

DINGLI

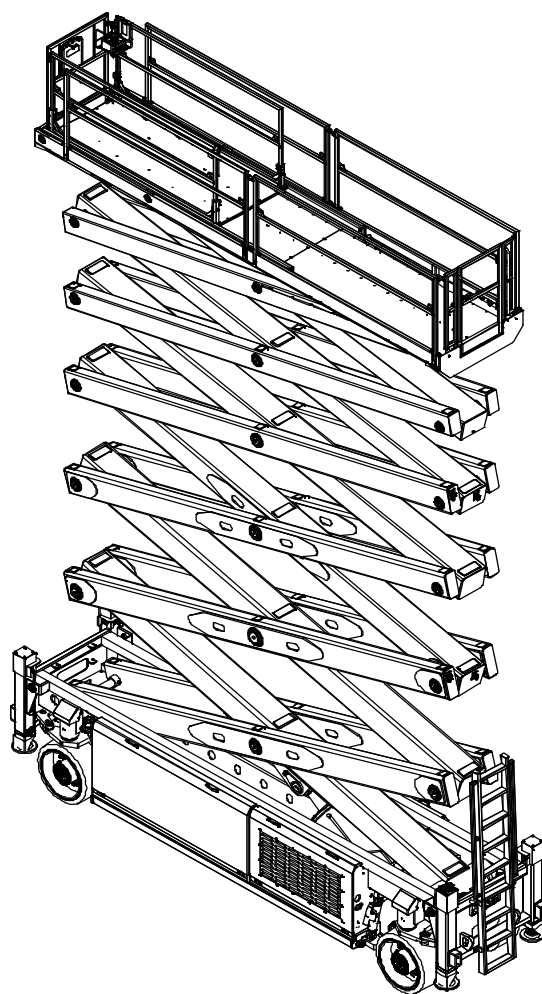
Exceed · New Height

Operator's Manual

with Maintenance Information

JCPT2814DC
JCPT3214DC

From SN JPD0023H00043



Part Number: SM012110123
Version Number: Rev1.0
May 2024 Printing

Original Instructions

DINGLI





OPERATOR'S MANUAL *with Maintenance Information*

Version of the Record

Version of the Record

Version Number

Create Date

SM012120123_Rev1.0 2022-07



Introduction

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.

Identification of the Manual

The identification code of the Manual is shown on the cover; it is advisable to note this down in the Inspection Register.

If the Manual is lost, to request a new Manual, mention the code on the cover or the manufacturing number of the machine.

It is advisable to mention the machine manufacturing number on the cover in such a way as to clearly identify the Manual with the machine.

The manual and certificates are placed in the platform manual storage container.

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.

OPERATOR'S MANUAL *with Maintenance Information*

Introduction

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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 Always perform function tests prior to use.
 - 4 Inspect the workplace.
 - 5 Only use the machine as it was intended.
- ☒ You read, understand and obey the manufacturer's instructions and safety rules — operator's manual 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.

Hazard Classification

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.

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

NOTICE

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

OPERATOR'S MANUAL *with Maintenance Information*

Safety Rules

The relevant conditions of using the equipment

The surface of work ground should be flat and hard with no obstacles in air and the safety distance between the equipment and high-tension line is adequate.

The environment temperature should be within $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$; Height above sea level $\leq 1000\text{m}$.

The environment humidity $\leq 90\%$.

Electrical power: AC $110 \sim 380\text{V} \pm 10\%$, $50 \sim 60\text{Hz}$.

The aerial work platform may be used in closed rooms and outdoors.



When outdoors, work may only be done in support mode!

Intended Use

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

Never use in the conditions outside design without approval of Dingli.

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.

Operator

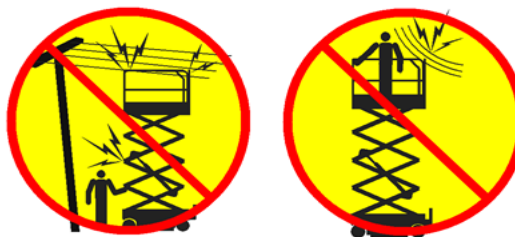
Only the trained and qualified are permitted to operate this machine. Always use safety belt and helmet when aerially working.

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

An operator must not use drugs or alcohol that can change his/her alertness or coordination. An operator on prescription or over-the-counter drugs needs medical advice on whether or not he/she can safely operate machines.

⚠ 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

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

Safety Rules

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

Do not operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

⚠ Tip-over Hazard

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

Do not overload the work platform.

Maximum capacity – JCPT2814DC

Maximum occupants	2
Platform allowable maximum load	750kg

Maximum capacity – JCPT3214DC

Maximum occupants	2
Platform allowable maximum load	750kg

Work Area Safety

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

Do not drive over maximum speed with the platform raised. Refer to specifications.



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.

For outdoor use machine, Do not raise the platform when wind speeds may exceed 12.5 m/s. If wind speeds exceed 12.5 m/s when the platform is raised, lower the platform and do not continue to operate the machine.

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



Do not use the platform controls to free a platform that is caught, snagged or otherwise prevented from normal motion by an adjacent structure. All personnel must be removed from the platform before attempting to free the platform using the ground controls.

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

Do not drive the machine on or near uneven terrain, unstable surfaces or other hazardous conditions with the platform raised.

OPERATOR'S MANUAL *with Maintenance Information*

Safety Rules

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



Maximum allowable manual force

Model	Application	manual force	Maximum occupants
JCPT2814DC	Outdoor	400N	2
	Indoor	400N	2
JCPT3214DC	Outdoor	400N	2
	Indoor	400N	2

Never alter the MEWP without Dingli's written approval.

Do not use the machine as a crane.

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

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

Do not contact adjacent structures with the platform.

Do not alter or disable the limit switches.

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

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

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

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

Be sure all tires are in good condition, lug nuts are properly tightened.

▲ Crushing Hazard

Keep hands and limbs out of scissors.

Keep hands clear when folding rails.

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

Maintain a firm grasp on the platform rail when removing the rail pins. Do not allow the platform guard rails to fall.

▲ Operation on Slopes Hazard

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

Slope rating applies to machines only in the stowed position.

OPERATOR'S MANUAL *with Maintenance Information*

Safety Rules

Model	Maximum slope rating stowed position	Maximum side slope rating stowed position
JCPT2814DC	30% (17°)	5% (2.8°)
JCPT3214DC	30% (17°)	5% (2.8°)

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

▲ Fall Hazard

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



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



Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

Close the entry gate before operating.

Do not operate the machine unless the guard rails are properly installed and the entry is secured for operation.

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

Do not get on and off the work platform when elevated.

Be careful when traveling.

▲ Collision Hazard



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

Be aware of extended platform position(s) when moving the machine.

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



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

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

Observe and use color-coded direction arrows on the platform controls and platform decal plate for drive and steer functions.

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

No stunt driving or horseplay while operating a machine.

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

OPERATOR'S MANUAL *with Maintenance Information*

Safety Rules



Limit travel speed according to the condition of the ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

⚠ Component Damage Hazard

Do not use any battery or charger greater than 80V to charge the battery.

Do not use the machine as a ground for welding.

Do not replace or modify the recharge plug (if equipped) and other electric connectors without written authorization from Dingli

Do not have spare parts that affect health and safety.

⚠ 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.

It is forbidden to store anything in the cabin, which would result in high temperature spontaneous combustion or short circuit and then fire as a disaster.

⚠ 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 this manual. Be sure all decals are in place and legible.

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

⚠ Modification to the intended use

In the event of any special working methods or conditions which are outside those specified by the "intended use", you shall obtain the guidance and approval of the manufacturer.

⚠ National traffic regulations

This platform meets the requirements of the EN280 Standard. It can be used on public roads to carry out work at heights. During use, the work area of the platform must be delimited by appropriate signs. Security rules must follow the legislation of the country in which the platform operates. The platform cannot circulate on public roads as it is not approved for road traffic. To move the platform from one work site to another on public roads, the platform must be transported on special vehicles. The platform work area must be authorized by the national road traffic authorities.

⚠ Bodily Injury Hazard

Always operate the machine in a

Safety Rules

well-ventilated area to avoid carbon monoxide poisoning.

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

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

⚠ Outrigger Safety

⚠ When outdoors, work may only be done in support mode!

Do not lower the outriggers unless the machine is on a firm surface. If the ground does not meet the requirements specified of the relevant regulations, sufficient ground preparation shall be carried out in advance to confirm its safety before operation. Avoid drop-offs, holes, unstable or slippery surfaces and other possible hazardous conditions.



In case of special (soft or inclined) ground, the wood or steel pad suitable for the ground must be used under the support plate, and it must be firm and not cave in during the operation.

When using the backing plate, the backing plate must be of a solid structure that can fully withstand the pressure of the supporting leg. If the steel plate is set under the support plate, it

should be used with small deformation.

When the auto level function is not being used and the outriggers are being lowered individually, the steer-end outriggers must be lowered first.

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

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

Do not adjust the outriggers while the platform is raised.

Do not drive while the outriggers are lowered.

⚠ Battery Safety

⚠ Burn Hazard



If the lithium battery local fire, can be buried in sand, such as hot gas, it needs a lot of water foam to cool treatment.

⚠ Explosion Hazard



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

OPERATOR'S MANUAL *with Maintenance Information*

Safety Rules

Avoid fire and risk of explosion caused by short circuits.

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 80V to charge the batteries.

Do not attempt to open or modify the battery in any way.

The series/parallel connection must be approved by Dingli. Only accessories approved by Dingli can be used for connection of battery blocks.

⚠ Electrocuting/ Burn Hazard

Inspect daily for damaged cords, cables and wires. Replace damaged items before operating.

Metallic parts of the battery cells are always electriferous. Therefore, no foreign objects or tools may be placed on the batteries.

Avoid electrical shock from contact with battery terminals. Remove all rings, watches and other jewelry. If the battery terminal is to be touched, it should be operated with insulating gloves to prevent the risk of high voltage electric shock.

⚠ Lifting Hazard

Use the appropriate number of people and proper lifting techniques when lifting hooks must not cause any damage to cells, connectors and connecting cables.

The lithium battery shall be operated smoothly in the process of handling and assembly, and collision and other impact phenomena are strictly prohibited.

⚠ Environmental Hazard

The rated temperature range of lithium battery is -30°C ~ 55°C. If it is found that the temperature of the battery exceeds 60°C during use, the battery should be stopped immediately and put aside separately.

Batteries must not be exposed to sunlight without protection.

⚠ Transportation and storage Hazard

Charge the battery as soon as receive the machine or after long distance transportation

When the battery is stored for a long time, it needs to be charged regularly. Failure to charge in time may permanently damage the battery.

⚠ pollute Hazard



Old batteries with this marking are recyclable goods and must be sent for recycling.

Used batteries which are not sent for recycling are to be disposed of as special waste under the relevant regulations.

Safety Rules

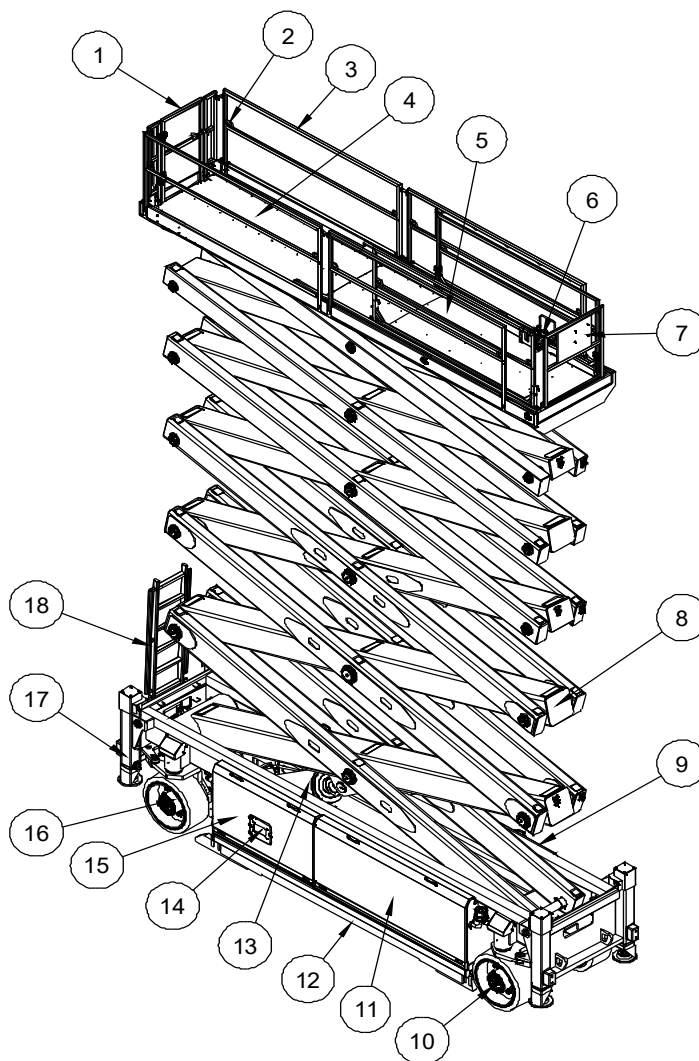
Lockout after Each Use

- 1 Select a safe parking location - firm level surface, clear of obstructions 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 Push in the red Emergency Stop buttons to "off" position.
- 5 Chock the wheels.
- 6 Charge the batteries.

OPERATOR'S MANUAL *with Maintenance Information*

Legend

Legend



- | | |
|--|------------------------------------|
| 1 Platform entry gate | 10 Front wheel |
| 2 Lanyard anchorage point | 11 Batteries, (behind cover) |
| 3 Platform guard rails | 12 Pothole guard |
| 4 Main Platform | 13 Lift Cylinder |
| 5 Platform extensions | 14 Ground controls |
| 6 Platform controls | 15 Electric control (behind cover) |
| 7 Manual storage containers | 16 Rear wheel |
| 8 Scissor Arms | 17 Outrigger |
| 9 Hydraulic tanks, Hydraulic manifold (behind cover) | 18 Entry ladder |

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.

