
7	G - Overall length (extension platform retracted)	3.14 m	124 in
8	H - Overall length (without Ladder)	2.9 m	114.2 in
9	I - Overall width	1.4 m	55 in
10	J - Overall height (stowed, rails up)	2.74 m	107.9 in
11	K - Overall height (stowed, rails down)	1.97 m	77.6 in
12	L - Wheelbase	2.46 m	97 in
13	M - Ground clearance (stowed)	150 mm	5.9 in
14	N - Ground clearance (raised)	20 mm	0.8 in
Performance			
1	Rated load	350 kg	772 lb
2	Rated load of extended platform	136 kg	300 lb
3	Number of people (max.)	3	3
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	90/60 s	90/60 s
8	Min. turning radius (inside/outside)	300/3120 mm	1/123 in
9	Total vibration value of the hand/arm	≤ 2.5 m/s ²	≤ 2.5 m/s ²
10	Tire size	381×127 mm	15×5 in
11	Weight	3720 kg	8203 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	3.4 kw	4.5 hp
3	Drive motor power	0.87 kw	1.15 hp

Table 2-14

No.	Item	Model: LSC1414DE	
4	Battery	24 V/300 Ah	24 V/300 Ah
5	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC
6	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
7	Charger input power supply maximum operating current	8.5 A	8.5 A
8	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
9	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	23 L	5.98 gal
4	Hydraulic system capacity (including hydraulic tank)	33 L	8.58 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5 °/3 °	1.5 °/3 °
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-15

No.	Item	Model: LSC0407DEM	
Size			
1	A - Working height (max.)	5.6 m	18 ft
2	B - Platform height (max.)	3.6 m	12 ft
3	C - Platform height (min.)	0.875 m	3 ft
4	D - Length with platform retracted	1.3 m	51.2 in
5	E - Width (work platform)	0.72 m	28.3 in
6	F - Length with platform extended	0.6 m	23.6 in
7	G - Overall length (extension platform retracted)	1.47 m	58 in
8	H - Overall length (without Ladder)	1.31 m	51.6 in
9	I - Overall width	0.76 m	30 in
10	J - Overall height (stowed, rails up)	1.99 m	78.3 in
11	K - Overall height (stowed, rails down)	1.57 m	61.8 in
12	L - Wheelbase	1.07 m	42 in
13	M - Ground clearance (stowed)	60 mm	2.4 in
14	N - Ground clearance (raised)	16 mm	0.6 in
Performance			
1	Rated load	240 kg	529 lb
2	Rated load of extended platform	110 kg	243 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	23/21 s	23/21 s
8	Min. turning radius (inside/outside)	0/1500 mm	0/59 in
9	Total vibration value of the hand/arm	$\leq 2.5 \text{ m/s}^2$	$\leq 2.5 \text{ m/s}^2$
10	Tire size	230×80 mm	9.1×3.1 in
11	Weight	880 kg	1940 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	0.4 kw	0.54 hp
3	Battery	24 V/95Ah	24 V/95 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC

Table 2-15

No.	Item	Model: LSC0407DEM	
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	10 L	2.6 gal
4	Hydraulic system capacity (including hydraulic tank)	13 L	3.4 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5°/3°	1.5°/3°
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-16

No.	Item	Model: LSC0507DEM	
Size			
1	A - Working height (max.)	6.5 m	21 ft
2	B - Platform height (max.)	4.5 m	15 ft
3	C - Platform height (min.)	0.94 m	3 ft
4	D - Length with platform retracted	1.3 m	51.2 in
5	E - Width (work platform)	0.72 m	28.3 in
6	F - Length with platform extended	0.6 m	23.6 in
7	G - Overall length (extension platform retracted)	1.47 m	58 in
8	H - Overall length (without Ladder)	1.32 m	51.6 in
9	I - Overall width	0.76 m	30 in
10	J - Overall height (stowed, rails up)	2 m	78.3 in
11	K - Overall height (stowed, rails down)	1.64 m	64.6 in
12	L - Wheelbase	1.07 m	42 in
13	M - Ground clearance (stowed)	60 mm	2.4 in
14	N - Ground clearance (raised)	16 mm	0.6 in
Performance			
1	Rated load	240 kg	529 lb
2	Rated load of extended platform	110 kg	243 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	23/21 s	23/21 s
8	Min. turning radius (inside/outside)	0/1500 mm	0/59 in
9	Total vibration value of the hand/arm	$\leq 2.5 \text{ m/s}^2$	$\leq 2.5 \text{ m/s}^2$
10	Tire size	230×80 mm	9.1×3.1 in
11	Weight	895 kg	1973 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	0.4 kw	0.54 hp
3	Battery	24 V/95Ah	24 V/95 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC

Table 2-16

No.	Item	Model: LSC0507DEM	
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	10 L	2.6 gal
4	Hydraulic system capacity (including hydraulic tank)	13 L	3.4 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5°/3°	1.5°/3°
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Table 2-17

No.	Item	Model: LSC0608DEM	
Size			
1	A - Working height (max.)	7.6 m	25 ft
2	B - Platform height (max.)	5.6 m	18 ft
3	C - Platform height (min.)	1.1 m	3.6 ft
4	D - Length with platform retracted	1.36 m	53.5 in
5	E - Width (work platform)	0.72 m	28.3 in
6	F - Length with platform extended	0.6 m	23.6 in
7	G - Overall length (extension platform retracted)	1.53 m	60 in
8	H - Overall length (without Ladder)	1.37 m	53.9 in
9	I - Overall width	0.81 m	32 in
10	J - Overall height (stowed, rails up)	2.2 m	86.6 in
11	K - Overall height (stowed, rails down)	1.79 m	70.5 in
12	L - Wheelbase	1.13 m	44 in
13	M - Ground clearance (stowed)	60 mm	2.4 in
14	N - Ground clearance (raised)	16 mm	0.6 in
Performance			
1	Rated load	230 kg	507 lb
2	Rated load of extended platform	113 kg	249 lb
3	Number of people (max.)	2	2
4	Max. operating force (indoor/outdoor)	400/0 N	400/0 N
5	Max. travel speed (stowed)	4 km/h	2.5 mph
6	Max. travel speed (raised)	0.7 km/h	0.4 mph
7	Raising/lowering time	23/25 s	23/25 s
8	Min. turning radius (inside/outside)	0/1500 mm	0/59 in
9	Total vibration value of the hand/arm	$\leq 2.5 \text{ m/s}^2$	$\leq 2.5 \text{ m/s}^2$
10	Tire size	230×80 mm	9.1×3.1 in
11	Weight	1320 kg	2910 lb
Electrical system			
1	System voltage	24 V DC	24 V DC
2	Motor power	0.4 kw	0.54 hp
3	Battery	24 V/95Ah	24 V/95 Ah
4	Charger input supply voltage	100 V~240 V AC	100 V~240 V AC

Table 2-17

No.	Item	Model: LSC0608DEM	
5	Charger input power supply operating frequency	50~60 Hz	50~60 Hz
6	Charger input power supply maximum operating current	8.5 A	8.5 A
7	Charger output current/voltage	15 A/24 V DC	15 A/24 V DC
8	Charger protection rating	IP 67	IP 67
Hydraulic system			
1	Grade of hydraulic oil added at the factory	L-HV46 (GB 11118.1-1994)	L-HV46 (GB 11118.1-1994)
2	The hydraulic oil solid particle pollution level added to the system is not greater than	-17/13 (GB/T 20082-2006)	-17/13 (GB/T 20082-2006)
3	Hydraulic tank capacity	5 L	1.3 gal
4	Hydraulic system capacity (including hydraulic tank)	6 L	1.6 gal
Operating conditions			
1	Max. working wind speed	0 m/s	0 mph
2	Max. allowable tilt angle when working (transverse/longitudinal)	1.5°/3°	1.5°/3°
3	Gradeability (max.)	25 %	25 %
4	Ambient temperature	-20 °C ~ 40 °C	-20 °C ~ 40 °C
5	Altitude	1000 m	3280 ft
6	Relative humidity	90% (20 °C)	90% (20 °C)
7	Ground operating noise	< 70 dB(A)	< 70 dB(A)

Operating Procedures

Pre-operation Checks

Basic Principles of Checks

It is the operator's duty to perform a pre-operation check and routine maintenance.

A pre-operation check is a visual inspection performed by the operator before each shift change. The purpose of the check is to find out whether there are obvious problems in the machine before the operator performs the function test.

Pre-operation checks can also be used to determine whether routine maintenance procedures are required. Operators must only perform routine maintenance items specified in this manual.

If any unauthorized changes are found such as damage to the machine or a difference from the ex-factory condition, the machine should be marked and put out of use.

According to the manufacturer's regulations, only qualified maintenance technicians may repair the machine. After repair, the operator must perform a pre-operation check again before proceeding with the functional testing.

According to the requirements listed in the manufacturer's regulations and responsibility manual, regular maintenance inspections shall be carried out by qualified maintenance technicians.

Items to Be Checked

1. Make sure that the operating manual, safety manual, and responsibility manual are intact, easy to read, and stored in a storage box in the platform.
2. Make sure all labels are legible and positioned properly.

3. Check whether the hydraulic oil is leaking and whether the oil level is appropriate. Please refuel as needed.
4. Check whether the battery electrolyte is leaking and whether the level is appropriate. Please add distilled water as needed.

Check the following parts or areas for damage, improper installation, or missing parts and unauthorized changes:

1. Electrical components, wiring, and cables
2. Grounding wire
3. Limit switch, alarm, and horn
4. Alarms and indicators
5. Hydraulic hoses, fittings, hydraulic cylinders, and hydraulic valve blocks
6. Drive motor / motor
7. Wear-resistant slider
8. Tires and wheels
9. Nuts, bolts, and other fasteners
10. Brake release parts
11. Access to the safety arm
12. Extended platform
13. Scissor arm pins and fasteners
14. Platform joystick
15. Battery pack and its connection
16. Platform entry
17. Pothole protection device
18. Seat belt fixing point

Check the whole machine for any of the following:

1. cracks in welds or structural parts
2. dents or damage of the machine
3. serious rust, corrosion, or oxidation

4. Ensure that all structural and other critical components are complete and all associated fasteners and pins are in the correct position and fully tightened.
5. Check that the guardrail has been installed, the guardrail lock pin is installed in place, and the bolts are tightened.
6. Make sure that the left and right sides of the chassis are closed and locked, and the battery is connected correctly.

Workplace Checks

Basic Principles of Checks

Workplace checks help operators determine whether the workplace can ensure safe operation of machines. Operators should first perform these checks before moving the machine to the workplace.

It is the operator's duty to understand and remember dangerous items in the workplace and then to take care of and avoid these problems when moving, installing, and operating machines.

Items to be Checked

Be careful and avoid the following dangerous situations:

1. Steep slope or cave
2. Protrusions, ground obstacles, or debris
3. Inclined surface
4. Unstable or smooth surface
5. Air obstacles and high voltage wires
6. Hazardous places
7. Surface support that is insufficient to withstand the full load applied by the machine
8. Wind and weather conditions
9. Unauthorized personnel
10. Other possible unsafe conditions

Function Test

Basic Principle of Functional Testing

The functional test is used to check the machine for faults before starting use. The operator should test all functions of the machine as described below. Do not use a faulty machine. If a fault is found, the machine should be stopped and marked.

1. Choose a test area that is solid, flat, and free of obstacles.
2. The electricity master switch is on.

Operating on the Ground

1. Pull out the red "emergency stop" button of the ground control panel and platform control panel.
2. Turn the key switch to the ground controls.
3. Observe the display panel on the platform controller. If there is no fault code, you can perform further operations.

Emergency Stop Test

1. Press the red button on the ground control panel to the off position and all powered functions should not operate.
2. Pull out the red emergency stop button to the on position.

Raising and Lowering Function Test

1. Turn the key switch to the ground control position.
2. Press the platform up or platform down button. Result: The lift function should not operate.
3. Press the lift function enable button. Result: The lift function should not operate.
4. Press and hold the lift function enable button, and press the platform up button. Result: The platform should raise.

