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Translated version

Operation Manual

GTJZ0608E/0608E/2132E

GTJZ0808E/0808E/2732E



CE GB ANSI SFA AS/NZS EAC

SINOBOOM



WARNING

Operating, servicing and maintaining this vehicle or equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure and avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle or equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing. For more information, go to: www.P65warnings.ca.gov.

For disposal, please comply with local regulations.

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To Users

Thank you for choosing and using the machinery of **Hunan Sinoboom Intelligent Equipment Co., Ltd.**

Use this machine only to transport tools to work locations and for performing tasks on the work platform. Only authorized personnel who have received appropriate MEWP training may operate this machine. Before using the machine, carefully read and fully understand this manual and strictly follow its relevant instructions. Different countries, regions, or governments may have equipment operating regulations that conflict with this manual. The stricter safety operating regulations should be followed. Our company will not be liable for any adverse consequences arising from the failure to operate and use the machine in accordance with this manual or the relevant regulations.

This manual provides necessary safety precautions and operation instructions for users. This manual covers the basic configuration information of one or more models. Please refer to the information applicable to your machine model. Treat this manual as an integral part of the machine and keep it with the machine at all times. This manual may not be copied, distributed, sold, or altered without written permission from Sinoboom.

Due to continuous improvement and upgrading of product design and different product models covered, some charts and textual content in the manual may be not applicable to your machine. Our company reserves the right to revise the contents of this manual due to technological improvements. Changes will be made without prior notice. Contact Sinoboom to obtain the most current version of the manual.

Please go to www.sinoboom.com.cn to download your desired Operation Manual, Maintenance Manual and Parts Manual.

If you have any questions, contact **Hunan Sinoboom Intelligent Equipment Co., Ltd.**

Manual Revision History:

[illegible]

Applicable Scope

The manual applies to the following models and serial numbers:

Model	Metric Trade ID	Imperial Trade ID	Serial No.
GTJZ0608E	0608E	2132E	0105300355 to date
GTJZ0808E	0808E	2732E	0105401253 to date

Note:

- Check the machine model and serial number on the machine nameplate. The location of the nameplate can be found in the ***Diagram of Decal Positions*** section of the Operation Manual.
- Product model numbers are indicated on the nameplates to distinguish products with different main technical parameters.
- Product trade names (product commercial codes) are used for marketing purposes and machine decals for the differentiation of products with different main technical parameters. Product trade names are categorized as metric and imperial trade names: metric trade names are applicable to regions/countries using the metric system or as specifically requested by customers; imperial trade names are applicable to regions/countries using the imperial system or as specifically requested by customers.

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1 SAFETY WARNING SYMBOLS AND SIGNS

The safety warning symbols used on the machine and in the manuals have the following meanings:



Safety warning symbol. This symbol is used to alert you to potential hazards. Observe all safety instructions following a symbol to avoid possible injuries.



DANGER

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



WARNING

Indicates an imminently hazardous situation that, if not avoided, could result in death or serious injury.



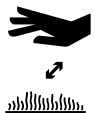
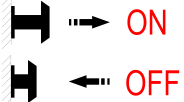
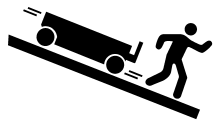
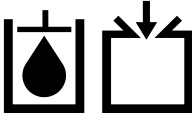
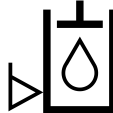
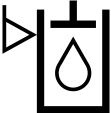
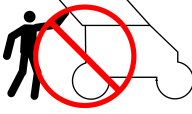
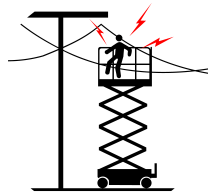
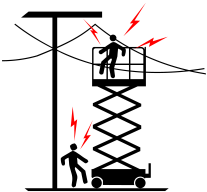
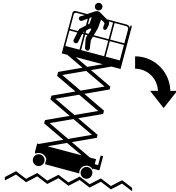
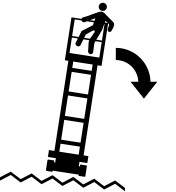
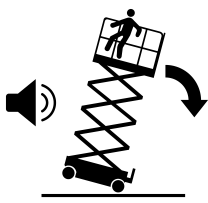
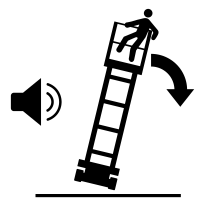
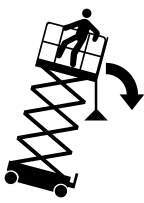
CAUTION

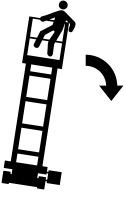
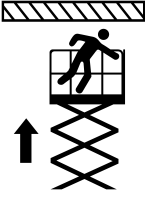
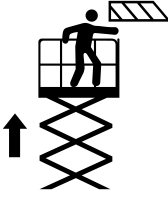
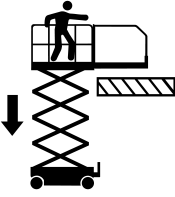
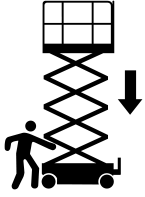
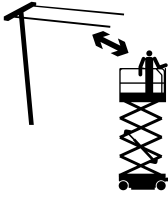
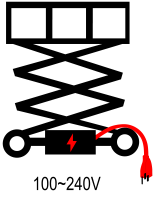
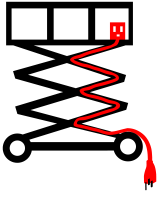
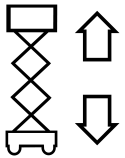
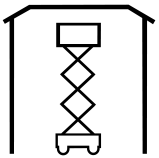
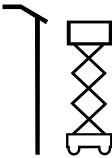
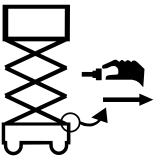
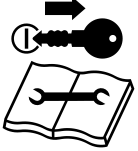
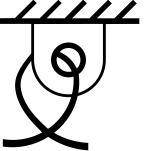
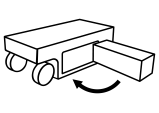
Indicates an imminently hazardous situation that, if not avoided, could result in minor or moderate injury.

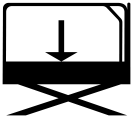
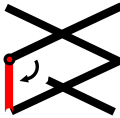
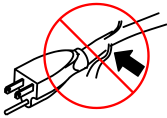
Note

Indicates information directly or indirectly related to personal safety, machine damage, or property loss.

The safety signs used on the machine and in the manuals have the following meanings:

 Read the Maintenance Manual	 Anchorage point only for 1 person	 Wind speed	 Chemical burns hazard	 Wedge the wheels
 Refer to the Operation Manual	 Add lubricant	 Crushing hazard – safety shoes required	 Danger of hot, high-pressure fluid spray	 Wind
 Press the directional valve	 Repeatedly operate the manual brake release valve	 Release the brake	 Alarm sounding	 Horn
 Noise level	 Burn hazard	 Keep a safe distance from high temperatures	 Pull out - ON Press - OFF	 Collision hazards - release the brake on ramp
 Hydraulic oil filler	 Hydraulic oil level - low	 Hydraulic oil level - high	 Temperature	 Replace with tires of the same specification
 Only trained maintenance personnel can access the compartment	 Electrocution hazard on platform	 Electrocution hazard on the ground and platform	 Tipping hazard – avoid uneven ground	 Tipping hazard – avoid uneven ground
 Tipping hazard – never use machine in strong, gusty winds	 Tipping hazard – never use machine in strong, gusty winds	 Tipping hazard – never push or pull objects outside the platform	 Tipping hazard – never suspend objects from the platform	 Tipping hazard – never place ladders and scaffolding on the platform

 Tipping hazard – Never leave the chassis box open	 Collision hazard – keep head clear of overhead obstacles when raising platform	 Crushing hazard – keep hands clear from overhead obstacles when raising platform	 Collision hazard – keep the platform clear of obstacles below when lowering the platform	 Crushing hazards- Keep hands away from scissor arms when lowering the platform
 Fall hazard – never climb on platform guardrails	 Fall hazard - never climb on scissor arms	 Keep a safe distance from power lines	 Battery charging plug	 Platform power plug
 Platform up and down movement	 Indoor use	 Outdoor use	 Emergency lowering handle position	 Maximum platform height
 Only qualified maintenance personnel may perform maintenance work	 Wear protective clothing and safety goggles	 Lateral force	 Electrocution hazard	 Battery explosion hazard
 No smoking or open flames/sparks	 No smoking or open flames/sparks	 Lifting point	 Lashing point	 Tire ground pressure
 Forklift pocket position	 Close the chassis box	 Tool or weight	 Fast/high speed	 Slow/low speed

 Platform load capacity	 Respective load capacity of fixed platform and extending platform	 Engage the safety arm	 Do not use damaged power cords	
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2 IMPORTANT SAFETY RULES

2.1 GENERAL

This chapter briefly describes the precautions that must be followed for safe and proper operation and maintenance of this machine. To ensure safe use and proper operation of the machine, the operator must perform routine maintenance on the machine in accordance with the Operation Manual and Maintenance Manual. In addition, the machine must be regularly maintained and serviced by a qualified service technician according to the instructions provided in the Maintenance Manual.

Familiarize yourself with the local regulations concerning Mobile Elevated Work Platforms (MEWPs) and related operations. The rules for equipment operation from different countries, regions, or governments may conflict with this manual, so the stricter safety operation rules should be followed. If you have any questions about safety, training, inspection, maintenance, purposes and operation of the machine, please contact Hunan Sinoboom Intelligent Equipment Co., Ltd.

Sinoboom cannot foresee all the potential hazards related to this machine, so all parties involved should place high importance on safety issues.



WARNING

Failure to follow the operating instructions and safety rules in this manual may result in machine damage, property loss, or personal injury.

2.2 PREPARING FOR OPERATION

Operator's Training and Knowledge Requirements

Before operating this machine, read, understand, and comply with all applicable regulations and requirements of employers, local authorities, and the government related to equipment use.

Before operating this machine, you should read and fully understand this manual, undergo professional training based on this Operation Manual, and only operate this machine independently after acquiring the qualification for proficient operation. The training content should include, but not be limited to, the following topics:

- Warnings, operating instructions, and the Operation Manual on the machine.

- Pre-start test
- Factors affecting the stability of the machine
- Common hazards and how to avoid them
- Workplace Inspection
- Functions and related knowledge of all controls, including emergency controls
- Use of personal protective equipment appropriate to the work task, workplace, and environment
- Safe operation
- Transport
- How to prevent unauthorized use

Workplace Inspection

Before and during the operation of the machine, users must pay attention to the hazards and take preventive measures to avoid hazards in the work area. Without the written permission of Hunan Sinoboom Intelligent Equipment Co., Ltd., this machine shall not be used in the following areas or conditions:

- Steep slopes or caves
- Ground with protrusions, obstacles, or debris
- Insecure or slippery surfaces
- Surfaces not sufficient to support the machine (machine weight + platform weight)
- Trucks, trailers, rail cars, ships, or other equipment
- Dangerous locations
- Places with overhead electric wires, cranes, or other potential obstacles
- In gusty and/or strong wind conditions, or lightning
- Unauthorized persons
- Other areas where unsafe conditions may occur

Machine Inspection

Make sure to complete all checks in strict accordance with the steps in the **Pre-operation Test** section of this manual before operating the machine:

- **Pre-start test**: Ensure that no components are loose/loosening, missing or altered. Components must be securely fixed, without visible damage, leakage, or excessive wear, etc., all parts must be in their original locations and operating position; make sure that all fluid levels, battery level, etc. are appropriate; ensure that maintenance work has been completed

in accordance with the requirements specified in the Maintenance Manual.

- **Decals inspection** : Ensure that no decals and nameplates are missing and/or damaged; decals must be clearly visible.
- **Functional test** : Make sure that all functions of the machine are working properly.



WARNING

It is forbidden to alter or modify the machine without the written permission of Hunan Sinoboom Intelligent Equipment Co., Ltd.

2.3 OPERATION SAFETY

General

WARNING



- This machine shall only be used to transport tools to work locations and for performing tasks on the work platform, and should not be used for other purposes.
- Operators should use personal fall protection equipment (PFPE) while operating the machine. If workplace or other rules require the use of PFPE by persons on the platform, the PFPE should be inspected and used in accordance with the PFPE manufacturer's instructions and applicable government requirements.
- The operator must devote their full attention to their work during the operation of the machine. The use of mobile phones, wireless communication devices, etc. may distract the operator and affect the safe operation of the machine, so the operator should completely stop the machine before using such devices.
- Remove all rings, watches and other accessories before operating the machine, do not wear loose clothing, and do not let long hair hang loosely.
- Individuals who have consumed alcohol or taken medication, who are overly fatigued or mentally distressed, who suffer from health conditions such as heart disease, high blood pressure, epilepsy, etc., individuals with a fear of heights or who feel unwell are prohibited from operating the machine.
- Do not operate a damaged or malfunctioning machine. In case of any failure, stop the machine immediately, label the machine appropriately, and contact the manufacturer or relevant department.
- Never disassemble, modify or retrofit the machine or its parts.
- Never disable any safety devices of the machine.
- Never place objects on the platform guardrails.

WARNING

- Never push the control switch or joystick forcefully through the neutral position directly into the opposite direction. Before pushing the switch to the next function position, move it back to the neutral position and stop, and then move it with slow and uniform force to perform the next function.
- Except in case of emergency, it is forbidden to perform operations from the ground if any person is still on the platform.
- When there are two or more people on the platform, all operation of the machine must be conducted by the operator.
- Always operate the machine in well-ventilated conditions to avoid carbon monoxide or nitrogen oxide poisoning.
- Before leaving the machine, the platform should be completely lowered and all power should be shut off.

Electrocution Hazard

WARNING



- This machine is not insulated and not equipped with electrocution protection function.
- Do not use this machine during thunderstorms or heavy rain. Should you encounter thunderstorms or heavy rain while operating the machine, immediately lower the platform completely to a safe and stable position, and disconnect all power sources so as to avoid personal injury or machine damage.
- Comply with the national or regional provisions covering minimum safe distance from live conductors. In absence of such provisions, comply with [Page 8, Table 2-1 Minimum safe distance](#) to keep a minimum safe distance from power lines, electrical equipment or any live (bare or insulated) components. The minimum safe distance shall be determined with machine movement, electric wire swinging or drooping considered.
- If rated insulating barriers appropriate to the voltage of electric wire are installed, the minimum safe distance can be shortened. Such partitions may not be part of the machine or fixed on the machine. The reduction in the minimum safe distance due to insulating partitions must comply with the relevant national or local regulations.
- Do not use the machine as a ground wire during welding and polishing operations.

Table 2-1 Minimum safe distance

Voltage (Phase to Phase, kV)	Minimum safe distance m (ft)
0-50	3 (9.8)
51-220	4 (13.1)
221-500	5 (16.4)

Table 2-1 Minimum safe distance(Continued)

Voltage (Phase to Phase, kV)	Minimum safe distance m (ft)
501-750	10 (32.8)
751-1000	13 (42.7)

DANGER

Do not operate the machine or transport personnel with the machine within access-restricted areas with live electrical equipment.

Tripping and Fall Hazards

WARNING



- Before operating the machine, ensure that the platform guardrails are properly installed and that the platform gate is closed and properly secured.
- Operators on the platform must wear the safety belt properly and secure the safety belt to the specified anchorage point with the hook. Each fixing point shall only be used by one person.
- Only enter and exit the platform through the platform gate, never through the scissor, and extra care should be taken. Before entering and exiting the platform, make sure the platform is fully lowered. When entering and exiting the platform, face the platform and maintain three points of contact with the machine, with both hands and one foot or both feet and one hand.
- Both feet must be securely placed on the platform floor at all times. It is forbidden to sit, stand or climb on the platform guardrails.
- Never use ladders, boxes, steps, boards, or similar items on the platform to extend your reach.
- Do not allow oil, sludge or other slippery substances to remain on work shoes and platform floor.
- Keep the platform floor unobstructed.

Tipping Hazard

WARNING



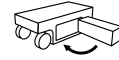
- Before driving the machine onto any ground, bridge, truck or other surface, check if the loading capacity of the surface is sufficient to support the machine (machine weight + platform load). Do not drive the machine on any surfaces or edges that are not capable of fully supporting the machine.
- Operators must familiarize themselves with the ground conditions of the work area before commencing work.
- Do not operate the machine on moving surfaces or vehicles.
- The total weight of personnel, devices and materials on the platform shall not exceed the maximum carrying capacity of the platform, and all loads shall be kept within the specified range of the platform.
- It is forbidden to drive the machine on slopes, steps or arched surfaces that exceed the maximum allowable climbing angle of the machine.

WARNING



- Do not use the tilt alarm as a horizontal indicator. The tilt alarm on the platform will sound only when the machine is heavily tilted.
- When the platform is raised, if the tilt alarm sounds, lower the platform carefully, and do not modify the level switch or limit switch.
- When the platform is raised, do not drive the machine on uneven or soft surfaces, or slopes that exceed the maximum allowable climbing angle of the machine, or in other dangerous conditions.
- The platform can only be raised or extended when the machine is on solid, flat ground.
- When the machine is traveling on uneven ground, or on other rough ground with gravel, or near cave openings, steep slopes, etc., be

WARNING



careful and reduce the speed.

- Do not push or pull any objects outside the platform.
- Never push or pull other equipment or objects with the platform or scissor arm.
- Do not place or attach any suspended load on or to any part of the machine.
- Do not place any load outside the perimeter of the platform.
- Using the machine as a hoist or crane is strictly prohibited.
- Never attach the machine or its parts to any adjacent objects.
- Do not operate the machine while the chassis box is opened.
- When one or more tires are off the ground, first evacuate all personnel and then stabilize the machine with cranes, hoists, forklifts, or other suitable equipment.
- Without written authorization of the manufacturer, it is forbidden to modify, remove or install any parts, including counterweights, which may affect the safety and stability of the machine.
- Do not replace critical parts that affect the stability of the machine with parts of different weight or specifications. For example, batteries not only provide power, but also serve as a counterweight, and are crucial for maintaining the stability of the machine.

WARNING



- If the machine can be used outdoors, do not operate the machine when the wind speed exceeds 12.5m/s (28mph) (including gust). Please check the Beaufort wind force scale in [Page 10, Table 2-2](#). Factors that affect wind speed include: platform height, surrounding terrain, local weather. For example, the wind speed at high places may be much faster than those on the ground.

WARNING



- Wind speeds might change at any time. The upcoming weather conditions, the time required to lower the platform, and ways to monitor current and potential wind conditions must always be considered.
- When operating the machine outdoors, do not carry items with a large surface area on the platform,

WARNING

do not cover the surface of the platform or load, and never use additional items to increase the surface area of the platform or load. Adding such additional items will increase the exposure of the machine to the wind. Increasing the windward area will lead to reduced machine stability.

Table 2-2

BEAUFORT SCALE	WIND SPEED		DESCRIPTION	SURFACE CONDITIONS
	METERS/SECOND	MILES/HOUR		
0	0-0.2	0-0.5	Calm	Calm. Smoke rises vertically.
1	0.3-1.5	1-3	Light air	Direction of wind shown by smoke drift.
2	1.6-3.3	4-7	Light air	Wind felt on exposed skin. Leaves rustle.
3	3.4-5.4	8-12	Gentle breeze	Leaves and small twigs in constant motion.
4	5.5-7.9	13-18	Moderate breeze	Raises dust and loose paper. Small branches move.
5	8.0-10.7	19-24	Fresh breeze	Small trees sway.
6	10.8-13.8	25-31	Strong breeze	Large branches in motion. Whistling heard in telegraph wires. Umbrella used with difficulty.
7	13.9-17.1	32-38	Near gale	Whole trees in motion. Inconvenience felt when walking against the wind.
8	17.2-20.7	39-46	Gale	Twigs break from trees. Cars veer on the road.
9	20.8-24.4	47-54	Strong gale	Slight structural damage.

