

MOBILE SCISSOR LIFTS

OPERATOR'S MANUAL

with Maintenance Information and Parts List

(For JCPT0607A)



WARNING

THE MANUFACTURER SHALL NOT BE HELD LIABLE IN CASE OF FAULTS OR ACCIDENTS DUE TO NEGLIGENCE, INCAPACITY, INSTALLATION BY UNQUALIFIED TECHNICIANS AND IMPROPER USE OF THE MACHINE

DO NOT OPERATE THIS MACHINE UNTIL YOU READ AND UNDERSTAND ALL THE DANGERS, WARNINGS AND CAUTIONS IN THIS MANUAL

Part Number: SM0209111



Zhejiang Dingli Machinery Co., Ltd.

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Version of the Record

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Important

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

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

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Owners, Users and operators:

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

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

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

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Safety Rules



Danger

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

Do Not Operate Unless:

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

Decal Legend

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



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



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



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



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



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

Safety Rules

Intended Use

This machine is intended to be used only to lift personnel, along with their tools and materials to an aerial work site.



This machine is intended for use **INDOORS ONLY**, and must not be used outdoors as wind forces may make it unstable.

Safety Sign Maintenance

Replace any missing or damaged safety signs. Keep operator safety in mind at all times. Use mild soap and water to clean safety signs. Do not use solvent-based cleaners because they may damage the safety sign material.

⚠️ Electrocuting Hazard



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

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

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

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

Do not use the machine as a ground for welding.

⚠️ Tip-over Hazard

This machine is intended for use **INDOORS ONLY**, and must not be used outdoors as wind forces may make it unstable.

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

Maximum capacity – JCPT0607A

Maximum occupants (Indoor use **ONLY**) 1

Platform allowable maximum load 240 kg

Work Area Safety

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

Do not raise the machine if the bubble spirit level is outside the marked limits.



Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds on the chassis and in the platform when the machine is on a slope.

If the tilt alarm sounds:

Lower the platform. Move the machine to a firm, level surface. If the tilt alarm sounds when the platform is raised, use extreme caution to lower the platform.

Safety Rules

Do not use the machine as a crane.

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

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

Do not operate the machine with the chassis trays open.

Do not contact adjacent structures with the platform.

Do not alter or disable the limit switches.

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



Maximum allowable manual force	200 N
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Do not tie the platform to adjacent structures.

Do not place loads outside the platform perimeter.

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

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

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

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



Be sure all tires are in good condition

Do not use battery that weighs less than the original equipment. The battery is used as counterweight and are critical to machine stability. The battery must weigh 25 kg.

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

▲ Crushing Hazard

Keep hands and limbs out of scissors.

Use common sense and planning when operating the machine with the controller from the ground.

▲ Fall Hazard

The guard rail system provides fall protection. During operation, occupant in the platform must wear a full body harness with a lanyard attached to an authorized lanyard anchorage point. Attach only one (1) lanyard per lanyard anchorage point.

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

Do not climb down from the platform when raised.



Keep the platform floor clear of debris.

Close the entry gate before operating.

Do not enter or exit the platform unless the machine is in the stowed position.

Safety Rules

⚠ Collision Hazard

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

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



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

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

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

Do not move while operating the machine.

⚠ Component Damage Hazard

Do not use any battery or charger greater than 12V.

Do not use the machine as a ground for welding.

⚠ Explosion and Fire Hazard

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

⚠ Damaged Machine Hazard

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 the manuals.

Be sure all decals are in place and legible.

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

⚠ Bodily Injury Hazard

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

Improper contact with components in the tray will cause serious injury. The tray must remain closed and secured during operation.

⚠ Battery Safety

⚠ Burn Hazard



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

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

Safety Rules

⚠ Explosion Hazard



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

The battery tray should remain open during the entire charging cycle.

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

⚠ Component Damage Hazard

Do not use any battery charger greater than 12V to charge the batteries.

⚠ Electrocution/ Burn Hazard



Connect the battery charger to a grounded, AC 3-wire electrical outlet only.

Inspect daily for damaged cords, cables and wires.

Replace damaged items before operating.

Avoid electrical shock from contact with battery terminals. Remove all rings, watches and other jewelry.

⚠ Tip-over Hazard

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. The battery must weigh 25 kg.

⚠ Lifting Hazard

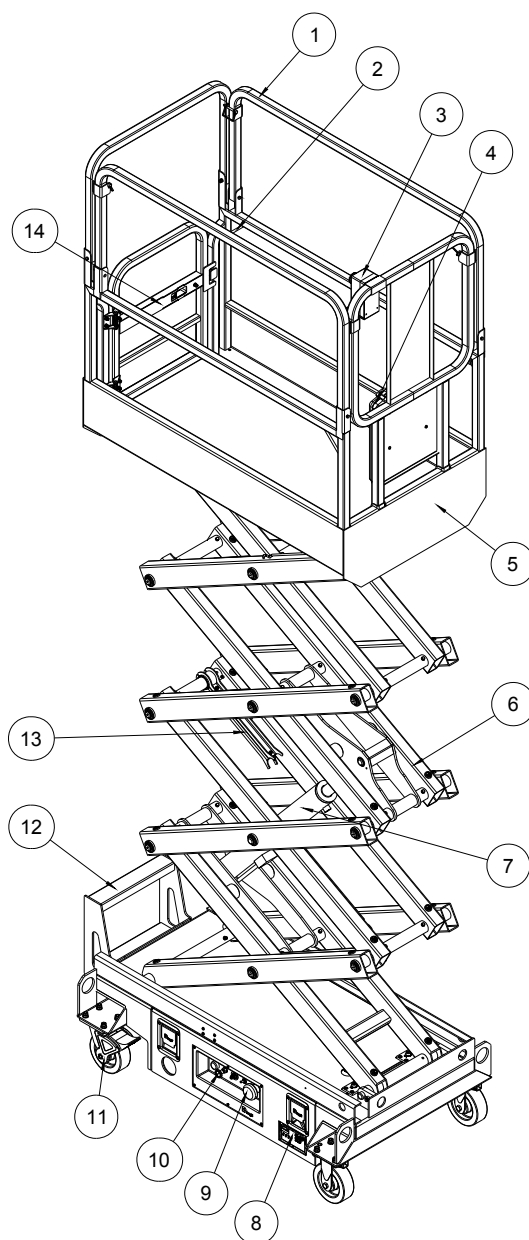
Use the appropriate number of people and proper lifting techniques when lifting batteries.

Lockout after Each Use

- 1 Select a safe parking location - firm level surface, clear of obstruction and traffic.
- 2 Lower the platform.
- 3 Turn the key switch to the off position and remove the key to secure from unauthorized use.
- 4 Chock the wheels.
- 5 Charge the batteries.

Legend

Legend



1. Platform guard rails

2. Lanyard anchorage point

3. Platform control

4. Manual storage container

5. Platform

6. Scissor

7. Lift cylinder

8. Batteries charger

9. Red emergency stop button

10. Emergency lowering knob

11. Brake

12. Ladder

13. Safety arms

14. Platform entry gate

Decals**Decal Inspection**

Use the pictures on the next page to verify that all decals are legible and in place.

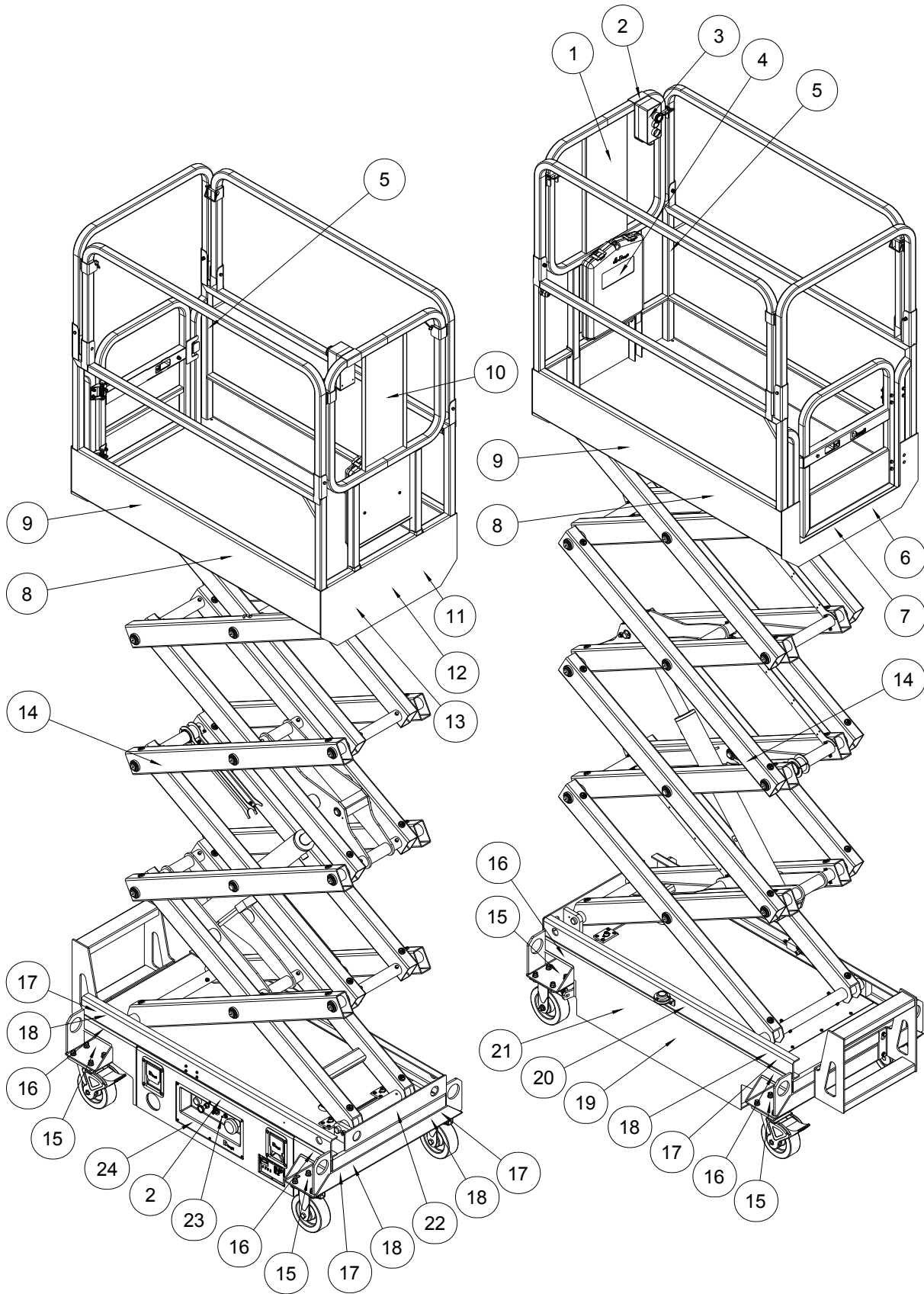
Below is a numerical list with quantities and descriptions.

No.	Part No.	Description	Qty.	Remark
1	9414101	Danger – Safety rules	1	
2	9314013	Instructions – Refer the operator to the instructions for use	2	
3	9114019	Label – Red emergency stop	1	Platform Console Panel
	9114021	Label – Function enable button	1	
	9114123	Label – Platform up/down switch	1	
4	9334011	Notice – Operator's manual storage	1	
5	9414123	Label – Lanyard anchorage	2	
6	9414105	Warning – Tip-over hazard	1	
7	9414047	Label – Capacity 240kg	1	
8	9414111	Caution – Max. manual force: 200N	2	
9	9614051	Cosmetic – JCPT0607A	2	
10	9514103	Cosmetic – Mark	1	
11	9514201	Cosmetic – CE	1	
12	9413013	Danger – Crushing hazard	1	
13	9514301	Cosmetic – IPAF	1	
14	9313011	Instructions – Safety arm	2	
15	9311011	Instructions – Forklift pockets	4	
16	9311529	Instructions – Wheel load: 330kg	4	
17	9311015	Instructions – Tie down point	4	
18	9311013	Instructions – Lift point	4	
19	9411011	Danger – Explosion / burn hazard	1	
20	9411017	Danger – Tip-over hazard	1	
21	9211015	Decal – Manufacturer's plate	1	
22	9411015	Danger – Tip-over hazard	1	

Decals

No.	Part No.	Description	Qty.	Remark
23	9111033	Label – Ground console panel	1	
24	9311017	Instructions – Emergency down	1	