JCPT2814DC

No.	Part No.	Description	Qty.	Remark
1	09340001	Decal, Notice-Keep the manual with the machine	1	
2	09440119	Decal, Danger-Tip-over hazard, tilt-alarm	1	
3	09440001	Decal, Danger-General safety rules	1	
4	09340070	Decal, Symbols-Non operating hand position	3	
5	09340003	Decal, Instructions-Refer the operator to the instructions for use	2	
6	09440011	Decal, Label-Lanyard anchorage point	12	
7	09440212	Decal, Warning-Crushing hazard	2	
8	09410149	Decal, Symbols-Tip-over hazard, use outrigger	2	
9	09440362	Decal, Label-Capacity 750kg	1	
10	09430007	Decal, Symbols-Crushing hazard	10	
11	09410005	Decal, Danger-Do not alter or disable limit switch	1	
12	09420005	Decal, Warning-Collision hazard	4	
13	09410069	Decal, Warning-Crushing hazard, outrigger	4	
14	09410157	Decal, Symbols-Outrigger using warning	4	
15	09310452	Decal, Instructions-Maximum outrigger load 7460kg	4	
16	09310450	Decal, Instructions-Maximum wheel load 7460kg	4	
17	09310426	Decal, Instructions-Grease filling port	1	
18	09310217	Decal, Instructions-Power to platform	1	
19	09310219	Decal, Instructions-Battery charger	1	
20	09410148	Decal, Symbols-Crushing hazard	8	
21	09310148	Decal, Instructions-Emergency	1	

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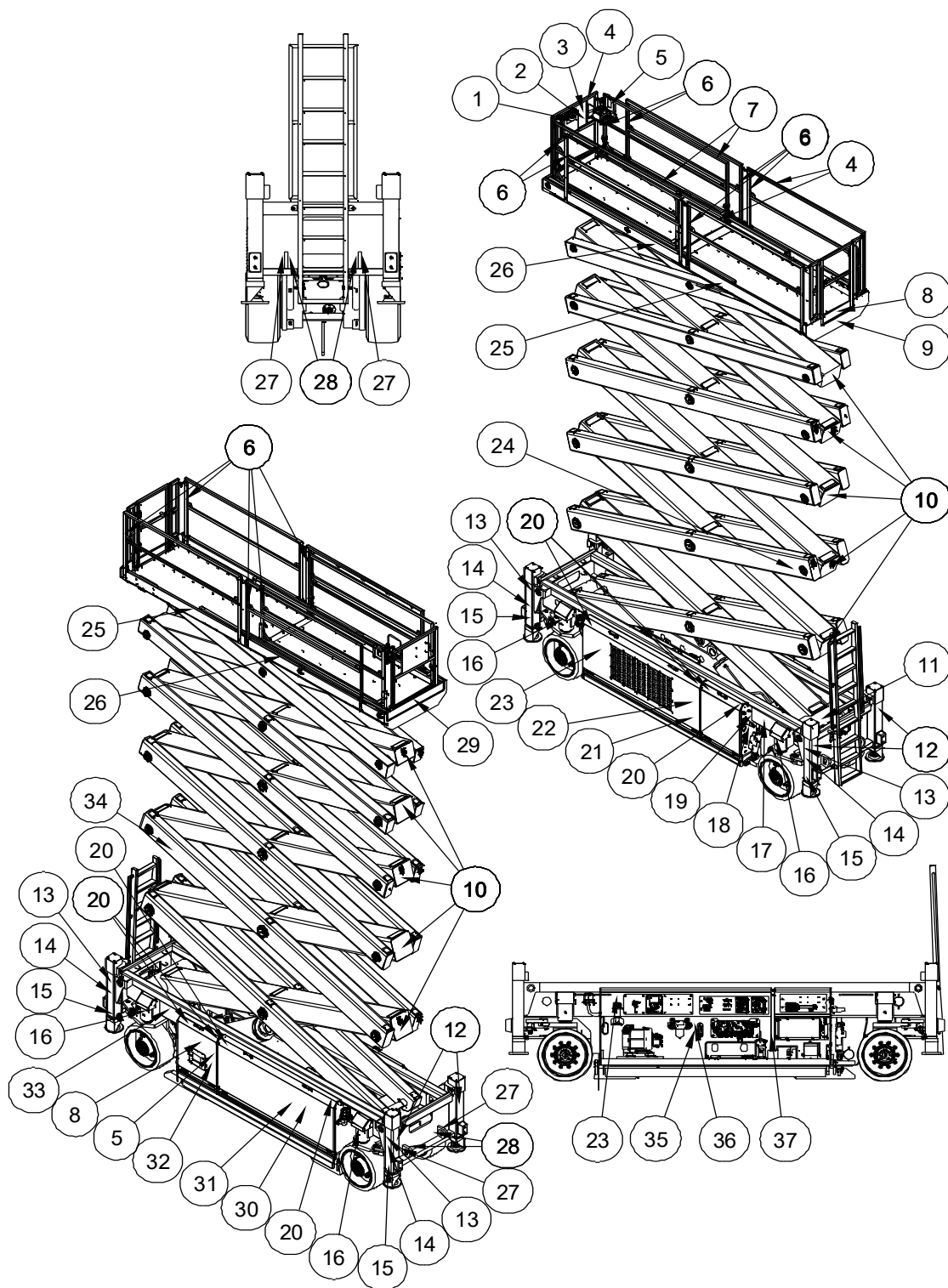
Decals

No.	Part No.	Description	Qty.	Remark
22	09410071	Decal, Warning-Injection hazard	1	
23	09310054	Decal, Instructions-Hydraulic	2	
24	09330026	Decal, Instructions-Grease filling port	1	
25	09440007	Decal, Caution-Max. manual force 400N	2	
26	09640188	Decal, Cosmetic-JCPT2814DC	2	
27	09310050	Decal, Instructions-Tie down point	4	
28	09310049	Decal, Instructions-Lift point	4	
29	09540001	Decal, Label-CE	1	
30	09410235	Decal, Symbols-Slope rating	1	
31	09410001	Decal, Danger-Explosion/burn hazard	1	
32	09410003	Decal, Warning-Inspected and operation properly	1	
33	09310424	Decal, Instructions-Grease filling port	1	
34	09330028	Decal, Instructions-Grease filling port	1	
35	09310053	Decal, Instructions-Lowest oil level	1	
36	09310052	Decal, Instructions-Highest oil level	1	
37	09310428	Decal, Symbols-Emergency operating instructions	1	
	09310524	Decal, Symbols-Emergency operating instructions	1	

OPERATOR'S MANUAL with Maintenance Information

Decals

JCPT2814DC



Decals

JCPT2814DC



OPERATOR'S MANUAL with Maintenance Information

Decals

JCPT2814DC

(26) 09640188

JCPT2814DC

(23) 09310054

HYDRAULIC

(24) 09330026

(33) 09310424

(37) 09310428

(37) 09310524

(25) 09440007

CAUTION

Max. Manual Force

400N

(27) 09310050

(28) 09310049

(29) 09540001

CE

(30) 09410235

WARNING

30% (17°)

30% (17°)

5% (2.8°)

(31) 09410001

DANGER

Explosion/Burn Hazard

Do not operate the machine or charge the batteries in hazardous locations where potentially flammable or explosive gases or particles may be present. Ignition of explosive gases or contact with corrosive acid will cause death, burns or blindness.

Keep all open flames and sparks away. Wear personal protective equipment, including face shield, gloves and long sleeve shirt.

Read Manuals

Read all manuals prior to operation.

DO NOT OPERATE equipment if you do not understand the information in the manuals. Consult your supervisor, the owner or the manufacturer.

(32) 09410003

WARNING

THIS MACHINE MUST NOT BE USED UNTIL IT IS INSPECTED AND OPERATING PROPERLY.

1. Do not operate this machine unless you have been properly trained by a qualified person and authorized to operate this machine. Your training includes reading and understanding the safety, operating and maintenance instructions in manufacturer's manuals, knowing your employer's work rules and applicable governmental regulations.
2. Follow the instructions in the Operating Manual and applicable standards for daily, frequent, and annual inspections.
3. Do not replace (items) e. batteries, wheels, counterweight, etc.) with items of different weight or specification because this will affect stability of machine.
4. Do not modify or change machine without written approval from manufacturer.
5. Operate this machine with extreme caution. STOP all operation if malfunction occurs.
6. Improper use of this machine could cause death or serious injury.

(34) 09330028

(35) 09310053

(36) 09310052

OPERATOR'S MANUAL *with Maintenance Information*

Decals

JCPT3214DC

No.	Part No.	Description	Qty.	Remark
1	09340001	Decal, Notice-Keep the manual with the machine	1	
2	09440119	Decal, Danger-Tip-over hazard, tilt-alarm	1	
3	09440001	Decal, Danger-General safety rules	1	
4	09340070	Decal, Symbols-Non operating hand position	3	
5	09340003	Decal, Instructions-Refer the operator to the instructions for use	2	
6	09440011	Decal, Label-Lanyard anchorage point	12	
7	09440212	Decal, Warning-Crushing hazard	2	
8	09410149	Decal, Symbols-Tip-over hazard, use outrigger	2	
9	09440362	Decal, Label-Capacity 750kg	1	
10	09430007	Decal, Symbols-Crushing hazard	10	
11	09410005	Decal, Danger-Do not alter or disable limit switch	1	
12	09420005	Decal, Warning-Collision hazard	4	
13	09410069	Decal, Warning-Crushing hazard, outrigger	4	
14	09410157	Decal, Symbols-Outrigger using warning	4	
15	09310453	Decal, Instructions-Maximum outrigger load 9120kg	4	
16	09310451	Decal, Instructions-Maximum wheel load 9120kg	4	
17	09310426	Decal, Instructions-Grease filling port	1	
18	09310217	Decal, Instructions-Power to platform	1	
19	09310148	Decal, Instructions-Emergency	1	
20	09410071	Decal, Warning-Injection hazard	1	
21	09410148	Decal, Symbols-Crushing hazard	8	
22	09310054	Decal, Instructions-Hydraulic	2	
23	09330026	Decal, Instructions-Grease filling port	1	
24	09440007	Decal, Caution-Max. manual force 400N	2	

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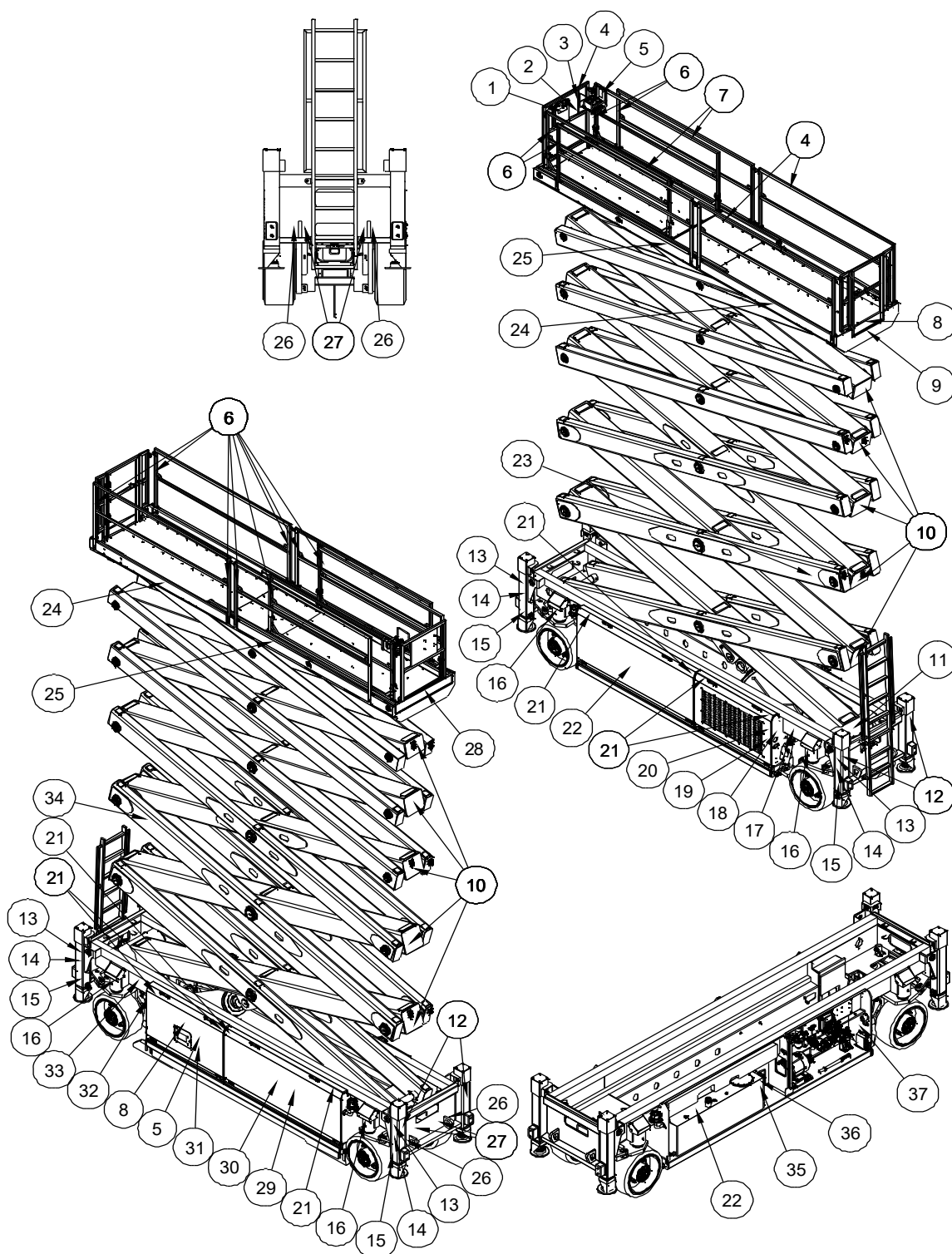
Decals

No.	Part No.	Description	Qty.	Remark
25	09640163	Decal, Cosmetic-JCPT3214DC	2	
26	09310050	Decal, Instructions-Tie down point	4	
27	09310049	Decal, Instructions-Lift point	4	
28	09540001	Decal, Label-CE	1	
29	09410235	Decal, Symbols-Slope rating	1	
30	09410001	Decal, Danger-Explosion/burn hazard	1	
31	09410003	Decal, Warning-Inspected and operation properly	1	
32	09310219	Decal, Instructions-Battery charger	1	
33	09310424	Decal, Instructions-Grease filling port	1	
34	09330028	Decal, Instructions-Grease filling port	1	
35	09310053	Decal, Instructions-Lowest oil level	1	
36	09310052	Decal, Instructions-Highest oil level	1	
37	09310428	Decal, Symbols-Emergency operating instructions	1	
	09310524	Decal, Symbols-Emergency operating instructions	1	

OPERATOR'S MANUAL *with Maintenance Information*

Decals

JCPT3214DC



OPERATOR'S MANUAL *with Maintenance Information*

Decals

JCPT3214DC



OPERATOR'S MANUAL *with Maintenance Information*

Decals

JCPT3214DC

(25) 09640163

JCPT3214DC

(22) 09310054

HYDRAULIC

(23) 09330026

(33) 09310424

(37) 09310428

(37) 09310524

(24) 09440007

CAUTION

Max. Manual Force

400N

(28) 09540001

CE

(26) 09310050

(27) 09310049

(30) 09410001

DANGER

Explosion/Burn Hazard

Do not operate the machine or charge the batteries in hazardous locations where potentially flammable or explosive gases or particles may be present. Ignition of explosive gases or contact with corrosive acid will cause death, burns or blindness.

Keep all open flames and sparks away. Wear personal protective equipment, including face shield, gloves and long sleeves.

Read Manuals

Read all manuals prior to operation. DO NOT OPERATE equipment if you do not understand the information in the manuals. Consult your supervisor, the owner or the manufacturer.

(31) 09410003

WARNING

THIS MACHINE MUST NOT BE USED UNTIL IT IS INSPECTED AND OPERATING PROPERLY.

- Do not operate this machine unless you have been properly trained by a qualified person and authorized to operate this machine. Your training includes reading and understanding the safety, operating and maintenance instructions in manufacturer's manuals, knowing your employer's work rules and applicable governmental regulations.
- Follow the instructions in the Operating Manual and applicable standards for daily, frequent, and annual inspections.
- Do not replace items (e.g., batteries, wheels, counterweight, etc.) with items of different weight or specification because this will affect stability of machine.
- Do not modify or change machine without written approval from manufacturer.
- Operate this machine with extreme caution. STOP all operation if malfunction occurs.
- Improper use of this machine could cause death or serious injury.

(29) 09410235

WARNING

30% (17")

30% (17")

5% (2.8")

(32) 09310219

BATTERY CHARGER

(34) 09330028

(35) 09310053

(36) 09310052

OPERATOR'S MANUAL *with Maintenance Information*

Specifications

Model: JCPT2814DC

Height, working maximum	28m
Height, platform maximum	26m
Height, stowed maximum Rails up	4.16m
Height, stowed maximum Rails folded	3.17m
Width	1.39m
Length, platform retracted	5.69m
Platform dimensions (length × width)	5.08m×1.2m
Platform extension length	1.9m
Maximum load capacity	750kg
Maximum wind speed	12.5m/s
Wheelbase	4.14m
Turning radius (outside)	3.3m
Turning radius (inside)	2.5m
Ground clearance	19cm
Ground clearance Pothole guards deployed	2.0cm
Power source	520AH
System voltage	80V
Weight	(See Serial Label)
Machine weights vary with option configurations	
Controls	Proportional
AC outlet in platform	Standard
Maximum hydraulic pressure (functions)	250bar

Tire size	28×12-22
Airborne noise emissions	<80 dB
Maximum sound level at normal operating workstations (A-weighted)	
Vibration value does not exceed 2.5m/s ²	
Maximum slope rating, Stowed position	30%(17°)
Maximum side slope rating, Stowed position	5%(2.8°)
Note: Slope rating is subject to ground conditions and adequate traction.	
Maximum working slope (outdoor)	0°
Maximum working slope (indoor)	1°

Drive speeds

Stowed, maximum	1.5km/h
Platform raised, maximum	0.1km/h

Floor loading information

Tire load, maximum	7460kg
Outrigger load, maximum	7460kg
Tire contact pressure	1354.6kPa
Outrigger contact pressure	1866kPa
Occupied floor pressure	23.1kPa

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.