5. Press and hold the lift function enable button, and press the platform down button. Result: The platform should lower. The descent alarm should sound while the platform is lowering. The platform stops descending when it is lowered to about 2 m (6.6 ft).
6. Press and hold the lift function enable button, and press the platform down button again. The platform should be lowered until it is fully retracted. The alarm should sound during the descent.

Emergency Lowering Test

1. Pull up the platform lift switch to raise the platform by about 600 mm (23.6 in).
2. Pull out the emergency descent lever, and the platform should be lowered.

Operating on the Platform

Emergency Stop Test

1. Press the red button on the ground control panel to the off position, and all powered functions should not operate.
2. Pull out the red emergency stop button to the on position.

Speaker Test

Press the "horn" button and the horn should sound to alert the people around the platform to watch out for their safety. When released, the horn should stop sounding.

Left and Right Steering Test

1. Select the travel mode, and the indicator light should remain on all the time.
2. Press and hold the enable switch on the joystick.

Press the left switch on the top of the joystick with your thumb at the same time, and the vehicle should turn left.

Press the right switch on the top of the joystick with your thumb at the same time, and the vehicle should turn right.

Brake Function Test

1. Select the travel mode, and the indicator light should remain on all the time.
2. Press and hold the enable switch on the handle,
3. and slowly push the joystick forward until the vehicle begins to advance. The more off center the joystick is, the faster the travel speed.
4. Release the joystick and the machine should stop.
5. The braking distance should meet the requirements.

Lift State Travel Speed Test

1. Select the lift mode, and the indicator light should remain on all the time.
2. Press and hold the enable switch on the joystick and raise the platform to a distance from the ground.
3. Switch to travel mode, and push the joystick to the maximum position for traveling.
4. Test requirements: The travel speed when the platform is in the lift state shall not exceed 0.7 km/h (0.4 mph).

Tilt Switch Test

1. Fully retract the platform.
2. Place a 30x100 mm (1.2x3.9 in) or similar piece of wood under each of the two wheels on one side of the machine and drive the machine onto the blocks. Raise the platform above the trigger point of the lower limit switch.

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3. Test requirements: The platform should stop rising. The tilt alarm should sound and the light should flash. The platform controller code panel should display LL, indicating that the machine is tilted, and all other actions are disabled except for the lowering function.

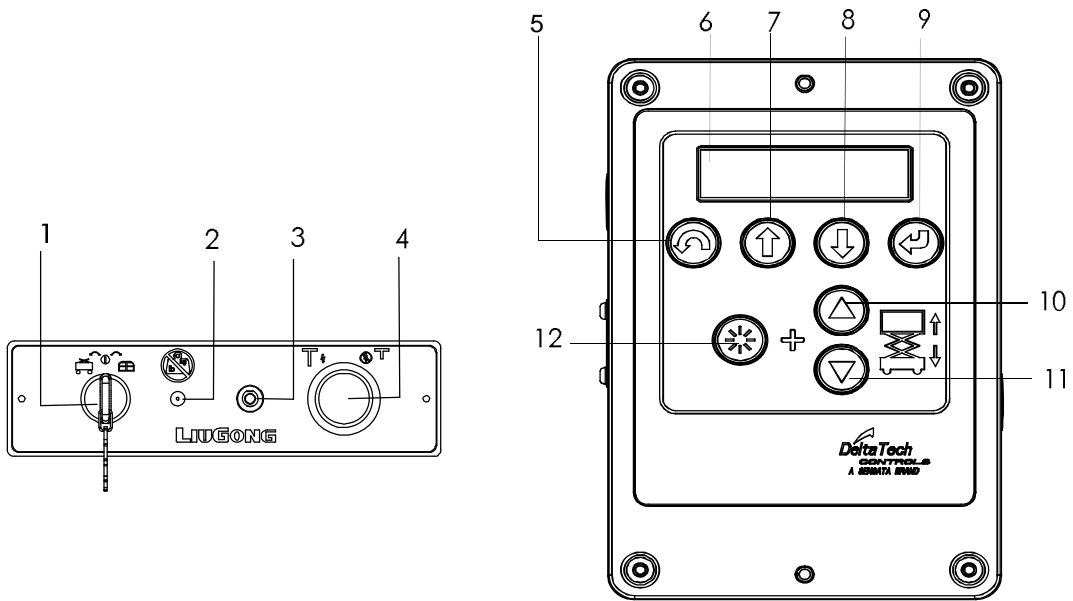
Pothole Protection Device Test

1. Raise the platform and the pothole protection device should be deployed when the platform is raised 1.3 m (4.3 ft) above the ground.
2. First press and hold one side of the pit protection device, then press the other side, and the pothole protection device should not move.
3. Lower the platform and the pothole protection device should return to the stowed position.
4. Place a piece of 30x50x100 mm (1.2x2x3.9 in) or similar piece of wood under the pothole protection device.
5. Raise the platform and the audible and visual alarms will go off before the platform rises 2.3 m (7.5 ft) from the ground to indicate that the pothole protection device is faulty.
6. Test requirements: The machine should stop lifting and traveling at this time.

Operation Panel Description

Ground Operation Panel

Fig. 3-1 Ground operation panel



- | | | | |
|-------------------|--------------------------|--------------------------|-------------------|
| 1. Key switch | 2. Platform overload | 3. Fuse | 4. Emergency stop |
| 5. Return button | 6. Display window | 7. Up button | 8. Down button |
| 9. Confirm button | 10. Platform lift button | 11. Platform down button | 12. Enable switch |

Self-reset Safeguard

When the electronic control system is short-circuited, the safety button will automatically pop up, cutting off the power supply of the control circuit. Do not press the reset button before troubleshooting.

Overload Indicator (Red)

When the platform load exceeds the maximum allowable value, the indicator light is always on.

Ground/Platform Control Mode Selection

There are three positions to choose from. When the selection switch is placed in the left position, ground operation is effective; when the switch is placed in the right position, platform operation is effective; when the switch is placed in the middle position, ground operation and platform operation are disabled, and the key can be removed.

Emergency Stop Button

When the emergency stop button is pressed, all actions are stopped. Do not pull out this button before troubleshooting is complete.

Platform Raising

At the same time, press 12. Enable switch and 10. Platform lift button, and the platform should rise.

Platform Lowering

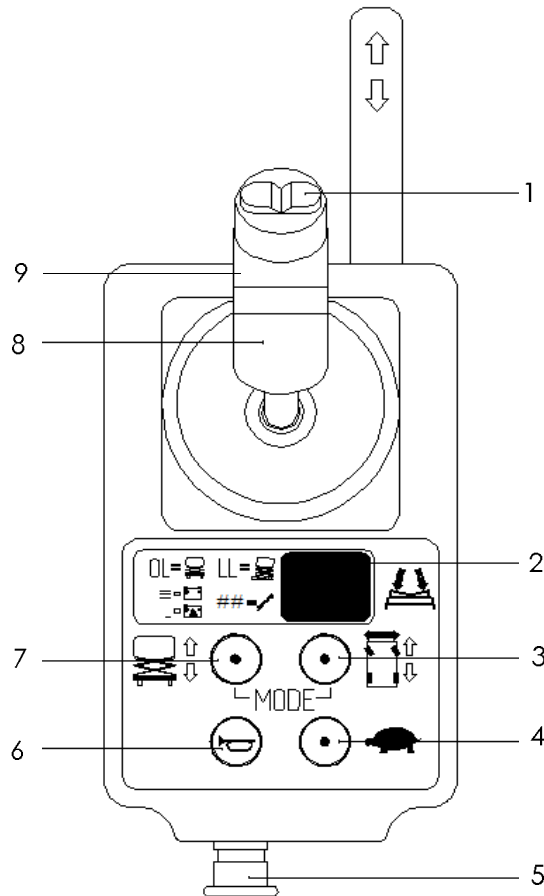
At the same time, press 12. Enable switch and 11. Platform down button, and the platform should descend.

Display Panel

Used to display information such as work hours, parameter settings, and more.

Platform Operation Panel

Fig.3-2 PCU Platform Operation Panel



- | | | |
|--|--------------------------------|---------------------------|
| 1. Left and right steering switch | 2. Display window | 3. Travel function button |
| 4. High and low speed switching button | 5. Emergency stop button | 6. Horn button |
| 7. Lift and down function button | 8. Proportional control handle | 9. Enable switch |

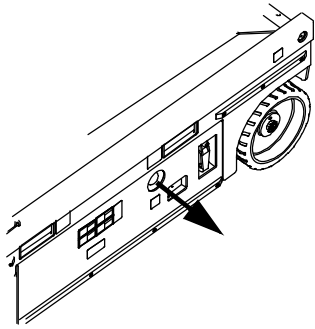
Method of Operation

When the operator enters the platform, he/she should wear safety shoes, safety belts, and helmets.

Preparatory Operation

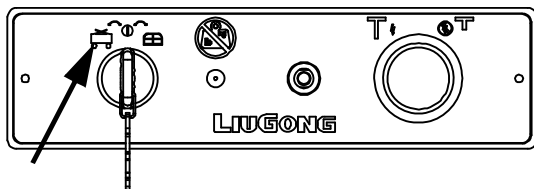
1. Before operating the machine, as shown in the following figure, first pull out the red power supply main switch on the left side of the vehicle and turn on the whole power supply.

Fig.3-3



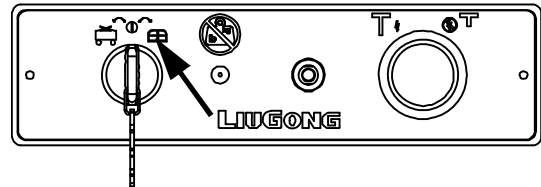
2. Turn the key switch to "Chassis" before operating on the ground.

Fig.3-4



3. Turn the key switch to "Platform" before operating on the platform.

Fig.3-5



4. Pull the red "Emergency shutdown" buttons on the ground control panel and the platform control panel to the on position. The control system starts self-checking and completes self-checking in about 3 s. If no fault code is displayed, normal operation can be carried out.

Fig.3-6

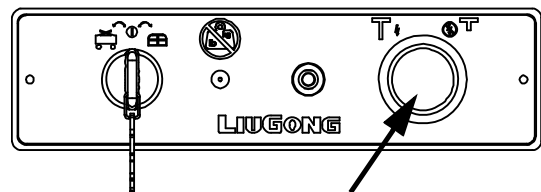
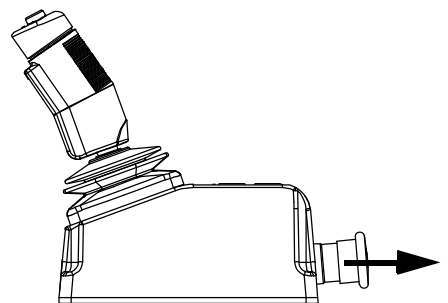


Fig.3-7

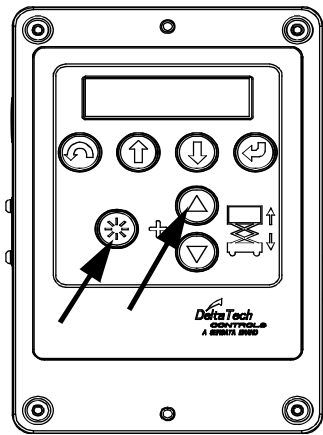


Operating on the Ground

Platform Raising

Press and hold the enable button and the lift button as shown in the figure below. The platform starts rising. At the same time, the buzzer sounds. Hold the buttons during the lifting process. The platform stops rising when the buttons are released.