Decals



Decals

Platform

① 9414101

② 9314013

③ 9114019, 9114021, 9114023

④ 9334011

⑤ 9414123

⑥ 9414105

⑦ 9414047

⑧ 9414111

⑨ 9614051

⑩ 9514103

⑪ 9514201

⑫ 9413013

⑬ 9514301

⑭ 9313011

⑮ 9111011

⑯ 9311015

⑰ 9311013

⑱ 9311529

⑲ 9411011

⑳ 9411017

㉑ 9211015

㉒ 9411015

㉓ 9111033

㉔ 9311017

Scissor Arms

⑮ 9311011

⑰ 9311015

⑱ 9311529

⑲ 9411011

㉑ 9211015

㉒ 9411015

㉓ 9111033

㉔ 9311017

Chassis

⑮ 9311011

⑰ 9311015

⑱ 9311529

⑲ 9411011

㉑ 9211015

㉒ 9411015

㉓ 9111033

㉔ 9311017

⑲ 9411011

㉑ 9211015

㉒ 9411015

㉓ 9111033

㉔ 9311017

Specifications**Model: JCPT0607A**

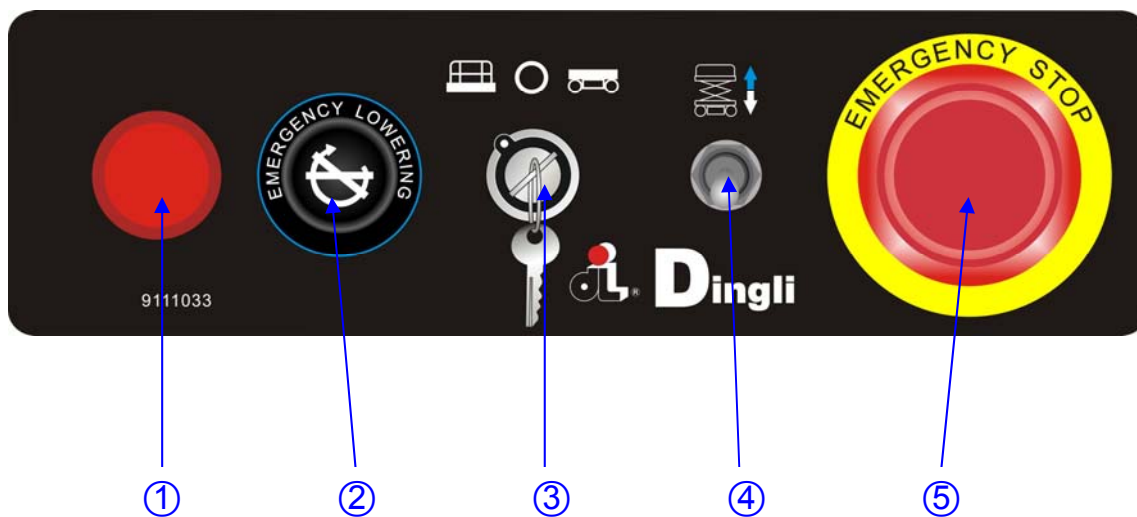
Height, working maximum	5.9m
Height, platform maximum	3.9m
Height, stowed maximum (Rails up)	1.95m
Height, stowed maximum (Rails folded)	1.55m
Width	0.76m
Length	1.44m
Platform dimensions (Platform length × width)	1.29×0.7m
Maximum load capacity	240kg
Maximum wind speed	0m/s
Maximum chassis inclination	0°
Wheelbase	1.14m
Turning radius	0m
Ground clearance	6cm
Weight	(See Serial Label)
Battery	12V 85Ah
Controls	Proportional
AC outlet in platform	Standard
Maximum hydraulic pressure (functions)	180bar
System voltage	12V/15A
Tyre	Φ152mm
Airborne noise emissions	<70dB
Tire load, maximum	330kg

Note: Floor loading information is approximate and does not incorporate different option configurations. It should be used only with adequate safety factors.

Continuous improvement of our products is a DINGLI policy. Product specifications are subject to change without notice or obligation.

Control Panel

Ground Control Panel



1 Power Indicated

4 Platform up / down switch

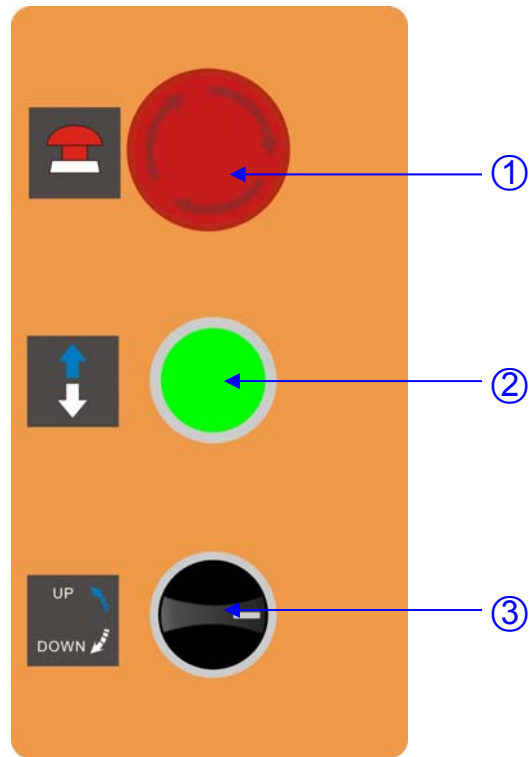
2 Emergency Lowering Knob

5 Red Emergency Stop button

3 Key switches for platform / off / ground
control selection

Control Panel

Platform Control Panel



1 Red Emergency Stop button

3 Platform up/down switch

2 Function enable button

Pre-operation Inspection



Do Not Operate Unless:

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

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

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

- 1 Inspect the workplace.
- 2 Always perform function tests prior to use.
- 3 Only use the machine as it was intended.

Fundamentals

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

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

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

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

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

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

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

Pre-operation Inspection

Pre-operation Inspection

- ☐ Be sure that the operator's manuals are complete, legible and in the storage container located in the platform.
- ☐ Be sure that all decals are legible and in place. See Decals section.
- ☐ Check for hydraulic oil leaks and proper oil level. Add oil if needed. See Maintenance section.
- ☐ Check for battery fluid leaks and proper fluid level. Add distilled water if needed. See Maintenance section.

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

- ☐ Electrical components, wiring and electrical cables
- ☐ Hydraulic hoses, fittings, cylinders
- ☐ Hydraulic tanks
- ☐ Wear pads
- ☐ Limit switches, alarms
- ☐ Nuts, bolts and other fasteners
- ☐ Platform entry gate
- ☐ alarms
- ☐ Safety arm
- ☐ Scissor pins and retaining fasteners
- ☐ Platform control box

Check entire machine for:

- ☐ Cracks in welds or structural components
- ☐ Dents or damage to machine
- ☐ Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened

Workplace Inspection



Do Not Operate Unless:

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

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

3 Inspect the workplace.

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

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

Fundamentals

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

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

Workplace Inspection

Be aware of and avoid the following hazardous situations:

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

Function Tests



Do Not Operate Unless:

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

- 1 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Inspect the workplace.
- 4 **Always perform function tests prior to use.**

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

- 5 Only use the machine as it was intended.

Fundamentals

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

The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

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

Function Tests

- 1 Select a test area that is firm, level and free of obstruction.
- 2 Be sure the battery is connected.
- 3 The bubble spirit level is within the marked limits.
- 4 All castor wheels must be in full contact with the ground.
- 5 Lock the brakes of the front castors.

At the Ground Controls

- 6 Pull out the platform and ground red Emergency Stop buttons to the on position.
- 7 Turn the key switch to ground control.

Test Emergency Stop

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

Test Up/Down Functions

A buzzer with different sound frequency is controlled in central system. The descent alarm sounds at 60 beeps per minute. The alarm that goes off when the machine is not level sounds at 150 beeps per minute (if equipped.)

- 10 Turn the key switch to off or platform position.
- 11 Move up and hold the platform up/down switch.
- ⊙ Result: No function should operate.
- 12 Turn the key switch to ground control position.
- 13 Move up and hold the platform up/down switch.
- ⊙ Result: The platform should raise.

- 14 Move down and hold the platform up/down switch.

- ⊙ Result: The platform should lower then stop at 1.2 m high for 5 seconds. The descent alarm should sound while the platform is lowering.

Test the Emergency Lowering

- 15 Activate the up function and raise the platform approximately 60 cm.
- 16 Pull the emergency lowering knob
- ⊙ Result: The platform should lower. The descent alarm will not sound.
- 17 Turn the key switch to platform control.

At the Platform Controls

Test Emergency Stop

- 18 Push in the platform red Emergency Stop button to the off position.
- ⊙ Result: No functions should operate.
- 19 Pull the red Emergency Stop button out to the on position.

Test Function Enable and Up/Down Functions

- 20 Do not press the function enable button, turn up the platform up/down switch.
- ⊙ Result: The platform should not rise.
- 21 Do not press the function enable button, turn down the platform up/down switch.
- ⊙ Result: The platform should not lower.
- 22 Press and hold the function enable button, turn up the platform up/down switch.
- ⊙ Result: The platform should rise.
- 23 Press and hold the function enable button, turn down the platform up/down switch.
- ⊙ Result: The platform should lower, and

Function Tests

then stop at the 1.2 m high for 5 seconds.

The descent alarm should sound while the platform is lowering.

Test the Tilt Sensor Operation (if equipped)

Note: Perform this test from the ground with the platform controller. Do not stand in the platform.

- 24 Fully lower the platform.
 - 25 Place a 1×20cm or similar piece of wood under both wheels on one side and push the machine up onto them.
 - 26 Lock brake of the castor.
 - 27 Raise the platform at least 1.2 m.
- ⊙ Result: The platform should stop and the tilt alarm will sound at 150 beeps per minute.

Operating Instructions



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.
- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Inspect the workplace.
- 4 Always perform function tests prior to use.
- 5 **Only use the machine as it was intended.**

Fundamentals

This machine is a mobile hydraulic lift equipped with a work platform on the scissor mechanism. Vibrations emitted by these machines are not hazardous to an operator in the work platform. The machine can be used to position personnel with their tools and supplies at position above ground level and can be used to reach work areas located above and over machinery or equipment.

A full and detailed implementation of EN ISO 13849-1/2 is correctly applied on our MEWP design. SISTEMA, a software tool for PL Calculation Tool, is also used to perform some relatively straightforward calculations on subsystem to determine the overall PL of the system. Reliability data, diagnostic coverage [DC], the system architecture [Category], common cause failure and, where relevant, requirements for software are used to assess the PL to comply with PLr of SRP/CS in Clause 5.11 of EN 280.

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

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

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

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

Operating Instructions

Emergency stop

Push in the red Emergency Stop button to the off position at the ground controls or the platform controls to stop all machine functions.

Repair any function that operates when either red Emergency Stop button is pushed in.

Emergency lowering

Pulling the emergency lowering knob lowers the platform.

Maneuvering the platform

Maneuver the platform into position using both hands on the platform rails. Take care to avoid trapping hands or feet whilst maneuvering the platform.

Never maneuver the machine whilst it is elevated or with a person, tools or materials in the platform.

Engaging the brakes

Always ensure that both front castor brakes are engaged before elevating the work platform to prevent any inadvertent movement.

The brakes are on by pushing down on the front end of the lever and off by pushing down the rear end of the lever.

Entering the work platform

Always use three points of contact when entering or exiting the platform, using the handholds provided. For example, use two hands and one foot. Use the step provided on the base of the machine.

On entering the platform, ensure that the gate is closed behind you.

Operation from Ground

- 1 Turn the key switch to ground control.
- 2 Pull out both ground and platform red Emergency Stop buttons to the on position.
- 3 Be sure the battery pack is connected before operating the machine.

To Position Platform

- 1 Move the up/down toggle switch according to the markings on the control panel.

Operation from Platform

- 1 Turn the key switch to platform control.
- 2 Pull out the ground and platform red Emergency Stop buttons to the on position.
- 3 Be sure the battery pack is connected before operating the machine.

To Position Platform

- 1 Press and hold the function enable button.
- 2 Turn up the platform up/down switch to raise the platform.
- 3 Turn down the platform up/down switch to lower the platform.

How to use the Safety Arm

- 1 Raise the platform approximately 1.5 m from the ground.
- 2 Lift the safety arm, move it to the center of the scissor arm and rotate the safety arm away from the machine and let it hang down.
- 3 Lower the platform until the safety arm rests securely on the link. Keep clear of the safety arm when lowering the platform.

Operating Instructions

⚠ DANGER Don't engage the safety arm unless unload the platform.

How to Fold Down the Guardrails

The platform railing system consists of three fold down rail section for the extension deck and three sections for the main deck. All sections are held in place by four wire lock pins.

- 1 Fully lower the platform and retract the platform extension.
- 2 Remove the platform controls.
- 3 From inside the platform, remove the two front extension deck wire lock pins.
- 4 Fold down the front rail assembly. Keep hands clear of pinch points.
- 5 Replace the two removed pins back into each side rail bracket.
- 6 Fold down the extension platform right rail assembly. Keep hands clear of pinch points.
- 7 Fold down the extension platform left rail assembly. Keep hands clear of pinch points.
- 8 Carefully open the gate and move to the rear step or the ground.
- 9 From the rear step or from the ground, remove the right rear main deck wire lock pins.
- 10 Fold down the right rail assembly. Keep hands clear of pinch points.
- 11 Replace the removed pin back into rear rail bracket.
- 12 Remove the left rear main deck wire lock pins.

- 13 Fold down the left rail assembly. Keep hands clear of pinch points.
- 14 Replace the removed pin back into rear rail bracket.
- 15 Fold down the rear rail assembly. Keep hands free of pinch points.