DANGER

If wind speed exceeds 12.5 m/s (28 mph) after the platform has been raised, the platform should be retracted immediately, all power sources should be disconnected, and the machine should be stopped.

Collision and Crushing Hazards

 WARNING	
	All operators and other personnel in the work area must wear approved safety helmets.
	Keep all parts of the body within the platform guardrails during operation.
	Care should be taken at all times to avoid contact with stationary (built-up structures etc.) objects or moving objects (vehicles, cranes etc.) to prevent obstacles from hitting or interfering with control components or personnel on the platform.
	During operation, make sure to check the clearance and obstacles above, around and below the platform.
	Be aware of the field of vision and potential blind spots when moving or operating the machine. In cases where the line of sight is obstructed, lookouts should be arranged.
	Pay attention to the position of the extending platform while moving the machine.
	- Make sure there are no people and obstacles below the platform before lowering the platform. - Do not place hands, arms, or other body parts near areas where they may be crushed. - Do not work under the platform or near the scissor arm if the safety arm has not been properly set up. - Make sure that other nearby operators working at height and on floors are aware that this MEWP is working. - Limit travel speed based on ground conditions, congestion, ground slope, position of personnel, and other factors. - Understand braking distances at all travel speeds. When traveling at high speed reduce the travel speed before stopping. - Do not use the high speed setting when traveling in areas with limited or enclosed spaces or when

 WARNING
reversing. Before releasing the brake, the machine must be placed on a horizontal surface or secured.

2.4 TOWING, HAULING AND LIFTING SAFETY

For towing and dragging procedures, refer to the **Emergency Towing** section of this manual. For transport and lifting procedures, please refer to the **Transport and Lifting** section of this manual.

WARNING



- Except in case of emergency situations, machine malfunction, power loss or loading/unloading, it is strictly prohibited to tow or drag the machine.
- When towing or dragging the machine, comply with local policies and road traffic regulations.
- Before towing, dragging or lifting operations, make sure that the machine is in stowed condition, the machine has no loose or un-fixed parts, and no tools are on the platform.
- Only the lifting points/rigging equipment lashing points on the chassis may be used to tow, haul or lift the machine. Ensure that the machine lifting points/rigging equipment lashing points and their fixing structures are intact and that the belt or rope to be used has sufficient load strength.
- When towing, hauling or lifting the machine, no persons are allowed on the platform.
- Before loading/unloading the machine, ensure that the transport vehicle is parked on level ground, that the loading surface of the transport vehicle has sufficient capacity/strength to support the machine, and that the slope of the ramp used for driving the machine onto the vehicle does not exceed the maximum gradeability of the machine.
- When loading/unloading the machine, the transport vehicle must be secured to prevent it from moving.
- The wheels should be locked after the machine is loaded to prevent it from moving.
- The machine can only be lifted from the specific position with lifting equipment with sufficient lifting capacity. Care should be taken to prevent the machine from colliding with surrounding objects.

2.5 MAINTENANCE SAFETY

Unsafe Maintenance Hazards

WARNING



- Before performing any adjustment or service operations, power off all control units and ensure that all moving parts are securely secured and free from accidental movement.
- Before performing any adjustment or service operations, ensure that the scissor arms are stowed, and do not carry out maintenance with the scissor arms raised. If maintenance must be carried out with the scissor arms raised, take appropriate protective measures to avoid dangerous conditions.
- When lifting or moving heavy parts of the machine, use equipment with sufficient capacity, and never place heavy objects in unstable positions after moving.
- When machine parts are lifted by other equipment, ensure that there are no persons under and/or around the equipment.
- When striking brass rods with a mallet, make sure to wear eye protection.
- If you need to replace parts, use only original parts specified by Sinoboom.
- Do not wash the machine with water. The machine contains electronic components such as solenoid valves and sensors, which may fail or operate erratically after water ingress. If it is necessary to wash with water, turn off the main power switch before proceeding. Only turn the power back on after ensuring the machine is completely dry.
- Make sure the machine is turned off before using flushing equipment (such as high-pressure water gun) to clean the machine. Do not direct water or steam ejected from the flushing equipment at electrical components, as this may cause short-circuits or electrical shocks.
- After maintenance is completed, thoroughly clean up any spilled

WARNING

hydraulic oil, and avoid allowing it to be spilled on the ground.

- After maintenance is completed, immediately wash off any hydraulic oil that may have come into contact with your skin.
- Waste hydraulic fluids, fuels, coolants and refrigerants must be recycled or disposed as per local regulations.

High Temperature and High Pressure Hazards

WARNING



- High surface temperatures may be present on some components during the operation of the machine or after the machine has been operating for some time. High temperatures may cause burns through skin contact. Do not touch any hot parts!
- It is forbidden to repair or tighten hydraulic hoses or seals while the machine is operating or when the oil system is under pressure.
- Before loosening or disassembling the hydraulic parts (especially the counterbalance valve on the cylinder), the hydraulic pressure of all hydraulic lines should be released and the hydraulic oil should completely cool down.
- For engine-powered machines, do not attempt to open the radiator cover when the machine has not cooled fully.
- Disassemble the hydraulic components slowly to prevent hydraulic oil from splashing and injuring people.
- Never check for hydraulic leakages by hand. Use a piece of cardboard or stiff paper to locate leaks, and wear gloves to protect your hands from spraying hydraulic fluid.
- Do not operate the machine in case of hydraulic or air leaks. Oil or air leakage from the hydraulic system may penetrate and burn the skin.
- Never plug hydraulic leaks by hand. If there is a leak, the pressure of the hydraulic system should be released first, maintenance/repair should be carried out after the hydraulic oil has cooled down.
- If injury occurs due to high temperature and/or high pressure, seek immediate medical attention. If treatment is not carried out immediately, serious complications may result.

Welding and Grinding Operation Hazards

WARNING



- Welding, grinding and polishing operations must follow the appropriate local safety procedures.
- Before performing welding, grinding and polishing operations, turn off the machine's power, and ensure that all wires or cables are connected correctly.
- Do not use the machine as a ground wire during welding and grinding operations.
- Always make sure that all power tools are placed completely within the perimeter of the platform. Do not hang the cords of power tools on the guardrail of the platform or in any work area outside the platform, and do not hang the power tools directly by their cords.

Fire and Explosion Hazards

WARNING



- Do not operate the machine, charge the battery or refuel the machine in places where potentially flammable or explosive gases may be present.
- Refueling and charging should be carried out in a well-ventilated place without flames, sparks, and other hazards that may cause fire or explosion.
- For engine-powered machines, do not refuel the machine while the engine is running.
- Never spray ether or other starting agents into glow-plug-equipped engines (engine-powered machines).
- Never touch the battery terminals or cable clamps with tools that can generate sparks.
- Only approved non-flammable cleaning solutions should be used on the machine.

Battery Hazard

WARNING



- Be sure to read and adhere to the battery manufacturer's recommendations on proper battery use and maintenance procedures.
- Individuals without adequate professional qualification should not repair and maintain the battery system, otherwise this may cause personal injury or damage to the battery system.
- Individuals without adequate professional qualification should not modify parameters, signal lights, etc. during the operation of the battery system, otherwise this may cause personal injury or damage to the battery system.
- Always wear goggles, protective gloves and protective clothing, and remove all rings, watches and other accessories before servicing the battery. Contact with live circuits may result in death or serious injury.
- Before replacing the battery, be sure to select an appropriate number of personnel and suitable lifting methods.
- It is forbidden to modify the battery system without approval to avoid serious accidents.
- When maintaining electrical components, the battery should be disconnected.
- Do not place tools or other metal objects across the two terminals of the battery.
- The battery charger can only be connected to a grounded three-wire AC power outlet. Make sure the charger is working properly before charging. Do not connect the battery directly to a power outlet.
- If the battery becomes hot, deformed, leaks, emits an unusual smell, or produces smoke during use, stop using the battery immediately and report to the relevant maintenance personnel promptly.
- Batteries contain sulfuric acid and can produce explosive

WARNING

mixtures of hydrogen and oxygen. Keep any materials (including cigarette/smoking materials) that can cause sparks or flames away from batteries to prevent explosion.

- Never touch the battery terminals or cable clamps with tools that can generate sparks.
- Never charge the battery in direct sunlight. The battery should be charged in a well-ventilated place.

CAUTION



- Avoid spilling battery acid or allowing it to come into contact with unprotected skin. If battery acid spills, use water mixed with bicarbonate (baking soda) to neutralize the acid. In case of contact with battery acid, rinse the acid off immediately with plenty of water and seek medical attention promptly.
- Always keep the battery upright. If the battery is placed on its side or diagonally, liquid may spill from the battery.
- Discarded batteries can be hazardous. Do not dispose of them casually. If you need to discard them, please contact a battery recycling company.

Note



- Please use the charger provided by the manufacturer to charge the battery.
- The charging process must be completed in full. Frequent intermittent charging can damage the battery.
- The battery is only suitable for use with the equipment it was provided with at the time of manufacture. Do not use the battery for other purposes.
- Do not reverse the positive and negative terminals of the battery for use.
- Do not short-circuit the positive and negative terminals of the

Note

battery system.

- Do not place objects or tools on the battery to prevent short circuiting it.
- Do not strike, throw, step on, or hit the battery with sharp objects.
- Do not immerse the battery in water, acidic, alkaline or salty solutions, and protect the battery from rain.
- The battery should be fully charged immediately after each use of the machine, then the machine power switch should be turned off.

Note

Battery over-discharge (continued use of battery with level of less than 10%) or battery under-voltage caused by long-term non-charging (battery with level of less than 10% not charged for more than three days), resulting in battery capacity attenuation and failure, are not covered by the warranty.

3 RESPONSIBILITIES OF RELEVANT PARTIES

3.1 OWNER'S (OR LESSOR'S) RESPONSIBILITIES

- The owner (or lessor) is obliged to help the user understand all the instructions in the manual.
- The owner (or lessor) should provide the latest manuals or replace missing or damaged decals. To obtain the most current machine manuals please contact Sinoboom or its authorized agents.
- The owner (or lessor) should comply with local regulatory requirements related to the use of the machine.

3.2 EMPLOYER'S RESPONSIBILITIES

- The employer must ensure that the operator is properly trained and qualified to operate the machine.
- The employer should ensure that the user is healthy and has good judgment, sense of cooperation and psychological qualities.
- The employer has the responsibility to ensure that signalmen have good visual and auditory judgment, master standard command signals and send clear and accurate signals, and have sufficient experience to identify hazards and inform operators to avoid hazards in time.
- The employer should clarify the corresponding safety responsibilities to each operator and require them to report unsafe factors to the supervisor timely.

3.3 TRAINER'S RESPONSIBILITIES

- The trainer must be accredited by Sinoboom, have comprehensive knowledge training on the machine, and must have the required skills related to machine repair and maintenance.
- The trainer must conduct training in an open area free of hazards until the trainees acquire the ability to safely control and operate the machine.

3.4 USER'S RESPONSIBILITIES

- The user must be properly trained on MEWP, and authorized.
- The user must carefully read and fully understand this manual and the decals on the machine.
- The user must report to the owner (lessor) all anomalies that may cause the machine to work abnormally or have potential dangers, and if possible, correct the abnormal situation promptly while ensuring safety.
- The user must be fully aware of the content and procedures of the respective operation.
- The user must be familiar with and comply with signal instructions and operation requirements in emergency situations.
- The user must be vigilant in observing for any hazardous conditions and promptly report any dangers to other operators and signal personnel. This includes situations such as high-voltage lines, unrelated personnel, and unfavorable ground conditions.
- The user must stop using the equipment if it is not functioning properly or if a hazardous condition arises.

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4 TECHNICAL PARAMETERS

4.1 MACHINE SPECIFICATIONS

Table 4-1 GTJZ0608E specifications

Item	Metric	Imperial
Product Category		
Battery type	Maintenance-free lead-acid battery/lithium battery	
Travel drive type	DC motor	
Dimensions		
Maximum platform height	6.3 m	20 ft 8 in
Maximum working height	8.3 m	27 ft 3 in
Maximum horizontal reach	0.9 m	3 ft
Overall length	2.46 m	8 ft
Overall width	0.83 m	2 ft 8.7 in
Overall height (with guardrails folded)	1.84 m	6 ft
Overall height (with guardrails not folded)	2.24 m	7 ft 4 in
Wheelbase	1.88 m	6 ft 2 in
Wheel track	0.7 m	2 ft 3.6 in
Ground clearance (with pothole protective device retracted)	0.1 m	4 in
Ground clearance (with pothole protective device extended)	0.025 m	0.98 in
Platform dimensions (L×W×H)	2.30 m×0.8 m×1.1 m	7 ft 6.5 in×2 ft 7.5 in×3 ft 7 in
Performance		
Rated platform capacity	380 kg	838 lb
Extending platform rated load capacity	120 kg	265 lb
Maximum number of people in the platform (indoor/outdoor)	2 persons/1 person	
Travel speed (stowed)	0 ~ 4 km/h	0 ~ 2.5 mph
Travel speed (raised)	0 ~ 0.8 km/h	0 ~ 0.5 mph
Platform lifting time (unloaded)	25 ~ 30 s	
Platform lowering time (unloaded)	30 ~ 35 s	
Gradeability (2WD)	25%	

Table 4-1 GTJZ0608E specifications (Continued)

Item	Metric	Imperial
Maximum allowable tilt angle (front-rear/left-right)	3°/1.5°	
Turning radius (internal/external)	0 m/2.1 m	0/6 ft 10.7 in
Tire (spec/type)	φ380×125 mm/solid	φ15×5 in/solid
Maximum operating noise level	72 dB	
IP rating	IP 65	
Maximum total vibration on the platform	2.5 m/s²	
Maximum whole body vibration value (WBV)	0.5 m/s²	
Power		
Drive×steer	2 WD×2 WS	
Power unit motor (voltage/power)	24 V DC, 3.3 kW	
Hydraulic tank capacity	15 L	3.3 gal (Imperial)/4 gal (US)
Hydraulic system pressure	21 MPa	3046 psi
Battery (voltage, capacity, rate of discharge)-lead-acid battery	24 V, 220 Ah, 20 hr	
Battery (voltage, capacity, rate of discharge)-lithium battery	25.6 V, 156 Ah, 1 hr	
System voltage	24 VDC	
Control voltage	24 VDC	
Charger (input voltage/output current)	100 ~ 240 V AC/30 A	
Drive motor (voltage/power)-DC	24 V/0.85 kW	
Weight		
Gross weight (indoor/outdoor)	2090 kg	4608 lb
Ground bearing data		
Maximum tire load	900 kg	1984 lb
Ground pressure	1075 kPa	156 psi
Environment		
Maximum allowable lateral force (indoor/outdoor)	400 N/200 N	90 lbf/45 lbf
Maximum allowable wind speed (indoor/outdoor)	0/12.5 m/s	0/28 mph
Maximum allowable altitude	1000 m	3280.8 ft
Allowable ambient temperature (lead-acid battery)	-10°C to 40°C	14°F to 104°F

Table 4-1 GTJZ0608E specifications (Continued)

Item	Metric	Imperial
Allowable ambient temperature range (lithium battery)	-20°C to 40°C	-4°F to 104°F
Maximum allowable relative humidity	90%	
Storage environment	Store at -20°C to 50°C (-4°F to 122°F) in a well-ventilated environment with 90% relative humidity (max.) (20°C [68°F]), protected from rain, sun, corrosive gas, flammable or explosive materials.	

Table 4-2 GTJZ0808E specifications

Item	Metric	Imperial
Product Category		
Battery type	Maintenance-free lead-acid battery/lithium battery	
Travel drive type	DC motor	
Dimensions		
Maximum platform height (indoor)	8.1 m	26 ft 7 in
Maximum platform height (outdoor)	6 m	19 ft 8 in
Maximum working height (indoor)	10.1 m	33 ft 2 in
Maximum working height (outdoor)	8 m	26 ft 3 in
Maximum horizontal reach	0.9 m	3 ft
Overall length	2.46 m	8 ft
Overall width	0.83 m	2 ft 8.7 in
Overall height (with guardrails folded)	1.96 m	6 ft 5 in
Overall height (with guardrails not folded)	2.36 m	7 ft 9 in
Wheelbase	1.88 m	6 ft 2 in
Wheel track	0.7 m	2 ft 3.6 in
Ground clearance (with pothole protective device retracted)	0.1 m	4 in
Ground clearance (with pothole protective device extended)	0.025 m	0.98 in
Platform dimensions (L×W×H)	2.30 m×0.8 m×1.1 m	7 ft 6.5 in×2 ft 7.5 in×3 ft 7 in
Performance		
Rated platform capacity	250 kg	551 lb
Extending platform rated load capacity	120 kg	265 lb
Maximum number of people in the platform (indoor/outdoor)	2 persons/1 person	
Travel speed (stowed)	0 ~ 4 km/h	0 ~ 2.5 mph

Table 4-2 GTJZ0808E specifications (Continued)

Item	Metric	Imperial
Travel speed (raised)	0 ~ 0.8 km/h	0 ~ 0.5 mph
Platform lifting time (unloaded)	30 ~ 35 s	
Platform lowering time (unloaded)	34 ~ 39 s	
Gradeability	25%	
Maximum allowable tilt angle (front-rear/left-right)	3°/1.5°	
Turning radius (internal/external)	0/2.1 m	0/6 ft 10.7 in
Tire size (diameter×width/type)	φ380×125 mm/solid	φ15×5 in/solid
Maximum operating noise level	72 dB	
IP rating	IP 65	
Maximum total vibration on the platform	2.5 m/s²	
Maximum whole body vibration value (WBV)	0.5 m/s²	
Power		
Drive×steer	2 WD×2 WS	
Power unit motor (voltage/power)	24 V DC, 3.3 kW	
Hydraulic tank capacity	15 L	3.3 gal (Imperial)/4 gal (US)
Hydraulic system pressure	21 MPa	3046 psi
Battery (voltage, capacity, rate of discharge)-lead-acid battery	24 V, 220 Ah, 20 hr	
Battery (voltage, capacity, rate of discharge)-lithium battery	25.6 V, 156 Ah, 1 hr	
System voltage	24 VDC	
Control voltage	24 VDC	
Charger (input voltage/output current)	100 ~ 240 V AC/30 A	
Drive motor (voltage/power)-DC	24 V/0.85 kW	
Weight		
Gross weight (indoor/outdoor)	2265 kg	4994 lb
Ground bearing data		
Maximum tire load	900 kg	1984 lb
Ground pressure	1075 kPa	156 psi
Environment		
Maximum allowable lateral force (indoor/outdoor)	400 N/200 N	90 lbf/45 lbf

Table 4-2 GTJZ0808E specifications (Continued)

Item	Metric	Imperial
Maximum allowable wind speed (indoor/outdoor)	0 m/s/12.5 m/s	0 mph/28 mph
Maximum allowable altitude	1000 m	3280.8 ft
Allowable ambient temperature (lead-acid battery)	-10°C to 40°C	14°F to 104°F
Allowable ambient temperature range (lithium battery)	-20°C to 40°C	-4°F to 104°F
Maximum allowable relative humidity	90%	
Storage environment	Store at -20°C to 50°C (-4°F to 122°F) in a well-ventilated environment with 90% relative humidity (max.) (20°C [68°F]), protected from rain, sun, corrosive gas, flammable or explosive materials.	