Fig.3-8 Platform raising

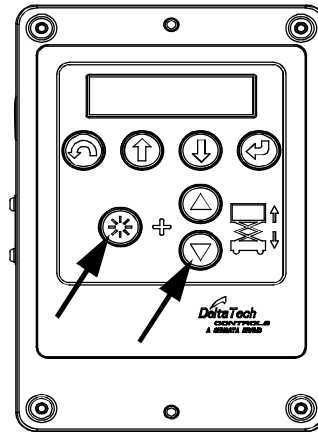


Platform Lowering

At the same time, press and hold the enable button and the down button, the platform is lowered, while the buzzer sounds. Hold the buttons during the descent. The platform stops descending when the buttons are released.

When the platform bottom is lowered to about 2.5 m (8.2 ft) from the ground, the descent stops automatically. The platform should only be lowered again after 3s, at which time the buzzer will sound at a higher frequency.

Fig.3-9 Platform lowering

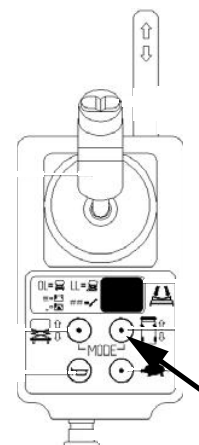


Operating on the Platform

Advancing or Reversing the Vehicle

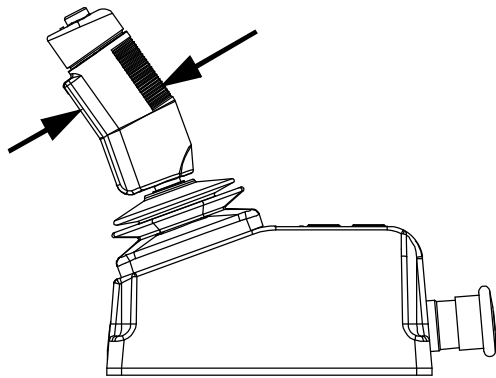
1. Press the "Travel" function button, and the indicator light in the middle of the "Travel" function button is always on, while the indicator light in the middle of the "Platform lift" function button is off.

Fig.3-10



2. Operate the joystick while holding the enable switch at the front of the control joystick.
3. Slowly push the joystick forward until the vehicle begins to advance. The more off center the joystick is, the faster the vehicle travels.

Fig.3-11



4. Slowly pull the joystick back until the vehicle begins to reverse. The more off center the joystick is, the faster the vehicle reverses.

Fig.3-12

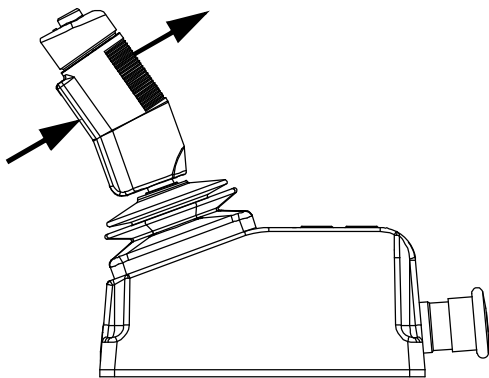
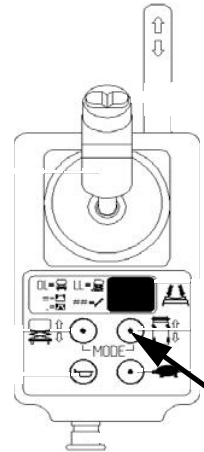
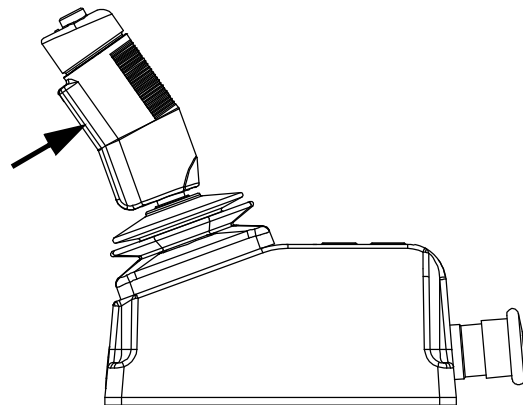


Fig.3-13



2. When you press and hold the enable switch on the front of the control joystick while pressing the left button, the vehicle turns to the left.

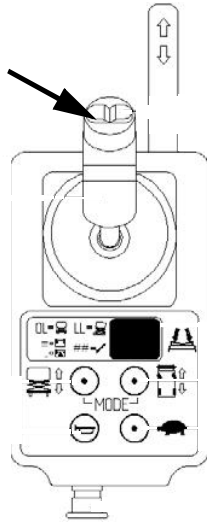
Fig.3-14



Turning the Vehicle Left/Right

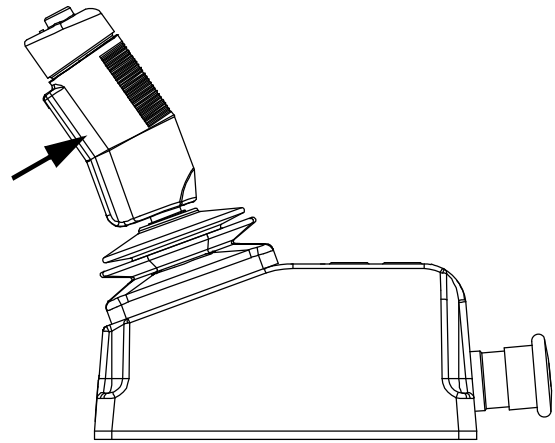
1. Press the "Travel" function button, and the indicator light in the middle of the "Travel" function button is always on, while the indicator light in the middle of the "Platform lift" function button is off.

Fig.3-15



3. When you press and hold the enable switch on the front of the control joystick while pressing the right button, the vehicle turns to the right.

Fig.3-17

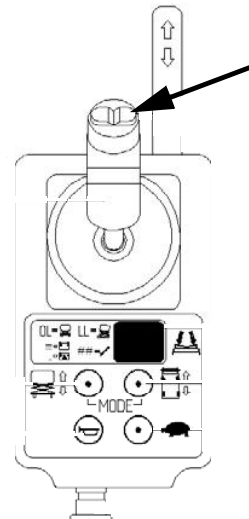
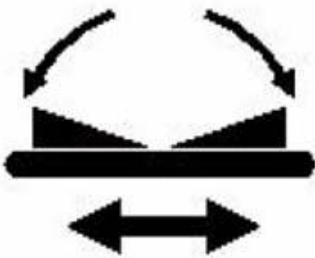


NOTICE

Steering operations on slopes are strictly prohibited.

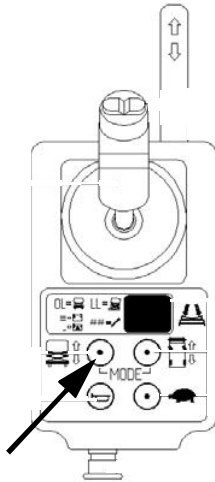
Fig.3-18

Fig.3-16



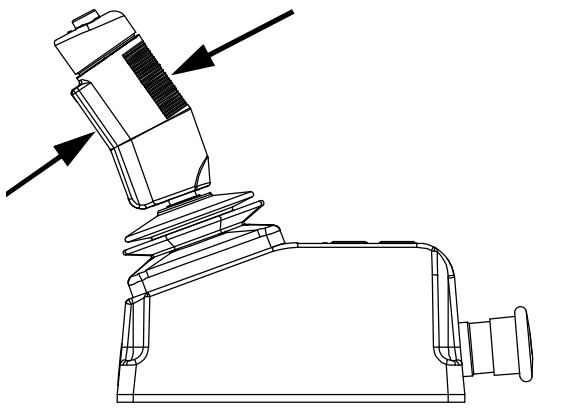
Platform Raising/Lowering

1. Press the "Platform lift" function button, and the indicator light in the middle of the "Platform lift" function button is always on, while the indicator light in the middle of the "Travel" function button is off.



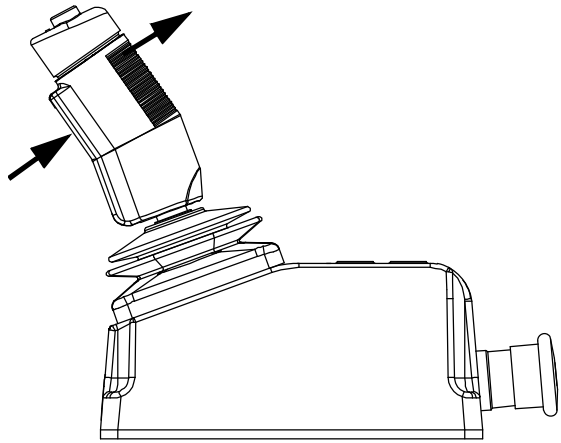
2. While holding down the enable switch on the front of the control joystick, slowly push the joystick forward until the platform begins to rise. The more off center the joystick is, the faster the platform is raised.

Fig.3-20



3. While holding down the enable switch on the front of the control joystick, slowly pull the joystick backward until the platform begins to descend. The more off center the joystick is, the faster the platform is lowered.

Fig.3-21

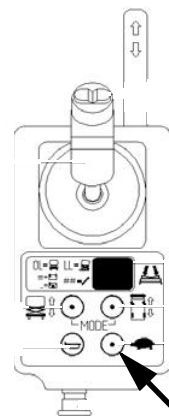


High Speed / Low Speed Switching

When the platform is fully retracted, there are two modes of operation: high speed and low speed.

Press the "Turtle Speed" button switch, and the indicator light in the middle of the "Turtle Speed" button is always on, while the vehicle enters the low speed working mode.

Fig.3-22



Press the "Turtle Speed" button switch again, and the indicator light in the middle of the "Turtle Speed" button goes out and the vehicle switches to the high speed working mode.

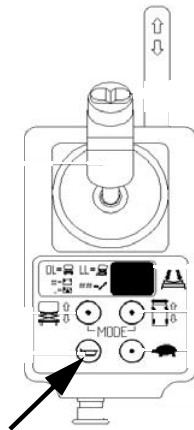
⚠ CAUTION

After the platform is lifted, the indicator light in the middle of the "Turtle Speed" button is always on, and the vehicle automatically switches to the low speed working mode.

Horn Operation

Press the "horn" button and the horn should sound to remind the personnel around the platform to watch out for their safety. When the button is released, the horn will stop sounding.

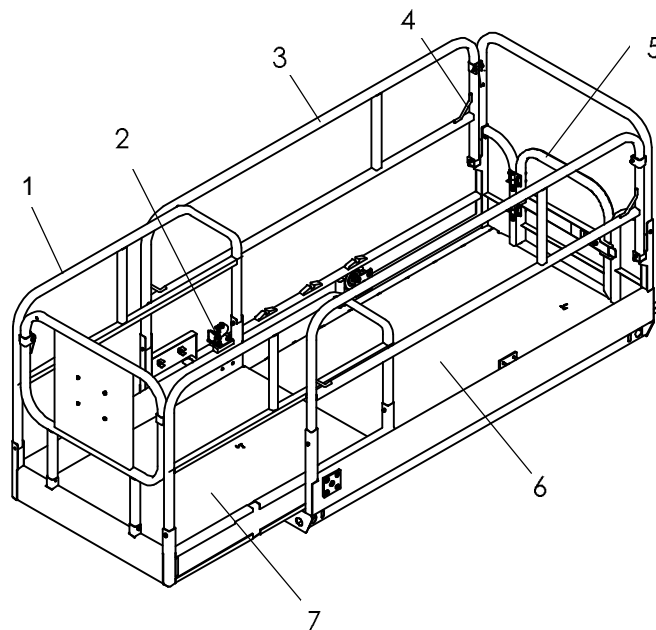
Fig.3-23



Work Platform Operation

Platform Component Description

Fig.3-24



- | | | |
|---------------------------------|----------------------------------|----------------------------|
| 1. Extension platform guardrail | 2. Extension platform lock pedal | 3. Main platform guardrail |
| 4. Seat belts and hang points | 5. Platform entry and exit | 6. Main platform |
| 7. Extension platform | 8. Main platform | 9. Extension platform |

Platform Extension and Retraction

1. Hold the guardrails on both sides of the extension platform at the arrows shown with both your hands.
2. Step down with your right foot on the extension platform lock pin pedal to release the lock pin.
3. Push both your hands forward and extend the platform by sliding it forward;
4. After reaching the desired position, raise your right foot to ensure that the extension platform is locked in both directions.
5. Follow the platform extension instructions and operate in reverse order to ensure that the extension platform is locked in both directions.