OPERATOR'S MANUAL *with Maintenance Information*

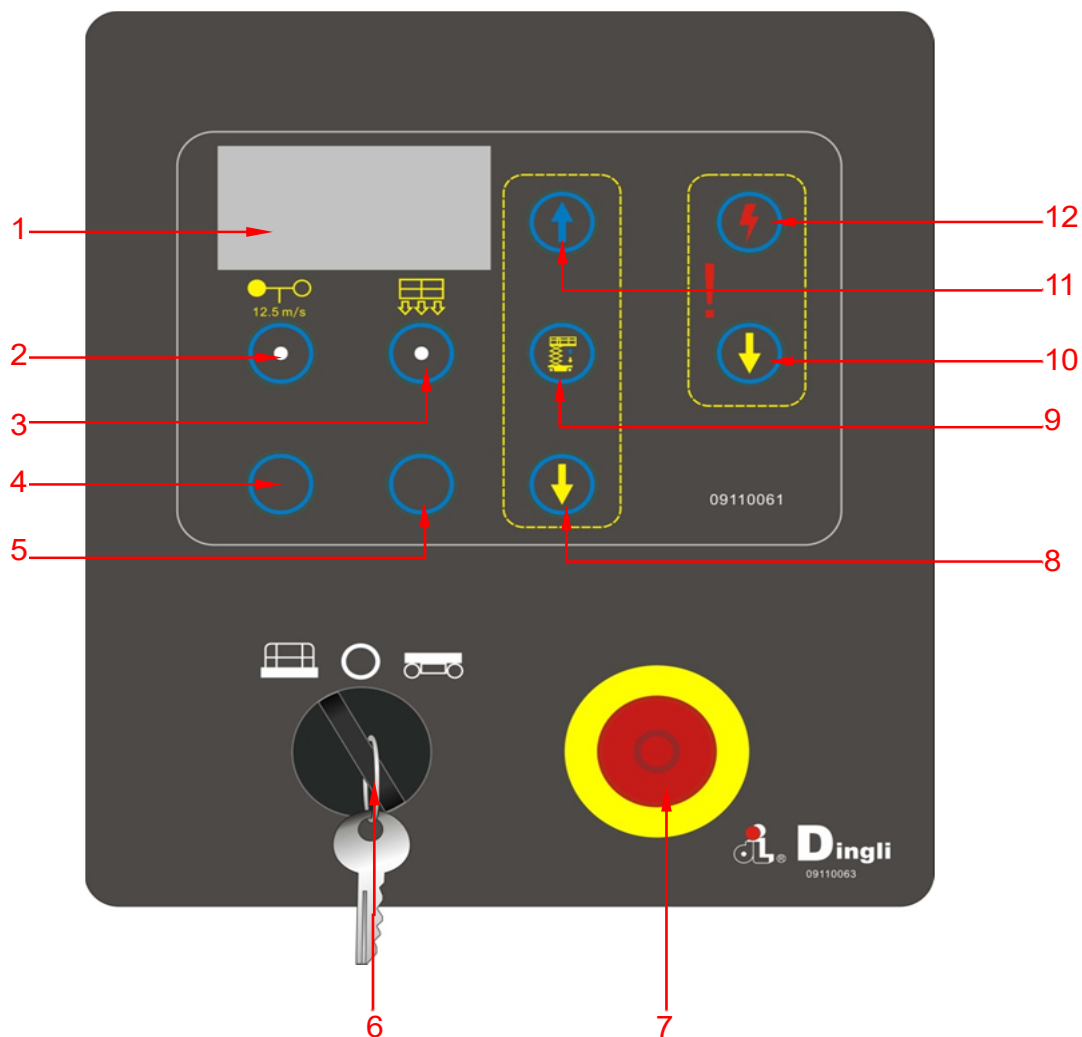
Specifications

Model: JCPT3214DC

Height, working maximum	32m	Tire size	28×12-22
Height, platform maximum	30m	Airborne noise emissions	<80 dB
Height, stowed maximum Rails up	4.16m	Maximum sound level at normal operating workstations (A-weighted)	
Height, stowed maximum Rails folded	3.17m	Vibration value does not exceed 2.5m/s ²	
Width	1.39m	Maximum slope rating, Stowed position	30%(17°)
Length, platform retracted	6.41m	Maximum side slope rating, Stowed position	5%(2.8°)
Platform dimensions (length × width)	5.85m×1.2m	Note: Slope rating is subject to ground conditions and adequate traction.	
Platform extension length	1.9m	Maximum working slope (outdoor)	0°
Maximum load capacity	750kg	Maximum working slope (indoor)	1°
Maximum wind speed	12.5m/s		
Wheelbase	4.87m	Drive speeds	
Turning radius (outside)	3.5m	Stowed, maximum	1.5 km/h
Turning radius (inside)	2.6m	Platform raised, maximum	0.1 km/h
Ground clearance	19cm	Floor loading information	
Ground clearance Pothole guards deployed	2.0cm	Tire load, maximum	9120kg
Power source	520Ah	Outrigger load, maximum	9120kg
System voltage	80V	Tire contact pressure	1489.6kPa
Weight (See Serial Label)		Outrigger contact pressure	2280kPa
Machine weights vary with option configurations		Occupied floor pressure	25.1kPa
Controls	Proportional	Note: Floor loading information is approximate and does not incorporate different option configurations. It should be used only with adequate safety factors.	
AC outlet in platform	Standard		
Maximum hydraulic pressure (functions)	250 bar	Continuous improvement of our products is a DINGLI policy. Product specifications are subject to change without notice or obligation.	

Controls

Ground Control Panel




- | | |
|----------------------------|--|
| 1 Display | 7 Red Emergency Stop button |
| 2 Indoor/outdoor button | 8 Platform down button |
| 3 Overload indicator light | 9 Lift function enable button |
| 4 Standby | 10 Emergency lowering down button |
| 5 Standby | 11 Platform up button |
| 6 Key switch | 12 Emergency lowering down enable button |

OPERATOR'S MANUAL *with Maintenance Information*

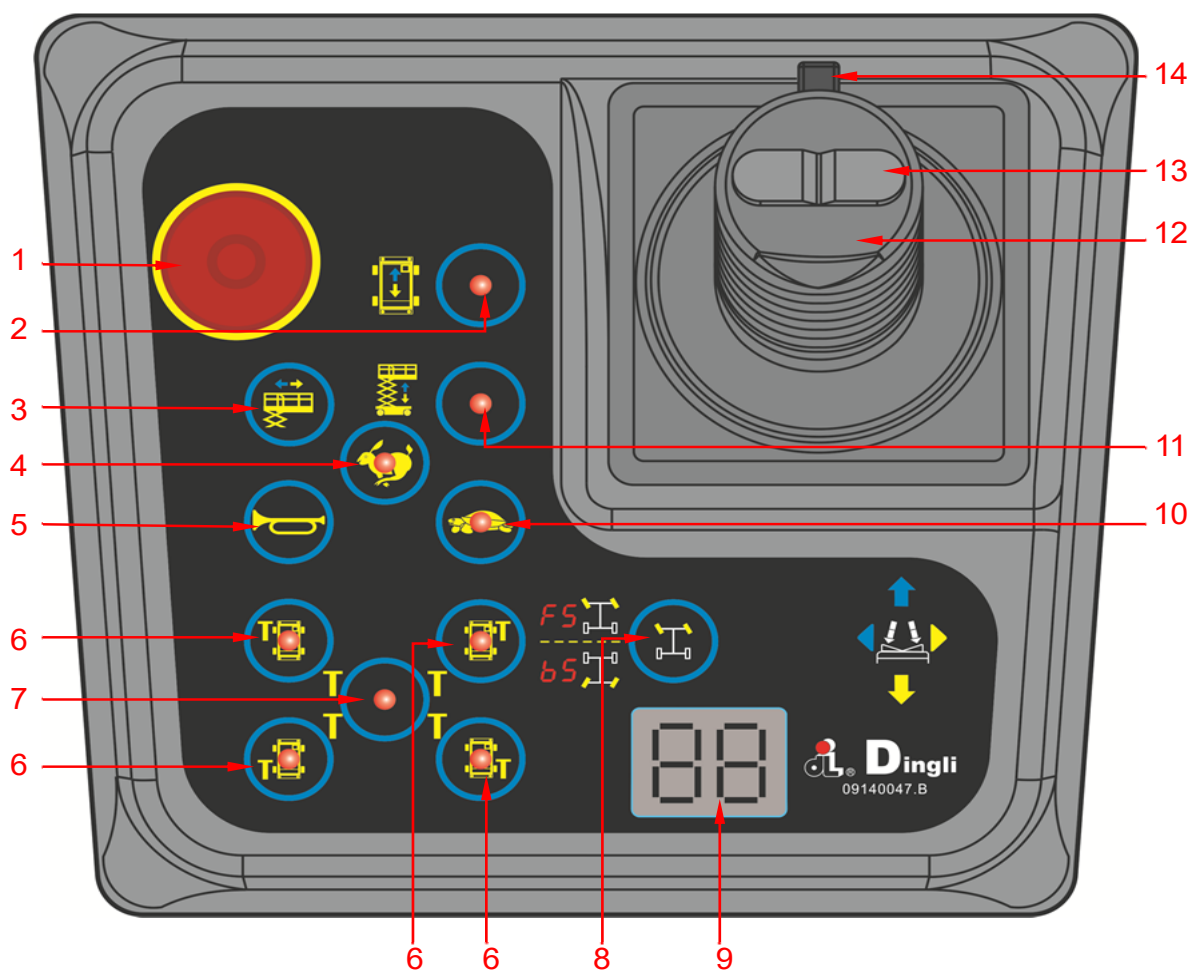
Controls

Ground Control Panel

- 1 Display
Diagnostic readout
- 2 Indoor/outdoor button
Light on indicates to select the outdoor mode, and the diagnostic will display the outdoor. In outdoor mode, the machine cannot lift until all four outriggers extend.
Light off indicates to select the indoor mode. In indoor mode, the machine lift regardless of whether the four outriggers extend or not.
-  **When outdoors, work may only be done in support mode! FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.**
- 3 Overload indicator light
Light on indicates when overloaded.
- 4 Standby
- 5 Standby
- 6 Key switch
Turn the key switch to the platform position and the platform controls will operate.
Turn the key switch to the off position and the machine will be off. Turn the key switch to the base position and the ground controls will operate.
- 7 Red Emergency Stop button
Push in the red Emergency Stop button to the off position to stop all functions. Pull out the red Emergency Stop button to the on position to operate the machine.
- 8 Platform down button
Press this button and the platform will lower
- 9 Lift function enable button
Press this button to activate the lift function.
- 10 Emergency lowering down button
Press this button and the platform will lower
- 11 Platform up button
Press this button and the platform will lift.
- 12 Emergency lowering down enable button
Press this button to activate the Emergency down function.

Controls

Platform Control Panel



- | | |
|------------------------------------|--------------------------------|
| 1 Red Emergency Stop button | 8 Steer mode select button |
| 2 Drive function select button | 9 LED readout screen |
| 3 Standby | 10 Torque speed select button |
| 4 High speed select button | 11 Lift function select button |
| 5 Horn button | 12 Proportional control handle |
| 6 Outrigger function enable button | 13 Thumb rocker switch |
| 7 Outrigger auto level button | 14 Function enable switch |

OPERATOR'S MANUAL *with Maintenance Information*

Controls

Platform Control Panel

1 Red Emergency Stop button

Push in the red Emergency Stop button to the off position to stop all functions. Pull out the red Emergency Stop button to the on position to operate the machine.

2 Drive function select button

Press this button to activate the drive function.

3 Standby

4 High speed select button

Press this button to activate the fast drive function.

5 Horn button

Press this button and the horn will sound.
Release the button and the horn will stop.

6 Outrigger function enable button

Press this button to activate the individual outrigger up/down function.

7 Outrigger auto level button

Press this button to activate the auto level function.

8 Steer mode select button

Press this button to select steer mode: FS mode (Front Steer mode), bS mode (Back Steer mode).

9 LED readout screen

Diagnostic readout and steer mode.

10 Torque speed select button

Press this button to activate the slow drive function.

11 Lift function select button

Press this button to activate the lift function.

12 Proportional control handle

Lift function: Press and hold the function enable switch to enable the lift function on the platform control handle. Move the control handle in the direction indicated by the blue arrow and the platform will raise. Move the control handle in the direction indicated by the yellow arrow and the platform will lower. The descent alarm should sound while the platform is lowering.

Drive function: Press and hold the function enable switch to enable the drive function on the platform control handle. Move the control handle in the direction indicated by the blue arrow on the control panel and the machine will move in the direction that the blue arrow points. Move the control handle in the direction indicated by the yellow arrow on the control panel and the machine will move in the direction that the yellow arrow points.

Outrigger extendable / retractable function: Press and hold the function enable switch to enable the Outrigger extend/ retract function on the platform control handle. Move the control handle in the direction indicated by the yellow arrow and the outrigger will extend. Move the control handle in the direction indicated by the blue arrow and the outrigger will retract.

13 Thumb rocker switch

Press the thumb rocker switch in either direction to activate steer function.

14 Function enable switch

Press and hold the function enable switch to enable the drive/lift function.

Pre-operation Inspection



Do Not Operate Unless:

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

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

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

- 3 Inspect the workplace.
- 4 Always perform function tests prior to use.
- 5 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 listed in this manual.

OPERATOR'S MANUAL *with Maintenance Information*

Pre-operation Inspection

Pre-operation Inspection

- ☐ Be sure that the operator's manual 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.
- ☐ **Always carry out pre-operative inspection after storage before use.**

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

- ☐ Electrical components, wiring and electrical cables
- ☐ Hydraulic hoses, fittings, cylinders and manifolds
- ☐ Battery pack and connections
- ☐ Drive motors
- ☐ Wear pads
- ☐ Tires and wheels
- ☐ Ground strap
- ☐ Limit switches, alarms and horn
- ☐ Nuts, bolts and other fasteners
- ☐ Platform overload components
- ☐ Platform entry gate
- ☐ Beacon (if equipped)
- ☐ Platform extension(s)
- ☐ Scissor pins and retaining fasteners
- ☐ Platform control joystick

- ☐ Brake release components
- ☐ Pothole guard
- ☐ Lanyard anchorage point

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
- ☐ Be sure side rails are installed and rail pins and bolts are fastened.
- ☐ Be sure that the chassis on both sides of all covers are closed and latched and the batteries are properly connected.

Note: Due to the high weight of the scissors there is no shearing-proof protection on the scissors. If the scissor has to be lift for maintenance and repair work, it must be secured against unintended movement with an external safety device or a crane.

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
- Wind and weather conditions
- The presence of unauthorized personnel
- Other possible unsafe conditions
- Altitude exceeding 1000m
- Presence of explosive atmosphere
- Ambient temperature less than -20°C or more than 40°C

Function Tests



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.
- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 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 pack is connected.
- 3 Turn on the main power

At the Ground Controls

- 4 Pull out the platform and ground red Emergency Stop button to the on position.
 - 5 Turn the key switch to ground control.
 - 6 Observe the LED readout screen on the ECU window.
- ⊕ Result: The LED will come on and display system ready.

Test Emergency Stop

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

Test Up/Down Functions and Function Enable

A buzzer with different sound frequency is controlled in central system. The descent alarm sounds at 60 beeps per minute. The descent delay alarm sounds at 180 beeps per minute. The alarm that goes off when the machine is not level sounds at 120 beeps per minute. An optional automotive-style horn is also available.

- 9 Do not press the lift function enable button. Press and hold the platform up/down button.
- ⊕ Result: No function should operate.

- 10 Press and hold the lift function enable button. Press and hold the platform up button.

⊕ Result: The platform should rise.

- 11 Press and hold the lift function enable button. Press and hold the platform down button.

⊕ Result: The platform should lower the descent alarm should sound while the platform is lowering. The platform stop at the height is approximately 4.0 m from the ground. The descent delay alarm will sound.

Note: Be sure the area below the platform is clear of personnel and obstructions before continuing.

- 12 Press and hold the lift function enable button. Press and hold the platform down button.

⊕ Result: The platform should lower to end. The descent delay alarm should sound while the platform is lowering.

Test the Emergency Lowering

- 13 Activate the up function and raise the platform approximately 120 cm.
 - 14 Push in the red Emergency Stop button to the off position.
 - 15 Pull out the red Emergency Stop button to the on position.
 - 16 Press and hold the emergency lowering down enable button. Press and hold the emergency lowering down button.
- ⊕ Result: The platform should lower.
- 17 Turn the key switch to platform control.

Function Tests

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.
- ⊙ Result: The LED indicator light should come on.

Test the Horn

- 20 Push the horn button.
- ⊙ Result: The horn should sound.