Note:

- a) The platform height plus the operator height (taken as 2 m/6 ft 7 in) equals the working height.
- b) In different areas, hydraulic oil, engine oil, coolant, fuel and lubricant should be added in accordance with the environmental temperature.
- c) In cold weather, auxiliary devices are needed to start the machine.
- d) The ground bearing data is approximate, without considering different options, thus it is applicable only when taking an adequate safety factor into account.
- e) Rated platform load capacity refers to the maximum allowable load on the platform, including the weight of persons, materials, tools, accessories and other objects.
- f) The hydraulic tank capacity is the maximum volume of the tank.
- g) It's recommended not to use the lead-acid battery under the ambient temperature below 0°C, otherwise the battery capacity will decay rapidly and the battery life will be affected.

4.2 MOVEMENT SPEED

Table 4-3 GTJZ0608E

Movement	Time
Raise the platform	25 ~ 30s
Lower the platform	30 ~ 35s
Maximum travel speed in high gear-stowed	24.5 ~ 30s
Maximum travel speed in low gear-stowed	49 ~ 60s
Maximum travel speed-operating	123 ~ 150s
Braking distance at maximum travel speed in high gear	S≤0.4m (1.31ft)

Table 4-4 GTJZ0808E

Movement	Time
Raise the platform	30 ~ 35s
Lower the platform	34 ~ 39s

Table 4-4 GTJZ0808E(Continued)

Movement	Time
Maximum travel speed in high gear-stowed	24.5 ~ 30s
Maximum travel speed in low gear-stowed	49 ~ 60s
Maximum travel speed-operating	123 ~ 150s
Braking distance at maximum travel speed in high gear	S≤0.4m (1.31ft)

- a) The movement speed depends on the start point and end point of the movement, rather than on the controls or switches.
- b) The test results of travel speed vary with tyres of different specifications.
- c) All the speed tests should be conducted from the platform controls. The test results will differ if tested from the ground controls.
- d) All the tests should be conducted with the hydraulic oil temperature at 20 ~ 30°C (68 ~ 86°F). If the hydraulic oil temperature is too low the test results will be affected.

Test requirements:

Raise the platform: With the platform unloaded, raise the platform (with the scissor arm from fully retracted position to fully raised position) twice.

Lower the platform: With the platform unloaded, lower the platform (with the scissor arm from fully raised position to fully retracted position) twice.

Travel in high gear-stowed position: With the machine in stowed position on a level surface, switch to high gear, and push the travel joystick to the maximum travel distance to drive the machine forward and reverse for 30m (98.4ft) respectively for two times.

Travel in low gear-stowed position: With the machine in stowed position on a level surface, switch to low gear, and push the travel joystick to the maximum travel distance to travel forward and reverse for 30m (98.4ft) respectively for two times.

Travel-operating position: With the machine on a level surface, push the travel joystick to the maximum travel distance. Drive the machine forward and reverse for 30m (98.4ft) respectively for two times.

Braking distance: With the machine on a level surface, switch to high gear, and then release the control handle once the machine reaches the maximum drive speed in high gear.

Note: For models with Japanese configuration, the machine cannot travel while elevated to operating position.

5 PRE-OPERATION INSPECTION

A pre-operation test must be performed before each operation, before resuming operations, and before changing operators, as well as after each repair. Please carefully check each item according to the content of this section.

5.1 MACHINE COMPONENTS

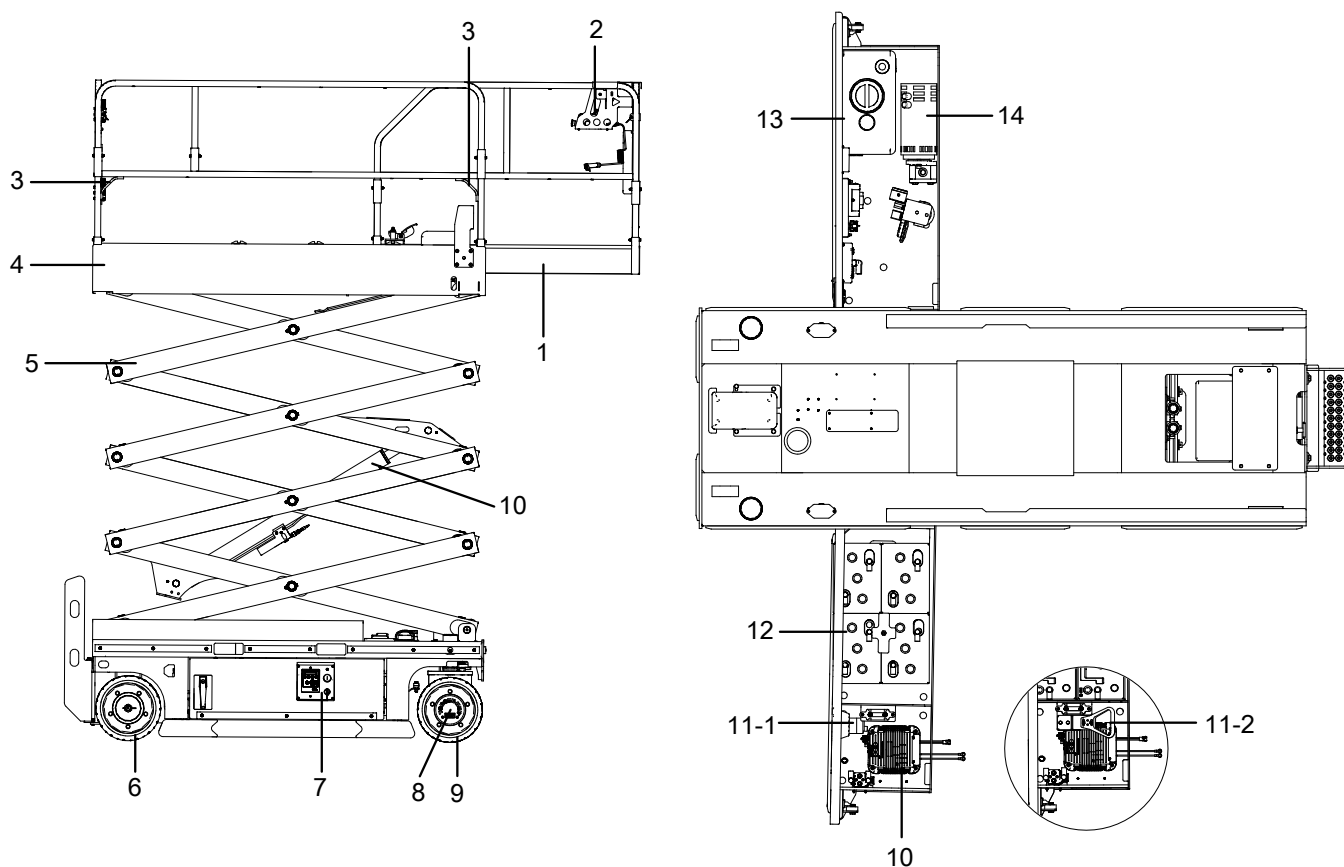


Fig 1

Table 5-1

1. Extending platform	2. Platform controller	3. Harness anchorage point
4. Work platform	5. Scissor assembly	6. Rear wheel (non-steering wheel)
7. Ground controller	8. DC travel reducer	9. Front wheel (steering wheel)
10. Charger	11. Power switch/handle	12. Battery
13. Hydraulic tank	14. Lift motor	

5.2 MACHINE STATUS DESCRIPTIONS

The machine positions/states covered in this manual are stowed position, transport position, operating position, and non-operating position. Each position is described in detail below:

- **Stowed position:** the scissor arm is fully retracted.
- **Transport position:** the scissor arm and the extending platform are fully retracted.
- **Operating position (raised):** the scissor arm is raised until disengaged from the down limit switch.
- **Non-operating position:** the scissor arm is not disengaged from the down limit switch.

Notes: When the scissor arm is disengaged from the down limit switch, the platform height (from the ground to the platform floor) shall be:

- GTJZ0608E: 2.6±0.3m (8ft 6in±12in)
- GTJZ0808E: 3±0.3m (9ft 10in±12in)

5.3 PRE-START TEST

WARNING

If any damage, malfunction, or unauthorized modifications differing from the factory state are found with the machine, it should be immediately tagged and shut down. Report the fault to the relevant maintenance personnel and do not operate the machine until safe operation can be guaranteed.

The pre-start test must include the following:

1. Cleanliness – check all surfaces of the machine for leaks (hydraulic oil, battery electrolyte, etc.) or foreign objects.
2. Structure – check whether there are any abnormalities in the equipment structure, such as dents, damage, cracks in welds or structural components, severe rust, severe corrosion, etc.
3. Operation Manual and Maintenance Manual – ensure that the Operation Manual and Maintenance Manual are intact, easy to read, and stored in the manuals storage box on the platform.
4. Decals and nameplate – ensure that labels and the nameplate are in place, intact, accurately located and visible.
5. Maintenance – ensure that maintenance has been completed on the machine in accordance with the maintenance inspection requirements specified in the Maintenance Manual.
6. Battery – charge the battery as required. The electrolyte level, if adjustable, must be kept at an appropriate height.
7. Hydraulic oil – check the hydraulic oil level. Add a suitable amount of hydraulic oil as needed.
8. Options/accessories – if the machine is equipped with any options/accessories, consult this manual and the supplemental manuals for options/accessories for inspection, operation and maintenance instructions.
9. Machine components – check the following components to ensure that they are correctly installed and firmly fixed without loose, missing or altered parts and visible damage, leakage or excessive wear, etc., and that all components are in their original positions and normal working states, in addition to checking other stated items.
 - 1) Platform assembly and gate – the extending platform shall extend and retract normally and secured firmly; all wire rope safety pins (if equipped) for supporting the platform shall be installed properly. Ensure that the lanyard lashing points are safe and reliable, and each lashing point is only for one person; make sure the latches and hinges are in normal working states, that the platform gate can open and close properly without bends or damage, and that the surrounding area is free of obstacles. The gate should remain closed at all times, except for entering/exiting platform and loading/unloading materials;
 - 2) Ground controller and platform controller – Ensure that all control switches are turned off, that joysticks are in the neutral position and can return to the neutral position after activated and released, and that all control markings are visible;
 - 3) Scissor assembly;
 - 4) Tire assembly – ensure that the tire assembly is firmly secured and wheel nuts are not loose or missing; check for worn tread, cuts, breakage or other abnormalities;
 - 5) Drive motor;
 - 6) Brake device and brake release function.
 - 7) Platform emergency lowering function.
 - 8) Tire steering linkage and wheel carrier.

- 9) Pothole protective device – extend and retract normally;
- 10) Power unit, hydraulic cylinder, valve block, oil tank, hoses, pipe joints and other hydraulic parts;
- 11) Electrical parts such as limit switches and cable harnesses.

Note

Make sure to check the platform floor area, as inspection of this area may uncover conditions that could cause personal injury or machine damage.

5.4 FUNCTIONAL TEST

Before performing a functional test:

- Choose a firm, flat and level test area.
- Make sure the test area is free from obstructions.
- Be sure that the batteries are well connected.



WARNING

If any switch/handle returns to the neutral position but the corresponding movement does not stop, push in the emergency stop button to stop the machine.

Follow these steps to perform a functional test:

1. With no load applied on the platform, turn the ground/platform control selector switch at the ground controls to the ground control position, pull out the emergency stop button at the ground controls, and perform the following tests from the ground controller:
 - 1) Make sure that the screen is turned on and shows no error message during the entire functional test.
 - 2) Make sure that when the emergency stop button on the ground controls is pressed, the controls are powered off, the machine cannot be started and no functions operate.
 - 3) Activate any action switch without activating the enable switch – the corresponding action cannot operate.
 - 4) Activate the enable switch and any action switch at the same time, the corresponding function should operate normally. Release the switch/handle after one action is performed – the corresponding action should be stopped reliably and safely.
2. Set the “ground/platform control selector switch” on the ground controls to the platform control position,

pull out the emergency stop button on the ground controls and platform controls, and perform the following tests from the platform controls:

- 1) Make sure that when the emergency stop button at the platform controller is pressed, the platform controller is powered off, and no function can be activated from the platform controller.
 - 2) Make sure that the horn sounds properly when the horn button is pressed.
 - 3) Activate any action switch/handle without activating the enable switch – the corresponding function cannot be activated.
 - 4) Activate the enable switch and any action switch/handle at the same time – the corresponding action shall operate normally. Move the switch/handle to the neutral position after an action is performed – the corresponding action should stop reliably and safely.
- Note:** When the travel function handle is released, the brake must be able to hold the machine on any slope within the maximum gradeability reliably without sliding.
- 5) In platform lift mode, the joystick controls the platform lift function, while the travel and steer functions will be disabled.
 - 6) In drive and steer mode, the joystick controls travel and steer functions, while the platform lift and lowering function will be disabled.
 - 7) With the machine in non-operating position and the low speed travel mode not activated, activate the travel function and push the travel control handle to full drive position, and the machine will travel at high speed.
 - 8) With the machine in non-operating position, push upward the high/low travel speed selector switch, and the machine will start to travel at low speed (if equipped with Sinoboom control system).
 - 9) With the machine in non-operating position, press the low speed button, and the machine will start to travel at low speed (if equipped with DTC or Kuanhui control system).
 - 10) With the machine in operating position, the travel speed of the machine will be reduced to the speed for the raised position automatically.

5.5 INDOOR/OUTDOOR MODE VERIFICATION

The indoor or outdoor mode can be set on outdoor models. The maximum working height in different modes can be found in **Technical Parameters** section of this manual.

The selected indoor or outdoor mode will not change when the machine is turned off. When the machine is turned on, the previously selected mode is still selected. You have to check and confirm after each startup that the machine is in the correct mode, and change the operating mode corresponding with the working environment.

The indoor mode must not be used in outdoor applications.

For indoor/outdoor mode setting method, please refer to ***Operation Instructions*** section.



WARNING

6

CONTROLS AND INDICATORS

This chapter provides a brief introduction of switches, handles and screens at the ground controller and platform controller. Refer to the **Operation Instructions** section for a detailed description.

Note

The manufacturer cannot directly control the application and operation of the machine. Users and operators are responsible for complying with the applicable safety specifications.

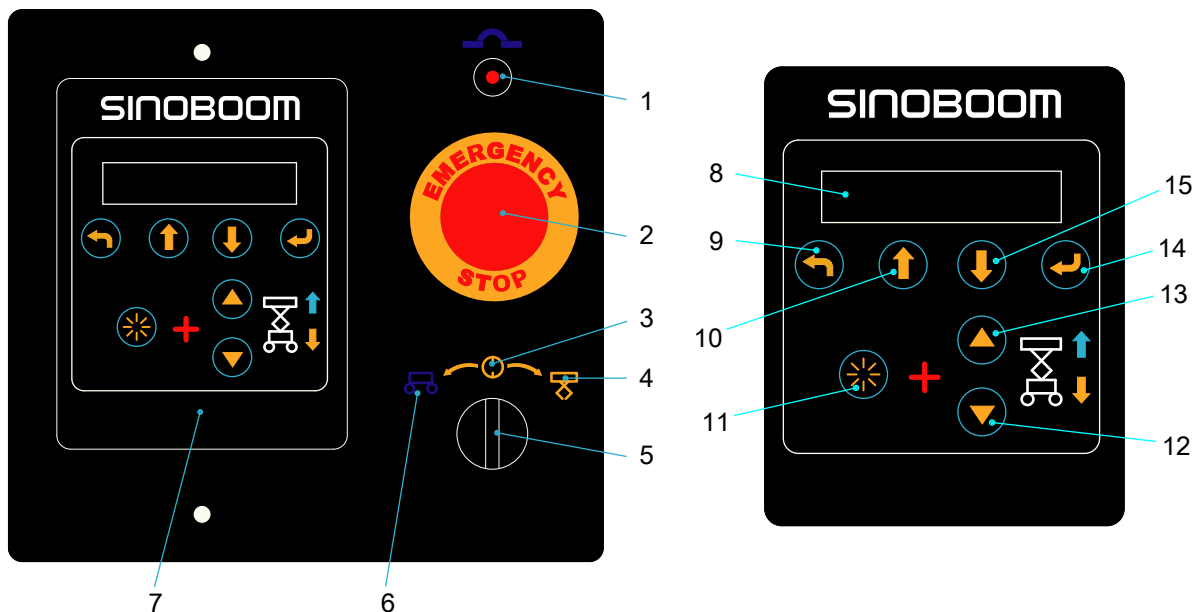


Fig 1

Table 6-1

No.	Name	Description
1	Self-resetting fuse	Provides overcurrent protection
2	Emergency stop button	When pulled to the "ON" position the machine can be started normally; pushing the button to the "OFF" position will deactivate the controller, the machine cannot be started and no functions can be activated.
3	Neutral/OFF position	/
4	Platform control position	/
5	Key switch (ground/platform control selector switch)	Set the switch to neutral position: the machine will be powered off. Turn the switch to "platform control position": all functions will be operative only at the platform controller; the ground controller will not work.