Folding and Unfolding the Guardrail

The guardrails of the main platform and the extension platform are foldable structures, and are fixed in proper positions by steel wire locks.

Guardrail folding

1. Fully retract the extension platform and collapse the jib.
2. Remove the platform controller.
3. Remove the two front steel wire locks extending the front end from the inside of the platform.
4. Fold the front guardrail components. Do not put your hands where they might be clasped.
5. Remove the lock pins on the left and right sides of the extension platform and install them back on the guardrails on each side.
6. Fold the guardrail components on each side. Do not put your hands where they might be clasped.
7. At the rear of the main platform, remove the lock pins of the left guardrail and the right guardrail of the main platform respectively.
8. Open the door carefully and move to the ground.
9. Fold the left guardrail, right guardrail, and access door. Do not put your hands where they might be clasped.
10. Install the pins back on each side of the guardrail.
11. Guardrail unfolding
12. Following the folding instructions in reverse order to ensure the reliable installation of the guardrail locking pins.

Use of the Service Scaffold

1. Lift the platform to approximately 2.4 m (7.8 ft) from the ground.

2. Rotate the service scaffold up to the vertical position.
3. Lower the platform height until the service scaffold is in full contact with the fork arm shaft bushing. When lowering the platform, keep away from moving parts.

There must be no load on the platform when using the service scaffold support.

Emergency Operation

Emergency Stop

The upper and lower consoles of the machine are equipped with red emergency stop buttons. In case of emergency, press any emergency stop button, and all the actions of the machine will be stopped immediately.

Fig.3-25 Ground control panel

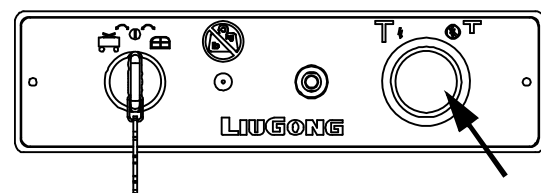
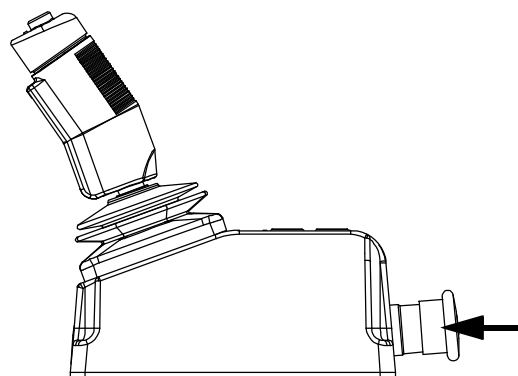


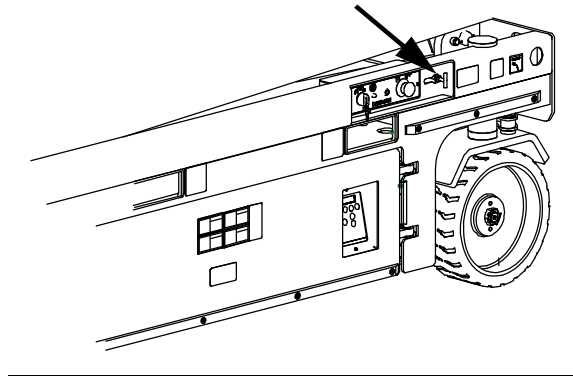
Fig.3-26 Platform control panel



Manual Lowering

Lift state: When the hydraulic system or the electronic control system fails, pull the red lever to lower the platform until the fork arms are completely retracted.

Fig.3-27



Battery Charging

Only chargers and charging programs included with the equipment are allowed. Otherwise, it may cause bodily injury or damage to the person attempting to charge the battery.

During charging, lead-acid batteries may produce explosive hydrogen gas. As such, charge the battery away from sparks, flames, or flammable and explosive objects.

During the charging process, keep the environment ventilated with air circulation. Do not charge frozen batteries.

Read all specific precautions of the battery manufacturers, such as charging speed and battery units that can or cannot be charged separately.

1. The extension platform should be fully retracted and locked securely before charging, and the lift arms should be completely retracted.
2. The battery should be recharged in a well-ventilated location that is free of flames, sparks, or other conditions that could cause fire or explosion hazards.
3. Pull out the charging cable, connect 220 ACV power, and the charger will enter the charging mode.
4. The charger's input voltage range is 100 ~ 240 ACV, and the maximum input current is 8.5 A.
5. After charging is complete, the general charging time
6. Charging status indication

WARNING

Use the charger only with an algorithm selected that is appropriate to the specific battery type. Other usage may cause personal injury and damage. Lead-acid batteries may generate explosive hydrogen gas during normal operation. Keep sparks, flames, and smoking materials away from batteries. Provide adequate ventilation during charging. Never charge a frozen battery. Study all specific precautions of battery manufacturers, such as maximum charge rates and if cell caps should be removed while charging.

⚠ DANGER

To avoid the risk of electric shock, the socket connecting the input line of the charger must be grounded according to local safety regulations. A well grounded socket can reduce the risk of electric shock. Adapters or modified plugs must not be connected. Do not touch the non-insulated part of the charger output terminal and the non-insulated part of the battery terminal with your hands. When charging

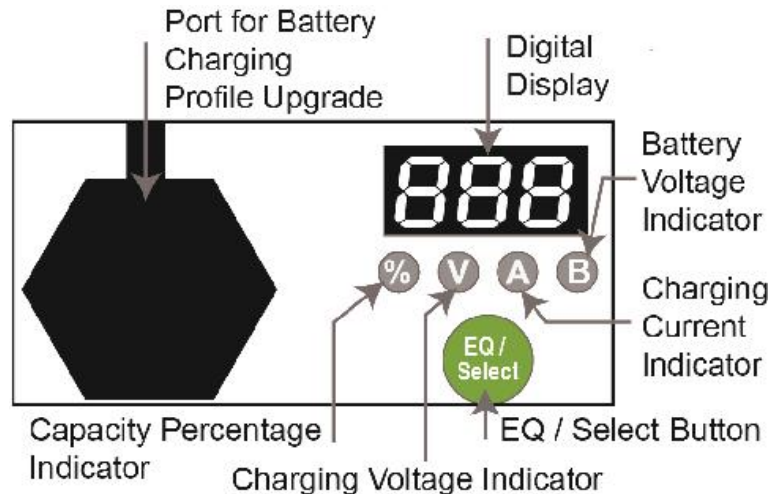
When the equipment is charging, the AC line must be disconnected to terminate the battery connection.

Do not open or disassemble the charger. The charger should not be used if AC line is damaged or if the charger is subject to impact, falls to the ground, or in is damaged in other ways. Relevant repairs should be carried out by persons with relevant qualifications.

Persons with mental disabilities or lack of experience and safety knowledge should not use the machine unless it is safely used under the supervision and guidance of qualified personnel. Children should not be allowed to use chargers.

LED Indicator & Digital Display

Fig.3-28 LED indicator & digital display



The charger will enter the charging mode when connected to the battery and AC input cable. The digital display on the front panel will show in turn: AC

XXX (current AC input voltage), CPU X.XX (corresponding software version number), b**(current charging profile code)

To change the charging profile, press and hold the Select button for 5 seconds, then press the Select button to choose the desired profile. Once selected, press and hold the Select button for 5 seconds, and the charging profile selection will be completed. To start EQ mode, press and hold the Select button for 10 seconds, and the display will show EQ mode. The next charging cycle will go into EQ mode. If you want to quit the EQ mode, hold the Select button for 10 seconds. When the display shows OFF, the charger will quit the EQ mode.

Common Mode(Default) & BMS Mode

1. The charger enters BMS mode when connected to a lithium-ion battery through Can Bus.
2. For safety reason, the charger will flash "bnS" if it is being reconnected to a lead-acid battery while in BMS mode;
3. The charger will only charge a lead-acid type battery again if we refresh the charger through the USB port with the desired lead-acid battery charging profile via a USB drive.

Charging Status Indicator and Digital Display

1. %: capacity percentage indicator: The display shows the charging percentage. E.g., 10 20 30...100 (%).
2. V: charging voltage indicator: The display shows the charging voltage. E.g., 24.0 (V).
3. A: charging current indicator: The display shows the charging current. E.g., 36.0 (A).

Additional Battery Voltmeter Function

B: battery voltage indicator: To check the battery voltage, disconnect the charger AC input and press the "Select" button for 1 s. The display shows the battery voltage. E.g., 24.0 (V).

Instructions for Cable Connection

NOTICE

The NO.4 and 6: NO The interlock cables will form an open circuit with no voltage. The NO.5 and 6: NC The interlock cable will form a short circuit with no voltage.

⚠ WARNING

Ensure that the battery connection cable is well connected with the charger before it is connected to the battery. Otherwise, a battery short circuit may occur and cause personal injury or damage to the battery.

Fault Indicator

Table 3-1

Blinking Frequency	Fault Cause	Solution
E01 bAt	The battery is not connected or the battery voltage is too low	1. Check that the battery connection is correct. 2. Check that the charger connection is correct. 3. Check that each battery is good.
E02 AC	Abnormal AC power input (voltage)	1. Check that the AC input cord is connected between the charger and AC outlet. 2. Make sure that the AC plug is tightly inserted into the AC outlet.
E03 Hot	Charger high temperature protection	1. The charger shuts down and enters protection mode as the charger/environmental temperature is too high. Please place the charger in a well-ventilated environment. 2. Disconnect the charger and wait for 15-20 mins before reconnecting for charging.
E04 bAt	Battery high temperature protection	1. The charger will reduce the current and even stop charging to prevent the battery from overheating when the battery temperature exceeds the preset value. 2. When the battery temperature drops, the charger will restart automatically.
E05 Err	Output current is too large	Return to the factory for repairing.
E06 bAt	Battery voltage is too high	Check and ensure that the correct output battery voltage is connected.

Product Specifications

Table 3-2

DC Output	Voltage-nom (V)	24 V (GPSC3024)	24 V (GPSC3624)	36 V (GPSC2036)	48 V (GPSC1548)
	Voltage-max. (V)	34 V	34 V	51 V	68 V
	Current-max. (A)	30 A	36 A	20 A	15 A
	Applicable to Battery	AGM, WET, GEL, Lithium			
	Reverse Polarity	Electronic protection-auto-reset			
	Short Circuit	Electronic protection-auto-reset			
AC Input	Voltage-Range (V)	100-240 V	/	/	/
	Frequency (Hz)	50-60 Hz	/	/	/
	Current-max. (A)	8.5 A	10 A	8.5 A	8.5 A
	Full Load AC Power Factor	> 0.98			
Dimensions		20.7*18.0*16.0 cm			
Weight		4.6 kg	4.8 kg	4.6 kg	4.6 kg
Operating Temperature		-40 °C ~ +65 °C			
Storage Temperature		-40 °C ~+70 °C			

Maintenance Instructions

1. Do not expose the charger to oil, dirt, mud, or direct heavy water spray when cleaning the vehicle.
2. The enclosure of the charge has been tested successfully to IEC 60529, meeting IP66.
3. If the detachable input power supply cord set is damaged, replace with a cord that meets the following requirements: safety approved detachable cord, 3 conductors, 1.5 mm² minimum, and rated appropriate for use in the country of destination. On the other end, use an output grounding type IEC 60320 C14 plug.