How to Raise the Guardrails

Follow the fold down instructions but in reverse order.

Lockout after Each Use

- 1 Select a safe parking location - firm level surface, clear of obstruction and traffic.
- 2 Lower the platform.
- 3 Turn the key switch to the off position and remove the key to secure from unauthorized use.
- 4 Chock the wheels.
- 5 Charge the batteries.

Operating Instructions



Battery and Charger Instructions

Observe and Obey:

- ☒ Do not use an external charger or booster battery.
- ☒ Charge the battery in a well-ventilated area.
- ☒ Use proper AC input voltage for charging as indicated on the machine.
- ☒ Use only a Dingli authorized battery and charger.

Dry Battery Filling and Charging Instructions

- 1 Remove the battery vent caps and permanently remove the plastic seal from the battery vent openings.
- 2 Fill each cell with battery acid (electrolyte) until the level is sufficient to cover the plates.

Do not fill to the maximum level until the battery charge cycle is complete. Overfilling can cause the battery acid to overflow during charging.

Neutralize battery acid spills with baking soda and water.

- 3 Install the battery vent caps.
- 4 Charge the battery.
- 5 Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

To Charge Battery

- 1 Be sure the battery is connected before charging.
- 2 Open the battery tray. The battery tray should remain open for the entire charging cycle.

Maintenance - free battery

- 3 Connect the battery charger to a grounded AC circuit.
- 4 The charger will indicate when the battery is fully charged.

Standard Battery

- 5 Remove the battery vent caps and check the battery acid level. If necessary, add only enough distilled water to cover the plates. Do not overfill prior to the charge cycle.
- 6 Replace the battery vent caps.
- 7 Connect the battery charger to a grounded AC circuit.
- 8 The charger will indicate when the battery is fully charged.
- 9 Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

Transport and Lifting Instructions



Observe and Obey:

- ☒ Common sense and planning must be applied to control the movement of the machine when lifting it with a crane or forklift.
- ☒ The transport vehicle must be parked on a level surface.
- ☒ The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- ☒ Be sure the vehicle capacity, loading surfaces and chains or straps are sufficient to withstand the machine weight. See the serial label for the machine weight.
- ☒ The machine must be on a level surface or secured before releasing the brakes.

After the machine is loaded:

- 1 Push in both ground and platform red Emergency Stop buttons to the off position.
- 2 Turn the key switch to the off position.
- 3 Lock the both castor brakes.
- 4 Chock the wheels to prevent the machine from rolling.

Securing to Truck for Transit

Always chock the machine wheels in preparation for transport.

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

Inspect the entire machine for loose or unsecured items.

Securing the Chassis

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

Use a minimum of four chains or straps.

Use chains or straps of ample load capacity.

Adjust the rigging to prevent damage to the chains.

Lifting the Machine with a Forklift

Be sure the control and component tray are secure. Remove all loose items on the machine.

Fully lower the platform. The platform must remain lowered during all loading and transport procedures.

Use the forklift pockets located on both sides.

Position the forklift forks in position with the forklift pockets.

Drive forward to the full extent of the forks.

Raise the machine 15 cm and then tilt the forks back slightly to keep the machine secure.

Be sure the machine is level when lowering the forks.

Maintenance



Observe and Obey:

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

Maintenance Symbols Legend

NOTICE

The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below.



Indicates that tools will be required to perform this procedure.



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



Indicates that dealer service will be required to perform this procedure.

Pre-delivery Preparation Report

The pre-delivery preparation report contains checklists for each type of scheduled inspection.

Make copies of the Pre-delivery Preparation report to use for each inspection. Store completed forms as required.

Maintenance Schedule

There are five types of maintenance inspections that must be performed according to a schedule— daily, quarterly, semi-annually, annually, and two year. The Scheduled Maintenance Procedures Section and the Maintenance Inspection Report have been divided into five subsections—A, B, C, D, and E. Use the following chart to determine which group(s) of procedures are required to perform a scheduled inspection.

Inspection	Checklist
Daily or every 8 hours	A
Quarterly or every 250 hours	A+B
Semi-annually or every 500 hours	A+B +C
Annually or every 1000 hours	A+B +C +D
Two year or every 2000 hours	A+B+C+D+E

Maintenance Inspection Report

The maintenance inspection report contains checklists for each type of scheduled inspection.

Make copies of the Maintenance Inspection Report to use for each inspection. Maintain completed forms for a minimum of 4 years or in compliance with your employer, jobsite and governmental regulations and requirements.

Maintenance

Pre-delivery Preparation Report

Fundamentals

It is the responsibility of the dealer to perform the Pre-delivery Preparation.

The Pre-delivery Preparation is performed prior to each delivery. The inspection is designed to discover if anything is apparently wrong with a machine before it is put into service.

A damaged or modified machine must never be used. If damage or any variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

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

Instructions

Use the operator's manual on your machine.

The Pre-delivery Preparation consists of completing the Pre-operation Inspection, the Maintenance items and the Function Tests.

Use this form to record the results. Place a check in the appropriate box after each part is completed. Follow the instructions in the operator's manual.

If any inspection receives an N, remove the machine from service, repair and re-inspect it. After repair, place a check in the R box.

Legend

Y = yes, completed

N = no, unable to complete

R = repaired

Comments

Pre-Delivery Preparation	Y	N	R
Pre-operation inspection completed			
Maintenance items completed			
Function tests completed			

Model

Serial number

Date

Machine owner

Inspected by (print)

Inspector signature

Inspector title

Inspector company

Maintenance**Maintenance Inspection Report**

Model
Serial number
Date
Work Hours
Machine owner
Inspected by (print)
Inspector signature
Inspector title
Inspector company
Instructions
• Make copies of this report to use for each inspection. • Select the appropriate checklist(s) for the type of inspection to be performed.
☐ Daily or 8 hours Inspection: A
☐ Quarterly or 250 hours Inspection: A+ B
☐ Semi-annually or 500 hours Inspection: A+B+C
☐ Annually or 1000 hours Inspection: A+B+C+D
☐ Two year or 2000 hours Inspection: A+B+C+D+E
• Place a check in the appropriate box after each inspection procedure is completed. • Use the step-by-step procedures in this section to learn how to perform these inspections. • If any inspection receives an "N", tag and remove the machine from service, repair and re-inspect it. After repair, place a check in the "R" box.
Legend
Y = yes, acceptable
N = no, remove from service
R = repaired

Checklist A	Y	N	R
A-1 Inspect the manuals and decals			
A-2 Pre-operation inspection			
A-3 Check the Battery			
A-4 Check the Hydraulic Oil Level			
A-5 Function tests			
Perform after 40 hours:			
A-6 30 day service			

Checklist B	Y	N	R
B-1 Battery			
B-2 Electrical wiring			
B-3 wheels			
B-4 Emergency stop			
B-5 Key switch			
B-6 Hydraulic oil analysis			
B-7 Tank venting system			
B-8 Slider components			
B-9 Test the down limit switch			
B-10 Test the up limit switch			

Checklist C	Y	N	R
C-1 Platform overload (if equipped)			
C-2 Breather cap - models with optional oil			

Checklist D	Y	N	R
D-1 Scissor arm wear pads			

Checklist E	Y	N	R
E-1 Hydraulic oil			

Maintenance

Checklist A Procedures

A-1

Inspect the Manuals and Decals

Maintaining the operator's manuals in good condition is essential to safe machine operation. Manuals are included with each machine and should be stored in the container provided in the platform. An illegible or missing manual will not provide safety and operational information necessary for a safe operating condition.

In addition, maintaining all of the safety and instructional decals in good condition is mandatory for safe machine operation. Decals alert operators and personnel to the many possible hazards associated with using this machine. They also provide users with operation and maintenance information. An illegible decal will fail to alert personnel of a procedure or hazard and could result in unsafe operating conditions.

- 1 Check to make sure that the manuals are present and complete in the storage container on the platform.
- 2 Examine the pages of manual to be sure that they are legible and in good condition.

☉ Result: The operator manual is appropriate for the machine and the manual are legible and in good condition.

☒ Result: The operators manual is not appropriate for the machine or the manual is not in good condition or is illegible. Remove the machine from service until the manual is replaced.

- 3 Open the operator manual to the decals inspection section. Carefully and thoroughly inspect all decals on the machine for legibility and damage.

☉ Result: The machine is equipped with all required decals, and all decals are legible and in good condition.

☒ Result: The machine is not equipped with all required decals, or one or more decals are illegible or in poor condition. Remove the machine from service until the decals are replaced.

- 4 Always return the manual to the storage container after use.

Note: Contact your authorized DINGLI distributor or DINGLI machinery if replacement manuals or decals are needed.

Maintenance

A-2

Perform Pre-operation Inspection

Completing a Pre-operation Inspection is essential to safe machine operation. The Pre-operation Inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests. The Pre-operation Inspection also serves to determine if routine maintenance procedures are required.

Complete information to perform this procedure is available in the appropriate operator manual. Refer to the Operator Manual on your machine.

A-3

Check the Battery



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

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

⚠ WARNING Bodily injury hazard. Battery contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

- 1 Put on protective clothing and eye wear.
- 2 Be sure that the battery cable connections are tight and free of corrosion.
- 3 Be sure that the battery hold-down bars are secure.
- 4 Remove the battery vent caps.
- 5 Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill.
- 6 Install the vent caps.

Maintenance

A-4

Check the Hydraulic Oil Level



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

NOTICE

Perform this procedure with the platform in the stowed position and the motor off

- 1 Remove the hydraulic oil dipstick (fill cap), wipe it clean and reinstall it.
- 2 Take the hydraulic oil dipstick out again, and check the oil level.
- 3 If the hydraulic oil level is too low and add new hydraulic oil to the prescribed level.

Hydraulic oil specifications

L-HV46

A-5

Perform Function Tests

Completing the function tests is essential to safe machine operation. Function tests are designed to discover any malfunctions before the machine is put into service. A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service.

Complete information to perform this procedure is available in the appropriate operator manual. Refer to the Operator Manual on your machine.

A-6**Perform 30 Day Service**

The 30 day maintenance procedure is a one time procedure to be performed after the first 30 days or 40 hours of usage. After this interval, refer to the maintenance tables for continued scheduled maintenance.

- 1 Perform the following maintenance procedures:

B-3 Inspect the Wheels

Maintenance

Checklist B Procedures

B-1

Inspect the Battery



DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

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

⚠ WARNING Electrocution / burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

⚠ WARNING Bodily injury hazard. Battery contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

- 1 Side out tray away from the chassis.
- 2 Be sure that the battery cable connections are free of corrosion.

Note: Adding terminal protectors and a corrosion preventative sealant will help eliminate corrosion on the battery terminals and cables.

- 3 Be sure that the battery retainers and cable connections are tight.
- 4 Fully charge the battery. Allow the battery to rest 24 hours before performing this procedure to allow the battery cells to equalize.
- 5 Put on protective clothing and eye wear.

Models without maintenance-free or sealed battery:

- 6 Remove the battery vent caps and check the specific gravity of each battery cell with a hydrometer. Note the results.
- 7 Check the ambient air temperature and adjust the specific gravity reading for each cell as follows:
 - Add 0.004 to the reading of each cell for every 5.5° C above 26.7° C.
 - Subtract 0.004 from the reading of each cell for every 5.5° C below 26.7° C.
- ⊙ Result: All battery cells display an adjusted specific gravity of 1.277 or higher. The battery is fully charged. Proceed to step 11.
- ⊖ Result: One or more battery cells display a specific gravity of 1.217 or below. Proceed to step 8.
- 8 Perform an equalizing charge OR fully charge the battery and allow the battery to rest at least 6 hours.
- 9 Remove the battery vent caps and check the specific gravity of each battery cell with a hydrometer. Note the results.
- 10 Check the ambient air temperature and adjust the specific gravity reading for each cell as follows:
 - Add 0.004 to the reading of each cell for every 5.5° C above 26.7° C.
 - Subtract 0.004 from the reading of each cell for every 5.5° C below 26.7° C.
- ⊙ Result: All battery cells display a specific gravity of 1.277 or greater. The battery is fully charged. Proceed to step 11.

Maintenance

☐ Result: The difference in specific gravity readings between cells is greater than 0.1 OR the specific gravity of one or more cells is less than 1.177. Replace the battery.

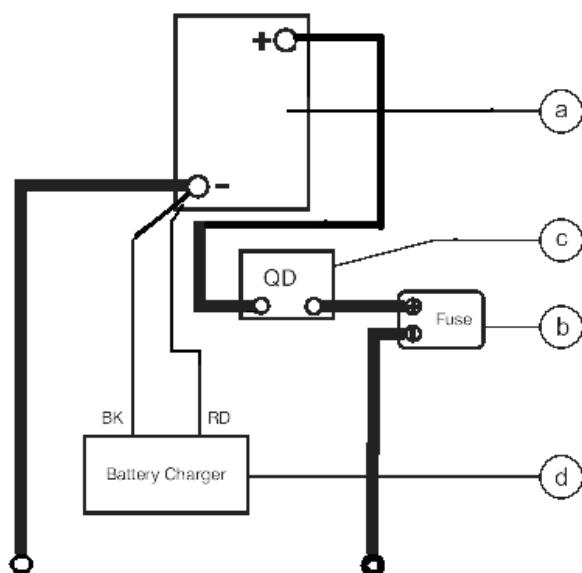
11 Check the battery acid level. If needed, replenish with distilled water to 3 mm below the bottom of the battery fill tube. Do not overfill.