Table 6-1 (Continued)

No.	Name	Description
		Turn the switch to “ground control position”, and all functions will be operative only at the ground controller while the platform controller will not work.
6	Ground control position	/
7	Main controller	/
8	Ground display	ECU menu selection/setting interface
9	Return key	Go to the previous interface of the ground display screen
10	Up arrow key	Scroll up the ground display screen
11	Enable key	Press and hold the Enable key; all functions will be enabled to operate.
12	Platform Down key	Control platform down function
13	Platform Up key	Control platform up function
14	Enter key	Enter the next interface of the ground display screen
15	Page Down key	Scroll down the ground display

6.1 PLATFORM CONTROLLER (SINOBOOM CONTROL SYSTEM)

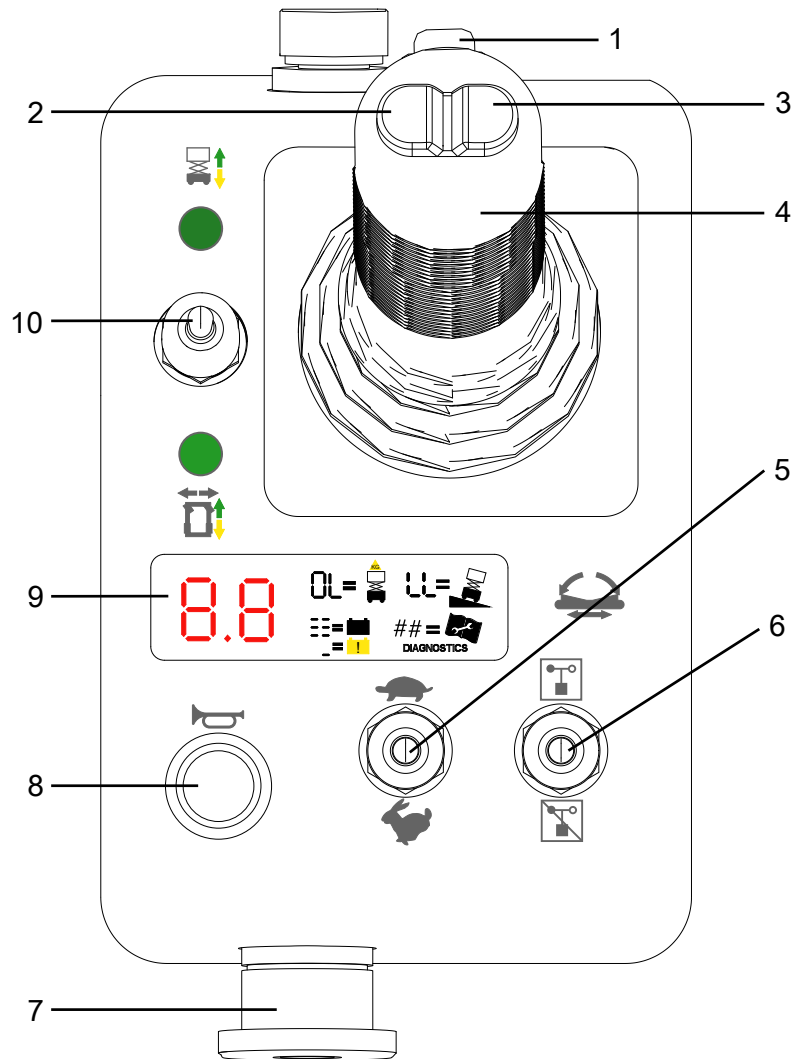


Fig 2 Platform controller (Sinoboom control system)

Table 6-2

No.	Name	Description
1	Enable switch	Move and hold the switch – all functions will be enabled to operate.
2	Left turn thumb button	Press the button to steer the machine to the left.
3	Right turn thumb button	Press the button to steer the machine to the right.
4	Control handle	In platform lift/lower mode, pushing this handle forward/back will raise/lower the platform; In drive and steer mode, pushing this handle forward/back will drive forward/back
5	High/low travel speed selector switch	Move the switch up to enable low travel speed mode.
6	Indoor/outdoor mode selector switch	Move the switch up to enable outdoor mode;

Table 6-2 (Continued)

No.	Name	Description
		Move the switch down to enable indoor mode.
7	Emergency stop button	Pull out the button to the ON position – the platform controller will function normally; press the button to the OFF position, the platform controller will be powered off and no function can be activated from the platform controller
8	Horn button	Press the button to sound the horn.
9	Platform display screen	Display battery level, alarm message and fault codes.
10	Lift/drive and steer function enable switch	Move the switch up to enable platform lift/lower mode; Move the switch down to enable travel and steer mode.

6.2 PLATFORM CONTROLLER (DTC CONTROL SYSTEM)

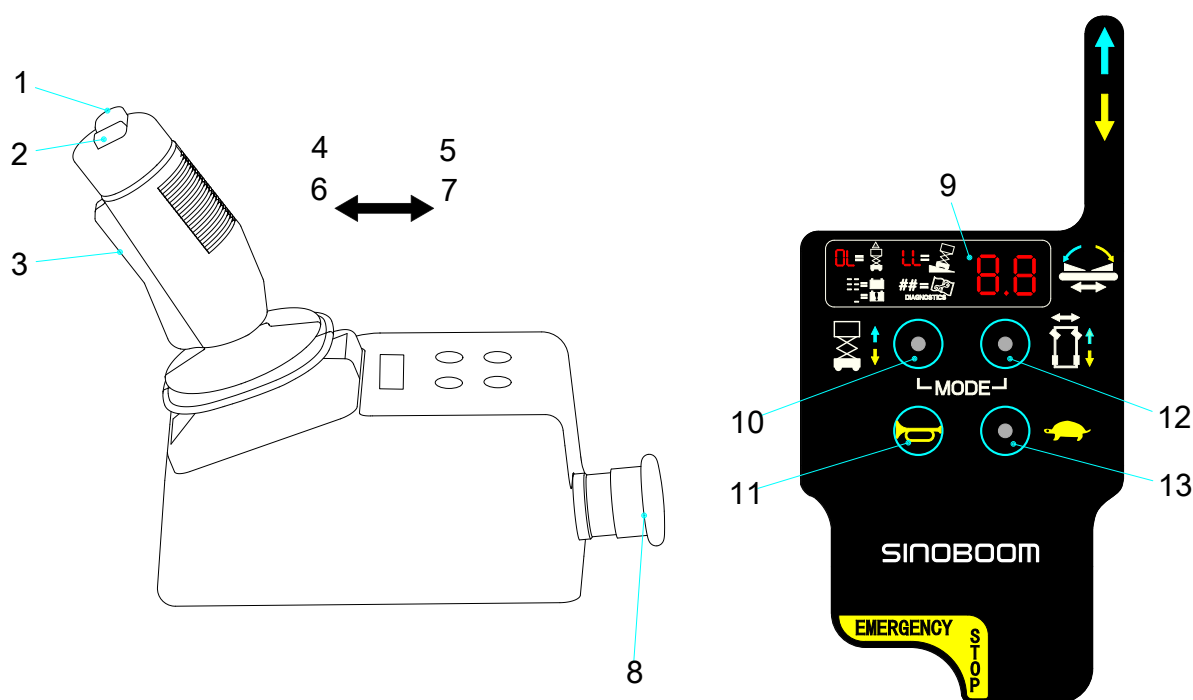


Fig 3 Platform control box (DTC control system)

Table 6-3

No.	Name	Description
1	Right turn thumb button	Press the button to steer the machine to the right.
2	Left turn thumb button	Press the button to steer the machine to the left.
3	Enable switch	Move and hold the switch – all functions will be enabled to operate.

Table 6-3 (Continued)

No.	Name	Description
4	Platform up	After the platform up/down function is activated, push the joystick forward to raise the platform.
5	Platform down	After the platform up/down function is activated, pull the joystick back to lower the platform.
6	Drive forward	After the travel & steer function is activated, push the joystick forward to control the machine driving forward.
7	Drive reverse	After the travel & steer function is activated, pull the joystick back to control the machine driving reverse.
8	Emergency stop button	Pull out the button to the ON position – the platform controller will function normally; press the button to the OFF position, the platform controller will be powered off and no function can be activated from the platform controller
9	Display screen	Display battery level, alarm message and fault codes.
10	Platform lift function enable button	Press the button, and the button light will illuminate and the platform lift mode will be enabled.
11	Horn	Press the button to sound the horn.
12	Drive and steer function enable switch	Press the button, and the button light will illuminate and the drive and steer mode will be enabled.
13	Low speed button	Press the button, and the button light will illuminate and the low travel speed mode will be enabled.

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7 OPERATION INSTRUCTIONS

7.1 GENERAL

This mobile elevating work platform is used to transport tools to work locations and for performing tasks on the work platform. This machine has two controllers: ground controller and platform controller.

WARNING

- Except in case of emergency, it is forbidden to perform operations from the ground if any person is still on the platform.
- If any switch/handle returns to the neutral position but the corresponding movement does not stop, push in the emergency stop button to stop the machine.
- The replacement joystick of the platform controller must be of the same brand as the original one, otherwise the machine functions may be impeded or accidents may occur.

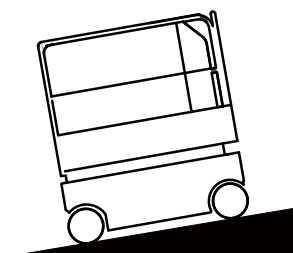
7.2 GRADEABILITY

Gradeability refers to the maximum allowable slope angle the machine can achieve on firm ground with sufficient traction, the platform in stowed position and occupied by only one person. Gradeability will decrease when the load on the platform increases.

WARNING

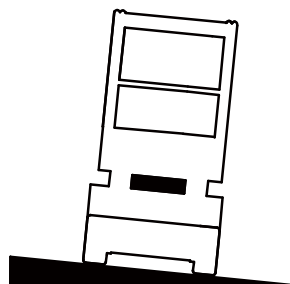
Do not drive the machine on slopes exceeding the machine's maximum gradeability.

The gradeability includes uphill/downhill as well as lateral slope capability. Uphill/downhill gradeability of this machine:



Uphill/downhill: 25 %/14 °

Lateral gradeability limit:



Side slope: 25 %/14 °

7.3 ACTIVATING THE MACHINE

Note: The initial start must always be done from the ground controller.

1. Pull out the emergency stop button at the ground controller to the ON position.
2. Set the “ground/platform control selector switch” on the ground controller to the “ground control” position.
3. The ground controller screen will be turned on and should show no error message. All functions will be operative only at the ground controller; the platform controller will not work.
4. Pull out the emergency stop button at the platform controller to the ON position.

WARNING

Before pulling out the emergency stop button at the platform controller, ensure the joystick is in the neutral position; if not, do not operate the machine.

5. Set the “ground/platform control selector switch” on the ground controller to the “platform control” position.
6. The platform controller screen will be turned on and should show no error message. All functions will be operative only at the platform controller; the ground controller will not work.

7.4 CHARGING BATTERY

There are three types of batteries that may be used: Lead acid battery, maintenance-free lead acid battery, and lithium battery. The latter two types do not require maintenance.

The battery level must be checked before each operation.

When the battery level is too low, the low battery alarm will be displayed on the platform display screen, and the high travel speed will be reduced. Stop the machine immediately and fully charge the battery.

Note

- The machine is delivered with a battery level less than 80%, so it is recommended that the battery is fully charged once the machine has been delivered.
- The charging current must not exceed the maximum allowable charging current indicated on the battery.
- The charging voltage must not exceed the maximum allowable voltage indicated on the battery.
- The battery charging temperature range is -10 °C to 45 °C. If equipped with a charging heating system, the charging temperature range is -20 °C to 45 °C.
- Battery over-discharge (continued use of battery with levels of less than 10%) or battery under-voltage caused by long-term non-charging (battery with levels of less than 10% not charged for more than three days), resulting in battery capacity attenuation and failure, are not covered by the warranty.
- It is recommended not to use a lead acid battery with an ambient temperature below 0 °C; otherwise the battery capacity will decay rapidly, and battery life will be affected.

Charging lead-acid (maintenance required) batteries

1. Checking the battery level.
 - Check the battery level on the screen of the platform controller. When the battery level is $\leq 20\%$, the low battery alarm will be triggered and the battery needs to be charged immediately. To avoid affecting the normal performance of the machine it is recommended to charge the battery when the battery level is below 30 %.
 - As an alternative means of determining the battery status, open the cover on the battery and measure the density of the electrolyte. If the density of the electrolyte is less than 1.13 kg/l the battery has been over-discharged (discharge

depth exceeds 80 %) and must be charged immediately. This should be avoided, as frequently over-discharging the battery will reduce its service life.

Note

Measure the temperature of the electrolyte. If it exceeds 45 °C wait for the battery to cool before proceeding to the following steps.

2. Completely power off the machine.
3. Connect the plug between the battery and the charger cable. If the machine is equipped with an automatic liquid refilling system, ensure that the re-filling pipe is connected.
4. Connect the battery charger to a grounded AC circuit. The indicator light will illuminate steadily once the battery is fully charged.
5. After charging is complete, disconnect the cable plug from the battery to the charger.

Charge maintenance-free batteries

1. Check the battery level on the screen of the platform controller. When the battery level is $\leq 20\%$, the low battery alarm will be triggered and the battery needs to be charged immediately. To avoid affecting the normal performance of the machine it is recommended to charge the battery when the battery level is below 30 %.
2. Completely power off the machine.
3. Connect the battery charger to a grounded AC circuit. The indicator light will illuminate steadily once the battery is fully charged.
4. After charging is complete, disconnect the cable plug from the battery to the charger.

Description of Battery Level Indications

The battery level indication on the platform display is as follows:

Table 7-1

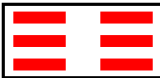
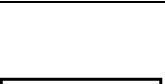
Platform battery level indication	State of charge	Description
	90-100 %	The battery has been fully charged.
	70 %	The battery is at 70 % of its capacity.

Table 7-1 (Continued)

Platform battery level indication	State of charge	Description
	50 %	The battery is at 50 % of its capacity.
	30 %	The battery is at 30 % of its capacity.
	20 %	The battery level is at 20 %, which is low. The battery should be charged immediately.
	10 %	The battery level is at 10 %, which is extremely low. The machine will move slowly. The battery should be charged immediately.

Charger LED Description

LED indicator light and digital display description:

Connect the charger to the battery and plug the charger to a standard power outlet; the charger will enter the charging mode. The following information will be displayed in sequence: AC XXX (the current AC input voltage), CPU X.XX (software version of the charger), b** (the current charging curve code).

Charging state indicator lights and digital display description:

- % (state of charge indicator light) represents the current state of charge in percent (%). For example: 10 20 30...100 (%).
- V (charge voltage indicator light) represents the current charge voltage, the number indicates the voltage value. For example: 24.0 (V).
- A (charge current indicator light) represents the current charge current, the number indicates the current value. For example: 36.0 (A).

7.5 INDOOR/OUTDOOR MODE SETTING

For machines with outdoor mode with limited height, you can set the machine to indoor/outdoor mode as per the instructions below. The maximum working height in different modes is different, as described in **Technical Parameters** section of this manual.



WARNING

The indoor mode must not be used in outdoor applications.

Note: The selected mode will not change when the machine is turned off. When the machine is turned on, the previously selected mode is still selected.

DTC control system

1. Press and hold the combined keys (platform lift and lower function enable button + low speed button) at the platform controller for at least 3s to switch between the indoor and outdoor modes.
2. After the outdoor mode is selected, the decimal point at the bottom center of the platform control screen will be off, the battery level indication will be changed to "Od" on the screen, and the platform can be lifted to its maximum height in outdoor mode. The battery level will be displayed again after the combined keys are released.
3. After the indoor mode is selected, the decimal point at the bottom center of the platform control screen will be on, the battery level indication will be changed to "Id" on the screen (the battery level will be displayed again after the combined keys are released), and the platform can be lifted to its maximum height in outdoor mode. Then, return the joystick to the neutral position and release it, hold the enable switch on the joystick and push the joystick forward, and the platform will continue to rise to its maximum height in indoor mode.

Sinoboom control system

For programs in Chinese models:

1. Push the indoor/outdoor mode selector switch up with the machine stowed: the machine will be switched to outdoor mode.
2. After the outdoor mode is selected, the decimal point at the bottom right of the platform control screen will be off, and the platform can be lifted to its maximum height in outdoor mode, with "Od" shown on the platform control screen.
3. Push the indoor/outdoor mode selector switch down with the machine stowed, and the machine will be switched to indoor mode.
4. After the indoor mode is selected, the decimal point

at the bottom right of the platform control screen will illuminate, and the platform can be lifted to its maximum height in outdoor mode, with "Id" shown on the platform control screen. Then, return the joystick to the neutral position and release it, hold the enable switch on the joystick and push the joystick forward, and the platform will continue to rise to its maximum height in indoor mode.

For other programs:

1. Push the indoor/outdoor mode selector switch up with the machine stowed, and the machine will be switched to outdoor mode.
2. After the outdoor mode is selected, the decimal point at the bottom right of the platform control screen will be off, and the platform can be lifted to its maximum height in outdoor mode, with "Od" shown on the platform control screen.
3. Push the indoor/outdoor mode selector switch down with the machine stowed, and the machine will be switched to indoor mode.
4. After the indoor mode is selected, the decimal point at the bottom right of the platform control screen will illuminate, and the platform can be lifted to its maximum height in outdoor mode, with "Id" shown on the platform control screen. Then, return the joystick to the neutral position and release it, push the indoor/outdoor mode selector switch up to the outdoor mode and then down to the indoor mode, hold the enable switch on the joystick and push the joystick forward, and the platform will continue to rise to its maximum height in indoor mode.

7.6 LIFTING AND LOWERING PLATFORM

WARNING

If the tilt alarm is triggered, stop operation and fully lower the platform. Do not start operation again unless the tilt cause has been corrected.

Perform operation from the ground:

1. **Lift the platform:** Press and hold the Enable key on the joystick and press the Platform Up key. The platform should rise and the pothole protective device should deploy.
2. **Lower the platform:** Press and hold the enable button on the joystick and press the platform down switch. The platform should go down and the pothole protective device should retract.

Perform operation from the platform:

Note: When performing operation from the platform, the lifting speed of the platform is in direct proportion to the travel distance of the joystick. The shorter the travel distance, the slower the speed.

1. Enable platform lift and lower mode:

- DTC control system: Press the platform lift and lower function enable button, the indicator light will illuminate, and the machine will enter the platform lift and lower mode.
- Sinoboom control system: Push the lift/drive and steer function enable switch up, the indicator above the switch will illuminate, and the machine will enter the platform lift and lower mode.

2. **Lift the platform:** Press and hold the Enable switch on the joystick and push the joystick forward. The platform should rise and the pothole protective device should deploy.

3. **Lower the platform:** Press and hold the enable button on the joystick and pull the joystick back. The platform should go down and the pothole protective device should retract.

7.7 TRAVELING

WARNING

- The machine must not travel with the platform raised unless it is on a firm and flat surface without exceeding the maximum allowable climbing angle.
- The machine must not be driven on slopes, steps or arched surfaces that exceed the maximum gradeability of the machine.
- Extreme care must be taken when driving the machine in reverse or with the platform raised.
- When driving the machine in potentially dangerous situations such as driving on slopes or reversing, operate the handle in small increments to avoid danger due to excessive speed.

Note: The travel speed is in direct proportion to the travel distance of the handle. The shorter the travel distance, the slower the speed.

Activating Drive and Steer Mode

- Sinoboom Control System: Move the lift/drive and steer function enable switch down, the indicator under the switch will illuminate. The machine will enter drive and steer mode.
- DTC control system: Press the drive and steer function enable switch, the indicator light will illuminate.

The machine will enter drive and steer mode.

Driving Forward and Reverse

Note: The travel speed is in direct proportion to the travel distance of the joystick. The shorter the travel distance, the slower the speed.

1. Activating drive and steer mode.
2. **Driving forward:** Press and hold the Enable switch on the joystick and push the joystick forward. The machine will move forward.
3. **Driving reverse:** Press and hold the Enable switch on the joystick and pull the joystick back. The machine will move in reverse.
4. **Braking:** While the machine is traveling: when the joystick is released the machine should stop.

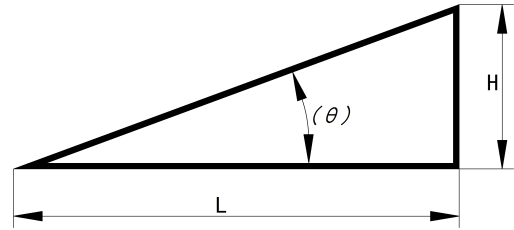


Fig 1

- Slope grade= $H/L \times 100\%$.



WARNING

To avoid the motor overheating, do not drive the machine on the maximum permissible slope for more than 2 minutes.

Steering While Traveling

1. Activating drive and steer mode.
2. **Steer left:** Press and hold the Enable switch on the joystick, push the joystick forward and press the left button on the top of the joystick with your thumb – the machine will steer left.
3. **Steer right:** Press and hold the Enable switch on the joystick, push the joystick forward and press the right button on the top of the joystick with your thumb – the machine will steer right.

High/Low Travel Speed Switching



WARNING

- In a tilted condition the machine must be driven at low speed.
- Before traveling at high speeds, make sure to first observe whether the surrounding environment is safe. Otherwise, it is possible that collisions and other hazards may occur with obstacles or other people.

Traveling on Slopes



WARNING

The machine must not be driven on slopes, steps or arched surfaces that exceed the maximum gradeability of the machine.