Hoisting and Transportation

Total Mass and Center of Gravity

Fig.4-1 Center of gravity

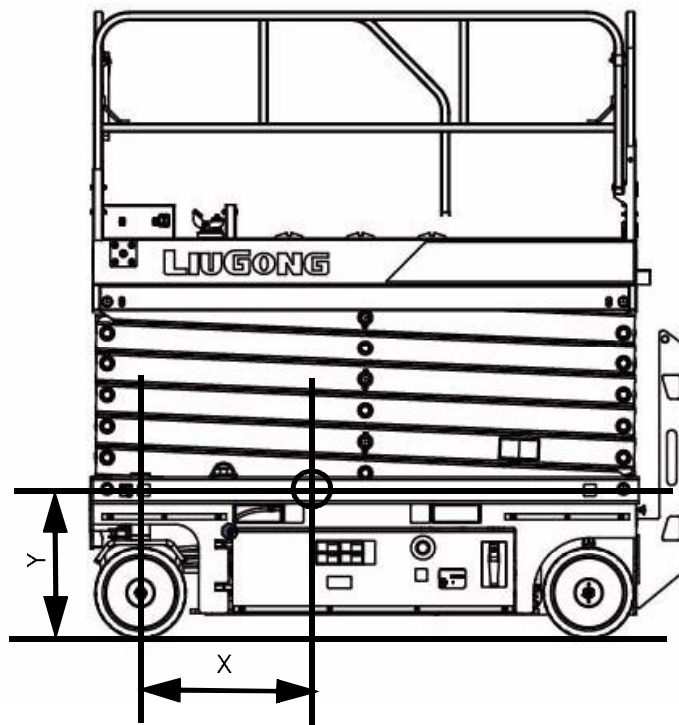


Table 4-1

Model	Mass (kg)	Mass (lb)	X-axis (mm)	X-axis (in)	Y-axis (mm)	X-axis (in)
LSC0407DH	1320	2910	650	25.5	425	17
LSC0407DE						
LSC0407DEM	880	1940	505	20	410	16
LSC0507DEM	895	1973	515	20.3	476	18.7
LSC0607DH	1520	3351	655	26	455	18
LSC0607DE						
LSC0608DEM	1320	2910	570	22.4	418	16.5
LSC0808DH	2180	4806	826	32.5	394	15.5
LSC0808DE						
LSC0812DH	2620	5776	905	35.5	565	22
LSC0812DE						
LSC1012DH	2960	6526	930	37	600	24
LSC1012DE						
LSC1212DH	3150	6945	920	36	520	20
LSC1212DE						
LSC1414DH	3700		1226		900	
LSC1414DE						

⚠ WARNING

1. Only qualified mobile elevating work platform operators should move the machine on or off the truck.
2. The transport vehicle must be parked on a level surface.
3. The transport vehicle must be secured to prevent rolling while the machine is being loaded.
4. Be sure that the vehicle capacity, loading surfaces, and chains or straps are sufficient to withstand the machine weight. Lifts are very heavy relative to their size. See the serial label for the machine weight.
- 5 The machine must be on a level surface or secured before releasing the brakes.
6. Do not allow the rails to fall when the snap pins are removed. Maintain a firm grasp on the rails when the rails are lowered.
7. Do not drive the machine on a slope that exceeds the uphill, downhill, or side slope rating. See Driving on a Slope in the Operating Instructions section.
8. If the slope of the transport vehicle bed exceeds the maximum slope rating, the machine must be loaded and unloaded using a winch as described in the brake release operation.

Hoisting Instructions**⚠ WARNING**

Improper lifting may cause the machine to drift, causing casualties and damage.

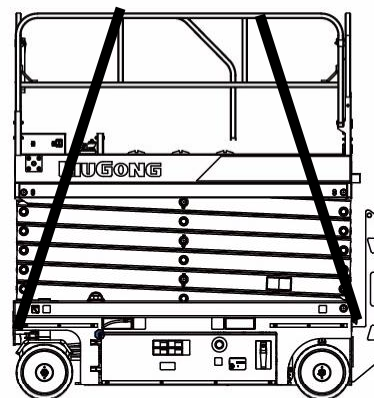
The maximum carrying capacity of lifting equipment and ropes should be calculated before lifting to ensure the safety of lifting.

1. Close the workbench completely. Ensure the safety and reliability of the auxiliary desk, worktable controller, and other components. Remove all loose parts from the machine.
2. The hanger should be firmly fixed on the lifting hole marked with the lifting mark.
3. Adjust the rigging to avoid damage to the machine and maintain the machine level.

⚠ WARNING

Only connect the rigging to the specified lifting point on the machine; otherwise, it may cause damage to the machine parts or personal injury due to improper lifting.

Fig.4-2



Lifting the Machine with a Forklift

⚠ WARNING

1. Only qualified riggers should rig and lift the machine.
2. Only qualified forklift operators should lift the machine with a forklift.
3. Be sure that the crane capacity, loading surfaces, and straps or lines are sufficient to withstand the machine weight. See the serial label for the machine weight.

Be sure that the extension deck, controls and component trays are secure. Remove all loose items on the machine.

- 1) Fully lower the platform. The platform must remain lowered during all loading and transport procedures.
- 2) Use the fork holes on the rear or left side of the vehicle.
- 3) Align the forklift frame with the forklift slot.
- 4) Drive forward to insert the fork completely.
- 5) Lift the machine to 0.4 m (1.3 ft), then tilt the fork slightly back to keep the machine fixed.
- 6) Be sure that the machine is level when lowering the forks.

⚠ WARNING

The machine must not be forklifted from the bottom of the machine. Hoisting the machine from the bottom of the machine will cause damage to the parts.

Fig.4-3

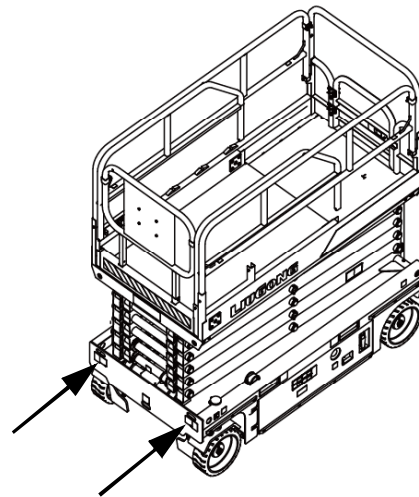
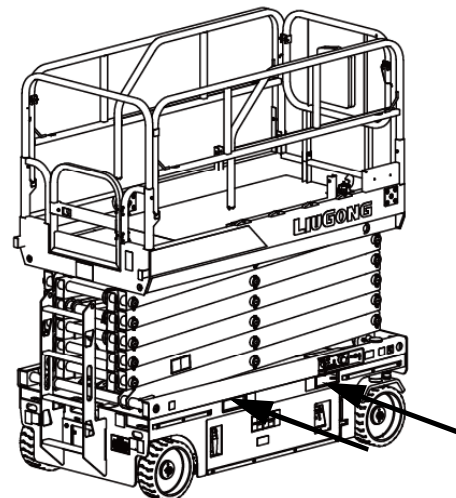


Fig.4-4



Towing of the Machine

⚠ WARNING

Do not tow the machine unless there is a machine failure, etc. If it must be towed, the speed should not exceed 3 km/h.

No personnel tools are allowed on the work bench when the machine is being towed.

When the machine is being towed, first make sure that the sub-stage is fully stowed and that the workbench has been lowered completely.

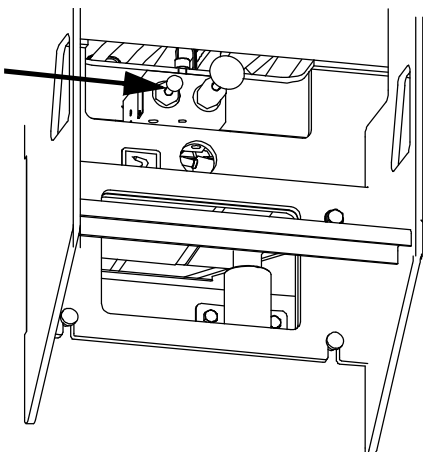
The brake must first be released before towing the Mobile Elevating Work Platform.

Brake Release Operation

Follow the steps below to release the brake:

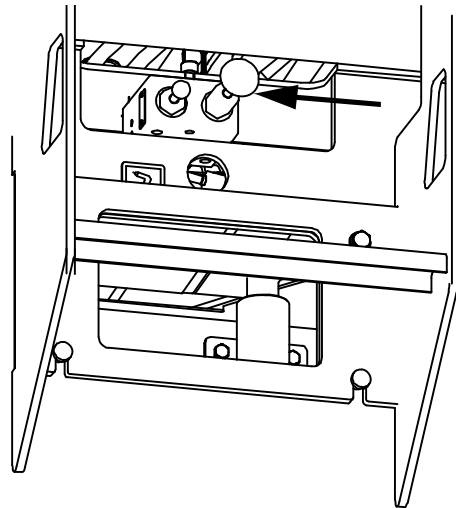
1. Lift the wheel or use a wedge to cushion the wheel.
2. Push the black button on the hand valve to open the hand valve.

Fig.4-5



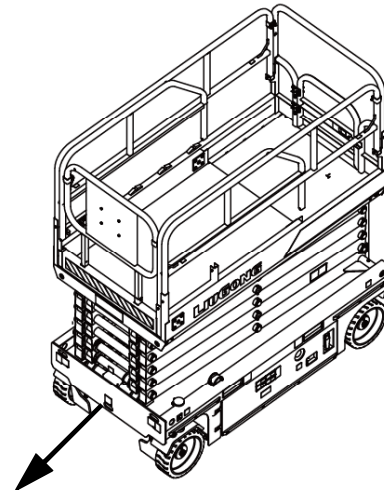
3. Push the red hand pump repeatedly to release the brake.

Fig.4-6



4. It must be ensured that the hauling cable or the skein tray is properly secured to the fastening point of the drive chassis.

Fig.4-7

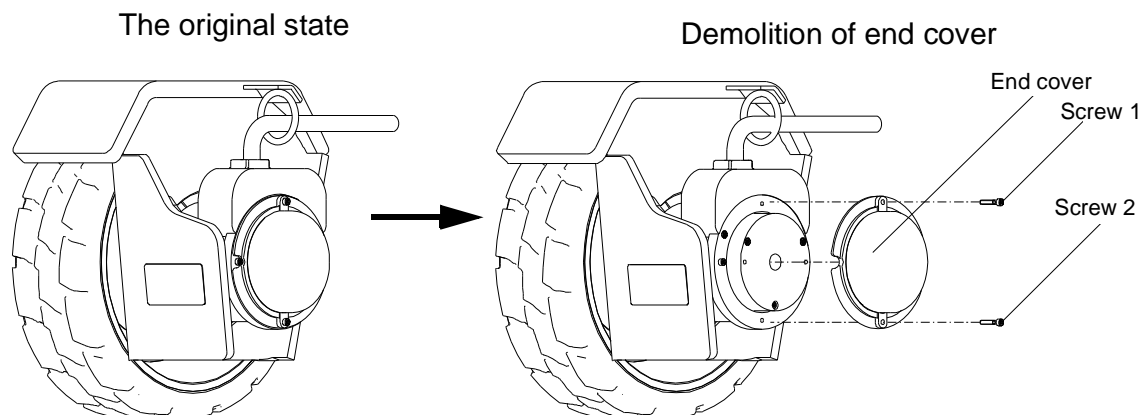


5. It must be ensured that there is no obstacle on the towing path before it can be towed.
6. Pull out the black button on the hand valve after the towing is completed.