12 Install the vent caps and neutralize any electrolyte that may have spilled.

☐ Result: If, simultaneously, the charger alarm sounds and the LEDs blink, correct the charger connections at the fuse and battery. The charger will then operate correctly and begin charging the battery.

Note: For best results, use an extension of adequate size with a length no longer than 15m.

Note: If you have any further questions regarding the battery charger operation, please contact the DINGLI Service Department.



- a battery
- b 100A fuse
- c quick disconnect
- d battery charger

All models:

13 Check battery pack and verify that the battery is wired correctly.

14 Inspect the battery charger plug and pigtail for damage or excessive insulation wear. Replace as required.

15 Connect the battery charger to a properly grounded 110 - 230V / 50 - 60 Hz single phase AC power supply.

☉ Result: The charger should operate and begin charging the battery

Maintenance

B-2

Inspect the Electrical Wiring



DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

Maintaining electrical wiring in good condition is essential to safe operation and good machine performance. Failure to find and replace burnt, chafed, corroded or pinched wires could result in unsafe operating conditions and may cause component damage.

⚠ WARNING Electrocution / burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

- 1 Inspect the underside of the chassis for damaged or missing ground strap(s).
- 2 Inspect the following areas for burnt, chafed, corroded and loose wires:
 - Ground control panel
 - Scissor arms
 - Platform controls
- 3 Inspect for a liberal coating of dielectric grease in the following locations:
 - Between the electronic components in tray and platform controls
- 4 Turn the key switch to ground control and pull out the red Emergency Stop button to the on position at both the ground and platform controls.
- 5 Raise the platform approximately 1.5 m from the ground.
- 6 Rotate the safety arm away from the machine and let it hang down.
- 7 Lower the platform onto the safety arm.

⚠ WARNING Crushing hazard. Keep hands clear of the safety arm when lowering the platform.

- 8 Inspect the following areas for burnt, chafed, corroded, pinched and loose wires:
 - Scissor arms
 - Chassis to platform controls
 - Power to platform wiring
- 9 Inspect for a liberal coating of dielectric grease in all connections between the electronic components in tray and the platform controls.
- 10 Raise the platform and return the safety arm to the stowed position.
- 11 Lower the platform to the stowed position and turn the machine off.

Maintenance

B-3

Inspect the Wheels



DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

Maintaining the wheels in good condition is essential to safe operation and good performance. Wheel failure could result in a machine tip-over. Component damage may also result if problems are not discovered and repaired in a timely fashion.

- 1 Check each wheel for damage, bends and cracks.
- 2 Lubricate castor mounts.

B-4

Test the Emergency Stop

DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

A properly functioning Emergency Stop is essential for safe machine operation. An improperly operating red Emergency Stop button will fail to shut off power and stop all machine functions, resulting in a hazardous situation.

As a safety feature, selecting and operating the ground controls will override the platform controls, except the platform red Emergency Stop button.

- 1 Turn the key switch to ground control and pull out the red Emergency Stop button to the on position at both the ground and platform controls.
 - 2 Push in the red Emergency Stop button at the ground controls to the off position.
- ⊙ Result: No machine functions should operate.
- 3 Turn the key switch to platform control and pull out the red Emergency Stop button to the on position at both the ground and platform controls.
 - 4 Push down the red Emergency Stop button at the platform controls to the off position.
- ⊙ Result: No machine functions should operate.

Note: The red Emergency Stop button at the ground controls will stop all machine operation, even if the key switch is switched to platform control.

Maintenance

B-5

Test the Key Switch

DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

Proper key switch action and response is essential to safe machine operation. The machine can be operated from the ground or platform controls and the activation of one or the other is accomplished with the key switch. Failure of the key switch to activate the appropriate control panel could cause a hazardous operating situation.

Perform this procedure from the ground using the platform controls. Do not stand in the platform.

- 1 Pull out the red Emergency Stop button to the on position at both the ground and platform controls.
- 2 Turn the key switch to platform control.
- 3 Check the platform up/down function from the ground controls.
- ⊙ Result: The machine functions should not operate.
- 4 Turn the key switch to ground control.
- 5 Check the machine functions from the platform controls.
- ⊙ Result: The machine functions should not operate.
- 6 Turn the key switch to the off position.
- ⊙ Result: No function should operate.

B-6

Perform Hydraulic Oil Analysis



DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

Replacement or testing of the hydraulic oil is essential for good machine performance and service life. Dirty oil may cause the machine to perform poorly and continued use may cause component damage. Extremely dirty conditions may require oil changes to be performed more often.

Before replacing the hydraulic oil, the oil may be tested by an oil distributor for specific levels of contamination to verify that changing the oil is necessary.

If the hydraulic oil is not replaced at the two year inspection, test the oil quarterly. Replace the oil when it fails the test. See E-1, Test or Replace the Hydraulic Oil.

Maintenance

B-7

Inspect the Hydraulic Tank Cap Venting System



DINGLI requires that this procedure be performed quarterly or every 250 hours, whichever comes first. Perform this procedure more often if dusty conditions exist.

A free-breathing hydraulic tank cap is essential for good machine performance and service life. A dirty or clogged cap may cause the machine to perform poorly. Extremely dirty conditions may require that the cap be inspected more often.

- 1 Remove the breather cap from the hydraulic tank.
 - 2 Check for proper venting.
- ☉ Result: Air passes through the breather cap.
- ☒ Result: If air does not pass through the cap, clean or replace the cap. Proceed to step 3.

Note: When checking for positive tank cap venting, air should pass freely through the cap.

- 3 Using a mild solvent, carefully wash the cap venting system. Dry using low pressure compressed air. Repeat step 2.
- 4 Install the breather cap onto the hydraulic tank.

B-8

Check the Module Tray slider Components



DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

Maintaining the module tray slider components in good condition is essential to good performance and service life. Failure to detect worn out slider components may result in module trays opening unexpectedly, creating an unsafe operating condition.

- 1 Inspect the module tray slider and related components for wear. Tighten any loose fasteners.
- 2 Lubricate each module tray slider. Using light oil, apply a few drops to each of the slider and to the ball of the roll mechanism.

Maintenance

B-9

Test the Down Limit Switch



DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

Maintaining the limit switches is essential to safe operation and good machine performance. Operating the machine with a faulty limit switch could result in reduced machine performance and a potentially unsafe operating condition.

Perform these procedures with the machine on a firm, level surface that is free of obstructions.

- 1 Turn the key switch to ground control and raise the platform approximately 1.5 m from the ground.
- 2 Move down and hold the platform up/down switch to lower platform.
- ☉ Result: The platform should lower then stop at for 5 seconds. The machine is functioning properly.
- ☒ Result: The Platform should lower to the stowed position. Replace the down limit switch.
- 3 Lower the platform to the stowed position.

B-10

Test the Up Limit Switch



DINGLI requires that this procedure be performed every 250 hours or quarterly, whichever comes first.

Maintaining the limit switches is essential to safe operation and good machine performance.

Operating the machine with a faulty limit switch could result in reduced machine performance and a potentially unsafe operating condition.

Perform these procedures with the machine on a firm, level surface that is free of obstructions.

- 1 Turn the key switch to ground control and raise the platform approximately 1.5 m from the ground.
- 2 Lift the safety arm, move it to the center of the scissor arm and rotate the safety arm away from the machine and let it hang down.
- 3 Lower the platform onto the safety arm.
- ⚠ WARNING** Crushing hazard. Keep hands clear of the safety arm when lowering the platform.
- 4 While raising the platform from the ground controls, push the arm of the up limit switch towards the scissor fixed end of the machine to activate the limit switch.

☉ Result: The platform stops raising. The machine is functioning properly.

☒ Result: The platform continues to raise. Adjust or replace the up limit switch.

- 5 Raise the platform and return the safety arm to the stowed position.
- 6 Lower the platform to the stowed position.

Checklist C Procedures

C-1

Test the Platform Overload System (if equipped)

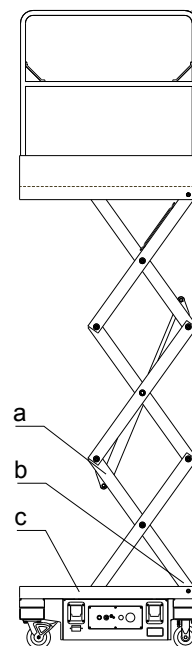


DINGLI require that this procedure be performed every 500 hours or six months, whichever comes first OR when the machine fails to lift the maximum rated load.

Testing the platform overload system regularly is essential to safe machine operation. Continued use of an improperly operating platform overload system could result in the system not sensing an overloaded platform condition. Machine stability could be compromised resulting in the machine tipping over.

The platform overload system is designed to prevent machine operation in the event the platform is overloaded. Models equipped with the platform overload option are provided with two additional machine control components: the overload pressure switch and a tilt sensor.

The overload pressure switch, which is adjustable and located at the barrel-end of the lift cylinder, is used to determine when the hydraulic lift cylinder requires too much pressure to support the load inside the platform. When this occurs, the pressure switch will send a signal to the electric control unit which will not allow the machine to function until the extra weight is removed from the platform.



- a overload pressure switch
- b tilt sensor
- c up limit switch

- 1 Turn the key switch to ground control and raise the platform approximately 1.5 m from the ground.
- 2 Lift the safety arm, move it to the center of the scissor arm and rotate the safety arm away from the machine and let it hang down.
- 3 Lower the platform onto the safety arm.

⚠ WARNING Crushing hazard. Keep hands clear of the safety arm when lowering the platform.

- 4 Loosen the screw of the up limited switch. Remove the up limited switch from the guide track.

Maintenance

- 5 Fully raise the platform. Release the toggle switch.

☉ Result: The alarm should sound.

☒ Result: The alarm does not sound.
Calibrate the platform overload system.

- 6 Lower the platform onto the safety arm.

⚠ WARNING Crushing hazard. Keep hands clear of the safety arm when lowering the platform.

- 7 Install the up limited switch.
- 8 Raise the platform and return the safety arm to the stowed position.
- 9 Fully raise the platform. Release the toggle switch.

☉ Result: The alarm should not sound. The system is functioning correctly.

☒ Result: The alarm sounds. The system is not functioning correctly. Troubleshoot the limit switch, limit switch wire harness or limit switch mount bracket OR the platform overload system needs to be calibrated.

- 10 Lower the platform to the stowed position.

C-2

Replace the Hydraulic Tank Breather Cap



DINGLI requires that this procedure be performed every 500 hours or semi-annually, whichever comes first.

The hydraulic tank is a vented-type tank. The breather cap has an internal air filter that can become clogged or, over time, can deteriorate. If the breather cap is faulty or improperly installed, impurities can enter the hydraulic system which may cause component damage. Extremely dirty conditions may require that the cap be inspected more often.

- 1 Remove and discard the hydraulic tank breather cap.
- 2 Install a new cap onto the tank.

Checklist D Procedures**D-1****Check the Scissor Arm Wear Pads**

DINGLI requires that this procedure be performed every 1000 hours or annually, whichever comes first.

Maintaining the condition of the scissor arm wear pads is essential to safe machine operation. Continued use of worn out wear pads may result in component damage and unsafe operating conditions.

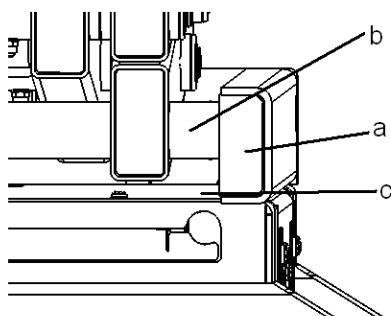
Perform this procedure with the platform in the stowed position.

- 1 Measure the distance between the number one inner arm cross tube and the chassis deck at the ground controls side of the non-steer end of the machine.

Refer to illustration below.

- ⊙ Result: The measurement is 27 mm or more. Proceed to step 2.

- ⊗ Result: The measurement is less than 27 mm. Replace both wear pads.



- a wear pad
- b out arm cross tube
- c chassis deck

- 2 Measure the distance between the number one inner arm cross tube and the chassis deck at the battery pack side of the non-steer end of the machine.

Refer to illustration below.

- ⊙ Result: The measurement is 27 mm or more. Proceed to step 3.

- ⊗ Result: The measurement is less than 27 mm. Replace both wear pads.

- 3 Apply a thin layer of dry film lubricant to the area of the chassis where the scissor arm wear pads make contact.

Maintenance

Checklist E Procedure

E-1

Test or Replace the Hydraulic Oil



DINGLI requires that this procedure be performed every 2000 hours or every two years, whichever comes first.