Before traveling on a slope, please determine:

1. the machine's maximum gradeability.
2. The slope grade. To determine the slope grade:
 - Use a suitable carpenter's ruler, a straight piece of wood and a tape measure.
 - Measure the height (H) and length (L) of the slope.

Sinoboom Control System:

1. With the machine traveling in non-operating position, push the high/low travel speed selector switch up, the indicator will be illuminate, and the travel speed will be switched to low speed.

NOTICE

With the machine in non-operating position and the high/low travel speed selector switch in neutral or lower position, activate the travel function and push the joystick to full drive position, then the machine will travel at high speed.

2. With the machine in operating position, the travel speed of the machine will be reduced to the speed for the raised position automatically.

DTC control system:

1. With the machine in non-operating position, press the low speed button, the button will illuminate, the machine will switch to low speed travel.

NOTICE

With the machine in non-operating position and the low speed button not activated, activate the travel function and push the joystick to full drive position: the machine will travel at high speed.

2. With the machine in operating position, the travel speed of the machine will be reduced to the speed for the raised position automatically.

7.8 EXTENDING AND RETRACTING PLATFORM

WARNING

- While extending the platform, do not stand on the platform extension.
- Do not lower the platform if the extending platform has not been fully retracted.
- The extending platform can be secured in three slots. Do not work on the extending platform while it has not been secured.

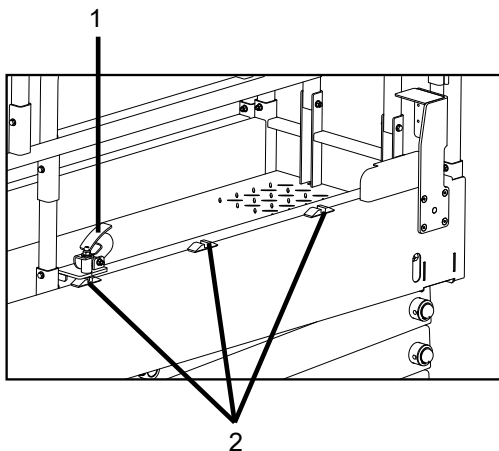


Fig 2

Extend the platform:

1. Depress the pedal #1, grasp and push the guardrail of the extending platform to extend the extending platform.
2. Release the pedal #1, and insert the extending platform end into the slot #2 to secure it.

Retract the platform:

1. Depress the pedal #1, grasp and pull the guardrail of the extending platform to retract the extending platform.
2. Release the pedal #1, and insert the extending platform end into the slot #2 to secure it.

7.9 FOLDING AND UNFOLDING PLATFORM GUARDRAILS

The platform guardrails can be folded for convenient transportation.

WARNING

- Do not raise the platform while the guardrails are folded. The guardrails must be unfolded and secured properly while the platform is lifting.
- Fold/unfold the guardrails only when the machine is stowed and the extending platform is fully retracted.
- Do not reach hands and arms near areas where they may be crushed.
- With the platform guardrails folded, if the machine is to be started from the ground with the platform controller, the operator should maintain a safe distance of at least 1m (3ft) from the machine.

Fold the platform guardrails:

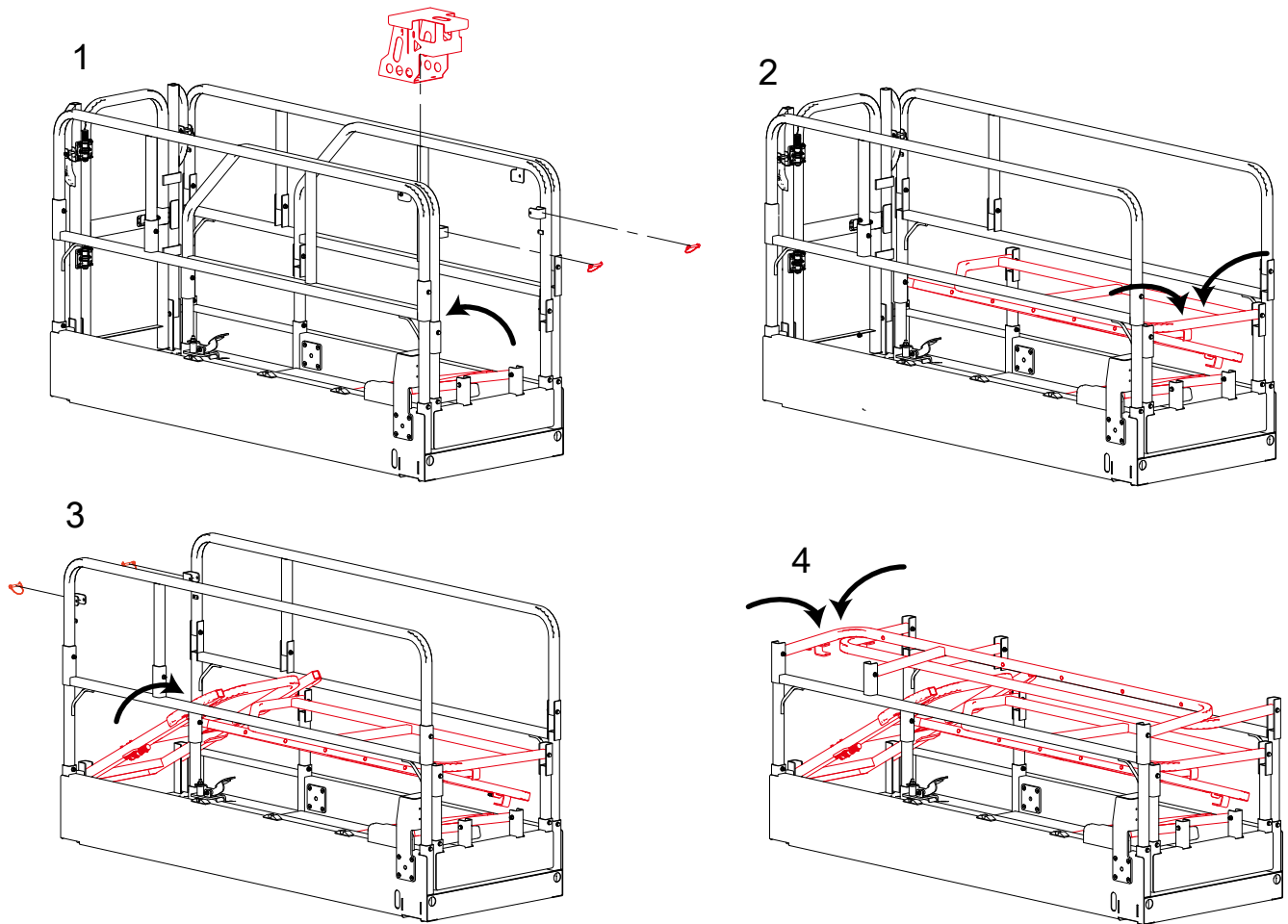


Fig 3

1. Remove the platform controller and its bracket. Remove the two wire rope safety pins at the front of the extending platform. Fold the front guardrail of extending platform inward.
2. Fold the guardrails on both sides of the extending platform inward.
3. Pull out the two wire rope safety pins at the rear of the fixed platform, and fold the access gate and the connected left and right guardrails inward.
4. Fold the guardrails on both sides of the fixed platform inward.
5. Make sure that the platform is fully lowered and all panels and gates are closed and secured.
6. Remove all loads from the platform.
7. Press the emergency stop buttons on the ground controller and platform controller, and switch the ground/platform control selector switch to "neutral" position, and remove the key (if equipped).
8. Close the platform controller guard to protect the platform controller and its handles, switches and panels from damage by harsh environments.
9. If the machine will not be used for a prolonged period of time, press the power switch to OFF/pull out the power handle.

Unfold the platform guardrails:

Unfold the platform guardrails in the reverse order of the folding instructions.

7.10 SHUTDOWN AND PARKING

1. Park the machine on a firm, flat, and level surface, and make sure the area is adequately protected.

7.11 TRANSPORT AND LIFTING

The mobile elevating work platform is a non-road vehicle and is not licensed for on-road use, so the machine needs to be transported and transferred by road, railway or waterway.



WARNING

Only qualified individuals may drive the machine onto or from the transport vehicle.

Before transporting and lifting the machine:

1. Determine the total weight of the machine (see machine nameplate or **Technical Parameters** section of this manual) and select the appropriate lifting equipment, rigging equipment, and transport vehicle.
2. Make sure that the machine is stowed, the machine has no loose or unfixed parts, and that no people or any tools are on the platform.
3. Ensure that the machine lifting points/rigging equipment lashing points and their rigging equipment are intact and that the belt or rope to be used has sufficient load strength.
4. Before loading/unloading the machine, ensure that the transport vehicle is parked on level ground and that the ramp used for driving the machine onto the transport vehicle does not exceed the maximum gradeability of the machine.
5. When loading/unloading the machine, the transport vehicle must be secured to prevent it from moving.
6. The wheels should be locked after the machine is loaded to prevent it from moving.
7. Before releasing the brake, the machine must be parked on a horizontal surface or secured.
8. The machine may only be lifted from a specific position with a forklift or crane with sufficient lifting capacity. Care should be taken to prevent the machine from colliding with surrounding objects.

Transport

1. Adjust the machine to the transport position.
2. On the ground controller, switch the "ground/platform control selector switch" to "neutral" position, and remove the key (if equipped).
3. Use at least 2 ropes or belts at the lashing points shown in the figure below to securely fix the chassis to the transport vehicle, and take appropriate safety protection measures.
4. Adjust the rigging appropriately to prevent damage to the rope or belt.

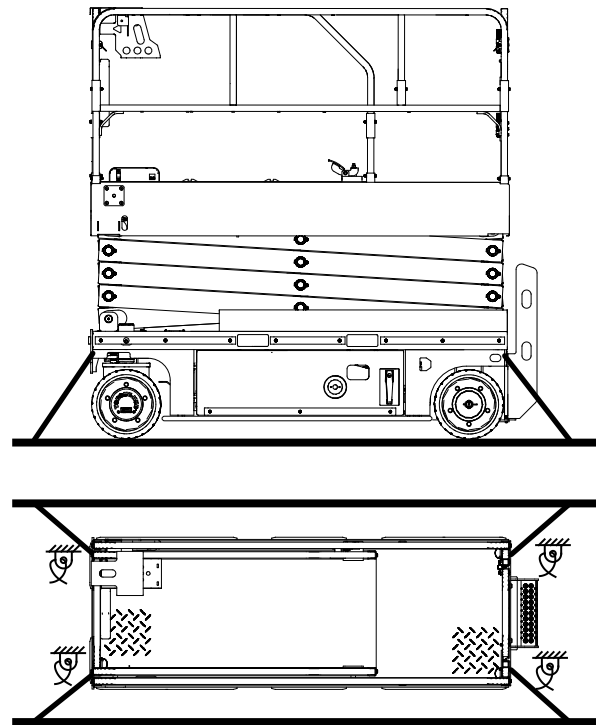


Fig 4 Transport diagram

Lifting

1. Determine the center of gravity of the machine.
2. The rigging equipment must be attached to the machine's specified lifting point.
3. Adjust the rigging equipment properly to avoid damage to the machine and keep the machine level.

GTJZ0608E: X=881mm (2ft 10in) Y=560mm (1ft 10in)

GTJZ0808E: X=880mm (2ft 10in) Y=596mm (1ft 11in)

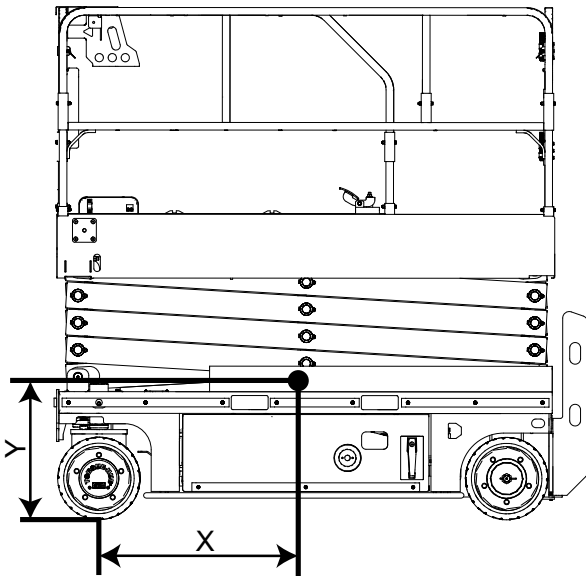


Fig 5 Diagram of center of gravity

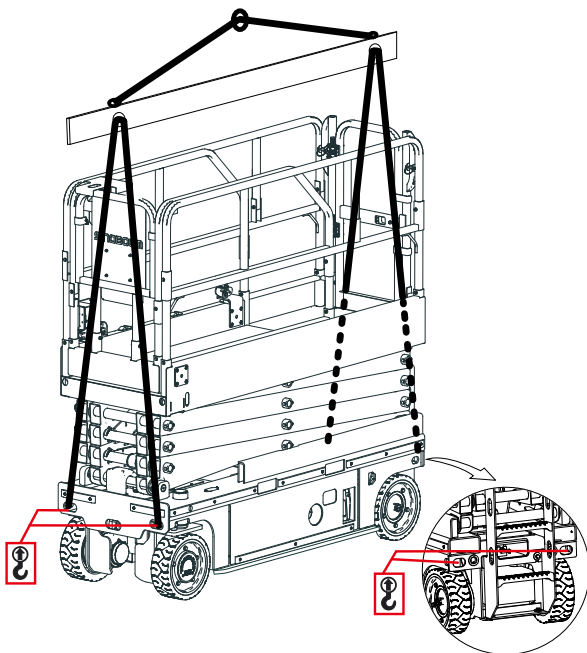


Fig 6 Diagram of lifting with rigging equipment

A forklift may be used to lift the machine.

1. Align the forklift to the arrows shown in the diagram below.
2. Drive the forklift forward to fully insert the forks into the pockets.
3. Lift the machine by 0.4 m (16 in) and then tilt the forks backward slightly to keep the machine stable.
4. Keep the machine horizontal when lowering the fork frame.

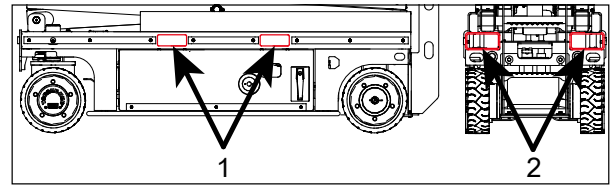


Fig 7 Diagram of lifting with forklift

7.12 STORAGE

Mobile elevating work platforms should be stored in places that are protected from rain, humidity, sunlight, or corrosive gases, and that have good ventilation.

In order to ensure the machine can be operated normally after prolonged storage the following measures should be taken when storing the machine:

1. Lower the platform to the stowed position.
2. Close and lock all panels and gate locks on the machine.
3. Press the emergency stop buttons on the ground controller and platform controller, and switch the ground/platform control selector switch to "neutral" position, and remove the key (if equipped).
4. Press the power switch/pull out the main power handle.
5. Chock the wheels.
6. Wipe off all dust and oil from the machine to keep it clean.
7. Apply lubricating oil to parts prone to corrosion.
8. When long-term storage is required, the hydraulic oil should be drained, and the positive and negative terminal of the battery should be disconnected.
9. For a machine stored for more than three months, idle the machine every three months for not less than one hour each time, and clean and maintain the machine.
10. For a machine stored for more than one and a half years, a comprehensive inspection and maintenance on the machine should be carried out before use, aging seals and filter elements should be replaced as appropriate.

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8

EMERGENCY PROCEDURES

This chapter describes the steps to follow in the event of unexpected situations during operation.

8.1 REPORTING ACCIDENTS

In case of any accident involving Hunan Sinoboom Intelligent Equipment Co., Ltd. products, Hunan Sinoboom Intelligent Equipment Co., Ltd. must be notified immediately. In case of any accident involving the machinery of Hunan Sinoboom Intelligent Equipment Co., Ltd., notify Hunan Sinoboom Intelligent Equipment Co., Ltd. by telephone immediately and provide all necessary details, even if the accident did not cause personal injury or property damage.

Failure to notify the manufacturer within 48 hours of the incident involving the machinery of Hunan Sinoboom Intelligent Equipment Co., Ltd. may void the product warranty.

Note

Thoroughly inspect the machine and all its functions after any accident. First, test all functions from the ground controller, then from the platform controller. Ensure the machine's lifting height does not exceed 3 m (10 ft) until all damage has been repaired and all controllers operate properly.

8.2 EMERGENCY OPERATION

When the operator is unable to control the machine (squeezed or trapped on the platform):

1. Other personnel can only operate the machine with the ground controller according to the operation requirements.
2. Other qualified operation personnel on the platform can operate the platform controller. If the controller is not working properly, do not continue to operate.
3. Hoists, forklifts or other equipment that meet the requirements of use can be used to transport people on the platform and stabilize the movement of the machine.

When the platform is stuck at height:

If the platform is stuck or blocked by high buildings or aerial equipment, rescue the operator on the platform first and then get the machine out.

If any switch is reset but the movement does not stop:

If any switch/handle returns to the neutral position but the corresponding movement does not stop, push in the emergency stop button to stop the machine.

8.3 EMERGENCY LOWERING

When the power source fails, the emergency lowering handle can be used as appropriate to lower the platform into place. Follow the steps below:

1. Locate the emergency lowering handle located at the rear of the chassis.
2. Pull out the emergency lowering handle slowly to lower the platform.

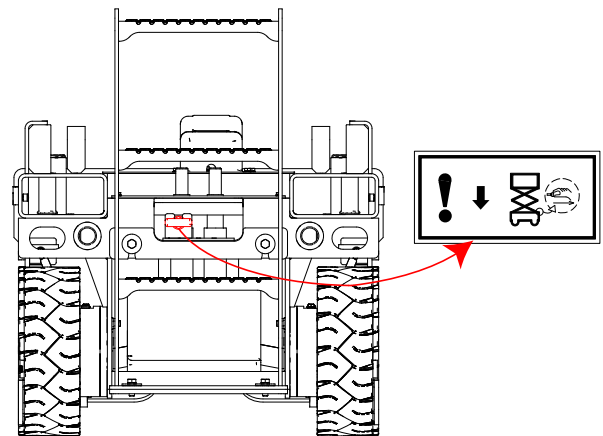


Fig 1

8.4 EMERGENCY TOWING

WARNING

- Except in case of emergency situations, machine malfunction, power loss or loading/unloading, it is strictly prohibited to tow or drag the machine.
- When towing or dragging the machine, comply with local policies and road traffic regulations.
- Towing the machine on public highways is prohibited.
- The machine is not equipped with a brake for towing control, so the towing vehicle must be able to control the machine at all times, otherwise the machine may lose control, resulting in serious injury or death.
- The maximum permissible towing speed is 3 km/h (1.9 mph).
- The maximum permissible towing gradient is 25 %.
- Where the brake has not been released, towing/dragging is not permitted.
- Before the brake is released, the machine must be parked on a horizontal surface or secured.