LSC0407DE/LSC0607DE/LSC0812DE/ LSC1012DE/LSC1212DE Brake Release Operation :

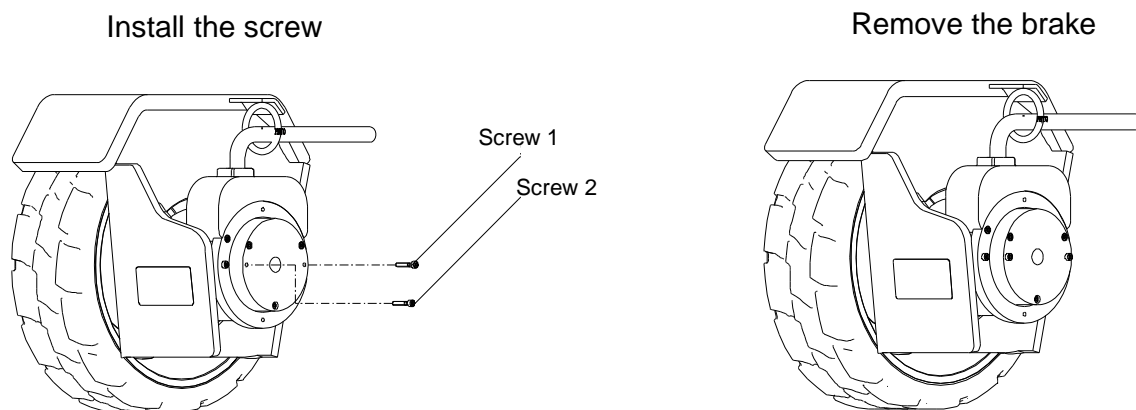
1. To remove the two fastening screws on the motor and remove the cover.

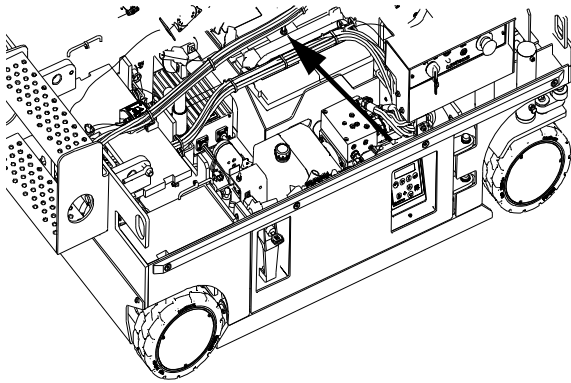
Fig.4-8



2. Have removed the two fastening screw into the two hole is shown in the below image and tighten.If you want to resume the exercise of state, unscrewed the screw, the end cover installation, can restore the brake.

Fig.4-9



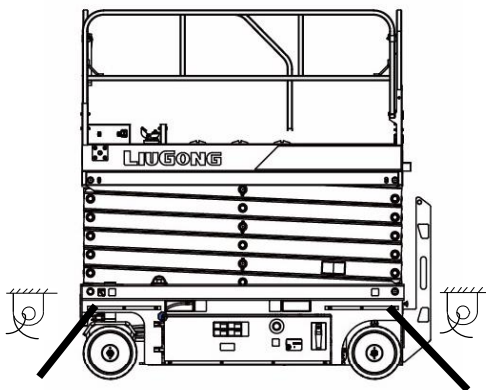
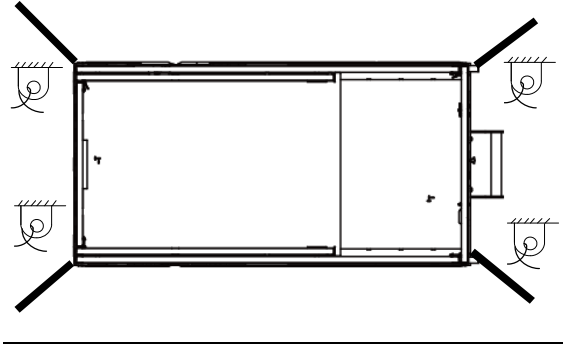
**LSC0507DEM/LSC1414DE Brake Release
Operation:***Toggle Switch*

Open the right door, flip the toggle switch here, you can release the brake.

Fixation of the Machine

For transport by car and container, the machine should be secured with a cable.

The fixing cable should have sufficient load strength, and the tension should be appropriate when adjusting the cable.

Fig. 4-10*Fig.4-11***Keeping in Storage**

1. Ensure that the platform is fully closed.
2. Place the emergency stop switch in the "off" position.
3. Place the main switch of the power supply in the "off" position.
4. Machines should be stored in ventilated areas away from rain and sunlight.
5. When not in use for a long time, the battery should be recharged at least once a month.
6. After storage and exposure to extreme environmental conditions (heat, cold, humidity, dust, etc.), a thorough inspection should be carried out before use.

Maintenance and Repair

⚠ WARNING

1. Only routine maintenance items specified in this manual shall be performed by the operator.
2. Scheduled maintenance inspections shall be completed by qualified service technicians, according to the manufacturer's specifications and the requirements specified in the responsibilities manual.
3. Dispose of material in accordance with governmental regulations.
4. Use only approved replacement parts.

Routine Inspection

1. Keep the surface of the machine clean and tidy.
2. Keep the logo label complete, clear, and legible.
3. The platform door can rotate flexibly. It should be able to close automatically after opening.
4. The extension platform can be extended and retracted freely, and grease should be added if necessary.
5. The extension platform lock pins are reliable.

Annual Inspection

The annual inspection interval of the Mobile Elevating Work Platform should not exceed 13 months. Annual inspection personnel should have the qualifications for this type of machine inspection. The annual inspection content includes all the items to be checked.

Lubrication

NOTICE

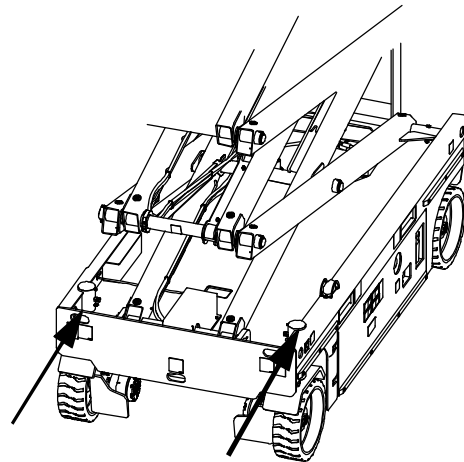
Pay attention to the cleanliness of the grease when refueling, and prevent dirt particles from blocking the oil tube; otherwise, it will cause a system failure!

This machine requires the use of lithium grease No. 3 to lubricate the lubrication points in the following drawings. The lubrication cycle is weekly.

Lubrication Positions

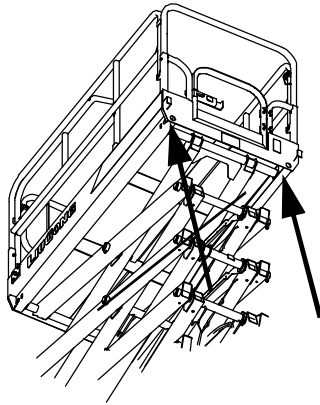
- Lubrication between the steering shaft and the sleeve

Fig.5-1



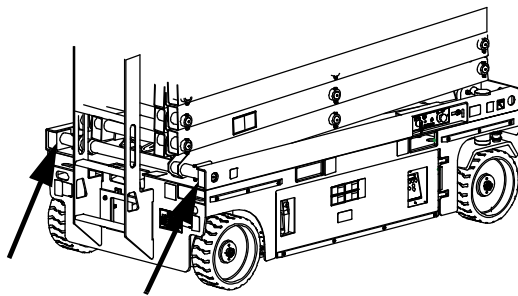
- Lubrication between the top fork arm slider and the platform slide

Fig.5-2



- Lubrication between the bottom fork slider and the chassis slide

Fig.5-3



Wheels and Tires

1. Wheel fixing nut mechanism
2. Check the tires for wear or damage every day.
3. Tires with severe damage to the surface or sidewalls need to be evaluated to determine if they can continue to be used.
4. When the tire edge is worn or the contour has been deformed, replace it immediately.
5. The replacement wheel must be the same as the original model.

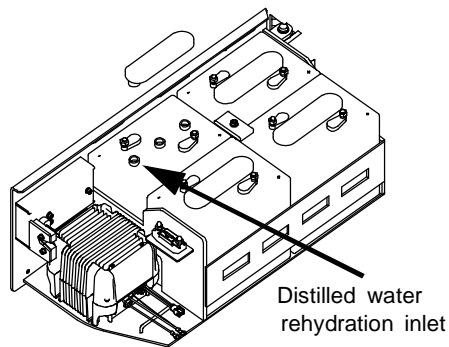
Battery

Routine Maintenance

1. Keep the outside of the battery clean and dry. Do not use organic solvents. Use soapy water to clean the battery. Avoid using a dry cloth to wipe the battery as it can easily generate static electricity.
2. If the battery needs to be stored, disconnect the battery pack from the machine and keep the storage environment cool, dry, and ventilated.
3. Check whether the battery connection is loose every three months.
4. Check the charging status of the battery once a month and charge it equally.
5. Avoid over-discharge and over-charging as far as possible, and the battery should be charged as soon as possible after discharge, otherwise it will affect the performance and service life of the battery.
6. Supplementary power must be provided when the battery is short on power supply. Supply supplementary power according to the supplementary power procedure.

7. For batteries on vehicles that have been in inventory for more than one year, if the batteries have never been recharged according to the above requirements, the batteries must be replaced and the old batteries must be scrapped. .

Fig.5-4



Hydraulic Oil Level Inspection

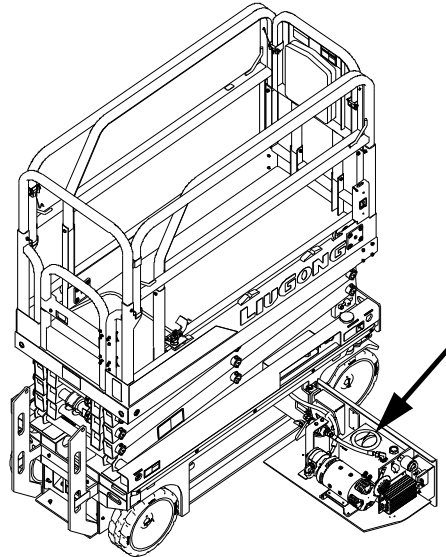
1. Make sure the machine is on a solid, level surface with no obstacles and is in a retracted position.
2. Observe the oil level in the hydraulic tank by observation.

Result: The hydraulic oil level should be between the highest and lowest marks on the hydraulic tank.

3. Refuel as needed. Do not add too much.

Type	Minimum level line (platform retracted state)	Maximum level line (platform retracted state)
LSC0407DH/LSC0407DE	Min	Max
LSC0407DEM	5L	6L
LSC0507DEM	5L	6L
LSC0607DH/LSC0607DE	Min	Max
LSC0608DEM	5L	6L
LSC0808DH/LSC0808DE	13L	15L
LSC0812DH/LSC0812DE	13L	15L
LSC1012DH/LSC1012DE	15L	17L
LSC1212DH/LSC1212DE	15L	17L
LSC1414DH/LSC1414DE	18L	21L

Fig.5-5 The hydraulic oil filling position



Hydraulic Oil Selection and Replacement

Hydraulic Oil Properties and Symbols

The following table lists the characteristics and grades of hydraulic fluids required according to the ambient temperature (sections in the area). Please read the following carefully on selecting hydraulic fluids.

Table 5-1

Items	Ambient temperature above 40 °C	Ambient temperature of -20 ~ 40 °C	Ambient temperature below -30 °C
Reference standard	GB11118.1-94	GB11118.1-94	SH0358-95
Type	L-HV	L-HV	Aviation hydraulic oil
Viscosity grade	64	32	10
Flash point change (opening)	180	160	92
Kinematic viscosity (40 °C) mm ²	61.2-74.8	28.8-35.2	No less than 10 (at 50°C)
The kinematic viscosity reaches 1500 mm ² /S at a temperature not higher than °C	/	-18	-50
The viscosity index is not less than	95	130	/
The pour point is not higher than °C	-9	-33	/

Table 5-2 Domestic and foreign hydraulic oil comparison table

Name	Hydraulic oil
PetroChina	L-HV22, L-HM32, L-HM46
MOBIL	Mobile DTE11M, 13M, 15M
SHELL	Tellus22, 32, 46
CALTEX	Rando oil HD32, 46
CASTROL	Hyspin AWS 15, 32, 46
	Hyspin AWH 15, 32, 46
TOTAL	AZOLLAZS 32, 46
BP	Bartran HV 22, ENergol
	HLP-HM 32, 46

Oil Return Filter

The hydraulic oil return filter is set before the hydraulic tank on the return pipeline to filter out the metal particles worn by the hydraulic components and the damaged seals, so as to keep the oil flowing into the tank clean. It should be replaced at least once every six months.