Replacement or testing of the hydraulic oil is essential for good machine performance and service life. Dirty oil may cause the machine to perform poorly and continued use may cause component damage. Extremely dirty conditions may require oil changes to be performed more often.

Before replacing the hydraulic oil, the oil may be tested by an oil distributor for specific levels of contamination to verify that changing the oil is necessary.

If the hydraulic oil is not replaced at the two year inspection, test the oil quarterly. Replace the oil when it fails the test.

Note: Perform this procedure with the platform in the stowed position.

- 1 Slide out the tray.
- 2 Disconnect the battery pack from the machine.
- ⚠ WARNING** Electrocutation / burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.
- 3 Tag and disconnect the hydraulic pump outlet line and remove the line from the pump. Cap the fitting on the pump.
- 4 Tag and disconnect the electric wires from the motor.
- 5 Loose the bolt and remove the hydraulic power pack form the tray.
- 6 Loose and remove the bolts and separate the tank from the pump body.

- 7 Drain all of the oil into a suitable container.

⚠ WARNING Bodily injury hazard. Spraying hydraulic oil can penetrate and burn skin. Loosen hydraulic connections very slowly to allow the oil pressure to dissipate gradually. Do not allow oil to squirt or spray.

- 8 Clean up any oil that may have spilled. Properly discard the used oil.
- 9 Clean the inside of the hydraulic tank using a mild solvent. Allow the tank to dry completely.
- 10 Install the hydraulic tank and install and tighten the hydraulic tank retaining fasteners. Torque to specification.

Torque specifications

Hydraulic tank retaining fasteners, dry	4Nm
Hydraulic tank drain plug, lubricated	2.9Nm

- 11 Install the hydraulic power pack into the tray. Install the fitting and hydraulic hoses onto the hydraulic power pack and torque.
- 12 Install the electric wires to pump motor.
- 13 Fill the tank with hydraulic oil until the fluid is full in the hydraulic tank. Do not overfill.
- 14 Activate the pump to fill the hydraulic system with oil and bleed the system of air.

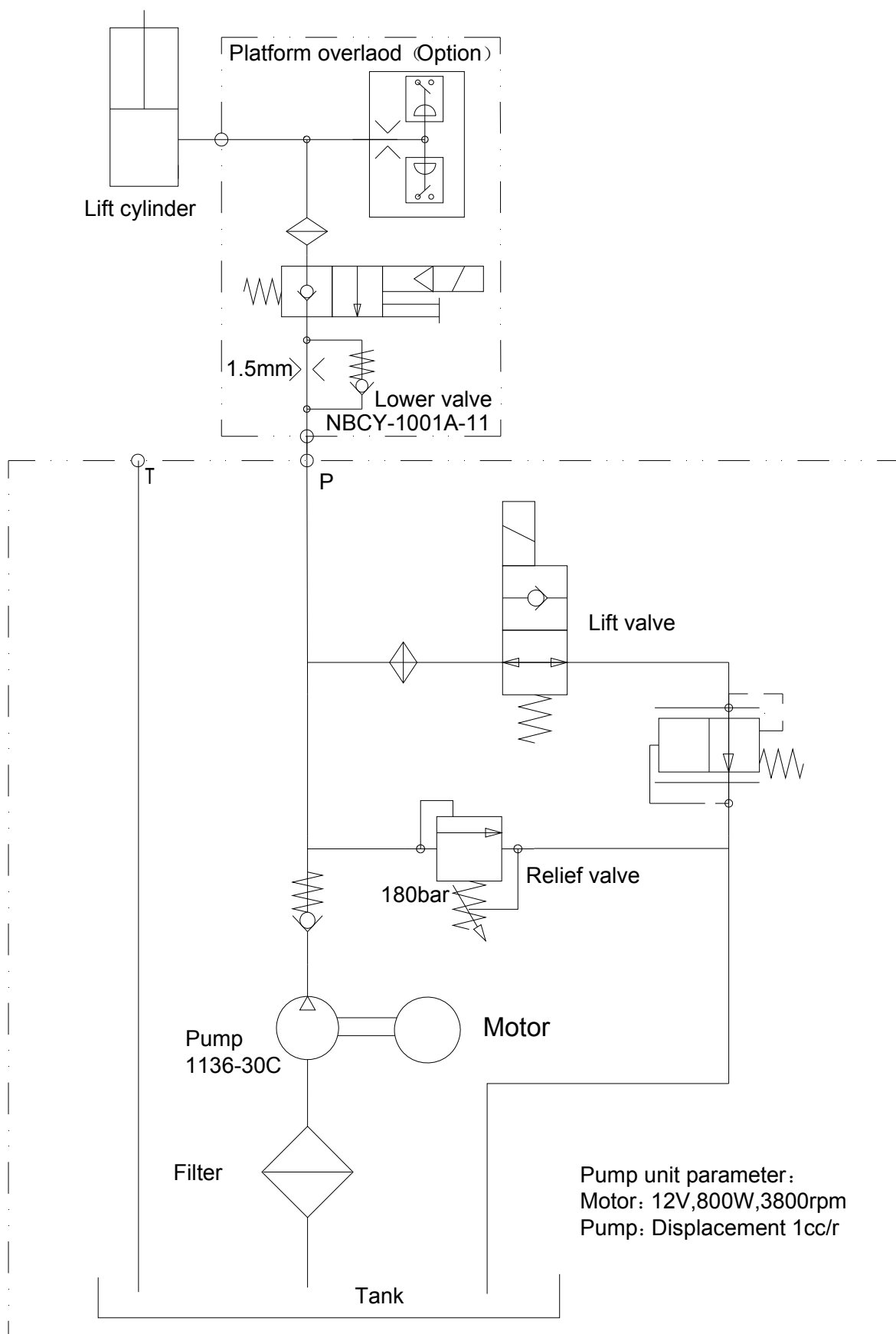
⚠ WARNING Component damage hazard. The pump can be damaged if operated without oil. Be careful not to empty the hydraulic tank while in the process of filling the hydraulic system. Do not allow the pump to cavitate.

Maintenance**Trouble shooting**

Problem	Cause	Repair
Platform does not raise (motor not running)	1. Faulty wiring.	1. Check the wiring referring to the electrical schematic.
	2. Battery is disconnected.	2. Reconnect the battery.
	3. Battery charge is insufficient.	3. Charge the battery.
Platform does not raise (motor running)	1. Faulty adjustment of relief valve.	1. Adjust relief valve.
	2. Faulty hydraulic pump.	2. Replace power pack.
	3. Insufficient hydraulic oil.	3. Add hydraulic oil.
Platform creeps (uncontrolled lowering)	1. Oil leakage in power pack.	1. Replace lowering valve.
	2. Oil leakage from hydraulic circuit.	2. Check hydraulic circuit and repair.
Oil leakage from cylinder.	Faulty sealing.	Replace sealing.
Oil leakage from piping or joint.	Insufficient tightening or seal in valid.	Tighten joint again or replace seal.
Oil leakage from air breather.	Excessive quantity of oil.	Reduce oil quantity.