Method 1:

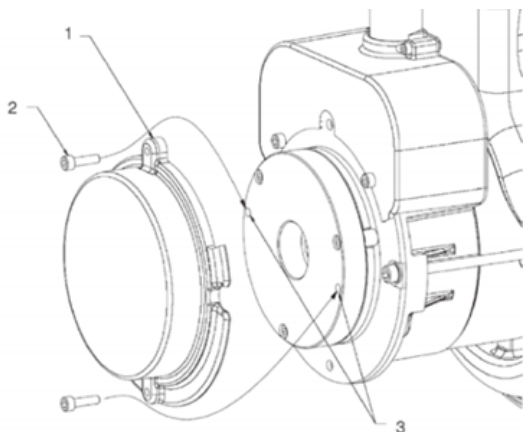


Fig 2 Drive motor

Table 8-1

No.	Name
1	Brake cover
2	Brake end cap bolts
3	Bolt hole

1. Place the machine on firm, level ground and secure the wheels with chocks to prevent the machine from moving.
2. Make sure that the machine is stowed and has no loose or unfixed parts, and there are no people or tools in the platform and no obstacles in the surrounding passage.
3. Remove the two end cap bolts and brake cover on the drive motor.
4. Insert the end cap bolts into the two bolt holes on the brake housing. Tighten the end cap bolts, the brake on the drive motor will disengage and braking will be released.
5. After towing, place the machine on firm, level ground and secure the wheels with chocks to prevent the machine from moving.
6. Remove the end cap bolts from the holes, and re-install the brake cover and end cap bolts to the original position.

Method 2 (for Sinoboom Control System):

1. Place the machine on solid level ground and secure the wheels with chocks to prevent the machine from moving.
2. Make sure that the machine is stowed and has no loose or unfixed parts, and there are no people or tools in the platform and no obstacles in the surrounding passage.
3. Pull out the emergency stop button at the ground controller to the ON position.
4. Turn the key switch to the ground control position.
5. Press the Enter key to enter the ECU menu selection mode.
6. Press the Page Down key until the screen shows "System Setting", then press the Enter key.
7. Press the Page Down key until the screen shows "Brake Release", and then press and hold the Enter key for 5 s.
8. The buzzer will sound, and the message "Brake Is Released" will be shown on the display, indicating that the brakes were released successfully.
9. The machine may then be towed or dragged by an external force.
10. After towing, place the machine on firm, level ground and secure the wheels with chocks to prevent the machine from moving.
11. Turn on the machine, so the brake can be operated properly.

Method 2 (for DTC control system):

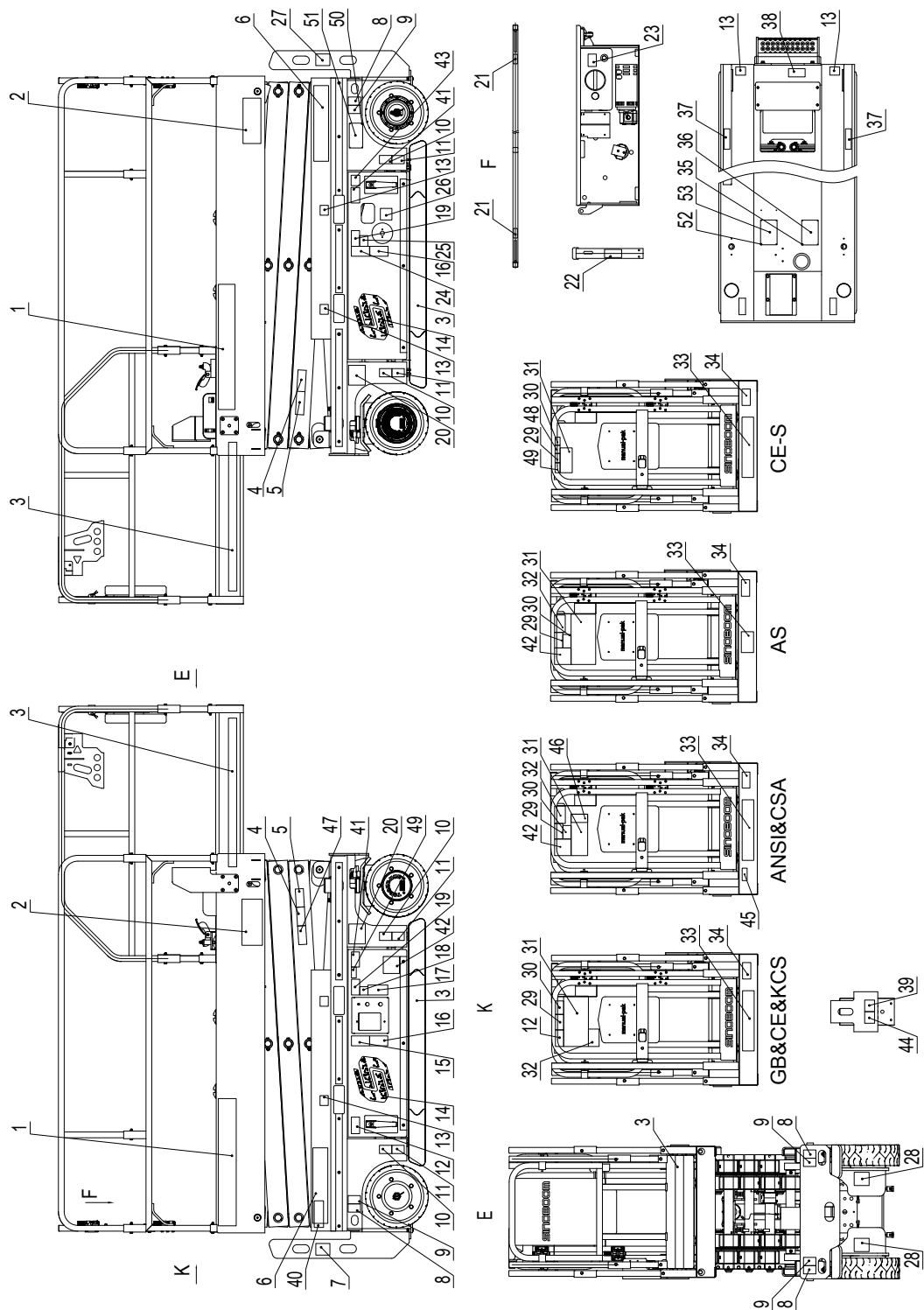
1. Place the machine on firm, level ground and secure the wheels with chocks to prevent the machine from moving.

2. Make sure that the machine is stowed and has no loose or unfixed parts, and there are no people or tools in the platform and no obstacles in the surrounding passage.
3. Pull out the emergency stop button at the ground controller to the ON position.
4. Turn the key switch to the ground control position.
5. Press the Enter key to enter the ECU menu selection mode.
6. Press the Page Down key until the screen shows "Machine Mode", then press the Enter key.
7. Press the Page Down key until the screen shows "Break Release", and then press and hold the Enter key for 5s.
8. The buzzer will sound, and the message and "Break Is Released" will be shown on the screen, indicating braking released successfully.
9. The machine may then be towed or dragged by an external force.
10. After towing, place the machine on firm, level ground and secure the wheels with chocks to prevent the machine from moving.
11. Turn on the machine, so the brake can be operated properly.

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9 DIAGRAM OF DECALS

GTJZ0608E DECALS DIAGRAM



No.	GB	CE-Metric	CE-Imperial	CE-PL	CE-S	Description
	101053000004	101053000005	101053103018	101053103007	101053103008	General diagram of decals positions
1	101048103025	101048103025	101048103025	101048103025	101040103021	LOGO SINOBOOM
2	101053103016	101053103016	101053103015	101053103015	101053103016	Decal - Trade ID 0608E
3	216060000004	216060000004	216060000004	216060000004	216060000004	Yellow & black hazard warning stripe tape (50mm wide)
4	101012100029	101012100029	101012100029	101012100029	101012100029	Decal - Crushing hazard
5	101012100018	101012100018	101012100018	101012100018	101012100018	Decal - Crushing hazard
6	101062103028	/	/	/	/	Decal - Service number + enquiry QR code
7	101014100007	101014100007	101014100007	101014100007	101014100007	Decal - Platform charging plug
8	101014100020	101014100020	101014100020	101014100020	101014100020	Decal - Lifting point
9	101014100021	101014100021	101014100021	101014100021	101014100021	Decal - Lashing point
10	101053103017	101053103017	101053103017	101053103019	101053103017	Decal - Tire ground load of 900kg
11	101014100013	101014100013	101014100013	101014100013	101014100013	Decal - Crushing hazard
12	101012100005	101012100005	101012100005	101012100005	/	Decal - Electrocution hazard
13	101012100026	101012100026	101012100026	101012100026	101012100026	Decal - Forklift pockets
14	101048103026	101048103026	101048103026	101048103026	/	Decal - Large logo in white
15	101014100015	101014100015	101014100015	101014100015	101014100015	Decal - High pressure hazard
16	101014100014	101014100014	101014100014	101014100014	101014100014	Decal - No smoking or open flames
17	101014100017	101014100017	101014100017	101014100017	101014100017	Decal - Refer to the manuals
18	101014100018	101014100018	101014100018	101014100018	101014100018	Decal - Lifting point
19	101012100008	/	/	/	/	Decal - Tipping hazard
20	101038100010	/	/	/	/	Decal - Warranty label
21	101048100014	101016100030	101016100030	101016100030	101058103017	Decal - Anchorage point
22	101014100026	101014100026	101014100026	101014100026	101014100026	Decal - Safety arm
23	101014100022	101014100022	101014100022	101014100022	101014100022	Decal - Hydraulic oil filler
24	101014100016	101014100016	101014100016	101014100016	101014100016	Decal - Electrocution hazard
25	101042103020	/	/	/	/	Decal - Tipping hazard

No.	GB	CE-Metric	CE-Imperial	CE-PL	CE-S	Description
26	101056103002	101016100031	101016100031	101016100031	101058103015	Decal - Power switch
27	101014100008	101014100008	101014100008	101014100008	101014100008	Decal - Charging voltage
28	101040103008	101040103008	101040103008	101040103008	101040103008	Decal - Release brake
29	101040100005	101040100005	101040100005	101040100005	101054103001	Decal - Refer to the manuals
30	101040100009	101040100009	101040100009	101040100009	101054103002	Decal - Tipping hazard
31	101053000009	101053000009	101053000009	101053000009	101053103003	Decal - 0608E requirements of use
32	101012100019	101012100019	101012100019	101012100019	/	Decal - Tipping hazard
33	101053000008	101053000008	101053000008	101053000008	101053000008	Decal - 0608E requirements of use
34	101058103001	101058103001	101058103001	101058103001	101058103001	LOGO IPAF
35	215050000012	/	/	/	/	Rivet 4X8 GB/T12618
36	101017100009	/	/	/	/	Nameplate
37	101014100032	101014100032	101014100032	101014100032	101014100032	Decal - Machine serial number
38	101014100025	101014100025	101014100025	101014100025	101014100025	Decal - Emergency lowering
39	101055103016	101055103015	101055103015	101055103015	101058103016	Decal - Emergency stop button
40	/	/	/	101058103000	/	Q-LINE_LOGO (small)
41	/	101012100008	101012100008	101012100008	101012100008	Decal - Tipping hazard
42	/	/	/	/	/	Decal - Electrocution hazard
43	/	101041103020	101041103020	101041103020	101041103020	Decal - Tipping hazard
44	/	/	/	/	/	Decal - Detachable joystick bracket
45	/	/	/	/	/	Decal - Annual inspection date
46	/	/	/	/	/	Decal - Operation instructions
47	/	/	/	/	/	Decal - Crushing hazard
48	/	/	/	/	101049103022	Decal - Tipping hazard
49	/	/	/	/	101053103005	Decal - Electrocution hazard
50	/	/	/	/	215050000012	Rivet 4X8 GB/T12618
51	/	/	/	/	101055103002	Nameplate

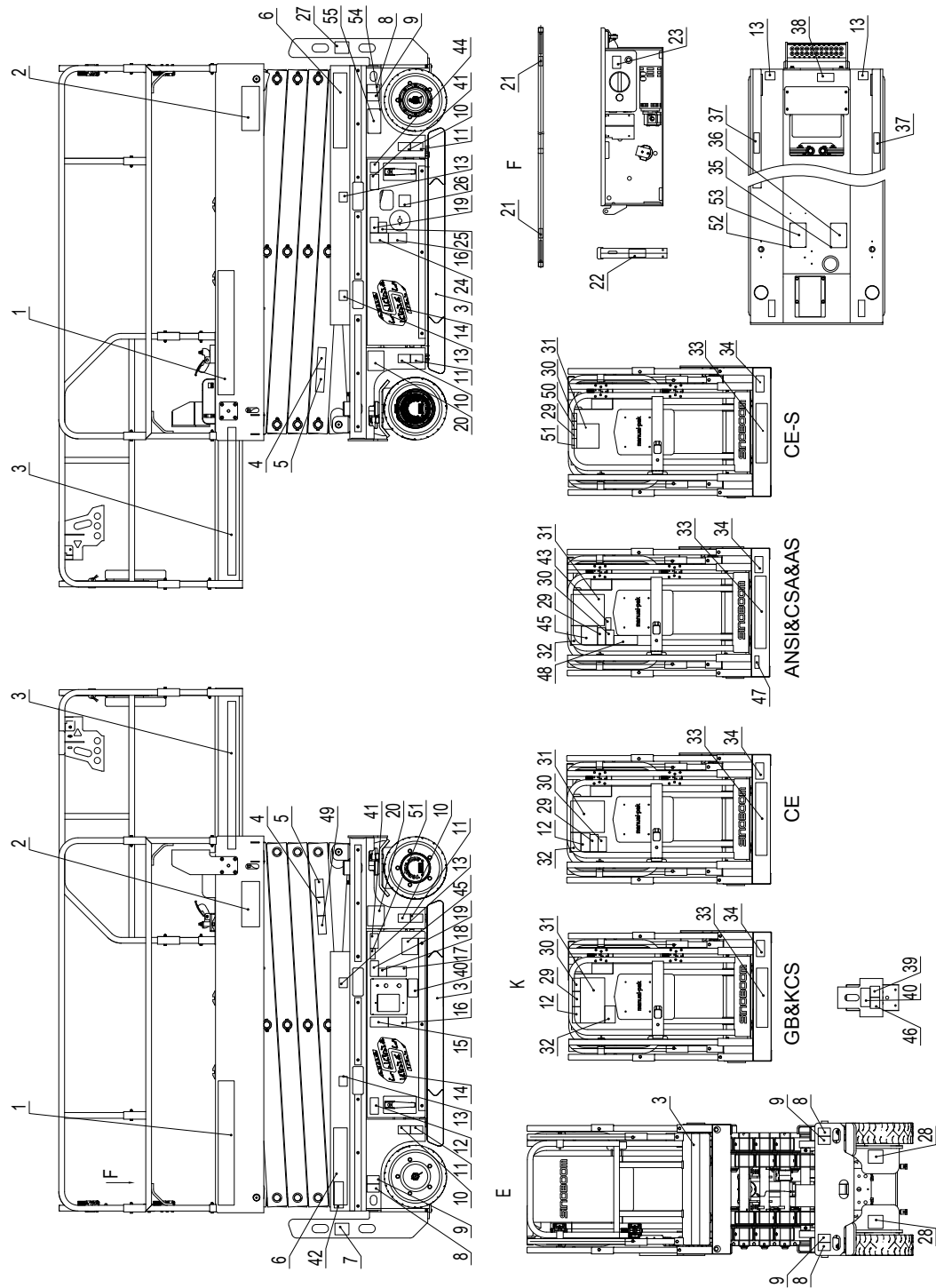
No.	GB	CE-Metric	CE-Imperial	CE-PL	CE-S	Description
52	/	215050000012	215050000012	215050000012	/	Rivet 4X8 GB/T12618
53	/	101072103020	101072103020	101072103020	/	Nameplate

No.	ANSI	CSA	AS	KCS	Description
	101053103011	101053103014	101053000006	101053103006	General diagram of decals positions
1	101048103025	101048103025	101048103025	101048103025	LOGO SINOBOOM
2	101053103015	101053103015	101053103016	101053103016	Decal - Trade ID 0608E
3	216060000004	216060000004	216060000004	216060000004	Yellow & black hazard warning stripe tape (50mm wide)
4	101012100029	101012100029	101012100029	101012100029	Decal - Crushing hazard
5	101012100018	101012100018	101012100018	101012100018	Decal - Crushing hazard
6	/	/	/	/	Decal - Service number + enquiry QR code
7	101014100007	101014100007	101014100007	101014100007	Decal - Platform charging plug
8	101014100020	101014100020	101014100020	101014100020	Decal - Lifting point
9	101014100021	101014100021	101014100021	101014100021	Decal - Lashing point
10	101053103020	101053103020	101053103017	101053103017	Decal - Tire ground load of 900kg
11	101014100013	101014100013	101014100013	101014100013	Decal - Crushing hazard
12	/	/	/	101012100005	Decal - Electrocutation hazard
13	101012100026	101012100026	101012100026	101012100026	Decal - Forklift pockets
14	101048103026	101048103026	101048103026	101048103026	Decal - Large logo in white
15	101014100015	101014100015	101014100015	101014100015	Decal - High pressure hazard
16	101014100014	101014100014	101014100014	101014100014	Decal - No smoking or open flames
17	101014100017	101014100017	101014100017	101014100017	Decal - Refer to the manuals
18	101014100018	101014100018	101014100018	101014100018	Decal - Lifting point
19	/	/	/	/	Decal - Tipping hazard
20	/	/	/	/	Decal - Warranty label
21	101016100030	101016100030	101016100030	101016100030	Decal - Anchorage point
22	101014100026	101014100026	101014100026	101014100026	Decal - Safety arm
23	101014100022	101014100022	101014100022	101014100022	Decal - Hydraulic oil filler
24	101014100016	101014100016	101014100016	101014100016	Decal - Electrocutation hazard
25	/	/	/	/	Decal - Tipping hazard

No.	ANSI	CSA	AS	KCS	Description
26	101016100031	101016100031	101016100031	101055103018	Decal - Power switch
27	101014100008	101014100008	101014100008	101014100008	Decal – Charging voltage
28	101040103008	101040103008	101040103008	101040103008	Decal - Release brake
29	101040100005	101040100005	101040100005	101040100005	Decal – Refer to the manuals
30	101040100009	101040100009	101040100009	101040100009	Decal – Tipping hazard
31	101053103012	101053103012	101053000009	101053000009	Decal - 0608E requirements of use
32	101012100019	101012100019	101012100019	101012100019	Decal – Tipping hazard
33	101053103013	101053103013	101053000010	101053000008	Decal - 0608E requirements of use
34	101058103001	101058103001	101058103001	101058103001	LOGO IPAF
35	215050000012	215050000012	215050000012	215050000012	Rivet 4X8 GB/T12618
36	101045103040	101048103022	101012100038	101015100026	Nameplate
37	101014100032	101014100032	101014100032	101014100032	Decal - Machine serial number
38	101014100025	101014100025	101014100025	101014100025	Decal - Emergency lowering
39	101055103015	101055103015	101055103015	101055103015	Decal – Emergency stop button
40	/	/	/	/	Q-LINE_LOGO (small)
41	101012100008	101012100008	101012100008	101012100008	Decal – Tipping hazard
42	101040103013	101040103013	101055103019	/	Decal – Electrocutation hazard
43	101038103017	101038103017	101041103020	101041103020	Decal – Tipping hazard
44	101040103014	101040103014	101040103014	/	Decal - Detachable joystick bracket
45	101040103015	101040103015	/	/	Decal – Annual inspection date
46	/	101048103023	/	/	Decal - Operation instructions
47	/	104011100021	/	/	Decal - Crushing hazard
48	/	/	/	/	Decal – Tipping hazard
49	/	/	/	/	Decal – Electrocutation hazard
50	/	/	/	/	Rivet 4X8 GB/T12618
51	/	/	/	/	Nameplate