Controller Failure and Troubleshooting

Table 5-3 Controller failure and exclusion method

Fault Code	Fault Description	Fault Phenomenon	Troubleshooting
1	System initialization error	System initialization error	System initialization error: ECU may be faulty, replace ECU
2	System communication error	System communication error	ECU.System communication error: Check the connection of communication lines and other lines. If you still can't solve the problem, try replacing the PCU or ECU.
3	Invalid option setting error	Invalid option setting error	Invalid option setting error: Set the appropriate options for the machine
4	Calibration failure	Calibration failure	Calibration failed: Please recalibrate or check if there is a problem with the angle sensor and pressure sensor
9	GPS communication failure	GPS communication failure	GPS communication failure: Check the connection of the communication line and other lines. If you still can't solve the problem, try replacing the GPS module or ECU.
12	Chassis lift switch failure	Chassis lift switch failure	Toggle switch up and down failure: Make sure nothing pressing down on the chassis toggle switch or ECU button. Check the wiring of the chassis toggle switch. If you still can't solve the problem, try replacing the ECU.
18	Pothole protection error	Pothole protection error	Pothole protection error: Check whether the pothole protection is extended, check the pit protection limit, check the limit wiring, check the stop limit and wiring
31	Pressure sensor error	Pressure sensor error	Pressure sensor error: Check the sensor wiring and sensor. Also check that the correct option for the weight sensor is selected correctly.
32	Angle sensor error	Angle sensor error	Angle sensor error: Check sensor wiring and sensor. Also check that the right options for the weight sensor are selected correctly.
35	Pressure sensor 2 error	Pressure sensor 2 error	/
36	Low battery warning	Low battery warning	Crawling mode: Low power, please charge
37	Battery exhausted shutdown	Battery exhausted shutdown	Battery exhausted shutdown: Recharge
42	Left turn button failure	Left turn button failure	When starting, the turn left button is turned on erroneously: Make sure there is nothing press down on the button on the joystick. If this is not the issue, consider replacing the PCU or the joystick.
43	Right turn button failure	Just an alarm	When starting, the turn right button is turned on erroneously: Make sure there is nothing press down on the button on the joystick. If this is not the issue, consider replacing the PCU or the joystick.
46	Enable button failure	Stop all actions	The joystick's enable switch is turned on when starting: Make sure there is nothing pressing down on the enable switch on the joystick, and also check the zero parameter. If this is not the issue, consider replacing the PCU or the joystick.

Table 5-3 Controller failure and exclusion method

Fault Code	Fault Description	Fault Phenomenon	Troubleshooting
47	The joystick is not at zero when starting	Limit travel speed	The joystick's enable switch is turned on when starting: Make sure there is nothing pressing down on the enable switch on the joystick, and also check the zero parameter. If this is not the issue, consider replacing the PCU or the joystick.
52	Forward valve failure	Stop lifting and traveling	Forward valve error: Check the coil connections to make sure they are correct. If they are correct, check if the coil is open or shorted.
53	Reverse valve failure	Stop lifting and traveling	Reverse valve error: Check the coil connections to make sure they are correct. If it is correct, check if the coil is open or shorted.
54	Lift valve failure	Stop lifting and traveling	Lift valve error: Check the coil connections to make sure they are correct. If it is correct, check if the coil is open or shorted.
55	Descent valve failure	Stop lifting and traveling	Descent valve error: Check the coil connections to make sure they are correct. If it is correct, check if the coil is open or shorted.
56	Right turn valve failure	Stop lifting and traveling	Right turn steering valve error: Check the connections of the coils to make sure they are correct. If it is correct, check if the coil is open or shorted.
57	Left turn valve failure	Stop lifting and traveling	Left turn steering valve error: Check the connections of the coils to make sure they are correct. If it is correct, check if the coil is open or shorted.
58	Brake valve failure	Stop lifting and traveling	Brake valve error: Check the coil connections to make sure they are correct. If it is correct, check if the coil is open or shorted.
68	Low voltage fault	Stop all actions	Low voltage error: Check the battery voltage and charge if necessary. Check the connection and reinforcement of the battery and switch. Check the voltage to the ECU and PCU.
80	More than 80% load alarm	Just an alarm	Over 80% load alarm: The platform is already approaching its load limit. Consider not adding more loads.
90	Over 90% load alarm	Just an alarm	Over 80% load alarm: The platform is already approaching its load limit. Consider not adding more loads.
99	More than 99% load alarm	Just an alarm	More than 99% load alarm: The platform has reached its load limit. Do not add any load.
OL	Platform overload fault	Stop all actions	Platform overload error: Immediately remove the excess load.
LL	Machine tilt failure	Stop lifting and traveling	The machine it tilting past the safety limit error: If the machine is tilted, try to make it level. If the machine is level, check the wiring of the level sensor and the sensor itself.

Tightening Torque

Tightening Torque of Bolts (Nuts)

Table 5-4 Ordinary bolts (nuts) tightening torque table

Materials and heat treatment		Low or medium carbon steel			Carbon steel in low carbon alloy steel quenched and tempered		
Bolt performance grade		4.6 ~ 4.8	5.6 ~ 5.8	6.8	8.8	10.9	12.9
Nominal diameter of bolt (mm)	6	4.5±0.5	6±1	7±1	10.5±1.5	14±1.5	18±2
	8	11±1	13±1.5	16±3	26±3	33±3	45±5
	10	22±2	28±3	34±6	52±6	72±6	90±10
	12	40±4	50±5	57±10	90±10	120±10	150±14
	14	62±7	80±10	90±14	145±15	195±15	245±30
	16	100±10	125±15	140±20	225±25	305±25	380±50
	18	135±15	170±20	200±30	310±35	415±35	520±70
	20	190±20	240±30	280±45	430±50	600±55	750±100
	22	260±30	320±30	390±60	585±70	800±70	1000±140
	24	340±35	410±40	490±80	760±90	1020±90	1280±180
	27	490±40	630±70	710±120	1100±130	1500±130	1850±250
	30	610±70	800±50	900±150	1470±170	1850±170	2500±300
	33	780±100	960±140	1260±200	2050±230	2500±230	3450±350
	36	1000±100	1260±140	1500±200	2580±280	3100±280	4500±500
	39	1100±130	1300±240	1800±240	3350±350	3800±350	5700±800
42	1520±140	1900±200	2300±300	4130±420	4600±420	7000±900	
48	2200±200	2900±350	3450±390	6200±640	7100±640	10400±1400	

1. The tightening torque in the table is the non-lubricating state value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.
2. The tightening torque of ordinary fine bolts (ordinary fine nut) is increased by 10% on the basis of the table.

Table 5-5 Ordinary bolts (nuts) tightening torque table

Materials and heat treatment	Low or medium carbon steel	Carbon steel in low carbon alloy steel quenched and tempered
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Table 5-5 Ordinary bolts (nuts) tightening torque table

Bolt performance grade		4.6 ~ 4.8	5.6 ~ 5.8	6.8	8.8	10.9	12.9
Nominal diameter of bolt (mm)	6	3.4±0.4	4.5±0.8	5.2±0.8	7.8±1.2	10.4±1.2	13.3±1.5
	8	8.2±0.8	9.6±1.2	11.9±2.3	19.2±2.3	24.4±2.3	33.2±3.7
	10	16.3±1.5	20.7±2.3	25.1±4.5	38.4±4.5	53.2±4.5	66.4±7.4
	12	29.6±3	36.9±3.7	42.1±7.4	66.4±7.4	88.6±7.4	110.7±10.4
	14	45.8±5.2	59.1±7.4	66.4±10.4	107±11.1	143.9±11.1	180.8±22.2
	16	73.8±7.4	92.2±11.1	103.3±14.8	166±18.5	225±18.5	280.3±36.9
	18	99.6±11.1	125.4±14.8	147.6±22.2	228.7±25.9	306.2±25.9	383.6±51.7
	20	140.2±14.8	177.1±22.2	206.6±33.2	317.2±36.9	442.6±40.6	553.2±73.8
	22	191.8±22.2	236.1±22.2	287.7±44.3	431.5±51.7	590.1±51.7	737.6±103.3
	24	250.8±25.9	302.5±29.6	361.5±59.1	560.6±66.4	752.4±66.4	944.2±132.8
	27	361.5±29.6	464.7±51.7	523.7±88.6	811.4±95.9	1106.4±95.9	1364.6±184.4
	30	450±51.7	590.1±36.9	663.9±110.7	1084.3±125.4	1364.6±125.4	1844±221.3
	33	575.4±73.8	708.1±103.3	929.4±147.6	1512.1±169.7	1844±169.7	2544.8±258.2
	36	737.6±73.8	929.4±103.3	1106.4±147.6	1903.1±206.6	2286.6±206.6	3319.2±368.8
	39	811.4±95.9	958.9±177.1	1327.7±177.1	2471±258.2	2802.9±258.2	4204.4±590.1
	42	1121.2±103.3	1401.5±147.6	1696.5±221.3	3046.3±309.8	3393±309.8	5163.2±663.9
48	1622.8±147.6	2139.1±258.2	2544.8±287.7	4573.2±472.1	5237±472.1	7671.1±1032.7	

1. The tightening torque in the table is the non-lubricating state value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.
2. The tightening torque of ordinary fine bolts (ordinary fine nut) is increased by 10% on the basis of the table.

Table 5-6 Tightening torque meter for hexagonal flange bolts (nuts)

Specification of bolts	Bolt grade 8.8		Bolt grade 10.9	
	Tightening torque Nm	Tightening torque ft-lbs	Tightening torque Nm	Tightening torque ft-lbs
M5	7±1	5.2±0.8	10±1	7.4±0.8
M6	12±1.5	8.9±1.2	15±1.5	11.1±1.2
M8	29±3	21.4±2.3	36±3	26.6±2.3
M10	57±6	42.1±4.5	79±6	58.3±4.5
M12	99±10	73.1±7.4	132±10	97.4±7.4
M14	160±15	118.1±11.1	215±15	158.6±11.1
M16	248±25	183±18.5	336±25	247.9±18.5
M18	341±35	251.6±25.9	457±35	337.1±25.9
M20	473±50	348.9±36.9	660±50	486.9±36.9

1. The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.
2. The tightening torque of the hexagonal flange fine bolt (nut) is increased by 10% based on this table.

Table 5-7 Tightening torque of nylon locking nuts

Nut performance grade		6	8	10	12
Nominal diameter of bolt (mm)	6	12±1	15±2	18±3	22±2
	8	26±3	32±4	39±3	51±6
	10	47±6	60±5	80±6	98±10
	12	78±10	100±12	130±10	160±20
	14	125±14	160±20	210±15	260±30
	16	195±20	250±30	330±25	405±50
	18	260±30	340±40	445±35	550±70
	20	360±45	440±40	635±50	785±100
	22	485±60	635±70	840±70	1040±140
	24	610±100	800±80	1065±100	1325±180
	27	880±120	1150±140	1550±100	1900±250
	30	1180±150	1560±200	1900±150	2560±300
	33	1600±200	2010±300	2960±400	3510±500
	36	2000±250	2710±350	3160±250	4560±500
	39	1880±240	3480±470	4880±650	5780±800
42	2740±250	3600±300	4700±300	/	
48	3500±350	4800±250	7200±600	/	

Note: The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.