Test Up/Down Functions and Function Enable

- 21 Do not hold the function enable switch on the control handle.
- 22 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- ⊙ Result: No functions should operate.
- 23 Press the lift function select button.
- 24 Press and hold the function enable switch on the control handle.
- 25 Slowly move the control handle in the direction indicated by the blue arrow.
- ⊙ Result: The platform should raise.
- 26 Release the control handle.
- ⊙ Result: The platform should stop raising.
- 27 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the yellow arrow.

- ⊙ Result: The platform should lower. The descent alarm should sound while the platform is lowering.

Test the Steering

Note: When performing the steer and drive function test, stand in the platform facing the steer end of the machine.

- 28 Press the drive function select button. The indicator light should turn on.
- 29 Push the steer mode select button for steer FS mode (Front Steer mode).
- 30 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch on top of the proportional control handle in the direction identified by the blue triangle on the control panel.
- ⊙ Result: The front wheels should turn in the direction that the blue triangle points on the control panel. Until the steering angle is greater than 25 degrees.
- 31 Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch on the control handle. Raise the platform.
- ⊙ Result: Raise the platform approximately 4.0 m from the ground and stopped rising. The alarm should sound
- 32 Press the drive function select button.
- 33 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the arrow.
- ⊙ Result: The drive function should not work in either direction.
- 34 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch in the

Function Tests

- direction identified by the yellow triangle on the control panel.
- ⊙ Result: The front wheels should turn in the direction that the yellow triangle points on the control panel. Until the steering angle is less than 25 degrees
- 35 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the arrow.
- ⊙ Result: The drive function should work properly.
- 36 Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch on the control handle. Raise the platform.
- ⊙ Result: The platform should rise.
- 37 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch in the direction identified by the yellow triangle on the control panel.
- ⊙ Result: The front wheels should turn in the direction that the yellow triangle points on the control panel. Until the steering angle is less than 25 degrees
- 38 Lower the platform to the stowed position
- 39 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch on top of the proportional control handle in the direction identified by the yellow triangle on the control panel.
- ⊙ Result: The front wheels should turn in the direction that the yellow triangle points on the control panel. Until the steering angle is greater than 25 degrees
- 40 Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch on the control handle. Raise the platform.
- ⊙ Result: Raise the platform approximately 4.0 m from the ground and stopped rising. The alarm should sound
- 41 Press the drive function select button.
- 42 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the arrow.
- ⊙ Result: The drive function should not work in either direction.
- 43 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch in the direction identified by the blue triangle on the control panel.
- ⊙ Result: The front wheels should turn in the direction that the blue triangle points on the control panel. Until the steering angle is less than 25 degrees
- 44 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the arrow.
- ⊙ Result: The drive function should work properly.
- 45 Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch on the control handle. Raise the platform.
- ⊙ Result: The platform should rise.
- 46 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch in the direction identified by the blue triangle on the control panel.

OPERATOR'S MANUAL *with Maintenance Information*

Function Tests

- ⊙ Result: The front wheels should turn in the direction that the blue triangle points on the control panel. Until the steering angle is less than 25 degrees.
- 47 Lower the platform to the stowed position
- 48 Press the drive function select button. The indicator light should turn on.
- 49 Push the steer mode select button for steer bS mode (Back Steer mode).
- 50 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch on top of the proportional control handle in the direction identified by the blue triangle on the control panel. Until the steering angle is greater than 25 degrees.
- 51 Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch on the control handle. Raise the platform.
- ⊙ Result: Raise the platform approximately 4.0 m from the ground and stopped rising. The alarm should sound
- 52 Press the drive function select button.
- 53 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the arrow.
- ⊙ Result: The drive function should not work in either direction.
- 54 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch in the direction identified by the yellow triangle on the control panel.
- ⊙ Result: The rear wheels should turn in the direction that the blue triangle points on the control panel. Until the steering angle is less than 25 degrees.
- 55 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the arrow.
- ⊙ Result: The drive function should work properly.
- 56 Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch on the control handle. Raise the platform.
- ⊙ Result: The platform should rise.
- 57 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch in the direction identified by the yellow triangle on the control panel.
- ⊙ Result: The rear wheels should turn in the direction that the blue triangle points on the control panel. Until the steering angle is less than 25 degrees.
- 58 Lower the platform to the stowed position
- 59 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch on top of the proportional control handle in the direction identified by the yellow triangle on the control panel. Until the steering angle is greater than 25 degrees.
- 60 Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch on the control handle. Raise the platform.
- ⊙ Result: Raise the platform approximately 4.0 m from the ground and stopped rising. The alarm should sound
- 61 Press the drive function select button.
- 62 Press and hold the function enable switch.

Function Tests

Slowly move the control handle in the direction indicated by the arrow.

- ⊙ Result: The drive function should not work in either direction.

63 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch in the direction identified by the blue triangle on the control panel.

- ⊙ Result: The rear wheels should turn in the direction that the yellow triangle points on the control panel. Until the steering angle is less than 25 degrees.

64 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the arrow.

- ⊙ Result: The drive function should work properly.

65 Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch on the control handle. Raise the platform.

- ⊙ Result: The platform should rise.

66 Press and hold the function enable switch on the proportional control handle. Depress the thumb rocker switch in the direction identified by the blue triangle on the control panel.

- ⊙ Result: The rear wheels should turn in the direction that the yellow triangle points on the control panel. Until the steering angle is less than 25 degrees.

67 Lower the platform to the stowed position

Note: In the lifting state the front/ rear wheel steering Angle is less than 25 degrees. Lifting is prohibited when the front/rear wheel Angle is greater than 25 degrees.

Test Drive and Braking

68 Press and hold the function enable switch on the proportional control handle.

69 Slowly move the proportional control handle in the direction indicated by the blue arrow on the control panel until the machine begins to move, then return the proportional control handle to the center position.

- ⊙ Result: The machine should move in the direction that the blue arrow points on the control panel, then come to an abrupt stop.

70 Press and hold the function enable switch on the proportional control handle.

71 Slowly move the proportional control handle in the direction indicated by the yellow arrow on the control panel until the machine begins to move, then return the proportional handle to the center position.

- ⊙ Result: The machine should move in the direction that the yellow arrow points on the control panel, then come to an abrupt stop.

Note: The brakes must be able to hold the machine on any slope it is able to climb.

Test Limited Drive Speed

72 Press the lift function select button. Raise the platform approximately 4.0 m from the ground.

73 Press the drive function select button.

74 Press and hold the function enable switch on the proportional control handle slowly move the proportional control handle to the full drive position.

- ⊙ Result: The maximum achievable drive speed with the platform raised should not exceed 2.8cm/s.

OPERATOR'S MANUAL *with Maintenance Information*

Function Tests

- ⊗ Result: If the drive speed with the platform raised exceeds 2.8cm/s, immediately tag and remove the machine from service.

Test the Tilt Sensor Operation

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

- 75 Fully lower the platform.
- 76 Drive both wheels on one side onto an 3cm block.
- 77 Raise the platform approximately 4.0 m from the ground.
- ⊙ Result: The platform should stop and the tilt alarm will sound at 120 beeps per minute. The platform controls LED readout should display LL.
- 78 Press the drive function select button.
- 79 Press and hold the function enable switch on the control handle.
- 80 Move the proportional control handle in the direction indicated by the blue arrow, then move the proportional control handle in the direction indicated by the yellow arrow.
- ⊙ Result: The drive function should not work in either direction.
- 81 Press the lift function enable button.
- 82 Lower the platform and drive the machine off the block.

Test the Pothole Guards

Note: The pothole guards should automatically deploy when the platform is raised. The pothole guards activate another limit switch which allows the machine to continue to function. If the pothole guards do not deploy, an alarm sounds and the machine will not drive.

- 83 Raise the platform.
- ⊙ Result: When the platform is raised 4.0m from the ground, the pothole guards should deploy.
- 84 Press on the pothole guards on one side, and then the other.
- ⊙ Result: The pothole guards should not move.
- 85 Press the drive function select button.
- 86 Press and hold the function enable switch on the proportional control handle slowly move the proportional control handle to the full drive position.
- ⊙ Result: The maximum achievable drive speed with the platform raised should not exceed 2.8cm/s.
- ⊗ Result: If the drive speed with the platform raised exceeds 2.8cm/s, immediately tag and remove the machine from service.
- 87 Lower the platform.
- 88 Press the drive function select button.
- 89 Press and hold the function enable switch on the proportional control handle slowly move the proportional control handle to the full drive position.
- ⊙ Result: The pothole guards should return to the stowed position.

Test the Outrigger System

- 90 Push and hold the auto level button.
- 91 Press and hold the function enable switch.
- 92 Activate the proportional control handle in the direction indicated by the yellow arrow.
- ⊙ Result: The outriggers will extend and level the machine. A beep will sound when the machine is level.

Function Tests

93 Push and hold the auto level button.

94 Press and hold the function enable switch. Activate the proportional control handle in the direction indicated by the blue arrow.

- ⊙ Result: The outriggers should retract and return to the stowed position.

Test the indoor/outdoor select Functions

95 Turn the key switch to ground control position.

96 Turn off Indoor/outdoor button light and select the indoor mode

97 Press and hold the lift function enable button. Press and hold the platform up button.

- ⊙ Result: The platform should rise.

98 Press and hold the lift function enable button. Press and hold the platform down button.

- ⊙ Result: The platform should lower.

99 Turn on Indoor/outdoor button light and select the outdoor mode

100 Press and hold the lift function enable button. Press and hold the platform up button.

- ⊙ Result: The platform will not rise after lifting for about 4.0m. The descent alarm should sound.

101 The platform should lower to the stowed position to Release outriggers leveling machine.

102 Press and hold the lift function enable button. Press and hold the platform up button.

- ⊙ Result: The platform should rise.

103 Lower the platform.

104 Retract the outriggers.

105 Turn the key switch to platform control position.

106 Turn off Indoor/outdoor button light and select the indoor mode

107 Press the lift function select button.

108 Press and hold the function enable switch on the control handle.

109 Slowly move the control handle in the direction indicated by the blue arrow.

- ⊙ Result: The platform should rise

110 Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the yellow arrow.

- ⊙ Result: The platform should lower to the stowed position.

111 Turn on Indoor/outdoor button light and select the outdoor mode

112 Press and hold the function enable switch on the control handle.

113 Slowly move the control handle in the direction indicated by the blue arrow.

- ⊙ Result: The platform will not rise after lifting for about 4.0m. The descent alarm should sound.

114 The platform should lower to the stowed position to Release outriggers leveling machine.

115 Press and hold the function enable switch on the control handle.

116 Slowly move the control handle in the direction indicated by the blue arrow.

- ⊙ Result: The platform should rise.

117 Lower the platform to the stowed position.

118 Retract the outriggers.

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 self-propelled 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 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 manual.

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 manual. 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.

Operation from Ground

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

To Position Platform

- 1 Press the lift function enable button.
- 2 Press the platform up/down button to activate the up function or the down function.

Drive and steer functions are not available from the ground controls.

Operation from Platform

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

To Position Platform

- 1 Press the lift function select button.
- 2 Press and hold the function enable switch on the control handle.
- 3 Activate the proportional control handle in the desired direction.

To Steer

- 1 Press the drive function select button.
- 2 Press and hold the function enable switch on the control handle.
- 3 Push the steer mode select button for steer mode (FS. bS)
- 4 Turn the steer wheels with the thumb rocker switch located on the top of the control handle.

To Drive

- 1 Press the drive function select button.
- 2 Press and hold the function enable switch on the control handle.
- 3 Increase speed: Slowly move the control handle off center.

Decrease speed: Slowly move the control handle toward center.

Stop: Return the control handle to center or release the function enable switch.

Use the direction arrows on the platform controls to identify the direction the machine will travel.

Machine travel speed is restricted when the platform is raised.

Drive speed select

The drive controls can operate in two different drive speed modes. When the torque speed select button light is on, slow drive speed mode is active. When the High speed select button light is on, fast drive speed mode is active.

Driving on a slope

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

Maximum slope rating, stowed position 25%,

OPERATOR'S MANUAL *with Maintenance Information*

Operating Instructions

Maximum side slope rating, stowed position 3°.

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

Press the drive speed select button to the fast drive speed mode.

To determine the slope grade

Measure the slope with a digital inclinometer or use the following procedure.

You will need:

Carpenter's level

Straight piece of wood, at least 1 m long
tape measure

Lay the piece of wood on the slope

At the downhill end, lay the level on the top edge of the piece of wood and lift the end until the piece of wood is level.

While holding the piece of wood level, measure the distance from the bottom of the piece of wood to the ground.

Divide the tape measure distance (rise) by the length of the piece of wood (run) and multiply by 100.

Example:

Run = 3.6 m

Rise = 0.3 m

$0.3 \text{ m} \div 3.6 \text{ m} = 0.083 \times 100 = 8.3\%$



If the slope exceeds the maximum slope or side slope rating, the machine must be winched or transported up or down the slope. See Transport and Lifting section.

Operation from Ground with Controller

Maintain safe distances between operator, machine and fixed objects.

Be aware of the direction the machine will travel when using the controller.

Outrigger Operation

- 1 Position the machine below the desired work area.
- 2 Push and hold the outrigger auto level button.
- 3 Press and hold the function enable switch. Activate the proportional control handle in the direction indicated by the yellow arrow. The outriggers will extend and level the machine. A beep will sound when the machine is level.

The indicator light on the lift function enable button will turn on when one but not all outriggers are down. All drive and lift functions are disabled.

The indicator lights on the lift function enable button and on the individual outrigger buttons will turn off when all the outriggers are in firm contact with the ground.

The drive function is disabled while the outriggers are down.

To control individual outrigger

- 1 Push and hold one or more outrigger function enable buttons.
- 2 Press and hold the function enable switch. Activate the proportional control handle in the direction indicated by the yellow arrow. The outriggers will extend and level the machine.

Operating Instructions

⚠ WARNING Cannot use the outrigger directly on uneven surface, soft ground, pit edges and slopes greater ground, To avoid the risk of machine tipping, casualties and equipment damage. If it must be used on the above ground, be sure to use wood or steel pad adapt to the ground, and make sure it is firm.

Emergency Lowering

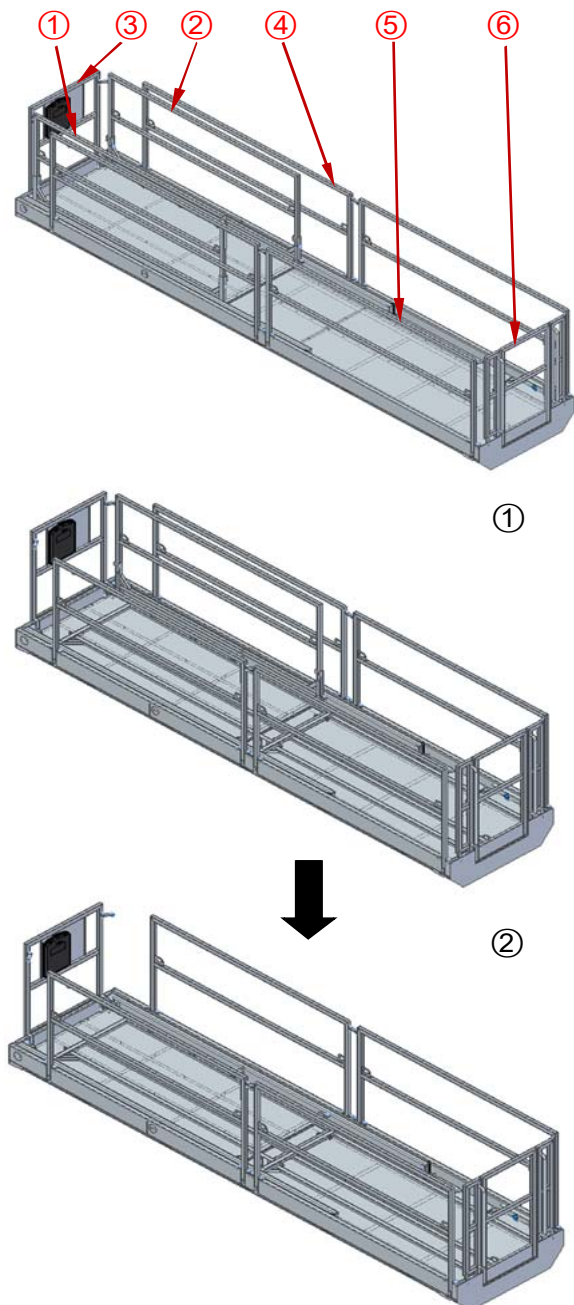
- 1 Turn the key switch to ground control.
- 2 Press and hold the emergency lowering down enable button.
- 3 Press and hold the emergency lowering down button.