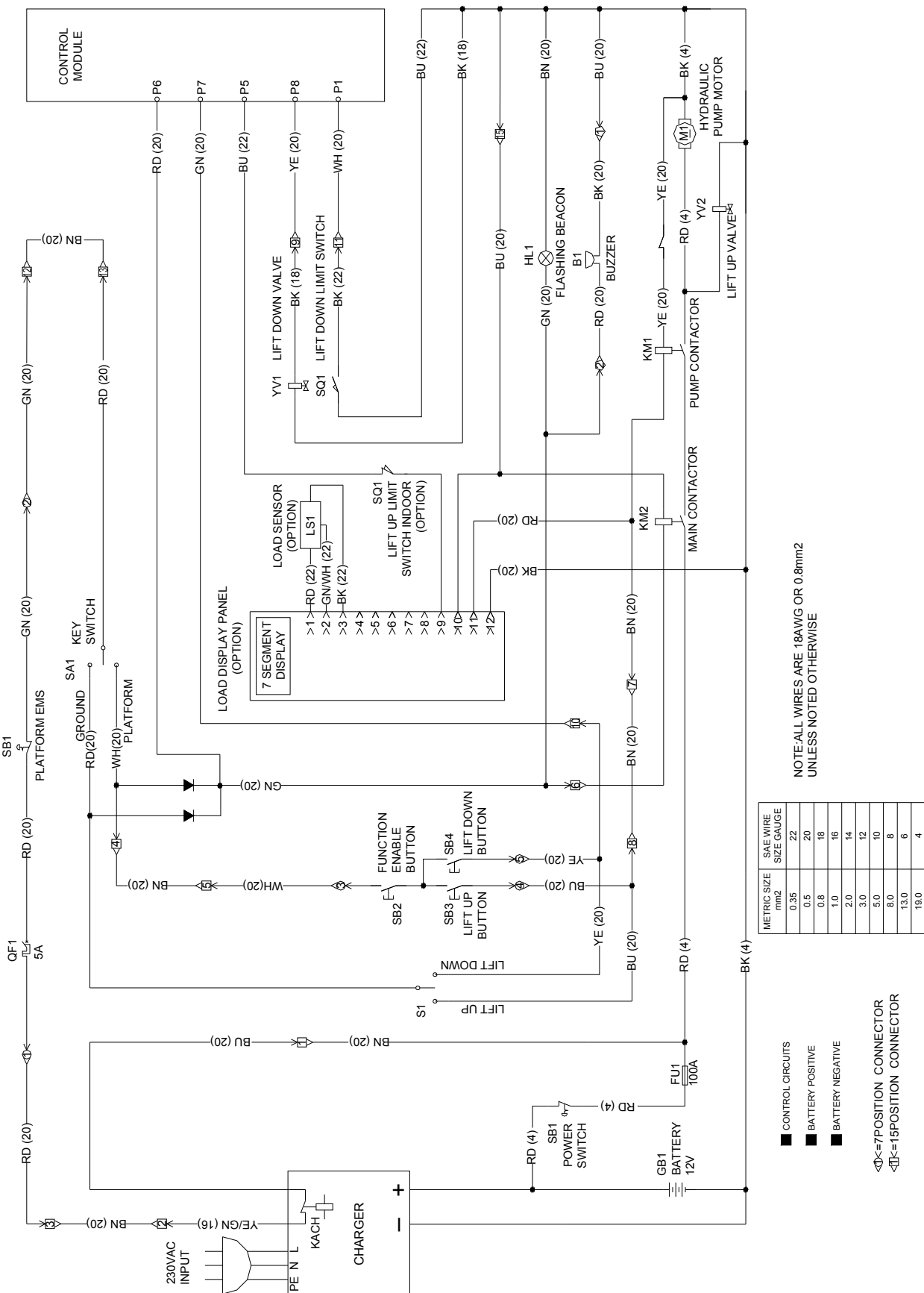
Schematic

Hydraulic Schematic



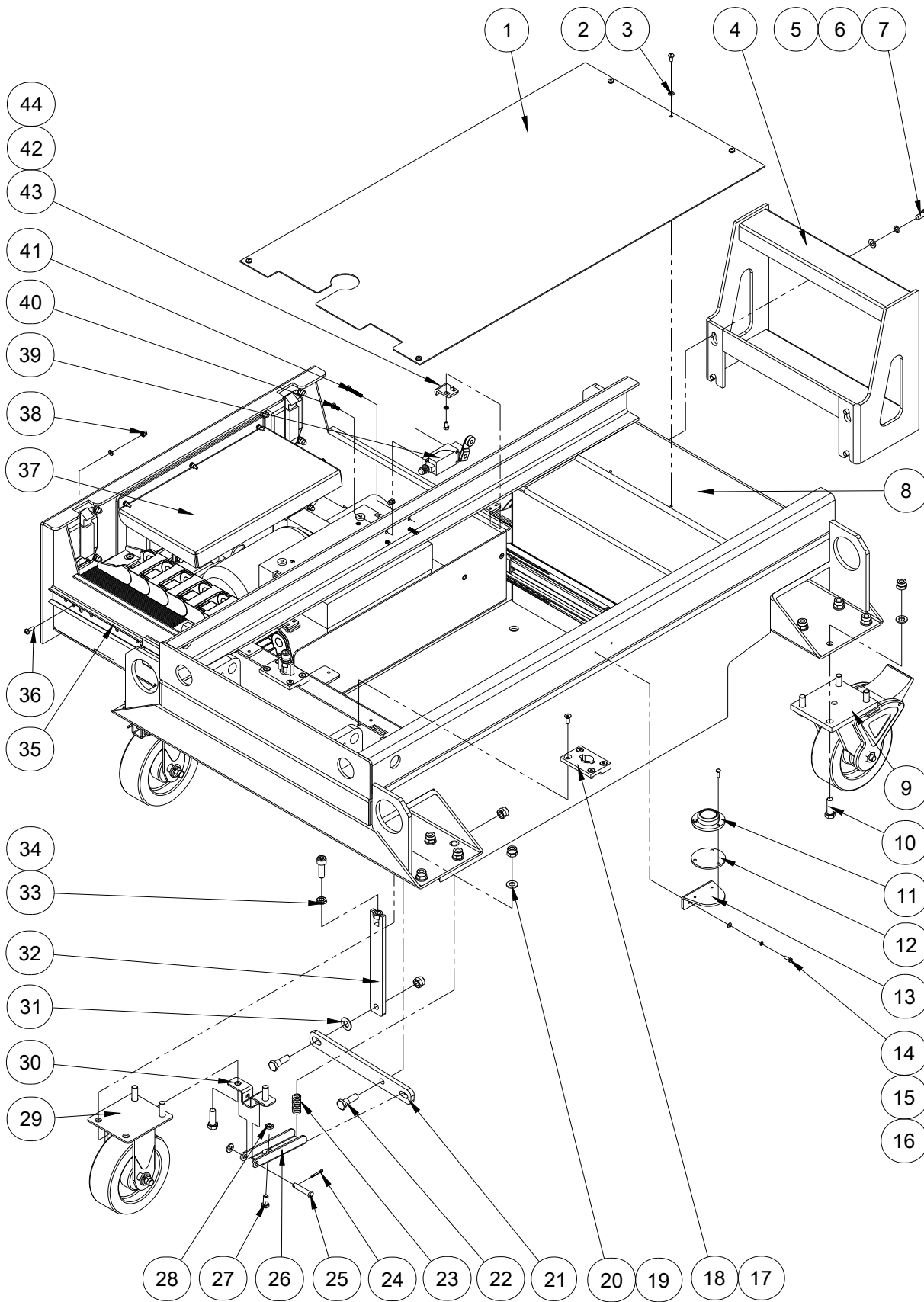
Electrical Schematic

Schematic



Parts List

Chassis



Parts List

Chassis

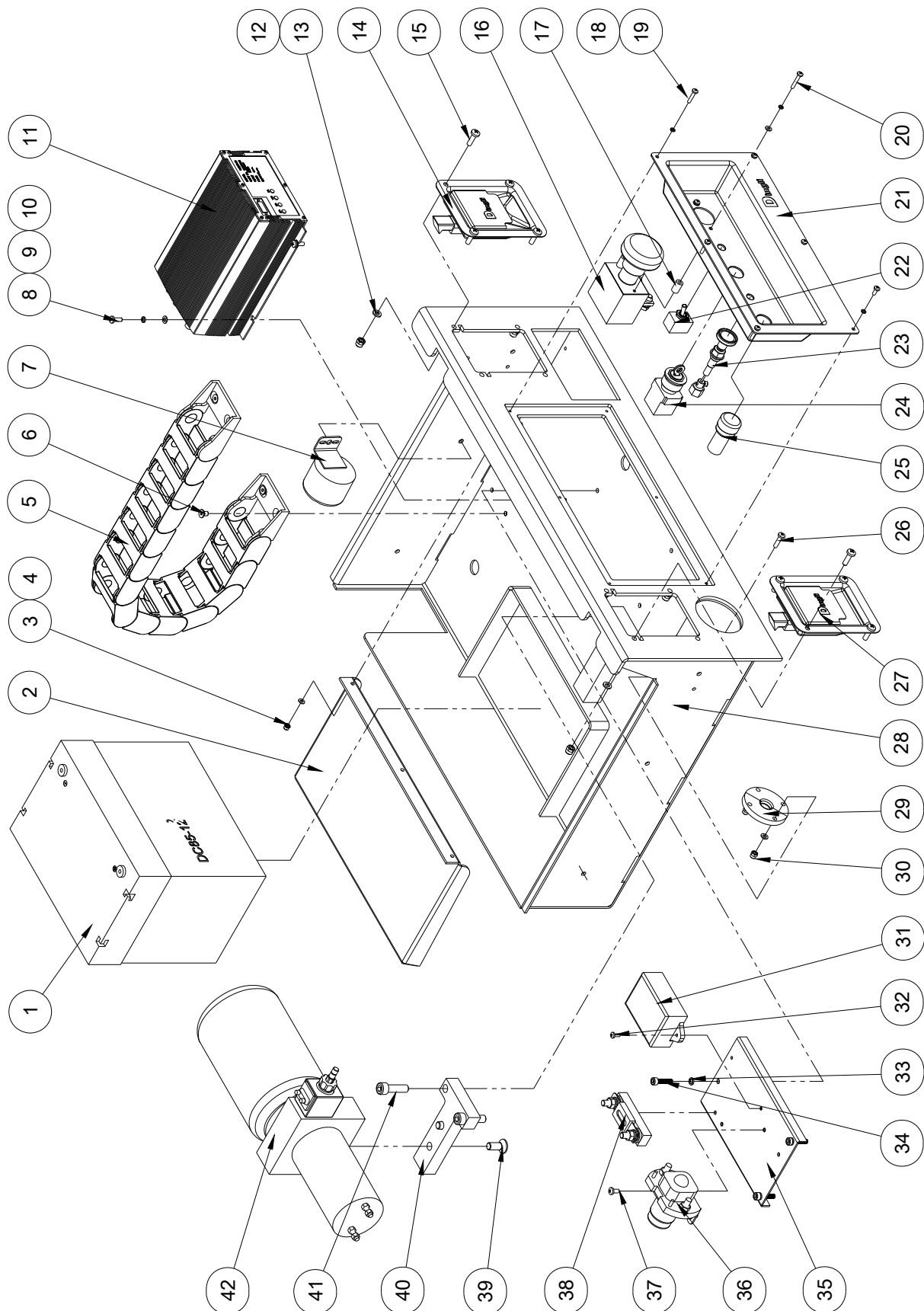
Item	Part Number	Description	Qty.	Remark
1	JCPT0607-103001	Cover plate	1	
2	GB/T 97.1-2002	Washer 5	21	
3	GB/T 818-2000	Screw M5×100-H	5	
4	JCPT0607-171000	Ladder	1	
5	GB/T 5783-2000	Bolt M8×16	4	
6	GB/T 93-1987	Spring washer 8	4	
7	GB/T 97.1-2002	Washer 8	4	
8	JCPT0607-112000	Chassis weldment	1	
9	Colson 6"	Wheel	2	
10	GB/T 5783-2000	Bolt M10×30	16	
11	JCPT5007M-00002	Bubble level	1	
12	JCPT5007M-00001	Bubble level mat	1	
13	JCPT0607-100016	Bubble level seat	1	
14	GB/T 5783-2000	Bolt M4×12	5	
15	GB/T 93-1987	Spring washer 4	2	
16	GB/T 97.1-2002	Washer 4	2	
17	JCPT5007M-105003	Guide block	2	
18	GB/T 70.3-2000	Screw M6×16	8	
19	JCPT5007M-105103	Pin	4	
20	GB/T 97.1-2002	Washer 10	18	
21	GB/T 6182-2000	Nut M10	20	
22	JCPT0607-105001	Swing rod	2	
23	JCPT5007M-100041	Spring	2	
24	GB/T 91-2000	Pin 3.2×18	2	
25	GB/T 882-1986	Pin 8×40	2	
26	JCPT5007M-100030	Brake plate	2	
27	JCPT5007M-100510	Pin	2	
28	GB/T 6172.1-2000	Nut M8	2	
29	Colson 6"	Wheel	2	

Parts List**Chassis**

Item	Part Number	Description	Qty.	Remark
30	JCPT5007M-100015	Brake seat	2	
31	8832-12	Bearing CSB-50WC12	2	
32	JCPT0607-161101	Press rod	2	
33	GB/T 6172.1-2000	Nut M10	2	
34	GB/T 70.1-2000	Screw M10×30	2	
35	7602-22"	Glide track	2	
36	GB/T 818-2000	Screw M5×16-H	12	
37	JCPT0607-122000	Battery box assembly	1	
38	GB/T 6182-2000	Nut M5	12	
39	6909-0701200-01	Travel switch AZ8104	1	
40	GB/T 818-2000	Screw M5×12-H	2	
41	GB/T 818-2000	Screw M5×30-H	2	
42	JCPT5007M-100013	Lock	2	
43	GB/T 93-1987	Spring washer 5	4	
44	GB/T 5783-2000	Bolt M5×10	4	

Parts List

Battery Box Assembly



Parts List**Battery Box Assembly**

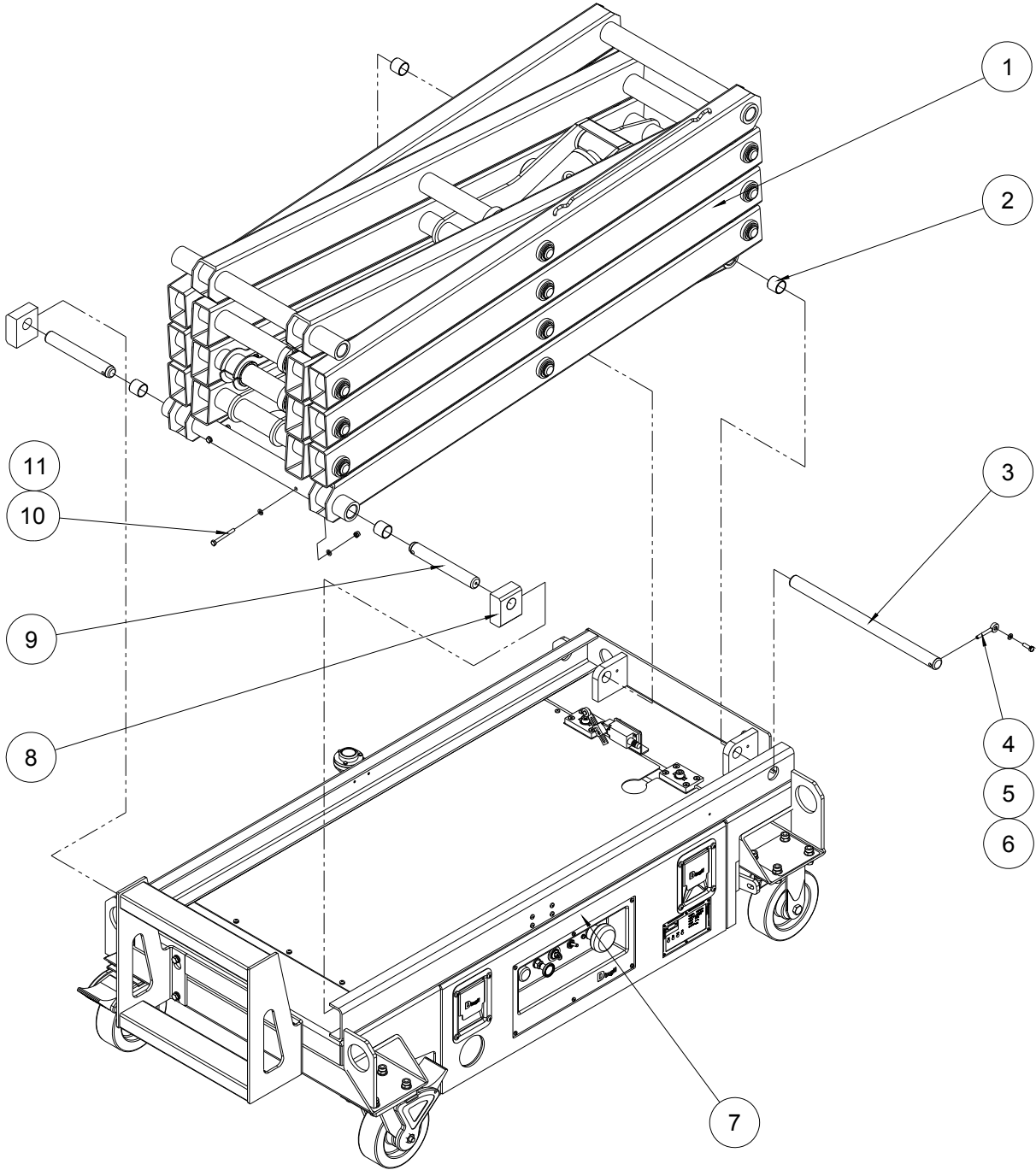
Item	Part Number	Description	Qty.	Remark
1	6901-0312085-01	Battery DC85-12	1	
2	JCPT0607-710102	Ground control cover	1	Option
3	GB/T 889.1-2000	Nut M4	3	
4	GB/T 97.1-2002	Washer 4	5	
5	72.5x46-13	Towline	1	
6	GB/T 70.3-2000	Screw M6×10	4	
7	6915-0102000-02	Alarm	1	
8	GB/T 818-2000	Screw M5×14-H	4	
9	GB/T 93-1987	Spring washer 5	4	
10	GB/T 97.1-2002	Washer 5	8	
11	6901-0141215-01	Charger	1	
12	GB/T 6182-2000	Nut M6	8	
13	GB/T 97.1-2002	Washer 6	8	
14	JCPT0630-12012A	Lock	1	
15	GB/T 818-2000	Screw M6×20-H	8	
16	6909-0500260-01	Power switch	1	
17	JCPT0607-710101	Bushing	2	
18	GB/T 818-2000	Screw M4×20-H	3	
19	GB/T 93-1987	Spring washer 4	8	
20	GB/T 818-2000	Screw M4×25-H	2	
21	JCPT0607-710102	Ground control plate	1	
22	6901-0100322-02	Up-Down switch	1	
23	JCPT5007M-100100	Emergency down cable assembly	1	
24	6909-0400132-01	Key switch	1	
25	6914-0300824-01	Indicator light	1	
26	GB/T 818-2000	Screw M5×20-H	4	
27	JCPT0630-12012	Lock	1	
28	JCPT0607-122100	Battery box weldment	1	
29	JCPT1212HD-121003	Half-round batten	2	