Table 5-8 Tightening torque of nylon locking nuts

Nut performance grade		6	8	10	12
Nominal diameter of bolt (mm)	6	8.9±0.8	11.1±1.5	13.3±2.3	16.3±1.5
	8	19.2±2.3	23.7±3	28.8±2.3	37.7±4.5
	10	34.7±4.5	44.3±3.7	59.1±4.5	72.3±7.4
	12	57.6±7.4	73.8±8.9	95.9±7.4	118.1±14.8
	14	92.2±10.4	118.1±14.8	154.9±11.1	191.8±22.2
	16	143.9±14.8	184.4±22.2	243.5±18.5	298.8±36.9
	18	191.8±22.2	250.8±29.6	328.3±25.9	405.7±51.7
	20	265.6±33.2	324.6±29.6	468.4±36.9	579.1±73.8
	22	357.8±44.3	468.4±51.7	619.6±51.7	767.2±103.3
	24	450±73.8	590.1±59.1	785.6±73.8	977.4±132.8
	27	649.1±88.6	848.3±103.3	1143.3±73.8	1401.5±184.4
	30	870.4±110.7	1150.7±147.6	1401.5±110.7	1888.3±221.3
	33	1180.2±147.6	1482.6±221.3	2183.3±295.1	2589±368.8
	36	1475.2±184.4	1998.9±258.2	2330.9±184.4	3363.5±368.8
	39	1386.7±177.1	2566.9±346.7	3599.5±479.5	4263.4±590.1
42	2021.1±184.4	2655.4±221.3	3466.8±221.3	/	
48	2581.6±258.2	3540.5±184.4	5310.8±442.6	/	

Note: The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.

Tightening Torque of Hydraulic Pipe Joint

Table 5-9 24° Cone belt O ring sealed pipe joint tightening torque table

Series	Specification of bolts	Inner diameter of hose mm	Tightening torque		
			Nm	kgf.m	ft-lbs
Light type	M12×1.5	5	16±1	1.6±0.1	11.9±0.8
	M14×1.5	6.3	16±1	1.6±0.1	11.9±0.8
	M16×1.5	8	26±2	2.6±0.2	19.2±1.5
	M18×1.5	10	37±2	3.8±0.2	27.3±1.5
	M22×1.5	12.5	47±2	4.8±0.2	34.7±1.5
	M26×1.5	16	89±4	9.0±0.4	65.7±3
	M30×2	19	116±5	11.8±0.5	85.6±3.7
	M36×2	25	137±6	14.0±0.6	101.1±4.5
	M45×2	31.5	226±11	23.0±1.1	166.7±8.2
M52×2	38	347±16	35.4±1.6	256±11.9	
Heavy type	M14×1.5	5	26±2	2.6±0.2	19.2±1.5
	M16×1.5	6.3	42±2	4.2±0.2	31±1.5
	M18×1.5	6.3	53±2	5.4±0.2	39.1±1.5
	M20×1.5	8	63±3	6.4±0.3	46.5±2.3
	M22×1.5	10	79±4	8.0±0.4	58.3±3
	M24×1.5	12.5	84±4	8.6±0.4	62±3
	M30×2	16	126±6	12.8±0.6	93±4.5
	M36×2	19	179±8	18.0±0.8	132.1±6
	M42×2	25	263±12	26.8±1.2	194±8.9
	M52×2	31.5	368±17	37.6±1.7	271.5±12.6

1. The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.
2. The tightening torque of the hexagonal flange fine bolt (nut) is increased by 10% based on this table.

Table 5-10 Tightening torque meter for pressure plate bolts with opposite flanges

Series	Specification of bolts	Bolt performance grade	Tightening torque Nm	Tightening torque ft-lbs
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Table 5-10 Tightening torque meter for pressure plate bolts with opposite flanges

Light type	M8	8.8	25±1	18.5±0.8
	M10		52±2	38.4±1.5
	M12		96±4	70.9±3
	M16		220±10	162.3±7.4
	M8	10.9	33±1	24.4±0.8
	M10		73±3	53.9±2.3
	M12		136±6	100.4±4.5
	M16		310±15	228.7±11.1
Heavy type	M8	8.8	25±1	18.5±0.8
	M10		52±2	38.4±1.5
	M12		96±4	70.9±3
	M16		220±10	162.3±7.4
	M20		420±20	309.8±14.8
	M8	10.9	33±1	24.4±0.8
	M10		73±3	53.9±2.3
	M12		136±6	100.4±4.5
	M16		310±15	228.7±11.1
	M20		577±27	425.6±20

1. The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.
2. The tightening torque of the hexagonal flange fine bolt (nut) is increased by 10% based on this table.

Table 5-11 Tightening torque meter of thread angle sealed transition joint

Series	Thread size	Tightening torque Nm	Tightening torque ft-lbs
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Table 5-11 Tightening torque meter of thread angle sealed transition joint

Light type	M8	8.5±0.5	6.3±0.4
	M10	16±0.5	11.9±0.4
	M12	26±1	19.2±0.8
	M14	36±1	26.6±0.8
	M16	42±2	31±1.5
	M18	47±2	34.7±1.5
	M22	63±3	46.5±2.3
	M27	105±5	77.5±3.7
	M30	136±6	100.4±4.5
	M33	168±8	124±6
	M42	220±10	162.3±7.4
	M48	273±13	201.4±9.6
M60	330±15	243.5±11.1	
Heavy type	M8	10.5±0.5	7.8±0.4
	M10	21±1	15.5±0.8
	M12	36±1.5	26.6±1.2
	M14	47±2	34.7±1.5
	M16	57±2	42.1±1.5
	M18	73±3	53.9±2.3
	M20	84±4	62±3
	M22	105±5	77.5±3.7
	M27	178±8	131.3±6
	M30	225±10	166±7.4
	M33	325±15	239.8±11.1
	M42	345±15	254.5±11.1
	M48	440±20	324.6±14.8
M60	525±25	387.3±18.5	

1. The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.
2. The tightening torque of the hexagonal flange fine bolt (nut) is increased by 10% based on this table.

Table 5-12 Tightening torque meter of thread angle sealed transition joint

Series	Thread size	Tightening torque Nm	Tightening torque ft-lbs
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Table 5-12 Tightening torque meter of thread angle sealed transition joint

Light type	G 1/8	26±1	19.2±0.8
	G 1/4	52±2	38.4±1.5
	G 3/8	84±4	62±3
	G 1/2	110±5	81.2±3.7
	G 3/4	230±10	169.7±7.4
	G 1	388±18	286.2±13.3
	G 1-1/4	525±25	387.3±18.5
	G 1-1/2	630±30	464.7±22.2

1. The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.
2. The tightening torque of the hexagonal flange fine bolt (nut) is increased by 10% based on this table.

Table 5-13 Tightening torque meter of thread angle sealed transition joint

Series	Thread size	Tightening torque Nm	Tightening torque ft-lbs
Light type	3/8-24 UNF	10.5±0.5	7.8±0.4
	7/16-20 UNF	19±1	14.1±0.8
	1/2-20 UNF	26±1	19.2±0.8
	9/16-18 UNF	31±1	22.9±0.8
	3/4-16 UNF	52±2	38.4±1.5
	7/8-14 UNF	63±3	46.5±2.3
	1 1/16-12 UNF	100±5	73.8±3.7
	1 3/16-12 UNF	131±6	96.7±4.5
	1 5/16-12 UNF	157±7	115.9±5.2
	1 5/8-12 UNF	210±10	154.9±7.4
	1 7/8-12 UNF	220±10	162.3±7.4
2 1/2-12 UNF	315±15	232.4±11.1	
Heavy type	3/8-24 UNF	10.5±0.5	7.8±0.4
	7/16-20 UNF	21±1	15.5±0.8
	1/2-20 UNF	26±1	19.2±0.8
	9/16-18 UNF	36±1	26.6±0.8
	3/4-16 UNF	73±3	53.9±2.3
	7/8-14 UNF	105±5	77.5±3.7
	1 1/16-12 UNF	178±8	131.3±6
	1 3/16-12 UNF	225±10	166±7.4
	1 5/16-12 UNF	283±13	208.8±9.6
	1 5/8-12 UNF	300±15	221.3±11.1
	1 7/8-12 UNF	390±20	287.7±14.8

1. The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.
2. The tightening torque of the hexagonal flange fine bolt (nut) is increased by 10% based on this table.

Table 5-14 Tightening torque meter for sealed transition joint of ED gasket

Series	Thread size	Tightening torque Nm	Tightening torque ft-lbs
Light type	M10	21±1	15.5±0.8
	M12	31±1	22.9±0.8
	M14	52±2	38.4±1.5
	M16	63±3	46.5±2.3
	M18	84±4	62±3
	M22	147±7	108.5±5.2
	M26	210±10	154.9±7.4
	M33	390±10	287.7±7.4
	M42	525±25	387.3±18.5
M48	630±30	464.7±22.2	
Heavy type	M12	47±2	34.7±1.5
	M14	63±3	46.5±2.3
	M16	84±4	62±3
	M18	105±5	77.5±3.7
	M20	147±7	108.5±5.2
	M22	157±7	115.9±5.2
	M27	210±10	154.9±7.4
	M33	390±10	287.7±7.4
	M42	525±25	387.3±18.5
M48	630±30	464.7±22.2	

Note:

1. Reference standard:

(1) ISO 9974-2 for general purpose and fluid transmission - Joints and screw-ends with rubber or metal seals with ISO 261 thread - Part 2: Screws with rubber seals column end,

(2) ISO 1179-2 light and heavy column end (E type) with elastic seal.

2. The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.

Table 5-15 Tightening torque meter of thread angle sealed transition joint

Series	Thread size	Tightening torque Nm	Tightening torque ft-lbs
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Table 5-15 Tightening torque meter of thread angle sealed transition joint

Light type	G 1/8	21±1	15.5±0.8
	G 1/4	52±2	38.4±1.5
	G 3/8	84±4	62±3
	G 1/2	105±5	77.5±3.7
	G 3/4	210±10	154.9±7.4
	G 1	390±10	287.7±7.4
	G 1-1/4	525±25	387.3±18.5
Heavy type	G 1-1/2	630±30	464.7±22.2
	G 1/4	63±3	46.5±2.3
	G 3/8	95±5	70.1±3.7
	G 1/2	136±6	100.4±4.5
	G 3/4	210±10	154.9±7.4
	G 1	390±10	287.7±7.4
	G 1-1/4	525±25	387.3±18.5
G 1-1/2	630±30	464.7±22.2	

Note:

1. Reference standard:

(1) ISO 9974-2 for general purpose and fluid transmission - Joints and screw-ends with rubber or metal seals with ISO 261 thread - Part 2 : Screws with rubber seals column end,

(2) ISO 1179-2 light and heavy column end (E type) with elastic seal.

2. The tightening torque in the table is the non-lubricating value, and the non-lubricating state refers to the state in which auxiliary materials have not been added to the thread.

Spare Parts List

Table 5-16

No.	PART NO.	PART NAME	SPECIFICATION	Oil application inlet	QTY	NOTE
1	12B1709	O-RING	ISO 8434-1:6×1.5	M14*1.5	5	
2	12B1710	O-RING	ISO 8434-1:7.5×1.5	M16*1.5	5	
3	12B0514	O-RING	ISO 8434-1:9×1.5	M18*1.5	5	
4	12B0496	O-RING	ISO 8434-1:12×2.0	M22*1.5	5	
5	12B1473	SEAL RING	DIN 3869-14-NBR	G1/4	5	
6	83A1994	SEALING WASHER	DIN 3869-17-NBR	G3/8	5	
7	12B1622	SEAL RING	DIN 3869-21-NBR	G1/2	2	
8	80A0284	SEAL RING	DIN 3869-27-NBR	G3/4	5	
9	12B0494	O-RING	ISO 3601-1: 10.77×2.62	G1/4	5	BALANCED VALVE
10	12B0630	O-RING	ISO 3601-1: 13.94×2.62	G3/8	2	
11	12B0631	O-RING	ISO 3601-1: 17.12×2.62	G1/2	5	
12	12B0546	O-RING	SAE J515: 8.92×1.83	7/16-20	5	BRAKE
13	12B0495	O-RING	SAE J515: 11.89×1.98	9/16-18	5	TRAVEL MOTOR

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