No.	ANSI	CSA	AS	KCS	Description
52	/	/	/	/	Rivet 4X8 GB/T12618
53	/	/	/	/	Nameplate

GTJZ0808E DECALS DIAGRAM



No.	GB	CE-Metric	CE-Imperial	CE-PL	CE-S	Description
	101054000003	101054000004	101054103015	101054103004	101054103005	General diagram of decals positions
1	101048103025	101048103025	101048103025	101048103025	101040103021	Decal - SINOBOOM
2	101054103014	101054103014	101054103012	101054103012	101054103014	Decal - Trade ID 0808E
3	216060000004	216060000004	216060000004	216060000004	216060000004	Yellow & black hazard warning stripe tape (50mm wide)
4	101012100029	101012100029	101012100029	101012100029	101012100029	Decal - Crushing hazard
5	101012100018	101012100018	101012100018	101012100018	101012100018	Decal - Crushing hazard
6	101062103028	/	/	/	/	Decal - Service number + enquiry QR code
7	101014100007	101014100007	101014100007	101014100007	101014100007	Decal - Platform charging plug
8	101014100020	101014100020	101014100020	101014100020	101014100020	Decal - Lifting point
9	101014100021	101014100021	101014100021	101014100021	101014100021	Decal - Lashing point
10	101053103017	101053103017	101053103017	101054103016	101053103017	Decal - Tire ground load of 900kg
11	101014100013	101014100013	101014100013	101014100013	101014100013	Decal - Crushing hazard
12	101012100005	101012100005	101012100005	101012100005	/	Decal - Electrocution hazard
13	101012100026	101012100026	101012100026	101012100026	101012100026	Decal - Forklift pockets
14	101048103026	101048103026	101048103026	101048103026	/	Decal - Large logo in white
15	101014100015	101014100015	101014100015	101014100015	101014100015	Decal - High pressure hazard
16	101014100014	101014100014	101014100014	101014100014	101014100014	Decal - No smoking or open flames
17	101014100017	101014100017	101014100017	101014100017	101014100017	Decal - Refer to the manuals
18	101014100018	101014100018	101014100018	101014100018	101014100018	Decal - Lifting point
19	101012100008	/	/	/	/	Decal - Tipping hazard
20	101038100010	/	/	/	/	Decal - Warranty label
21	101048100014	101016100030	101016100030	101016100030	101058103017	Decal - Anchorage point
22	101014100026	101014100026	101040100010	101014100026	101014100026	Decal - Safety arm
23	101014100022	101014100022	101014100022	101014100022	101014100022	Decal - Hydraulic oil filler
24	101014100016	101014100016	101014100016	101014100016	101014100016	Decal - Electrocution hazard
25	101042103020	/	/	/	/	Decal - Tipping hazard

No.	GB	CE-Metric	CE-Imperial	CE-PL	CE-S	Description
26	101056103002	101016100031	101016100031	101016100031	101058103015	Decal - Power switch
27	101014100008	101014100008	101014100008	101014100008	101014100008	Decal - Charging voltage
28	101040103008	101040103008	101040103008	101040103008	101040103008	Decal - Release brake
29	101040100005	101040100005	101040100005	101040100005	101054103001	Decal - Refer to the manuals
30	101040100009	101040100009	101040100009	101040100009	101054103002	Decal - Tipping hazard
31	101054000008	101054103019	101054103019	101054103019	101054103021	Decal - 0808E requirements of use
32	101012100019	101012100019	101012100019	101012100019	/	Decal - Tipping hazard
33	101054000007	101054103020	101054103020	101054103020	101054103020	Decal - 0808E requirements of use
34	101058103001	101058103001	101058103001	101058103001	101058103001	LOGO IPAF
35	215050000012	/	/	/	/	Rivet 4X8 GB/T12618
36	101017100009	/	/	/	/	Nameplate
37	101014100032	101014100032	101014100032	101014100032	101014100032	Decal - Machine serial number
38	101014100025	101014100025	101014100025	101014100025	101014100025	Decal - Emergency lowering
39	101055103016	101055103015	101055103015	101055103015	101058103016	Decal - Emergency stop button
40	/	101062103022	101062103022	101062103022	101062103022	Decal - Check working environment
41	/	101012100008	101012100008	101012100008	101012100008	Decal - Tipping hazard
42	/	/	/	101058103000	/	Q-LINE_LOGO (small)
43	/	/	/	/	/	Decal - Non-insulated
44	/	101041103020	101041103020	101041103020	101041103020	Decal - Tipping hazard
45	/	/	/	/	/	Decal - Electrocution hazard
46	/	/	/	/	/	Decal - Detachable joystick bracket
47	/	/	/	/	/	Decal - Annual inspection date
48	/	/	/	/	/	Decal - Operation instructions
49	/	/	/	/	/	Decal - Crushing hazard
50	/	/	/	/	101049103022	Decal - Tipping hazard
51	/	/	/	/	101053103005	Decal - Electrocution hazard
52	/	215050000012	215050000012	215050000012	/	Rivet 4X8 GB/T12618

No.	GB	CE-Metric	CE-Imperial	CE-PL	CE-S	Description
53	/	101072103020	101072103020	101072103020	/	Nameplate
54	/	/	/	/	215050000012	Rivet 4X8 GB/T12618
55	/	/	/	/	101055103002	Nameplate

No.	ANSI	CSA	AS	KCS	Description
	101054103008	101054103011	101054000005	101054103003	General diagram of decals positions
1	101048103025	101048103025	101048103025	101048103025	Decal - SINOBOOM
2	101054103012	101054103012	101054103014	101054103014	Decal - Trade ID 0808E
3	216060000004	216060000004	216060000004	216060000004	Yellow & black hazard warning stripe tape (50mm wide)
4	101012100029	101012100029	101012100029	101012100029	Decal - Crushing hazard
5	101012100018	101012100018	101012100018	101012100018	Decal - Crushing hazard
6	/	/	/	/	Decal - Service number + enquiry QR code
7	101014100007	101014100007	101014100007	101014100007	Decal - Platform charging plug
8	101014100020	101014100020	101014100020	101014100020	Decal - Lifting point
9	101014100021	101014100021	101014100021	101014100021	Decal - Lashing point
10	101053103020	101053103020	101053103017	101053103017	Decal - Tire ground load of 900kg
11	101014100013	101014100013	101014100013	101014100013	Decal - Crushing hazard
12	/	/	/	101012100005	Decal - Electrocutation hazard
13	101012100026	101012100026	101012100026	101012100026	Decal - Forklift pockets
14	101048103026	101048103026	101048103026	101048103026	Decal - Large logo in white
15	101014100015	101014100015	101014100015	101014100015	Decal - High pressure hazard
16	101014100014	101014100014	101014100014	101014100014	Decal - No smoking or open flames
17	101014100017	101014100017	101014100017	101014100017	Decal - Refer to the manuals
18	101014100018	101014100018	101014100018	101014100018	Decal - Lifting point
19	/	/	/	/	Decal - Tipping hazard
20	/	/	/	/	Decal - Warranty label
21	101016100030	101016100030	101016100030	101016100030	Decal - Anchorage point
22	101014100026	101014100026	101014100026	101014100026	Decal - Safety arm
23	101014100022	101014100022	101014100022	101014100022	Decal - Hydraulic oil filler
24	101014100016	101014100016	101014100016	101014100016	Decal - Electrocutation hazard
25	/	/	/	/	Decal - Tipping hazard

No.	ANSI	CSA	AS	KCS	Description
26	101016100031	101016100031	101016100031	101016100031	Decal - Power switch
27	101014100008	101014100008	101014100008	101014100008	Decal - Charging voltage
28	101040103008	101040103008	101040103008	101040103008	Decal - Release brake
29	101040100005	101040100005	101040100005	101040100005	Decal - Refer to the manuals
30	101040100009	101040100009	101040100009	101040100009	Decal - Tipping hazard
31	101054103018	101054103018	101054103019	101054000008	Decal - 0808E requirements of use
32	101012100019	101012100019	101012100019	101012100019	Decal - Tipping hazard
33	101054103017	101054103017	101054103023	101054000007	Decal - 0808E requirements of use
34	101058103001	101058103001	101058103001	101058103001	LOGO IPAF
35	215050000012	215050000012	215050000012	215050000012	Rivet 4X8 GB/T12618
36	101045103040	101016103010	101012100038	101015100026	Nameplate
37	101014100032	101014100032	101014100032	101014100032	Decal - Machine serial number
38	101014100025	101014100025	101014100025	101014100025	Decal - Emergency lowering
39	101055103015	101055103015	101055103015	101055103015	Decal - Emergency stop button
40	101062103022	101062103022	101062103022	/	Decal - Check working environment
41	101012100008	101012100008	101012100008	101012100008	Decal - Tipping hazard
42	/	/	/	/	Q-LINE_LOGO (small)
43	103010103014	103010103014	/	/	Decal - Non-insulated
44	101038103017	101038103017	101041103020	101041103020	Decal - Tipping hazard
45	101040103013	101040103013	101055103019	/	Decal - Electrocution hazard
46	101040103014	101040103014	101040103014	/	Decal - Detachable joystick bracket
47	101040103015	101040103015	/	/	Decal - Annual inspection date
48	/	101048103023	/	/	Decal - Operation instructions
49	/	104011100021	/	/	Decal - Crushing hazard
50	/	/	/	/	Decal - Tipping hazard
51	/	/	/	/	Decal - Electrocution hazard
52	/	/	/	/	Rivet 4X8 GB/T12618

No.	ANSI	CSA	AS	KCS	Description
53	/	/	/	/	Nameplate
54	/	/	/	/	Rivet 4X8 GB/T12618
55	/	/	/	/	Nameplate

10 MAINTENANCE

This chapter provides the operator with additional information needed to properly operate and maintain the machine, and is only intended to assist the operator in performing routine maintenance tasks. For more comprehensive maintenance instructions, please refer to the **Inspection and Preventive Maintenance Schedule** and the Maintenance Manual.

Hydraulic oil

Factory-filled hydraulic oil is usually L-HV32 or L-HM46 or as specified by customers. Different regions have different temperature environments, so please select the hydraulic oil suitable for your region according to the recommendations in the table below.

10.1 OIL SPECIFICATION DESCRIPTION

Note

- Please choose suitable oil according to the ambient temperature and local regulations; the use of unsuitable oil will damage the machine components.
- Oils of different grades or viscosities should not be mixed. When refilling oil, the oil being added must be of the same grade and viscosity as that of the oil currently in use in the machine.
- For special environments or special operating requirements please contact Sinoboom.



WARNING

- Before refilling oil, wait until the temperature of the machine drops to room temperature, otherwise it may cause splashes, burns or other personal injury.
- The use of inferior oils is strictly prohibited. Using inferior oil may damage the machine, and faults caused by this are not covered by Sinoboom's warranty.

Table 10-1

Ambient temperature range	Amer	Mobil	Shell	Castrol
> 40°C (104°F)	L-HM46	DTE 10 Excel 46	S2M46	Hyspin AWH-M46
-25°C ~ 40°C (-13°F ~ 104°F)	L-HV32	DTE 10 Excel 32	TELLUS-S3VE32	Hyspin HVI-32
<-30°C (-22°F)	Special oil required, to be determined			

10.2 TIRE ASSEMBLY

Check Tires and Rims

Maintaining the tires and rims is essential for the normal and safe operation of the machine. The machine may tip over if any tire or rim malfunctions, so check the tires and rims each time before operating the machine and repair any faulty tires and rims timely.

This machine is equipped with solid tires without requiring inflation.

- Check each tire for cuts, cracks, punctures and abnormal wear. Replace the tire if necessary.
- Check each rim for damage, bending, deformation and cracked weld. Replace the rim if necessary.

Checking Wheel Nuts

The tire fasteners should be tightened before the machine is put into service for the first time and after each tire is removed. Check and tighten the wheel nuts to the specified torque every 3 months or 250 operating hours.

Replacement Requirements

WARNING

- **The tires and rims on the machine have been designed and selected according to the overall performance and load stability requirements of the machine. Therefore, the model specifications, rim width, installation center surface, diameter, etc. must not be changed, otherwise this could lead to an unstable and hazardous condition.**
- **Wheel-specific nuts must be used that match the wheel bolts. The wheel nuts must be installed and maintained with the proper tightening torque to prevent loose rims, broken bolts and wheels loosening from the axle. Be sure to only use nuts that match the mounting angle of the rim holes.**

Hunan Sinoboom Intelligent Equipment Co., Ltd. recommends the replacement tire be of the same size, ply rating and brand as the original tire. For the tire part numbers of specific machine models, please refer to the Parts Manual of the corresponding machine. If you choose not to use the replacement tires recommended by Hunan Sinoboom Intelligent Equipment Co., Ltd., the following specifications should be adhered to:

- The ply rating/rated load capacity and size should be the same as the original tire or superior to it.
- The tire tread contact width should be the same as or superior to the original tire.

- The wheel diameter, width and offset dimensions must be the same as the original tires.
- Approved for the application by the tire manufacturer (including intended purposes, applicable working conditions, maximum drive speed and maximum tire load).
- Due to the size difference between different tire brands, both tires on the same axle should be of the same brand.

Note

Unless specifically approved by Sinoboom, do not replace solid tires with foam-filled tires.

Replacing Tires

WARNING

Tighten the wheel nuts to the specified torque to prevent the wheel from loosening. Use a torque wrench to tighten the nuts. If no torque wrench is available use a socket wrench to tighten the nuts and then immediately have a service station or dealer tighten the nuts to the specified torque. Over-tightening will cause the nuts to break or permanently deform the bolt holes in the rims.

The correct steps to replace a tire are as follows:

1. Make sure the machine is in stowed position.
2. Press the main power switch/pull out the main power handle and disconnect all power sources (such as battery charger) connected to the machine.
3. Use a jack with sufficient load capacity to lift the machine to the appropriate height so that the wheel assembly is off the ground.
4. Reliably support the tire assembly with suitable lifting equipment.
5. Remove the fasteners alternately, and then remove the tire.
6. Align the mounting holes of the new wheel with the corresponding mounting hole on the hub, fit the flat surface of the gasket to the mounting surface (if gaskets are used), after applying Loctite 272 threadlocking adhesive to the bolts, install the bolts sequentially, and tighten the bolts diagonally to the torque as specified in **Torque Specifications**.
7. Remove the jack as needed after installation.

10.3 INSPECTION AND PREVENTATIVE MAINTENANCE SCHEDULE

This section provides safety and other vital information for machine operators. To extend the service life of the machine and ensure safe operation, all necessary inspections and maintenance work must be completed before the machine is put into service.

It is crucial to develop and adhere to a comprehensive inspection and preventive maintenance program. This manual outlines the regular inspections and maintenance procedures recommended by Hunan Sinoboom Intelligent Co., Ltd. Consult your national, regional or local regulations for aerial work platforms. The frequency of the inspection and maintenance must be increased as required by environmental conditions, requirements and frequency of usage.

Pre-delivery Inspection (PDI)

The pre-delivery inspection should be performed by qualified Hunan Sinoboom Intelligent Equipment Co., Ltd. technicians.

A pre-delivery inspection should be performed before each sale, lease or rental delivery.

Refer to the **Inspection and Preventive Maintenance Schedule** for items requiring preventive maintenance. Refer to the corresponding section of this manual to perform inspection and maintenance procedures.

Pre-operation Inspection

A pre-operation test must be performed before each start or restart of work, change of operator, and after each maintenance operation. Refer to the pre-operation test section of the Operation Manual for detailed information. The Operation Manual must be read and understood in its entirety before performing a pre-operation inspection.

Regular Inspections

Regular inspections should be performed by qualified Hunan Sinoboom Intelligent Equipment Co., Ltd. technicians.

Regular inspections must be performed after the machine has been in service for 3 months or 250 hours, whichever comes first, or if it has been out of service for more than 3 months. The frequency of the inspection and maintenance must be increased as required by environmental conditions, requirements and frequency of usage.

The items included in the regular inspections are identical to the pre-delivery inspection.

Annual Inspection

An annual machine inspection must be performed once a year and no later than 13 months from the date of the previous annual inspection. Hunan Sinoboom Intelligent Equipment Co., Ltd. recommends this task be performed by a factory-trained service technician, a person recognized by Sinoboom as one who, by qualification, certificate and training, has successfully demonstrated the ability and proficiency to service, repair and maintain the Sinoboom model in question.

Refer to the **Inspection and Preventive Maintenance Schedule** for items requiring annual inspection, and refer to the corresponding section of this manual to perform inspection and maintenance procedures.

Preventive Maintenance

Preventive maintenance procedures shall be performed by qualified Hunan Sinoboom Intelligent Equipment Co., Ltd. technicians. The frequency of the inspection and maintenance must be increased as required by environmental conditions, requirements and frequency of usage.

Refer to the **Inspection and Preventive Maintenance Schedule** for items requiring preventive maintenance. Refer to the corresponding section of this manual to perform inspection and maintenance procedures.

Responsible Persons and Qualifications for Performing Inspection and Maintenance

Table 10-2

Inspection Type	Inspection Frequency	Primary Responsible Persons	Service Qualifications
Pre-operation Inspection	Before starting/restarting work, change of user, after each maintenance activity.	User or operator	Properly trained user or operator
Pre-delivery Inspection (PDI)	Before each sale, lease or rental delivery	Owner, dealer or user	Qualified Sinoboom technician
Regular Inspections	In service for 3 months or 250 hours (whichever comes first) or out of service for more than 3 months	Owner, dealer or user	Qualified Sinoboom technician
Annual Machine Inspection	Once a year and no later than 13 months from the date of the previous annual inspection	Owner, dealer or user	Factory-trained service technician
Preventive Maintenance	At intervals specified in the Inspection and Preventive Maintenance Schedule	Owner, dealer or user	Qualified Sinoboom technician

Inspection and Preventive Maintenance Schedule

Perform inspection and preventive maintenance for the items in the table below at prescribed intervals. The intervals of inspection and maintenance are calculated based on the months elapsed since the machine has been put into service or the “cumulative working time” on the ground controls display (whichever comes first).

The inspection cycle is based on the use of machine under normal working conditions, and the cycle should be shortened accordingly if the machine is used in harsh working conditions.