Parts List

Battery Box Assembly

Item	Part Number	Description	Qty.	Remark
30	GB/T 6182-2000	Nut M5	4	
31	6906-5102100-01	Fuse 100A	1	
32	GB/T 70.1-2000	Screw M6×25	3	
33	GB/T 93-1987	Spring washer 6	3	
34	6904-5090005-01	Modular	1	
35	JCPT5007M-110013	Seat Plate	1	
36	6906-0302200-01	DC contactor	1	
37	GB/T 818-2000	Screw M5×10-H	2	
38	GB/T 818-2000	Screw M4×10-H	5	
39	GB/T 70.3-2000	Screw M10×25	2	
40	JCPT0607-122001	Fix panel	1	
41	GB/T 70.1-2000	Screw M10×35	2	
42	1136-30A	Hydraulic power unit	1	
--	MD12080AE	Motor	1	
--	CBU-F1075	Pump	1	
--	SCV(E)-M012DC	Solenoid valve	1	
--	2L-TS1136-04-H	Tank	1	

Scissor and Chassis Installations

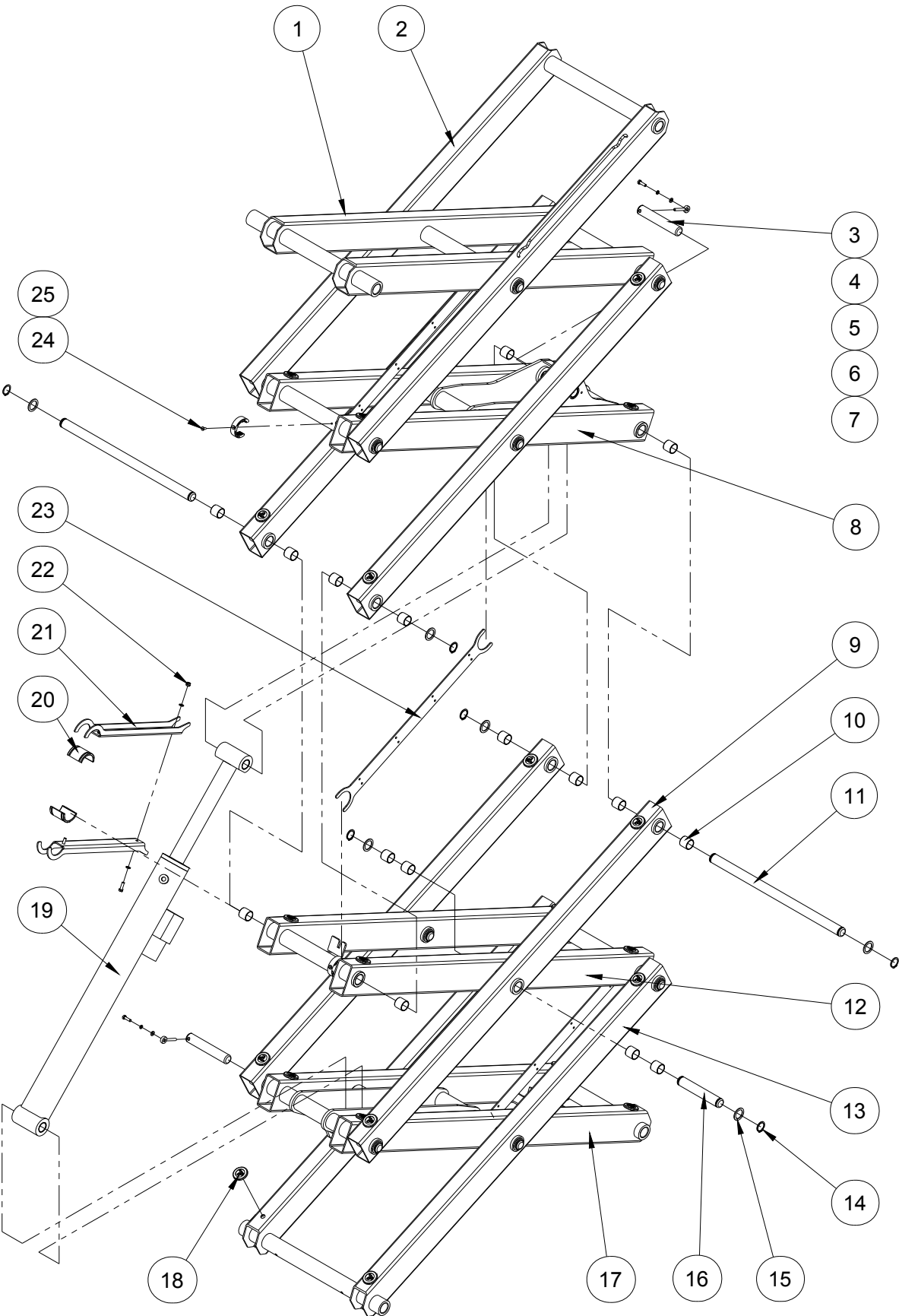


Parts List

Scissor and Chassis Installations

Item	Part Number	Description	Qty.	Remark
1	JCPT0607-310000	Scissor assembly	1	
2	8812-252825	Bearing	4	
3	JCPT0607-310001	Pin	1	
4	8902-06050	Pin	1	
5	GB/T 5783-2000	Bolt M6×20	1	
6	GB/T 97.1-2002	Washer6	5	
7	JCPT0607-103000	Chassis assembly	1	
8	JCPT0607DCS-310004	Bottom slider	2	
9	JCPT0607DCS-310006	Pin	2	
10	GB/T 5782-2000	Bolt M6×55	2	
11	GB/T 889.1-2000	Nut M6	2	

Scissor Assembly



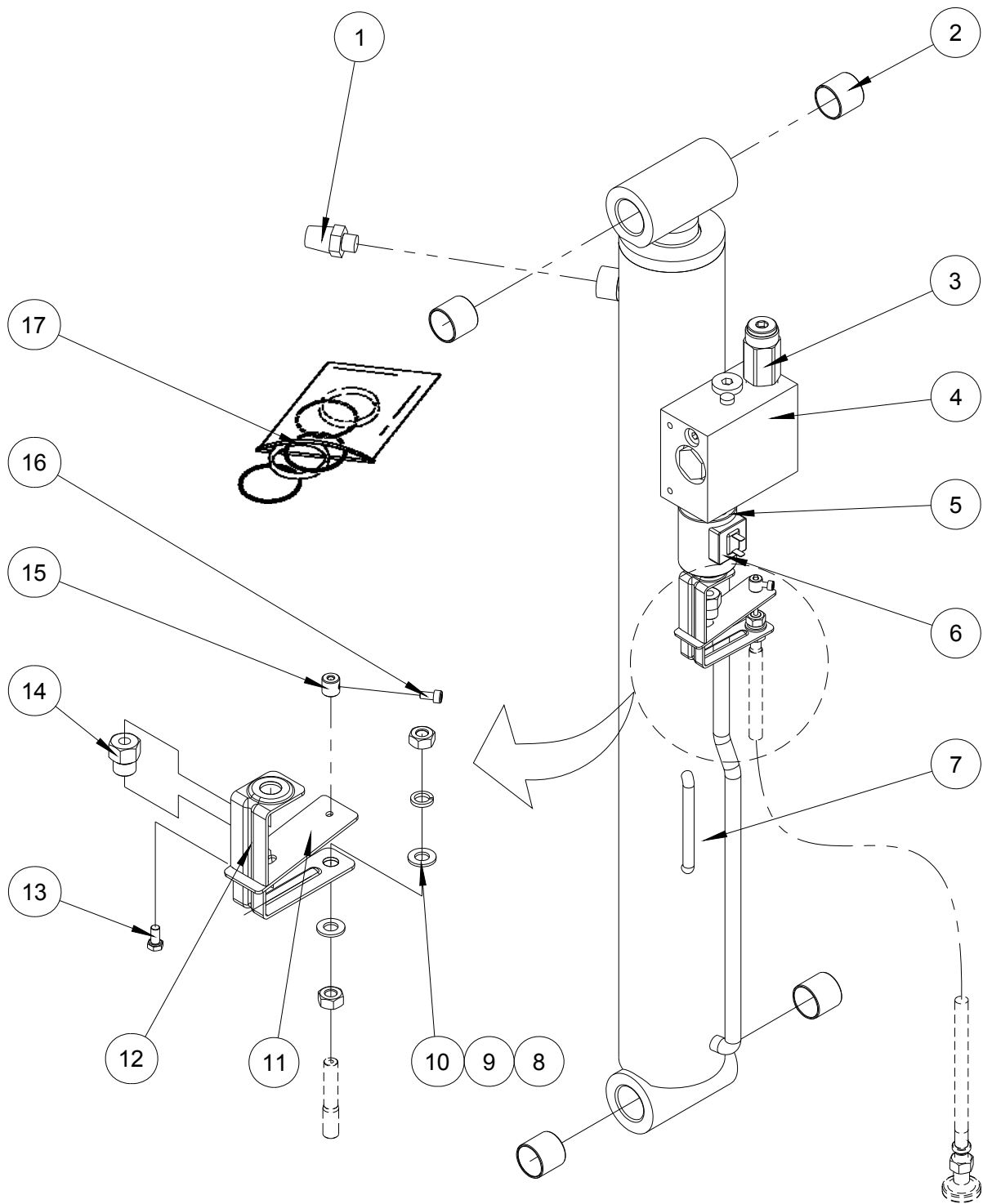
Parts List

Scissor Assembly

Item	Part Number	Description	Qty.	Remark
1	JCPT0607DCS-337100	Inner arm 4	1	
2	JCPT0607DCS-336100	Outer arm 3	1	
3	JCPT0607DCS-310001	Cylinder axle	2	
4	8902-06050	Pin 6×50	2	
5	GB/T 97.1-2002	Washer 6	6	
6	GB/T 93-1987	Spring washer 6	2	
7	GB/T 5783-2000	Bolt M6×20	4	
8	JCPT0607DCS-335100	Inner arm 3	1	
9	JCPT0607DCS-314100	Outer arm 2	4	
10	8812-252825	Bearing CSB-50 2525	62	
11	JCPT0607DCS-330001	Axle	9	
12	JCPT0607DCS-313100	Inner arm 2	1	
13	JCPT0607DCS-312100	Outer arm 1	1	
14	GB/T 894.2-1986	Circlips for shaft D25	18	
15	JCPT0607DCS-310010	Circle	18	
16	JCPT0607DCS-310005	Axle	2	
17	JCPT0607DCS-331100	Inner arm 1	1	
18	JCPT1212HD-310038	Block	24	
19	JCPT0607-532100	Cylinder assembly	1	
20	JCPT0607DCS-310009	Safety holder	2	
21	JCPT0607DCS-310008	Safety arm	2	
22	GB/T 889.1-2000	Nut M6	2	
23	JCPT0607DCS-310002	Through line bridge	3	
24	JCPT0607DCS-330005	Uncork washer	6	
25	GB/T 70.3-2000	Screw M5×12	6	