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 parts are connected by bolts, latches and plates.

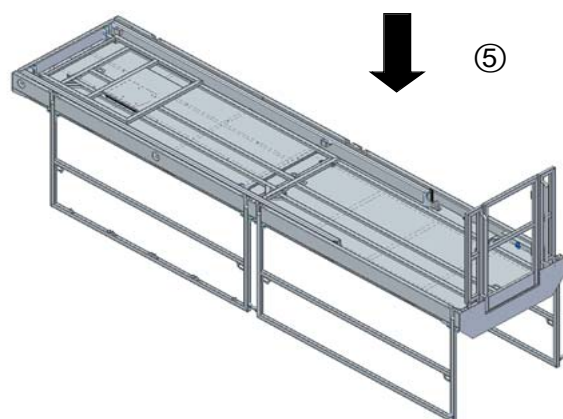
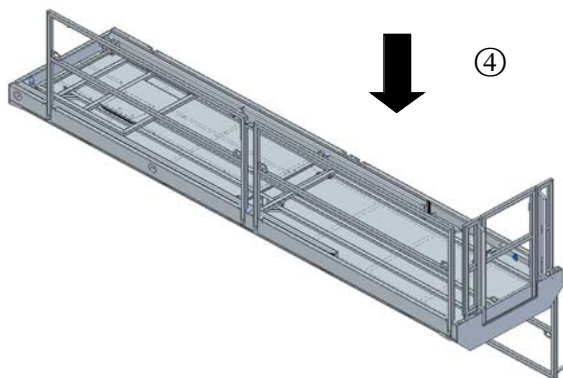
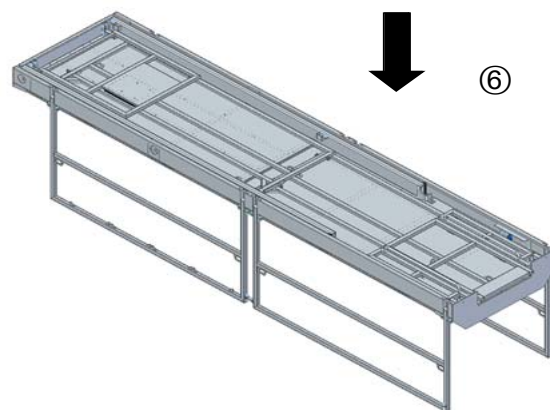
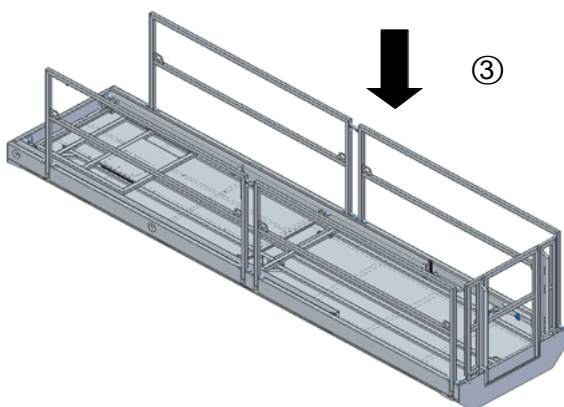
- 1 Fully lower the platform and retract the platform extension.
- 2 Remove the platform controls.
- 3 Remove the bolts and latches corresponding to the folding guardrail and fold them in the order shown below.

⚠ WARNING During the folding down of the guardrails, occupants on the platform must wear personal fall protection equipment with a lanyard attached to an lanyard platform floor point.



OPERATOR'S MANUAL *with Maintenance Information*

Operating Instructions



How to Raise the Guardrails

Follow the fold down instructions but in reverse order.

To Extend and Retract Platform

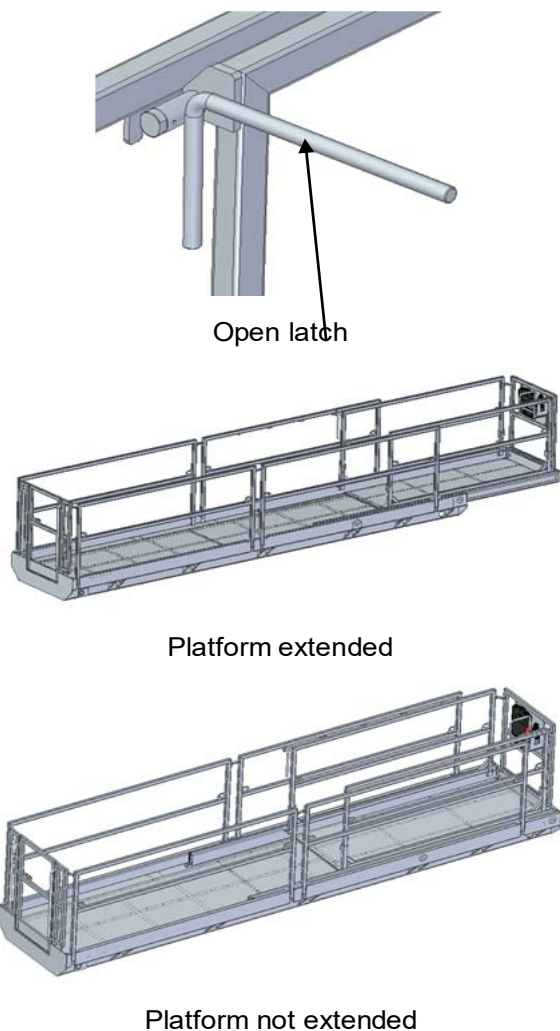
- 1 Pull out the extension platform fixed screw.
- 2 Unlock the extension part of the platform with the hand levers on the railing.
- 3 Push the extension part forward to the desired length
- 4 Lock the extension part again with the hand levers
- 5 The retraction of the carrier part is carried out in the reverse order

Do not stand on the platform extension while trying to extend it.



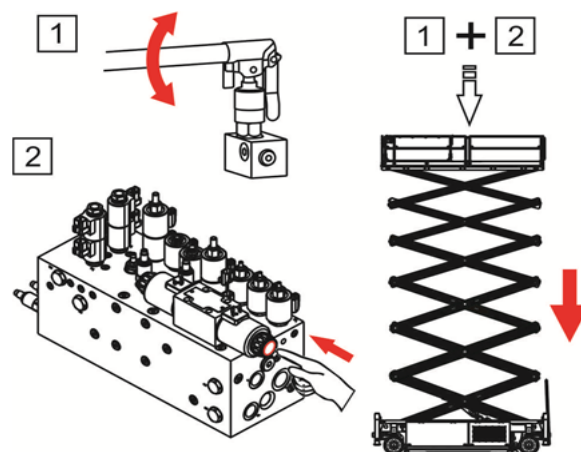
Closed latch

Operating Instructions



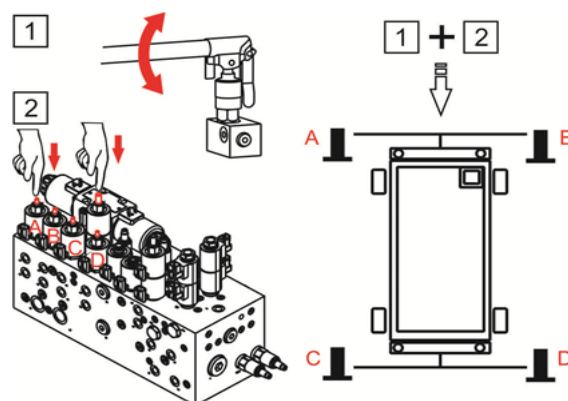
Emergency operating with hand pump

Emergency Lowering



- 1 Unplug the lever and put it into the hand pump (1).
- 2 Press and hold the button (2).
- 3 Operate the hand pump with the lever, the platform should lower.

Retracting outriggers



- 1 Unplug the lever and put it into the hand pump (1)
- 2 Press and hold the button (4).
- 3 Choose the outrigger which needs to retract, Press the corresponding knob in

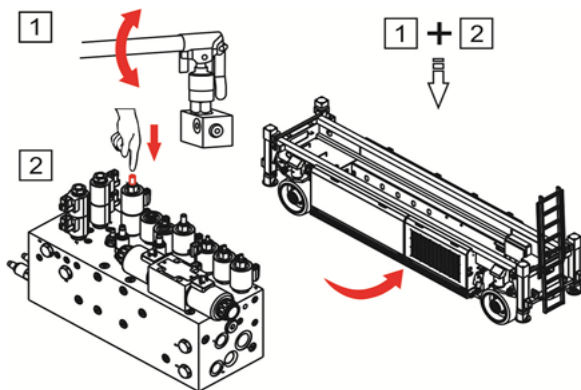
OPERATOR'S MANUAL *with Maintenance Information*

Operating Instructions

the direction of the arrow.

- 4 Operate the hand pump with the lever, the outrigger emergency retract

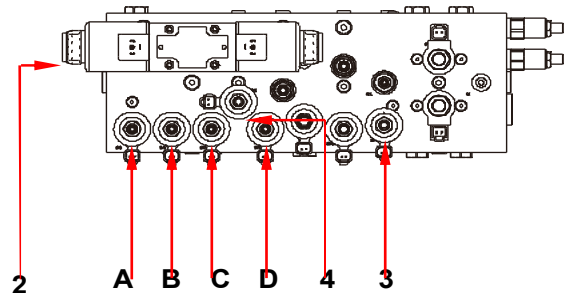
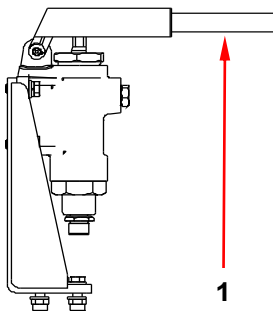
Retracting Pothole guard



- 1 Unplug the lever and put it into the hand pump (1).
- 2 Press and hold the button (3).
- 3 Operate the hand pump with the lever, the Pothole guard should retract.

⚠ WARNING Do not emergency lift/lower the platform and retract outriggers simultaneously.

⚠ WARNING Emergency actuation of outriggers only in normal position danger of tipping!



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 Push in the red Emergency Stop buttons to "off" position.
- 5 Disconnect the main power.
- 6 Chock the wheels.
- 7 Charge the batteries.

Operating Instructions

Description of centralized lubrication device (Option)

- 1 The centralized lubrication device is a separate system, independent of the vehicle control system. The start-up battery only provides 12V power to the centralized lubrication system, and the booster module converts 12V to 24V to power the lubrication pump.
- 2 The lubrication pump is filled with lithium-based grease 2# (Delo Starplex EP 2) by default. Customers can choose the appropriate grease according to the ambient temperature: lithium-based grease 1# or 0#. Grease can be filled through the grease nipple on the side of the pump, and the amount of grease should be between the maximum and minimum scales.
- 3 The initial set pressure of the lubrication pump is 25Mpa, and the initial set time is to run once every 2 hours. For each run, 0.2g of grease is added to each lubrication point. After the pump is pressurized, it is necessary to ensure that each pointer is in the extended position and extended long enough, and then the pointer can be fully retracted after the pressure is relieved. If the pointer of the lubricator is not fully extended after the pump is pressurized, the set pressure can be increased appropriately, and the maximum should not exceed 30Mpa. The frequency of lubrication is related to the operating state of the machine, and the lubrication interval can be adjusted appropriately when the equipment is frequently raised and lowered.

Please refer to the *Single-Line Pump 603S with Control Unit User Manual* and *QSL Metering Device User Manual* for operating instructions related to adjusting pressure and time.

Be sure to turn off the machine power after daily use. If you do not cut off the power, the lubrication system will continue to work at the set time and consume battery power.

If the power of the start-up battery is exhausted, the whole machine will not be able to start. Continuous operation will result in waste of electricity, and will squeeze out the grease and cause pollution to the equipment and the environment.

OPERATOR'S MANUAL *with Maintenance Information*

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.
- ☒ Only qualified aerial lift operators should move the machine on or off the truck.
- ☒ 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.
- ☒ 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.
- ☒ Do not drive the machine on a slope that exceeds the slope or side slope rating. See Driving on a Slope in the Operating Instructions section.
- ☒ 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.

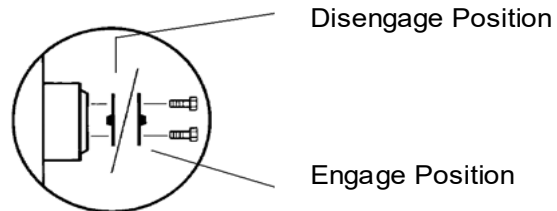
Free-wheel Configuration for Winching

Chock the wheels to prevent the machine from rolling.

Release the wheel brakes by turning over all four torque hub disconnect caps.

Be sure the winch line is properly secured to the drive chassis tie points and the path is clear of all obstructions.

Reverse the procedures described to re-engage the brakes.



Transport and Lifting Instructions

Securing to Truck or Trailer for Transit

Always chock the machine wheels in preparation for transport.

Retract and secure the extension deck(s).

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

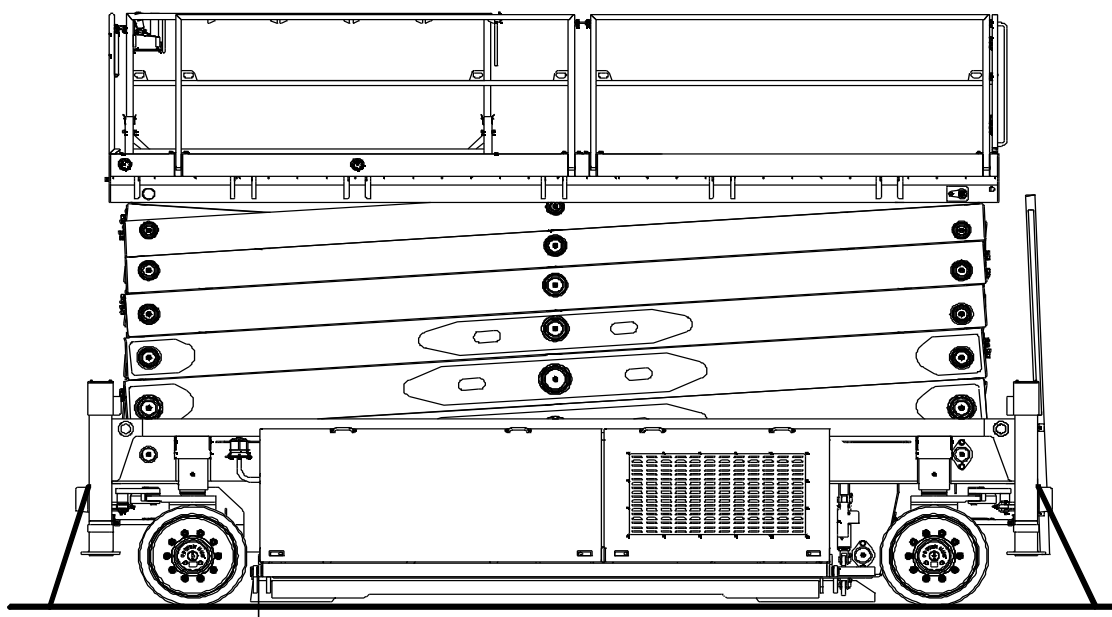
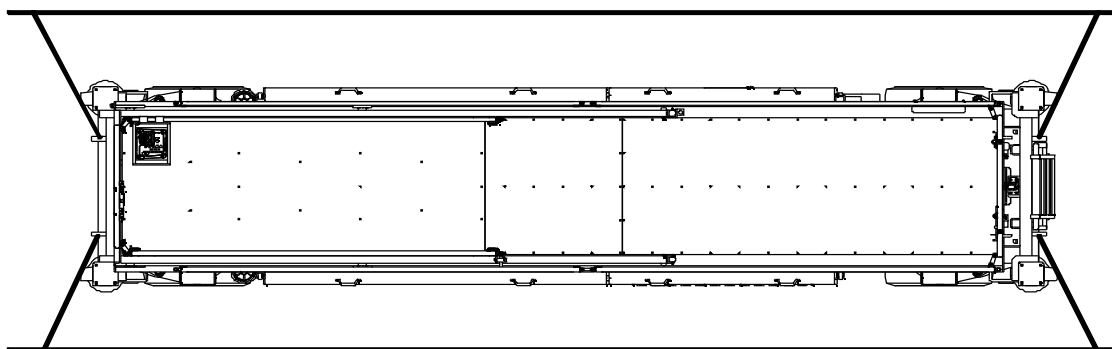
Use a minimum of four chains or straps.

Use chains or straps of ample load capacity.

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

Inspect the entire machine for loose or unsecured items.

If the railings have been folded down, secure them with straps before transporting.



OPERATOR'S MANUAL *with Maintenance Information*

Transport and Lifting Instructions



Observe and Obey:

- ☒ Only qualified riggers should rig and lift the machine.
- ☒ Be sure the crane capacity, loading surfaces and straps or lines are sufficient to withstand the machine weight. See the serial plate for the machine weight.

Determine the center of gravity of your machine using the table and the picture on this page.

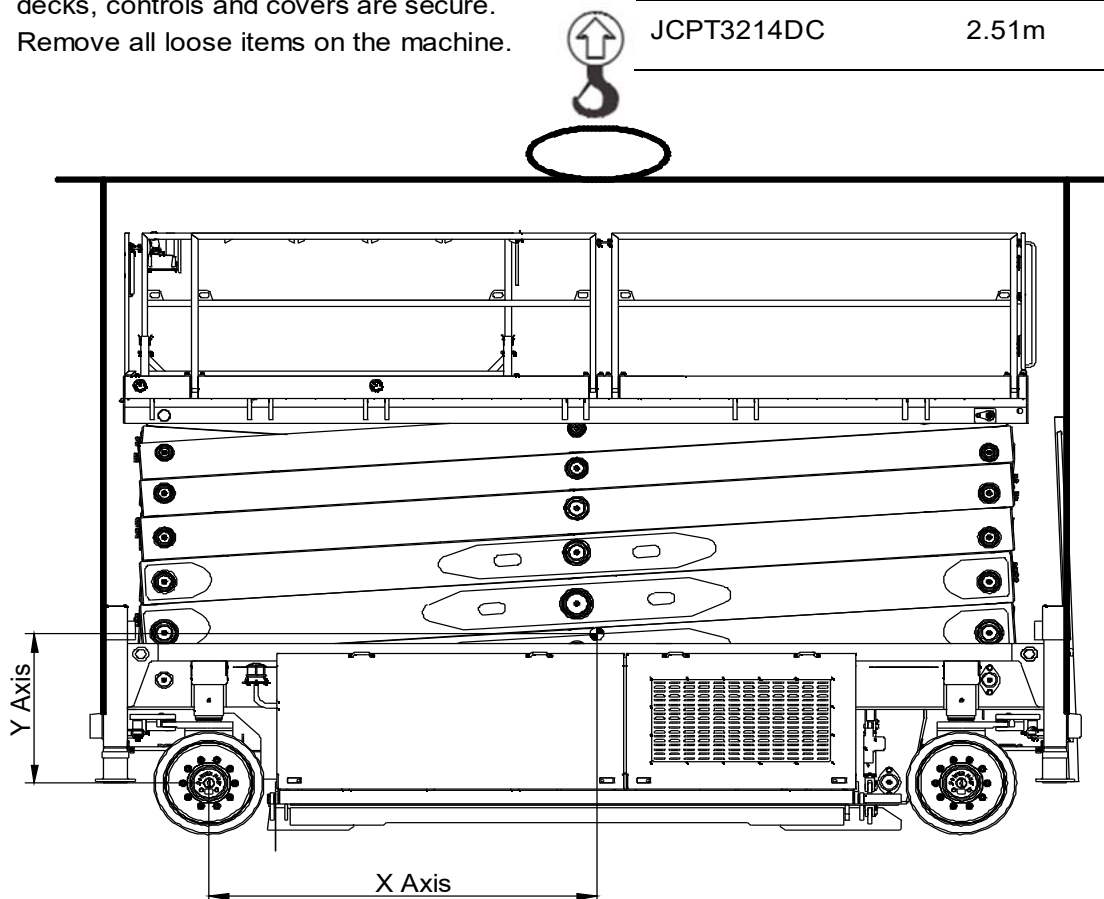
Attach the rigging only to the designated lifting points on the machine. There are two lifting points on each end of the machine.

Adjust the rigging to prevent damage to the machine and to keep the machine level.

Lifting Instructions

Fully lower the platform. Be sure the extension decks, controls and covers are secure. Remove all loose items on the machine.

Center of gravity	X Axis	Y Axis
JCPT2814DC	2.14m	1.04m
JCPT3214DC	2.51m	1.04m



Emergency Procedures

Processing methods for machine malfunctions

- 1 After the machine malfunctions, if it can still be lowered down, it must be ensuring safety when lowering the platform.
- 2 If the faulty machine can not descend normally, please transfer personnel on the platform first, and then descend the platform through emergency operation.
- 3 After ensuring that the machine is in a safe position, turn off the power and evacuate personnel.
- 4 Marking faulty machines.
- 5 Notify the Dingli warranty department.

- 2) Other qualified personnel on the platform may use the platform controls with regular or auxiliary power. **DO NOT CONTINUE OPERATION IF CONTROLS DO NOT FUNCTION NORMALLY.**
- 3) Cranes, forklift trucks or other equipment which may be available are to be used to remove platform occupants and stabilize motion of the machine in case machine controls are inadequate or malfunction when used.

3 Platforms Caught Overhead

If the platform becomes jammed or snagged in overhead structures or equipment, do not continue operation of the machine from either the platform or the ground until the operator and all personnel are safely moved to a secure location. Only then should an attempt be made to free the platform using any necessary equipment and personnel. Do not operate controls to cause one or more wheels to leave the ground.

4 Post Incident Inspections and Repair

Following any incident, thoroughly inspect the machine and test all functions first from the ground controls, then from the platform controls. Do not lift above 4 m until you are sure that all damage has been repaired, if required, and that all controls are operating correctly.

Emergency Operation

1 Use of Ground Controls

Know how to use the ground controls in an emergency situation.

Ground personnel must be thoroughly familiar with the machine operating characteristics and the ground control functions. Training should include operation of the machine, review and understanding of this section and hands-on operation of the controls in simulated emergencies.

2 Operator Unable to Control Machine

If the Platform Operator Is Pined, Trapped or Unable to Operate or Control the Machine

- 1) Operate the machine from ground controls **ONLY** with the assistance of other personnel and equipment (cranes, overhead hoists, etc.) as may be required to safely remove the danger or emergency condition.

OPERATOR'S MANUAL *with Maintenance Information*

Storage



Observe and Obey:

- ☒ The storage of the machine shall be as follows, Incorrect storage may affect the performance and service life of the machine
- 1 The machine should be stored indoor coeditor and the ground should be firm and level. If be stored in outdoor condition the machine should be covered to prevent the water and dust.
- 2 Ensure the machine have been cleaned and the functional before stop to the storage. Repair an maintain it if necessary.
- 3 Stop the machine in suitable position so as the drive or move the machines conveniently.
- 4 The environment temperature should be within $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ and the environment humidity $\leq 90\%$.

Instructions for brake inspection

- 1 For electric drive motors, when storing the machine for a long time (1 month ~ half a year), brake release should be performed once a month to prevent the brake pads from sticking.
- 2 If the brake pads are sticking, brake assembly need to be replaced.

Before use after a period of storage

The machine be stored long time or exposed to extreme environmental conditions (heat, cold, humidity, dust, etc,) cannot be used to service until it has been inspected and maintained according to the daily check procedure and function test.

Rust protection

- 1 Before the machine is stored into the storage. Inspecting the paint before the machine is stored into the storage repaint the machine partly all completely against the damage.
- 2 For moving parts grease can be applied to prevent rust, such as bearings, joints and sliding rails

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 this manual.
- ☒ Before maintaining the machine, the workers must wear the personnel protective equipment such as gloves, safety shoes, safety cap and so on.
- ☒ Need to comply with local national laws and regulations of regular inspection and inspection frequency requirements.

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

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

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.

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 this 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

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Maintenance Inspection Report

Model
Serial number
Date
Hour meter
Machine owner
Inspected by (print)
Inspector signature
Inspector title
Inspector company
Instructions
<ul style="list-style-type: none"> • Make copies of this report to use for each inspection. • Select the appropriate checklist(s) for the type of inspection to be performed.
<input type="checkbox"/> Daily or 8 hours Inspection: A
<input type="checkbox"/> Quarterly or 250 hours Inspection: A+B
<input type="checkbox"/> Semi-annually or 500 hours Inspection: A+B+C
<input type="checkbox"/> Annually or 1000 hours Inspection: A+B+C+D
<input type="checkbox"/> Two year or 2000 hours Inspection: A+B+C+D+E
<ul style="list-style-type: none"> • 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 Batteries			
A-4 Check the Hydraulic Oil Level			
A-5 Function tests			
A-6 Lanyard anchorage point			
Perform after 40 hours:			
A-7 30 day service			
Checklist B	Y	N	R
B-1 Batteries			
B-2 Electrical wiring			
B-3 Tires and wheels			
B-4 Check the Oil Level in the Drive Hubs			
B-5 Key switch			
B-6 Emergency stop			
B-7 Horn (if equipped)			
B-8 Drive brakes			
B-9 Drive speed - stowed			
B-10 Drive speed - raised			
B-11 Lubricate			
B-12 Tank venting system			
Checklist C	Y	N	R
C-1 Platform overload (if equipped)			
Checklist D	Y	N	R
D-1 Return filter element			
D-2 Free-wheel configuration			
Checklist E	Y	N	R
E-1 Hydraulic oil			

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Checklist A Procedures

A-1

Inspect the Manuals and Decals

Maintaining the operator's manual 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 operator's manual is 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's manual is appropriate for the machine and the manual are legible and in good condition.
- ⊗ Result: The operator's 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's 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's manual. Refer to the operator's manual on your machine.

A-3

Check the Batteries



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.

Note: This check is not required for machines with lithium batteries, sealed batteries, or Maintenance - free batteries.

⚠ 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.

Batteries 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 platens 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.

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

OPERATOR'S MANUAL *with Maintenance Information*

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

- 1 Visually inspect the sight of hydraulic oil level from the side of the hydraulic oil tank.
- ⊙ Result: The hydraulic oil level should be between the maximum level and minimum level.
- 2 Add oil if necessary. Do not overfill.

NOTICE

Original Hydraulic oil specifications: L-HV46

Customers shall choose the appropriate hydraulic oil according to the ambient temperature used.

Example: L-HV32 or L-HV68

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's manual. Refer to the Operator's Manual on your machine.

Maintenance

A-6

Check Lanyard anchorage point

The lanyard anchorage point is the key component of the high-altitude operation safety system, which is directly related to the personal safety of the operator. Therefore the regular inspection and maintenance of the Lanyard anchorage point are particularly important.

Before each use, the comprehensive inspection of the anchorage points belt should be carried out to ensure that there are no cracks or de-welding phenomena in the welds, and no cracks or deformations in the structural components. Ensure the labels are clear and complete, attach only one lanyard per lanyard anchorage point.

If signs of damage are found at the anchorage points, it should be stopped immediately, and can only be used after the repair is qualified.

A-7

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 Tires and Wheels (including lug nut torque)

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Checklist B Procedures

B-1

Inspect the Batteries



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.

- 1 The connection between the electrode and the data should be fastened. There should be no dirt, metal dust or other dirt at the connection. If there is any, compressed air should be used to clean it
- 2 Make sure the battery is reliable and stable
- 3 The battery pack should not be cracked, bulging, deformed, pole loose and other abnormal conditions
- 4 Battery voltage, temperature and other states should also be checked before use to ensure that all values are within the normal range before starting up for use
- 5 It is forbidden to use the battery over discharge to ensure that the cell voltage of the unit is not lower than 2V
- 6 Inspect the battery charger plug and pigtail for damage or excessive insulation wear. Replace as required.

- 7 Connect the battery charger to a properly grounded 110 - 230V / 50 – 60 Hz or 380V single phase AC power supply.

- ⦿ Result: The charger should operate and begin charging the batteries.
- ⊗ 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 batteries.

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

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
 - Hydraulic power unit
 - Battery pack
 - Platform controls
- 3 Inspect for a liberal coating of dielectric grease in the following locations:
 - Between the ECM and platform controls
 - All wire harness connectors
 - Level sensor
- 4 Inspect the center chassis area and scissor arms for burnt, chafed and pinched cables.
- 5 Inspect the following areas for burnt, chafed, corroded, pinched and loose wires:
 - Scissor arms
 - ECM to platform controls
 - Power to platform wiring
- 6 Inspect for a liberal coating of dielectric grease in all connections between the ECM and the platform controls.

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

B-3

Inspect the Tires and Wheels



Dingli requires that this procedure be performed every 250 hours or quarterly, whichever comes

Maintaining the tires and wheels in good condition is essential to safe operation and good performance. Tire and/or 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 all tire treads and sidewalls for cuts, cracks, punctures and unusual wear.
- 2 Check each wheel for damage, bends and cracks.
- 3 Check each lug nut for proper torque.

lug nut torque	450Nm
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B-4

Check the Oil Level in the Drive Hubs



Dingli requires that this procedure be performed every 250 hours or quarterly, whichever comes

Failure to maintain proper drive hub oil levels may cause the machine to perform poorly and continued use may cause component damage.

- 1 Before draining oil it is mandatory to rotate the planetary gear reduction in order to move the oil plug in filling position, then loosen the oil plug and wait until the internal pressure is completely released.
- 2 Remove the plug located and check the oil level.
- ⊙ Result: The oil level should be even with the bottom of the plug hole.
- 3 If necessary, remove the plug and add oil until the oil level.
- 4 Apply pipe thread sealant to the plug(s), and then install the plug(s) in the drive hub.
- 5 Repeat this procedure for each drive hub.

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. Failure of the key switch to activate the appropriate control panel could cause a hazardous operating situation.

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

B-6

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. Pull out the platform and ground red Emergency Stop button to the on position.
- 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. Pull out the platform and ground red Emergency Stop button to the on position.
- 4 Push in 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.

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

B-7

Test the Automotive-style Horn

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

A functional horn is essential to safe machine operation. The horn is activated at the platform controls and sounds at the ground as a warning to ground personnel. An improperly functioning horn will prevent the operator from alerting ground personnel of hazards or unsafe conditions.

- 1 Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
- 2 Push down the horn button at the platform controls.

⊙ Result: The horn should sound.

Note: If necessary, the horn can be adjusted to obtain the loudest volume by turning the adjustment screw near the wire terminals on the horn.

B-8

Test the Drive Brakes



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

Proper brake action is essential to safe machine operation. The drive brake function should operate smoothly, free of hesitation, jerking and unusual noise. Hydraulically-released individual wheel brakes can appear to operate normally when they are actually not fully operational.

- 1 Mark a test line on the ground for reference.
- 2 Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
- 3 Lower the platform to the stowed position.
- 4 Press the drive function select button.
- 5 Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the test line.
- 6 Bring the machine to top drive speed before reaching the test line. Release the function enable switch or the joystick when your reference point on the machine crosses the test line.
- 7 Measure the distance between the test line and your machine reference point.

⊙ Result: The machine stops within the specified braking distance. No action required.

⊗ Result: The machine does not stop within the specified braking distance.

Maintenance

Note: The brakes must be able to hold the machine on any slope it is able to climb.

- 8 Replace the brakes and repeat this procedure beginning with step 1.

Braking distance, maximum

High range on paved surface	<210cm
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B-9

Test the Drive Speed - Stowed Position



Dingli requires that this procedure be performed every 250 hours or quarterly, whichever comes

Proper drive function movement is essential to safe machine operation. The drive function should respond quickly and smoothly to operator control. Drive performance should also be free of hesitation, jerking and unusual noise over the entire proportionally control led speed range.

- 1 Create start and finish lines by marking two lines on the ground 12.2m apart.
- 2 Turn the key switch to platform controls
- 3 Pull out the platform and ground red Emergency Stop button to the on position.
- 4 Lower the platform to the stowed position.
- 5 Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the start and finish lines.
- 6 Bring the machine to maximum drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
- 7 Continue at full speed and note the time when the machine reference point passes over the finish line. The time is less than 29.3 sec.

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

B-10

Test the Drive Speed -Raised Position



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

Proper drive function movement is essential to safe machine operation. The drive function should respond quickly and smoothly to operator control. Drive performance should also be free of hesitation, jerking and unusual noise over the entire proportionally control led speed range.