Parts List

Hydraulic Cylinder Assembly

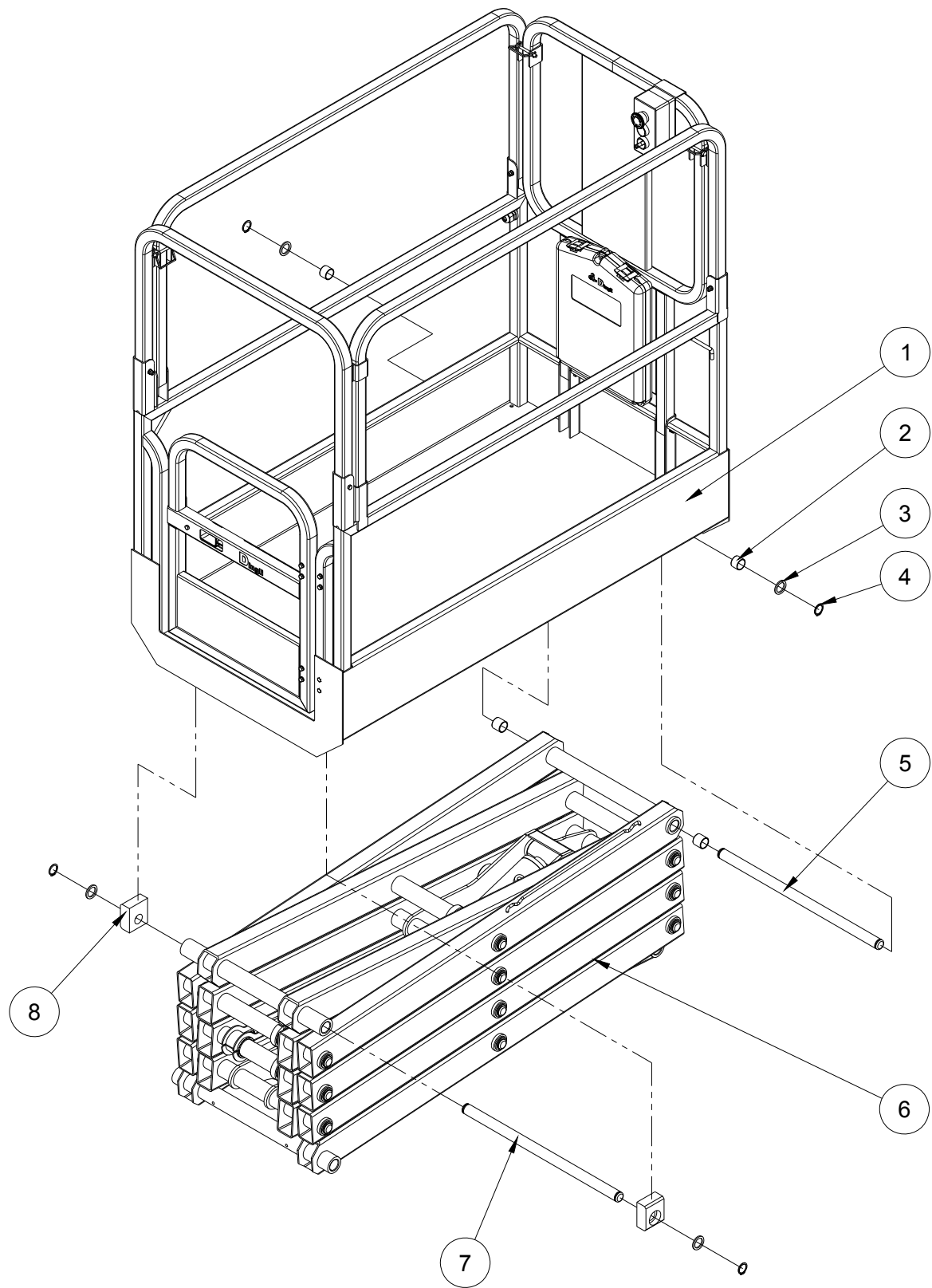


Parts List

Hydraulic Cylinder Assembly

Item	Part Number	Description	Qty.	Remark
1	BSL-G12(G1 1/4)	Muffle	1	
2	8812-252825	Bearing	4	
3	6905-0501250-01	Pressure sensor	1	
4	NBCY-1001A-11	Valve manifolds	1	
5	SV38-20J	Lowering valve	1	
6	63510201613	Coil	1	
7	JCPT0607-532100	Lift cylinder	1	
8	GB/T 6170-2000	Nut M8	2	
9	GB/T 93-1987	Spring washer 8	1	
10	GB/T 97.1-2002	Washer 8	2	
11	DYT2-3.7SW-103304	Support	1	
12	DYT2-3.7SW-103305	Support	1	
13	GB/T 5781-2000	Bolt M5×10	1	
14	DYT2-3.7SW-103301	Guide sleeve	1	
15	DYT2-3.7SW-103306	Cap	1	
16	GB/T 70.1-2000	Screw M4×8	1	
17	JCPT0607DCS-531000-1	Seal kit	1	

Platform and Scissor Installations



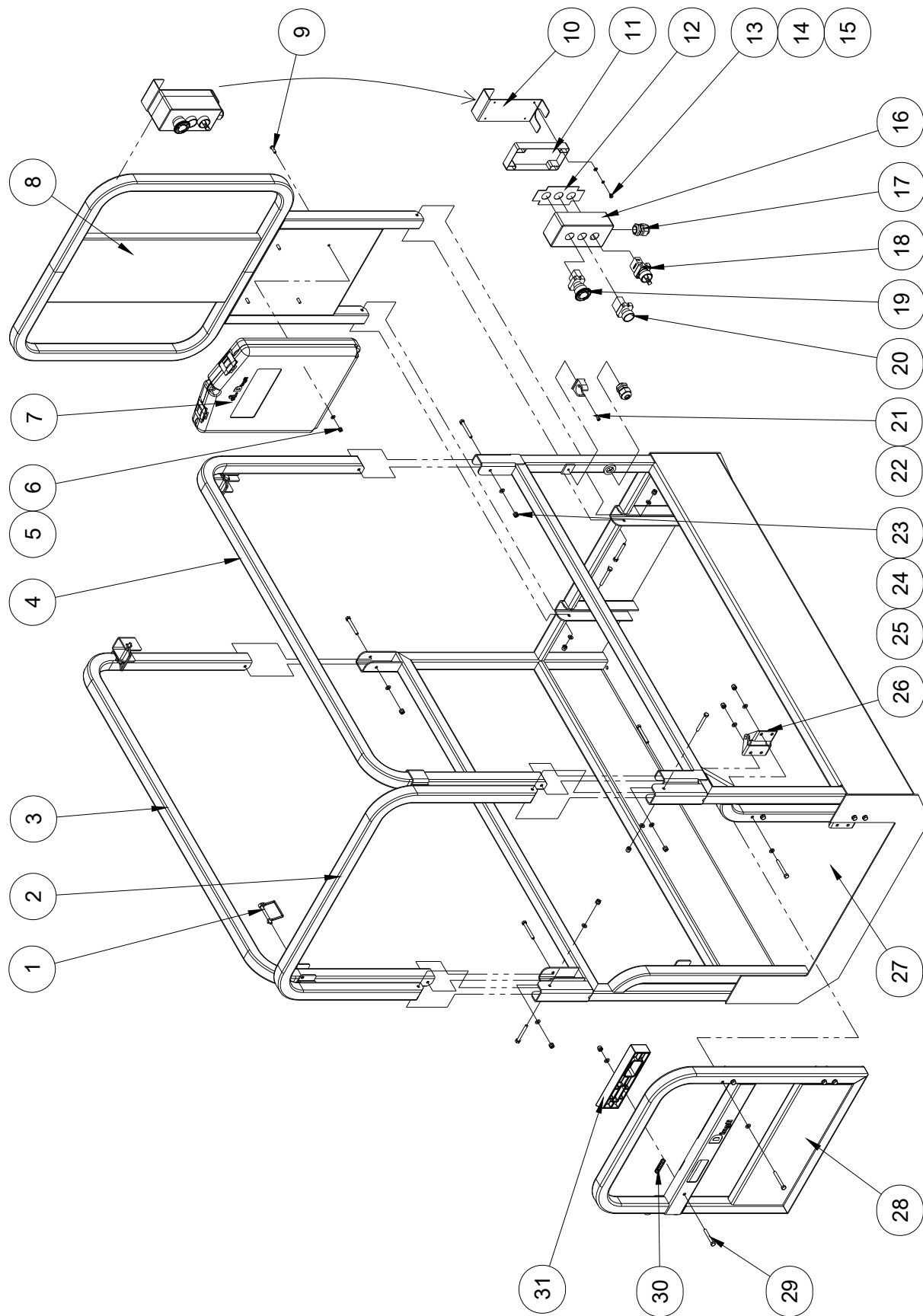
Parts List

Platform and Scissor Installations

Item	Part Number	Description	Qty.	Remark
1	JCPT0607-412000	Platform assembly	1	
2	8812-252825	Bearing	2	
3	JCPT0607DCS-310010	Washer	4	
4	GB/T 894.2-1986	Circlips for shaft 25	4	
5	JCPT0607DCS-330003	Pin	1	
6	JCPT060-310000	Scissor assembly	1	
7	JCPT0607DCS-330002	Pin	1	
8	JCPT0607DCS-330004	Bottom slider	2	

Parts List

Platform



Parts List

Platform

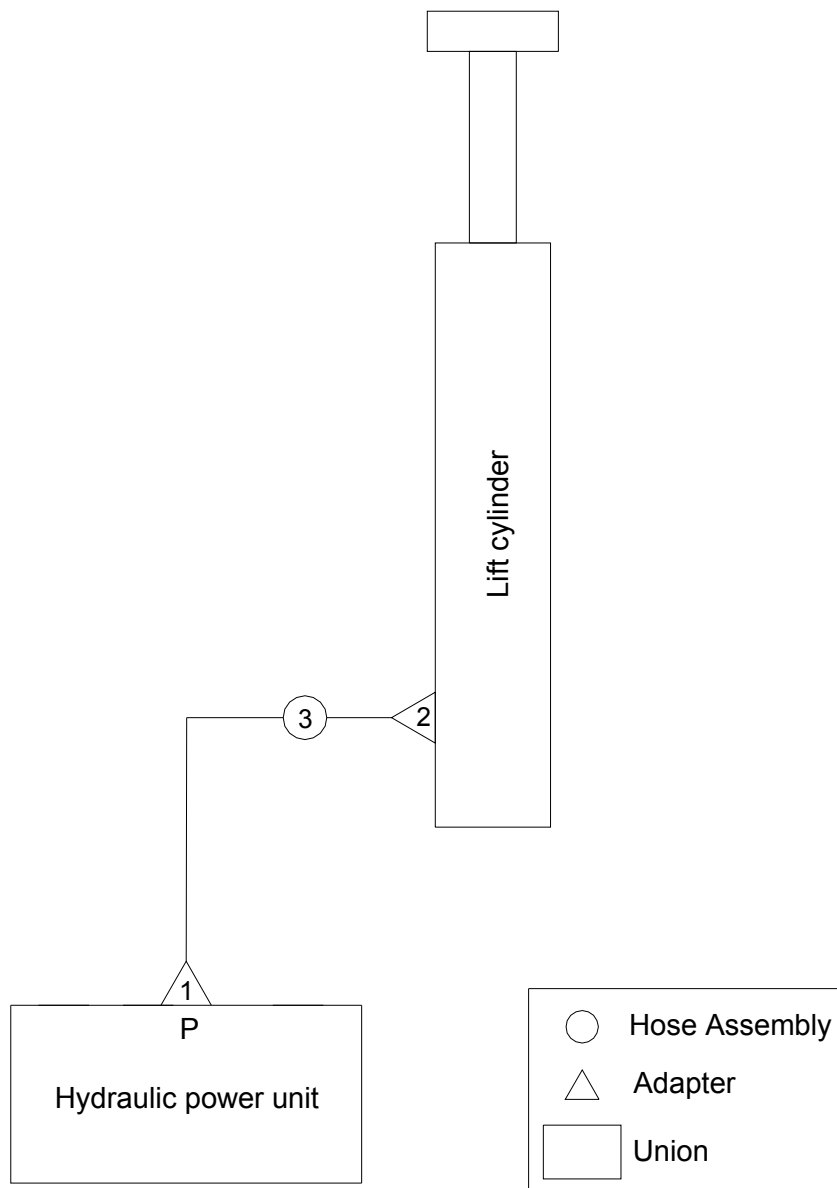
Item	Part Number	Description	Qty.	Remark
1	JCPT1212HD-41001	pin	4	
2	JCPT0607-411700	Block guardrail	1	
3	JCPT0607-412200	Left guardrail	1	
4	JCPT0607-412400	Right guardrail	1	
5	GB/T 6182-2000	Nut M5	4	
6	GB/T 97.1-2002	Washer 5	4	
7	GTBZ16A-43500	Handbook box	1	
8	JCPT0607-411300	Front guardrail	1	
9	GB/T 818-2000	Screw M5×16-H	4	
10	JCPT3707M-00016	Platform control box mount bracket	1	
11	JCPT5007M-720111	Platform control box bottom	1	
12	JCPT5007M-720101	Support plate	1	
13	GB/T 818-2000	Screw M4×6-H	4	
14	GB/T 93-1987	Spring washer 4	4	
15	GB/T 97.1-2002	Washer 4	4	
16	JCPT5007M-720112	Platform control box	1	
17	6912-0200020-01	Water-proof joint M20×1.5	2	
18	6909-0301322-01	Rotary switch	1	
19	6909-0501140-01	Emergency stop switch	1	
20	6901-0201113-01	Button (green)	1	
21	6912-0300024-01	Pipe clamp	1	
22	GB/T70.1-2000	Screw M4×10	1	
23	GB/T 5782-2000	Bolt M6×50	16	
24	GB/T 97.1-2002	Washer 6	25	
25	GB/T 6182-2000	Nut M6	17	
26	TYHY6957-8020	Hinge	2	
27	JCPT0607-412100	Platform deck assembly	1	
28	JCPT0607-411610	Door	1	
29	GB/T 5782-2000	Bolt M6×45	1	

Parts List**Platform**

Item	Part Number	Description	Qty.	Remark
30	JCPT3707M-43302	Spring	1	
31	JCPT3707M-43301	Doorknob	1	

Parts List

Hydraulic Hoses and Fittings



Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.	Remark
1	GE10LM18×1.5EDOMD	Straight fitting	1	
2	GE10LREDOMD	Straight fitting	1	
3	1SN06-M21513-04-16/M 21593-04-16-2800	Hose	1	

Inspection and Repair Log

Inspection and Repair Log

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