- 1 Create start and finish lines by marking two lines on the ground 5m apart.
- 2 Turn the key switch to platform controls
- 3 Pull out the platform and ground red Emergency Stop button to the on position.
- 4 Press and hold the function enable button. Raise the platform approximately 5.0m from the ground.
- 5 Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the start and finish lines.
- 6 Bring the machine to maximum drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
- 7 Continue at full speed and note the time when the machine reference point passes over the finish line. The time is less than 180 sec.

B-11

Lubrication



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

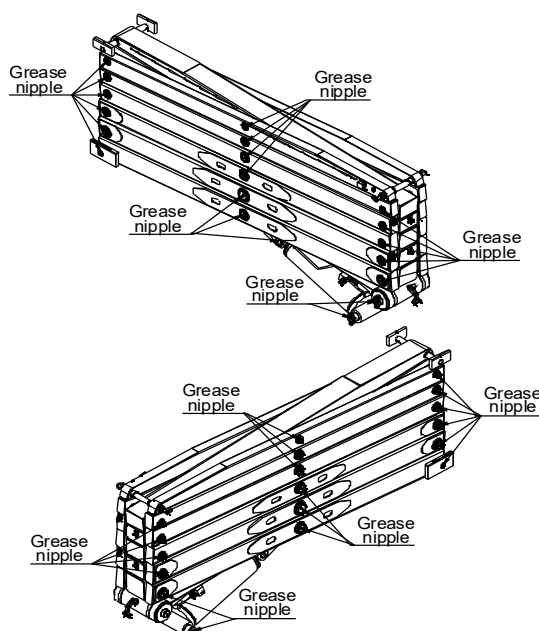
Good lubrication is essential to machine performance and service life. Failure to lubricate may cause the machine to perform poorly and continued use may cause component damage.

Lubrication involves:

- The lubricating points on the scissor joints
- The lubricating points on the chassis.
- The lubricating points on the platform

The following points must be lubricated on the scissor joint in particular:

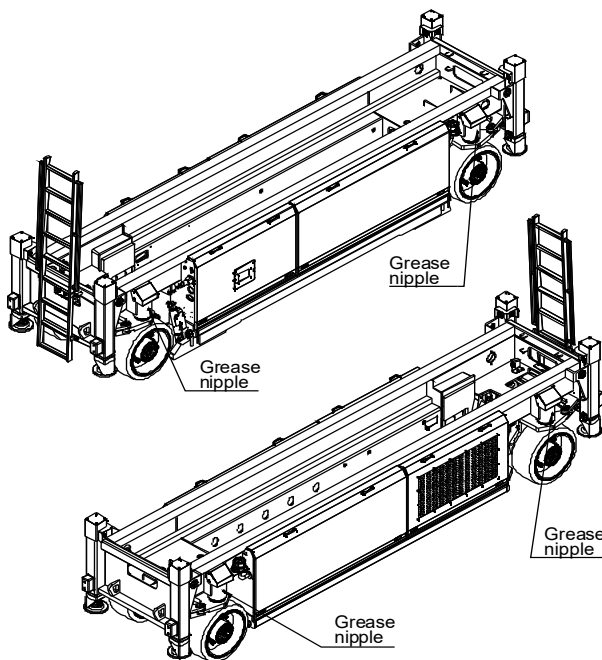
- Scissor shaft
- Sliding blocks
- lifting cylinder



Maintenance

The following points must be lubricated on the chassis in particular:

- Steering
- Sliding tracks of the sliding blocks



The following points must be lubricated on the platform in particular:

- Sliding blocks - sliding tracks

Note: Lubricate all grease points of the aerial work platform only slightly when re-lubricating, but always ensure sufficient lubrication. Use high temperature-resistant grease.

B-12

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 and a clogged suction strainer 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.

Note: 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.

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Checklist C Procedures

C-1

Test the Platform Overload System



Dingli specifications require that this procedure be performed every 500 hours or semi-annually, 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.

Note: Perform this procedure with the machine on a firm, level surface that is free of obstructions.

- 1 Turn the key switch to platform controls.

Pull out the platform and ground red Emergency Stop button to the on position.

- 2 Determine the maximum platform capacity.

- 3 Using a suitable lifting device, place an appropriate test weight equal to the maximum platform capacity in the center of the platform floor. Raise the platform.

- ⦿ Result: The overload alarm not sounds during the whole trip, indicating a normal condition.
 - ⊗ Result: The overload alarm sounds during the whole trip. Calibrate the platform overload system.
- 4 The platform should lower to the stowed position

- 5 Add an additional weight to the platform not to exceed 20% of the maximum rated load. Raise the platform.

- ⦿ Result: The overload alarm at the platform controls sound, indicating a normal condition.

- ⊗ Result: The overload alarm at the platform controls does not sound. Calibrate the platform overload system.

- 6 Test all machine functions from the platform controls.

- ⦿ Result: All platform control functions should not operate.

- 7 Turn the key switch to ground control.

- 8 Test all machine functions from the ground controls

- ⦿ Result: All ground control functions should not operate.

- 9 Lift the test weight off the platform floor using a suitable lifting device.

- ⦿ Result: The overload alarm at the platform controls should not sound, indicating a normal condition.

- ⊗ Result: The overload alarm at the platform controls sounds. Calibrate the platform overload system.

- 10 Test all machine functions from the ground controls.

- ⦿ Result: All ground control functions should operate.



Maintenance

- 11 Turn the key switch to platform controls.
 - 12 Test all machine functions from the platform controls.
- ⊙ Result: All platform control functions should operate.

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Checklist D Procedures

D-1

Replace the Hydraulic Tank Return Filter Element



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

Replacement of the hydraulic tank return filter is essential for good machine performance and service life. A dirty or clogged filter may cause the machine to perform poorly and continued use may cause component damage. Extremely dirty conditions may require that the filter be replaced more often.

CAUTION Beware of hot oil. Contact with hot oil may cause severe burns.

- 1 Tag and disconnect the hydraulic tank return line .Cap the fitting on the filter head.
- 2 Clean the area around the oil filter. Remove the filter with an oil filter wrench.
- 3 Apply a thin layer of oil to the new oil filter gasket.
- 4 Install the new filter and tighten it securely by hand.
- 5 Use a permanent ink marker to write the date and number of hours from the hour meter onto the filter.
- 6 Inspect the filter and related components to be sure that there are no leaks.
- 7 Clean up any oil that may have spilled.

D-2

Check the Free-wheel Configuration



Dingli specifications require that this procedure be performed every 1000 hours or annually, whichever comes first.

Proper use of the free-wheel configuration is essential to safe machine operation. The free-wheel configuration is used primarily for towing. A machine configured to free-wheel without operator knowledge may cause death or serious injury and property damage.

WARNING Collision hazard. Select a work site that is firm and level.

NOTICE Component damage hazard. If the machine must be towed, do not exceed 1.5km/h.

- 1 Chock the front wheels.
- 2 Center a lifting jack of ample capacity (60,000 lbs / 30,000 kg) under the drive chassis between the rear wheels.
- 3 Lift the wheels off the ground and place blocks under the drive chassis for support.

WARNING Crushing hazard. The chassis could fall if not properly supported.

- 4 Release the brake.
- 5 Manually rotate each rear wheel.
- ⊙ Result: Each wheel should rotate with minimum effort.
- 6 Reset the brake. Rotate each wheel to check for engagement. Raise the machine and remove the blocks. Lower the machine.

Maintenance

- 7 Chock the rear wheels.
- 8 Center a lifting jack of ample capacity (60,000 lbs / 30,000 kg) under the drive chassis between the front wheels.
- 9 Lift the wheels off the ground and place blocks under the drive chassis for support.

⚠ WARNING

Crushing hazard. The chassis could fall if not properly supported.

- 10 Release the brake.
- 11 Manually rotate each front wheel.
- ⦿ Result: Each wheel should rotate with minimum effort.
- 12 Reset the brake. Rotate each wheel to check for engagement. Raise the machine and remove the blocks. Lower the machine.

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Checklist E Procedures

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 and suction strainers 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 frequently.

NOTICE Component damage hazard.

The work area and surfaces where this procedure will be performed must be clean and free of debris that could get into the hydraulic system.

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.

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.

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.

- 1 Disconnect the battery pack from the machine.
- 2 Remove the oil drain plug at bottom.
- 3 Drain all of the oil into a suitable container.
- 4 Open the hydraulic tank clear cover.
- 5 Tag and disconnect the hydraulic valve return line from the hydraulic filter head and remove the line from the tank. Cap the fitting on the filter head.
- 6 Tag and disconnect the hydraulic pump inlet line and remove the line from the tank. Cap the fitting on the pump.
- 7 Clean up any oil that may have spilled. Properly discard the used oil.
- 8 Clean the inside of the hydraulic tank using a mild solvent. Allow the tank to dry completely.
- 9 Install the new oil return filter and oil suction filter onto the tank.
- 10 Tighten the drain plug.

Maintenance

- 11 Connect the suction tubing of the hydraulic pump to the hydraulic tank.
- 12 Connect the valve block return pipe to the filter..
- 13 Install the hydraulic tank clear cover.
- 14 Fill the tank with hydraulic oil until the fluid is full in the hydraulic tank. Do not overfill.
- 15 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.

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Fault State

In the fault state, a fault code from the list will be displayed flashing at a 1 Hz rate (0.5 seconds on, 0.5 off).

List of Fault Codes

Display for Platform	Display for Ground	Description	Repair
01	System fault	Main ECU System Fault	Replace Main ECU
02	Communication fault	ECU/Platform Communication Fault	Check the wiring, check the platform / ground control
14	Angle sensor fault	Angle Sensor Fault	Check the sensor, check the wiring
15	Load sensor fault	Load Sensor Fault	Check the sensor, check the wiring
20	chassis start button fault	Chassis Start Switch ON at power-up	Check the switch, check the wiring
21	chassis choke button fault	Chassis Choke Switch ON at power-up	Check the switch, check the wiring
22	chassis up button fault	Chassis Up Switch ON at power-up	Check the switch, check the wiring
23	chassis enable button fault	Chassis Lift Switch ON at power-up	Check the switch, check the wiring
24	chassis down button fault	Chassis Down Switch ON at power-up	Check the switch, check the wiring
25	PCU steer left button fault"	Platform Left Turn Switch ON at power-up	Check the switch, replace the platform
26	PCU steer right button fault	Platform Right Turn Switch ON at power-up	Check the switch, replace the platform
27	PCU enable button fault	Platform Drive Enable Switch ON at power-up	Check the switch, replace the platform
28	PCU joystick out of neutral fault	Platform Joystick not in neutral ON at power-up	Check the switch, replace the platform
31	PCU choke button fault	Platform Choke Switch ON at power-up	Check the switch, replace the platform

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Display for Platform	Display for Ground	Description	Repair
32	PCU start button fault	Platform Start Switch ON at power-up	Check the switch, replace the platform
33	PCU LF outrigger button fault	Platform Left Front Outrigger Enable Switch ON at power-up	Check the switch, replace the platform
34	PCU RF outrigger button fault	Platform Right Front Outrigger Enable Switch ON at power-up	Check the switch, replace the platform
35	PCU LR outrigger button fault	Platform Left Rear Outrigger Enable Switch ON at power-up	Check the switch, replace the platform
36	PCU RR outrigger button fault	Platform Right Rear Outrigger Enable Switch ON at power-up	Check the switch, replace the platform
37	PCU auto outrigger button fault	Platform Outrigger Auto Level Enable Switch ON at power-up	Check the switch, replace the platform
38	Footpedal Fault	Foot switch fault	Check the switch, check the wiring
41	Pothole switch fault	Pothole switch fault	Check the switch, check the wiring
42	Down limit switch fault	Limit down switch fault	Check angle sensor, Check limit switch Check wiring
43	Outrigger not extended	Outrigger not extended	Check limit switch Check wiring
53	Proportional down valve fault	Proportional down valve fault	check the wiring, replace the valve
54	UP valve fault	UP valve fault	check the wiring, replace the valve
55	Down valve fault	Down valve fault	check the wiring, replace the valve
56	Steer forward right valve fault	Steer forward right valve fault	check the wiring, replace the valve
57	Steer forward left valve fault	Steer forward left valve fault	check the wiring, replace the valve
62	Steer reverse right valve fault	Steer reverse right valve fault	check the wiring, replace the valve
64	Unload 1 valve fault	Unload 1 valve fault	check the wiring, replace the valve

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Display for Platform	Display for Ground	Description	Repair
65	Unload 2 valve fault	Unload 2 valve fault	check the wiring, replace the valve
68	Battery low voltage fault	Low Battery Voltage	check the wiring, check the battery
74	PUMP AC fault	Pump Motor controller Alarm	check the wiring, replace the controller
75	LF AC fault	Left Front Motor controller Alarm	check the wiring, replace the controller
76	RF AC fault	Right Front Motor controller Alarm	check the wiring, replace the controller
77	LR AC fault	Left Rear Motor controller Alarm	check the wiring, replace the controller
78	RR AC fault	Right Rear Motor controller Alarm	check the wiring, replace the controller
80	Low SOC fault	Battery Low SOC fault	Check the battery
81	LF outrigger valve fault	LF outrigger valve fault	check the wiring, replace the valve
82	LR outrigger valve fault	LR outrigger valve fault	check the wiring, replace the valve
83	RF outrigger valve fault	RF outrigger valve fault	check the wiring, replace the valve
84	RR outrigger valve fault	RR outrigger valve fault	check the wiring, replace the valve
85	Extend outrigger valve fault	Extend outrigger valve fault	check the wiring, replace the valve
86	Retract outrigger valve fault	Retract outrigger valve fault	check the wiring, replace the valve
87	Out hole valve fault	Out hole valve fault	Check the wiring, replace the valve
88	In hole valve fault	In hole valve fault	check the wiring, replace the valve
89	Outrigger valve fault	outrigger valve fault	check the wiring, replace the valve
90	Factory Test Mode	Factory Test Mode	Close Factory Test Mode

OPERATOR'S MANUAL *with Maintenance Information*

Maintenance

Display for Platform	Display for Ground	Description	Repair
91	Over Steering Angle Fault	Over Steering Angle Fault	Check Steering Angle
98	Leg Pressure Fault	Outrigger Pressure Fault	check the wiring, replace the sensor
OL	Overload fault	Platform Overload Fault	Remove the excess load immediately.
LL	Tilt fault	Machine Tilted Beyond Safe Limits Fault	check the wiring, replace the sensor

For more information, please consult the appropriate Dingli Service Dept.

OPERATOR'S MANUAL *with Maintenance Information*

Disposal

Disposal

When the MEWP is damaged, contact Dingli for further evaluation. If it cannot be repaired for safe use, the MEWP must be disposed. Always follow your local law or regulations to dispose the MEWP.

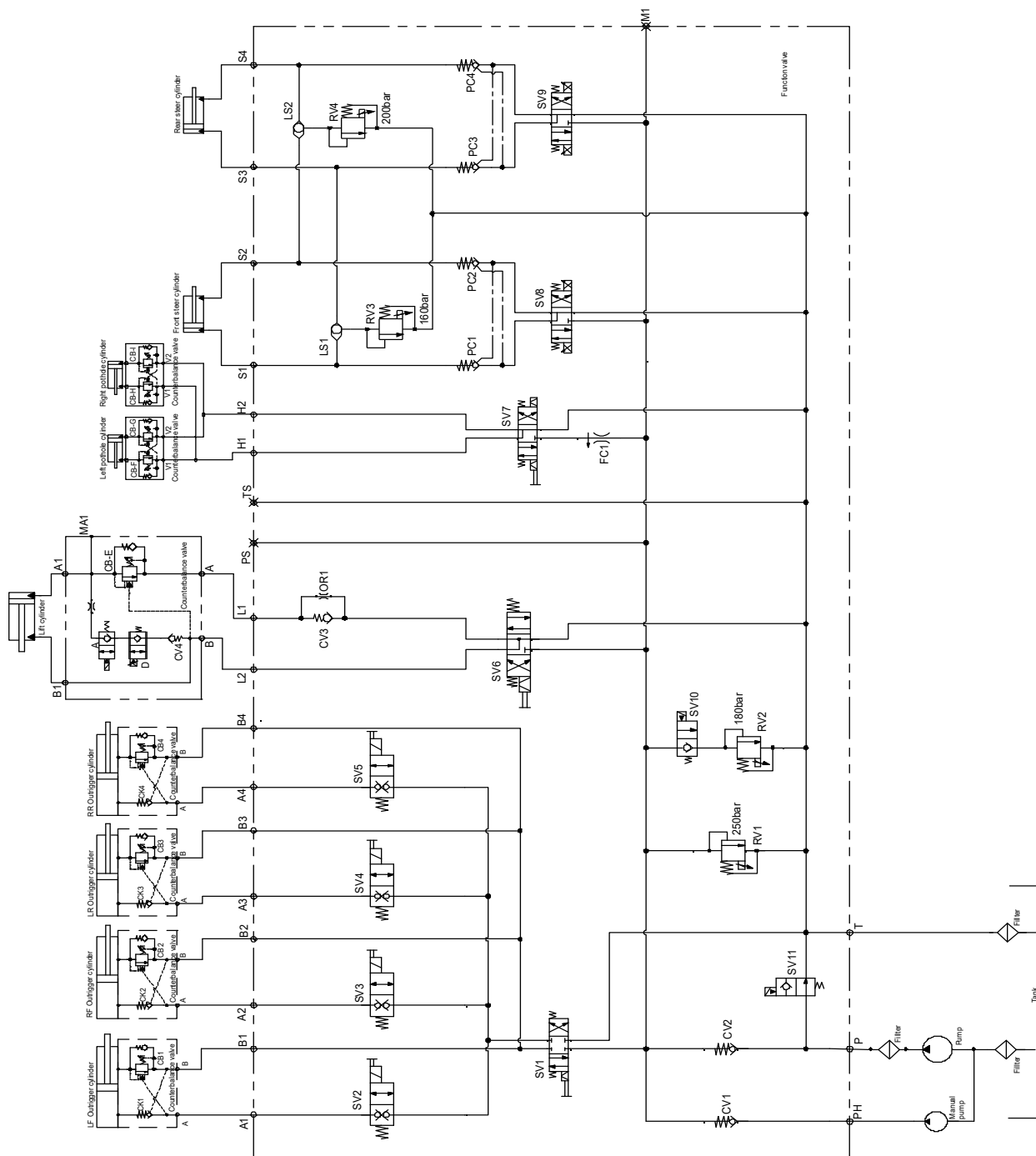
To prevent pollution, pay attention on waste disposal:

Drain the hydraulic oil into a container, do not it directly into the ground, sewers, rivers, oceans or lakes. Follow laws and regulation for the disposal of hazardous substance such as hydraulic, battery etc.

Properly dispose of the machine and spare parts according to laws and regulations.

Schematic

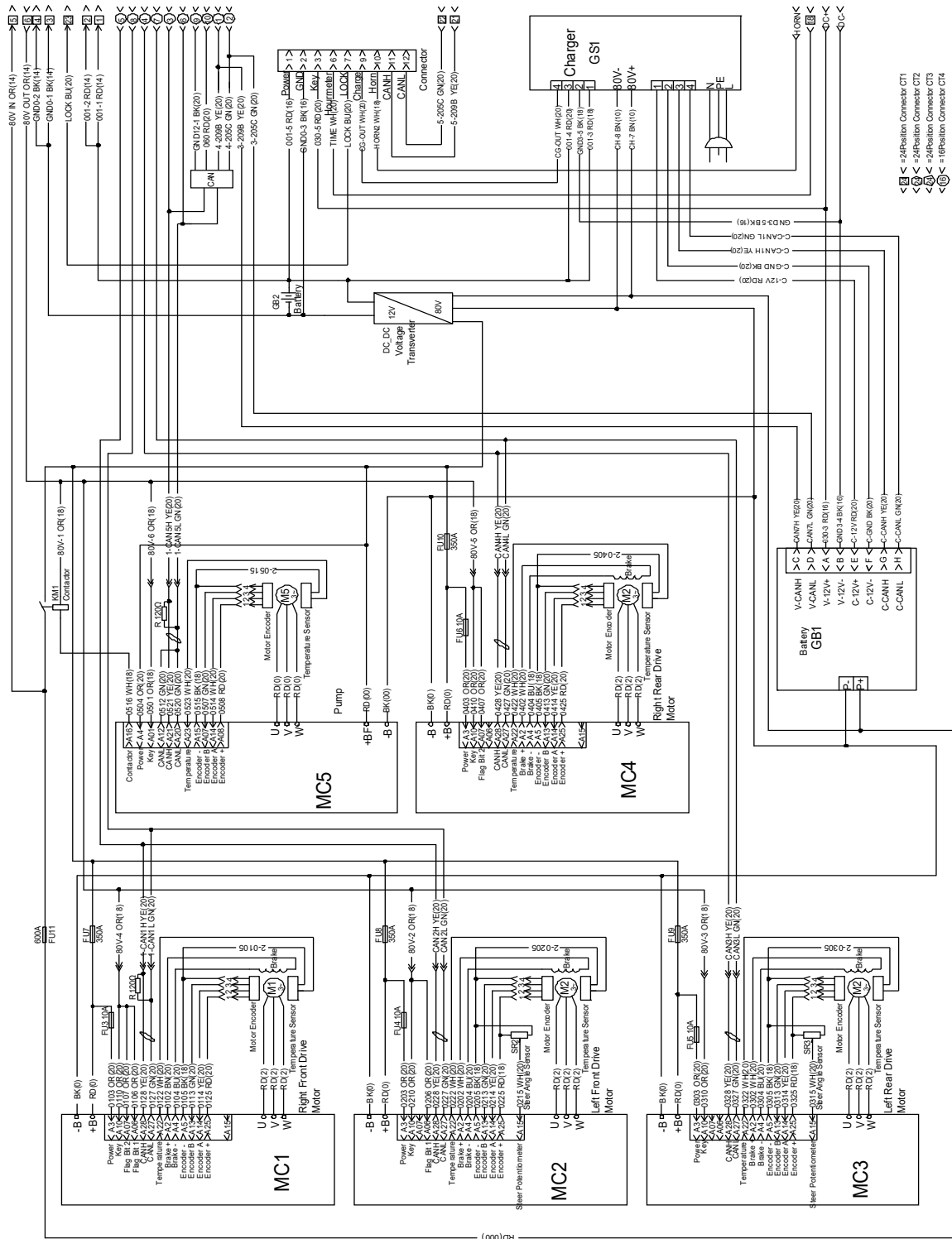
Hydraulic Schematic



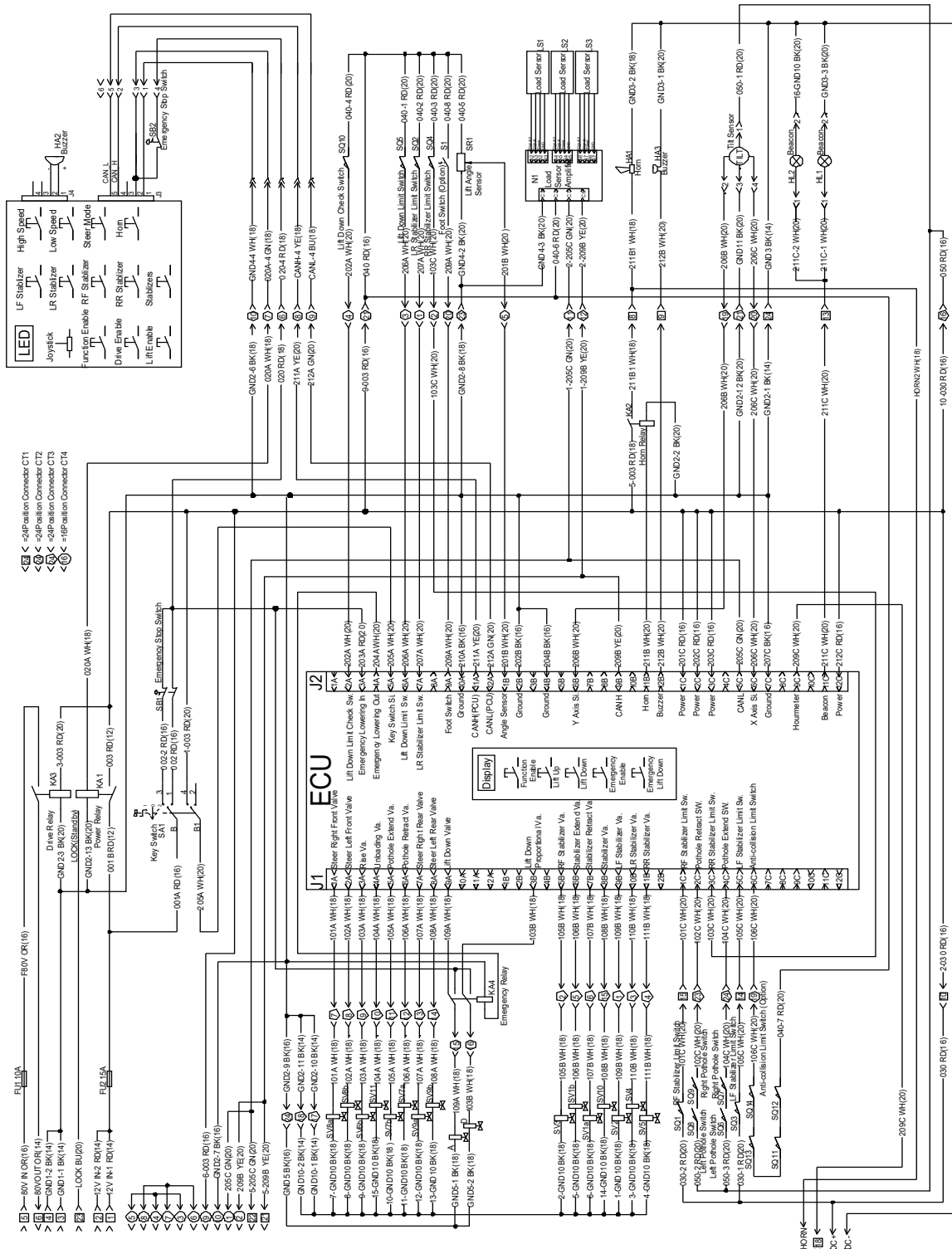
OPERATOR'S MANUAL with Maintenance Information

Schematic

Electrical Schematic



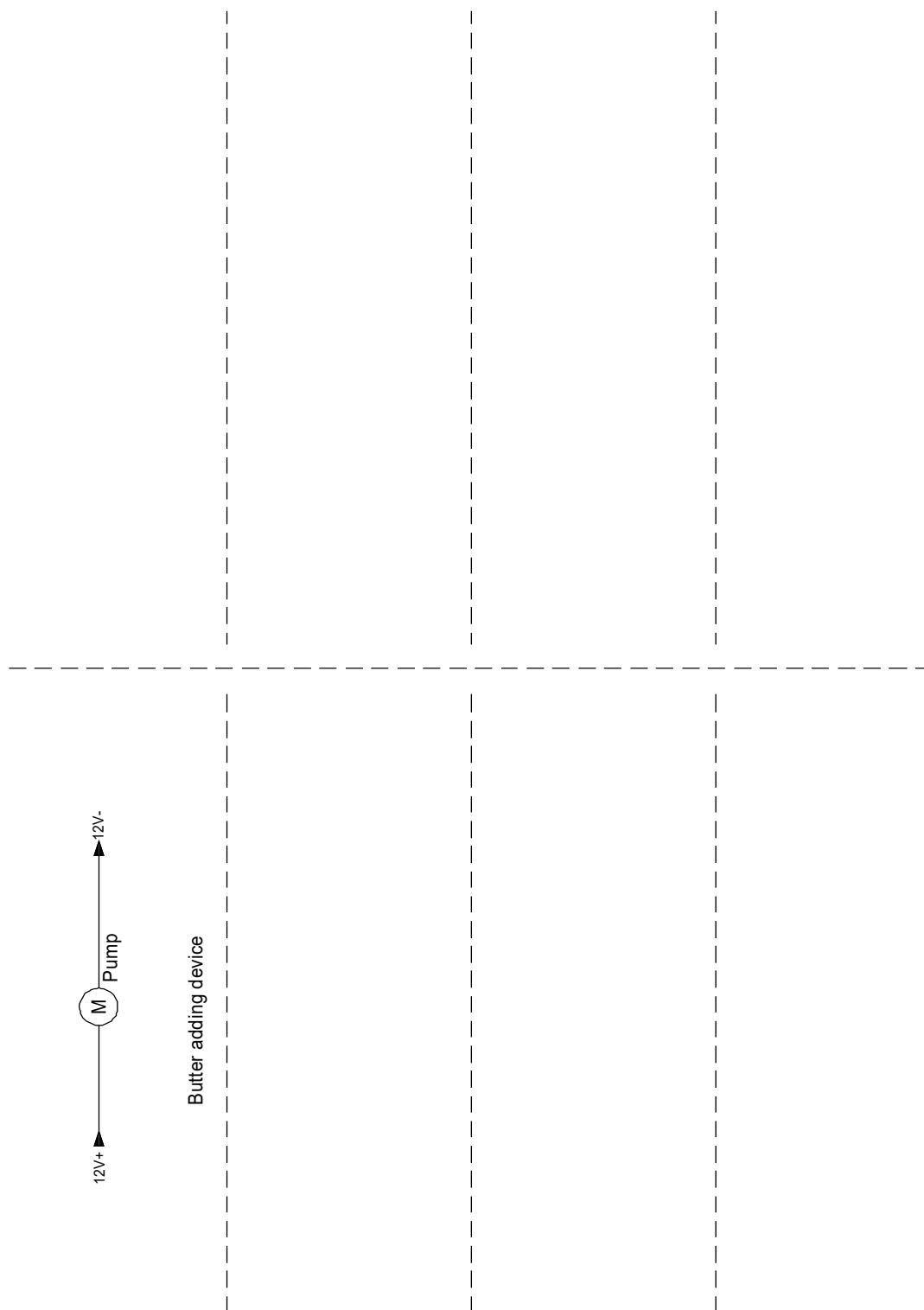
Electrical Schematic



OPERATOR'S MANUAL *with Maintenance Information*

Schematic

Electrical Schematic - Optional



Inspection and Repair Log

The maintenance checks carried out on the machine must be recorded in a document called the Inspection Register. Replacements of the components of the hydraulic system, electrical system, mechanisms or structural elements, safety devices as well as faults of a certain entity and relative repairs must also be recorded in the Inspection Register.

The Inspection Register must be considered as an integral part of the machine; it must accompany the machine throughout its life, up to final disposal. The Inspection Register must be at the disposal of the competent vigilance authorities for a period of five years from the last records or until the equipment is decommissioned, depending on whichever is done first. A document certifying the last inspection must accompany the equipment wherever it is used.

Inspection and Repair Log

[illegible]

OPERATOR'S MANUAL *with Maintenance Information*

EC Declaration of Conformity



EC Declaration of Conformity



Zhejiang Dingli Machinery Co., Ltd hereby declares that the machinery described below complies with the provisions of the following Directives:

1. EC Directive 2006/42/EC, Machinery Directive, under consideration of harmonized European standard EN280-1:2022, issued by:
TÜV SÜD Product Service GmbH Zertifizierstellen.Address: Ridlerstraße 65, 80339 MÜNCHEN, Germany.
Identification number: 0123
EC type examination, test certificate no. <variable field>
EC type examination, Report no. <variable field>
2. EC Directive 2014/35/EU, Low Voltage Directive, under consideration of harmonized European standard EN 60204-1:2018.
3. EC Directive 2014/30/EU, EMC Directive, under consideration of harmonized European standard EN61000-6-2 and EN 61000-6-4.

Test Report:

This machine has been tested and passed prior to entering the market.

1. BRAKES: Brakes working properly in forward and reverse.
2. OVERLOAD: Overload tested at XXX% rated load.
3. FUNCTIONAL: Smooth operation at XXX% rated load.
4. FUNCTIONAL: AI safety devices working correctly.
5. FUNCTIONAL: Speeds set within permitted specification.

All of technical documentation ,e.g. quality assurance measures for design and production

Name and address of the person (established in the Community) compiled the technical file:

Dingli AWP Europe Trading Limited B.V.

Zuidplein 116,Tower H,Level 14,1077XV Amsterdam,the Netherlands

Model / Type:	<variable field>
Product:	<variable field>
Type Designation:	<variable field>
Serial Number:	<variable field>
Manufacture Date:	<variable field>
Manufacturers : Zhejiang Dingli Machinery Co., Ltd No. 1225 Baiyun South Road, Leidian Town, Deqing, Zhejiang 313219, P.R. China	

Person responsible for making this declaration

Name ,Surname: <variable field>

Position/ Title: <variable field>

<variable field>
(Place)

<variable field>
(Date)

<variable field>
(Company stamp and legal signature)





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