Table 10-3 Inspection and Preventive Maintenance Schedule

Item	Time Interval		
	Before each delivery ¹ or quarterly ²	Semiannually ³	Annually ⁴
Platform assembly			
Platform	1	1	1
Guardrails and floor	2	2	2
Access gate	1, 2, 3	1, 2, 3	1, 2, 3
Pedal for extending platform	1, 2, 3	1, 2, 3	1, 2, 3
Platform slider (at the connection with scissor arm) and its fastener	1, 2	1, 2	1, 2
Safety belt anchorage point	1, 2, 7	1, 2, 7	1, 2, 7
Scissor arm assembly			

Table 10-3 Inspection and Preventive Maintenance Schedule (Continued)

Item	Time Interval		
	Before each delivery ¹ or quarterly ²	Semiannually ³	Annually ⁴
Scissor arm	1, 2	1, 2	1, 2
Safety arm	1, 2, 3	1, 2, 3	1, 2, 3
Bearings	1, 2, 5, 12	1, 2, 5, 12	1, 2, 5, 8, 12
Pivot pin, retaining ring and fastener	1, 2	1, 2	1, 2
Chassis assembly			
Chassis	2	2	2
Chassis slider (at the connection with scissor arm)	1, 2, 5	1, 2, 5	1, 2, 5, 8
Tire	1, 2	1, 2	1, 2
Tire fastener	150	150	150
Traveling and steering component	1, 2, 5	1, 2, 5	1, 2, 5
Bearings	1, 2, 5, 12	1, 2, 5, 12	1, 2, 5, 12
Chassis boxes at both sides	1, 2, 3	1, 2, 3	1, 2, 3
Ladder	1, 2, 5	1, 2, 5	1, 2, 5
Drive or drive motor	1, 5, 6	1, 5, 6	1, 5, 6
Brake and braking release device	1, 5, 6	1, 5, 6	1, 5, 6
Lift motor	1, 2, 3, 6	1, 2, 3, 6, 13	1, 2, 3, 6, 13
Gear pump	1, 2, 3, 6	1, 2, 3, 6	1, 2, 3, 6
Hydraulic system			
Hydraulic pump	1, 2, 3, 6	1, 2, 3, 6	1, 2, 3, 6
Hydraulic cylinder	1, 2, 3, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6
Hydraulic valve	1, 2, 3, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6
Hydraulic hoses, pipes and fitting	1, 2, 6	1, 2, 6	1, 2, 6
Hydraulic tank and breather	1, 2, 3, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6
Hydraulic tank air filter	1, 5, 6	1, 5, 6, 11	1, 5, 6, 11
Hydraulic oil return filter	1, 5, 6	1, 5, 6	1, 5, 6, 11 ⁵⁰
Hydraulic oil	5, 6	5, 6	5, 6, 11
Electrical system			
Electrical wiring, connector	1, 2	1, 2	1, 2
Battery	1, 2, 6, 9, 12	1, 2, 6, 9, 12	1, 2, 6, 9, 12
Electrolyte	6	6	6
Charging function	3	3	3
Instruments, gauges, switches, lamps, horn	1, 3	1, 3	1, 3

Table 10-3 Inspection and Preventive Maintenance Schedule (Continued)

Item	Time Interval		
	Before each delivery ¹ or quarterly ²	Semiannually ³	Annually ⁴
Functions and controls			
Platform controller	1, 3, 4, 7, 10	1, 3, 4, 7, 10	1, 3, 4, 7, 10
Ground controller	1, 3, 4, 7, 10	1, 3, 4, 7, 10	1, 3, 4, 7, 10
Function control lock, guarding device and brake device	1, 3, 10	1, 3, 10	1, 3, 10
Emergency stop button (ground and platform)	1, 3, 10	1, 3, 10	1, 3, 10
Limit switches and power switches	1, 3, 10	1, 3, 10	1, 3, 10
Overload limit function	1, 3, 10	1, 3, 10	1, 3, 10
Tilt alarm device	1, 3, 10	1, 3, 10	1, 3, 10
Pothole protective device	1, 3, 10	1, 3, 10	1, 3, 10
Emergency lowering device	1, 3, 10	1, 3, 10	1, 3, 10
Drive function	1, 3, 10	1, 3, 10	1, 3, 10
Braking function	1, 3, 10	1, 3, 10	1, 3, 10
Other inspection items			
Operation Manual in the manuals compartment	10	10	10
All decals/labels complete, clear and secure	10	10	10
Annual inspection date of the machine	/	/	10
No unapproved changes or additions	10	10	10
All safety publications taken into account	10	10	10
General structural components and weldments	2	2	2
All fasteners, pins, protective guards and covers	1, 2	1, 2	1, 2
Greasing and lubricating according to specifications	10	10	10
Functional test of all systems	10	10	10
Paint and appearance	5	5	5
Inspection date marked on the chassis	/	/	10
Notify Sinoboom of machine ownership (change)	/	/	10

Table 10-3 Inspection and Preventive Maintenance Schedule (Continued)

Item	Time Interval		
	Before each delivery ¹ or quarterly ²	Semiannually ³	Annually ⁴
Note: ¹ Before each sale, lease or shipment delivery; ² In service for 3 months or 250 hours; or out of service for more than 3 months; ³ In service for 6 months or 500 hours; ⁴ Once a year and no later than 13 months from the date of the previous annual inspection; ⁵⁰ A first inspection is performed once the machine reaches 50 hours in service for the first time. This occurs only once in the service life of the machine. ²⁵⁰ A first inspection is performed once the machine reaches 250 hours in service for the first time. This occurs only once in the service life of the machine. NO.1 Before the machine is put into service for the first time			
Performance code: 1. Check for correct installation (accurately positioned, firm, tightened to the specified torque) 2. Visual inspection for damage (cracks, cracked welds, deformation, wear, corrosion, excessive wear, gouges, abrasions and exposed threads) 3. Check for normal function 4. Check for normal return to neutral or "off" position (self-resetting switches return to neutral or "off" position after released) 5. Clean and free of foreign objects 6. Check for sealing, leaks and the correct level 7. Labels complete, clear and secure 8. Check for appropriate dimensions/tolerances 9. Fully charged 10. Verify/implement 11. Replace the oil or filter element 12. Correctly lubricated 13. Inspect the carbon brush			

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11 OPTIONS

11.1 SPILL GUARD

Parts List

A small amount of hydraulic oil may drip from the hydraulic components in the chassis, which can be collected with the spill guard.

WARNING

Unsafe Operation Hazard



- The spill guard may only be installed on models/in markets as specified by Sinoboom.
- Before using the spill guard, the safety rules and all operating instructions should be read, understood and observed. This manual should be considered part of the spill guard and should always be kept with it.

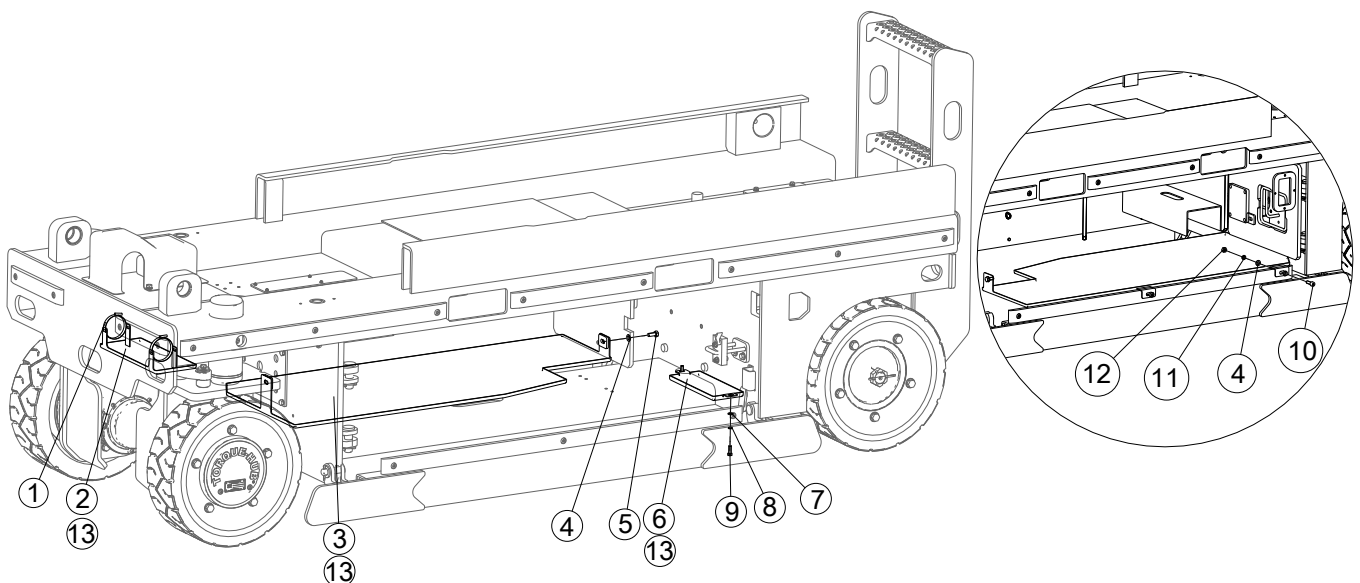


Fig 1

Table 11-1

No.	Part number	Part name	Quantity	Comment
1	216020000007	Non-perforated hose clamp, DIN-type	2	
2	101056033008	Spill guard, cylinder	1	

Table 11-1 (Continued)

No.	Part number	Part name	Quantity	Comment
3	101054033053	Spill guard, motor box	1	
4	215040000034	Washer 8-200HV-ZnD GB/T 97.1	2	
5	215010000057	Bolt M8×20-8.8-ZnD GB/T 5783	1	
6	101054033054	Spill guard, counterweight	1	
7	215040000033	Washer 6-A2 GB/T 97.1	2	
8	215040000004	Spring washer	2	
9	215010000051	Bolt M6×20-A2-70 GB/T 5783	2	
10	215020000024	Screw M8×25-8.8-ZnD GB/T 70.1	2	
11	215040000005	Washer 8-ZnD GB/T 93	2	
12	215030000005	Nut M8-8-ZnD GB/T 6170	2	
13	\	Oil absorbent paper	\	

Installation and Removal

WARNING

Unsafe Operation Hazard



The spill guard may only be installed on models/in markets as specified by Sinoboom.

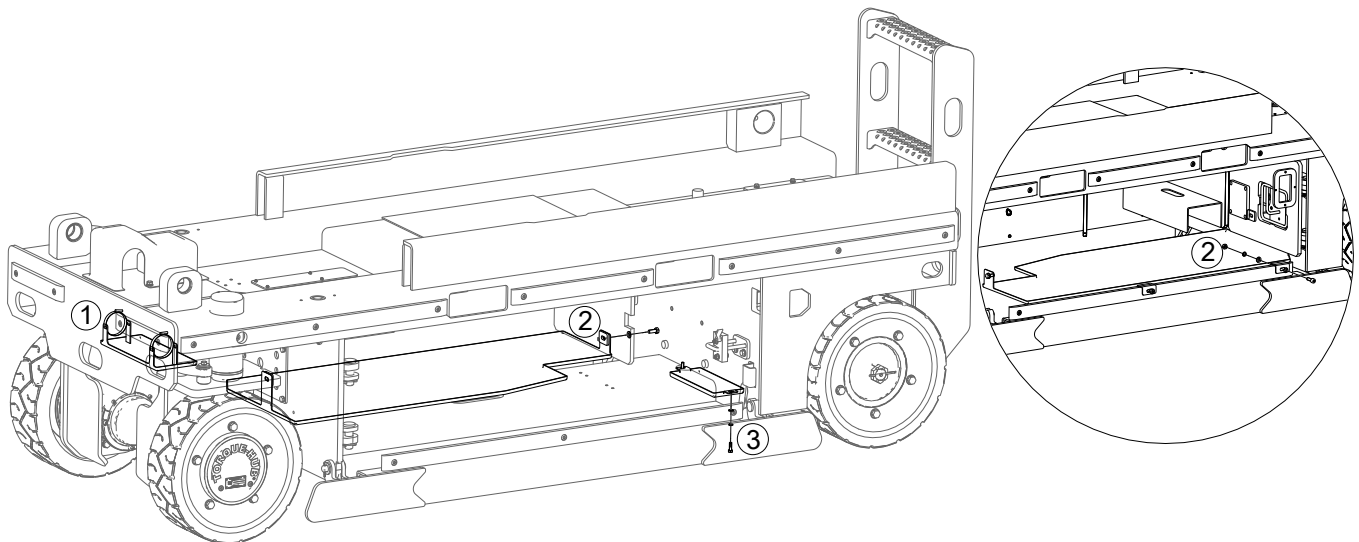


Fig 2

1. Spill guard for front wheel steering cylinder

2. Motor box oil pan

Fit the non-perforated DIN-type hose clamp through the hole in the spill guard to clamp the front wheel steering cylinder. After installation, spread a piece of clean oil absorbent paper in the spill guard.

Align the holes in the folded plate of the spill guard with the holes in the anti-collision plate, and use hex nuts, washers and screws to secure them together. Use washers and hex bolts to secure the spill guard for motor box and the chassis mounting plate. After installation, spread a piece of clean oil absorbent paper in the spill guard.

3. Counterweight oil pan

Use washers and hex bolts to secure the spill guard for counterweight on the chassis. After installation, spread a piece of clean oil absorbent paper in the spill guard.

Removal instructions

Disassemble the spill guard in the reverse order of the installation instructions.

Frequent Inspection

NOTICE

Check the spill guard before each use of the machine.

1. Locate the spill guard.
2. Check if there is too much oil in the spill guard.
3. If so, remove the oil absorbent paper that has been soaked with oil in the spill guard.
4. Spread a piece of new oil absorbent paper in the spill guard.

Regular Maintenance

The spill guard needs to be cleaned every year, or more frequently if it is often used in harsh environments.

1. Locate the spill guard.
2. Check if there is a visible layer of debris or turbid

sediment at the bottom of the spill guard.

3. If so, remove the spill guard.
4. Wash the spill guard with cleaning solution and plenty of clean water, and then wipe off excess water.
5. Reinstall the spill guard.

11.2 FOOT SWITCH

The foot switch can be used as another enable switch of the control circuit, and to serve as an enable switch, the foot switch must be depressed and then the joystick enable switch must be pressed to operate the machine function when using the platform controller. When the foot switch is released, the platform controls will be disconnected from power source.



WARNING

Unsafe Operation Hazard



- The foot switch may only be installed on models/in markets as specified by Sinoboom.
- Before using the foot switch, the safety rules and all operating instructions should be read, understood and observed. This manual should be considered part of the foot switch and should always be kept with it.

Parts List

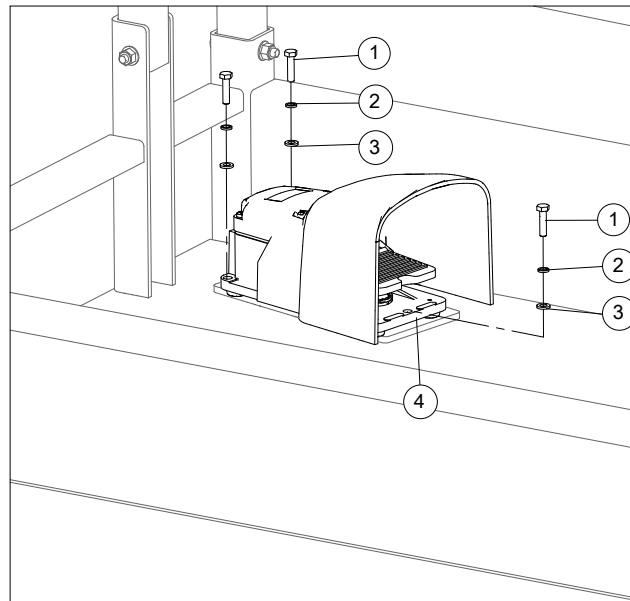


Fig 3

Table 11-2

No.	Part number	Part name	Quantity	Comment
1	215010000052	Bolt M6×25-A2-70 GB/T 5783	3	
2	215040000004	Washer 6-A2-70 GB/T 93	3	
3	215040000033	Washer 6-A2 GB/T 97.1	3	
4	203060003001	Foot switch	1	
5	101053063010	Foot switch harness	1	Not indicated in the figure

Installation and Removal

WARNING

Unsafe Operation Hazard



The foot switch may only be installed on models/in markets as specified by Sinoboom.

Installation instructions

1. Position the foot switch at its mounting position on the platform floor, align the foot switch with the platform floor mounting hole, and fasten it with washers and bolts.
2. Connect the foot switch harness.

Removal instructions

Disassemble the foot switch in the reverse order of the installation instructions.

Instructions for Use

1. Depress the foot switch and activate any action switch/handle at the same time – the corresponding action shall operate normally.
2. Activate any action switch/handle without depressing the foot switch – the corresponding action will not operate.

11.3 LIFTING GUARDING DEVICE

Parts List

Lifting guarding device provides safety protection by restricting the lifting height of machine. When an obstacle is encountered during platform lifting, the lifting guarding device can stop the platform from continuing to lift, thus protecting the operator.

WARNING

Unsafe Operation Hazard



- The lifting guarding device may only be installed on models/in markets as specified by Sinoboom.
- Before using the lifting guarding device, the safety rules and all operating instructions should be read, understood and observed. This manual should always be kept as an integral part with the lifting guarding device and should always be kept with it.

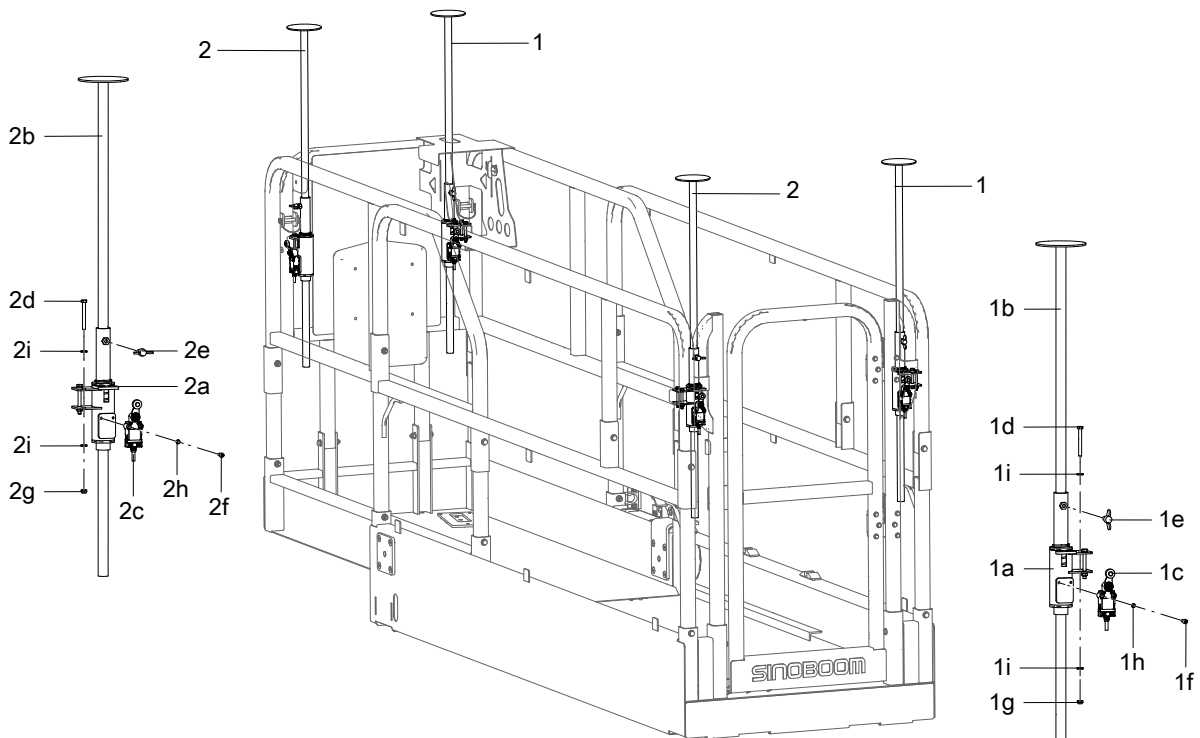


Fig 4

Table 11-3

No.	Part number	Part name	Quantity	Comment
1	101038040060	Right guarding device	2	
1a	101038040059	Right guide joint	1	
1b	101038040071	Limit bar	1	
1c	203060000151	Travel switch	1	
1d	215010000205	Bolt M6×55-A2-70 GB/T5783	2	
1e	215010000228	Wing screw M8x20-8.8-ZnD DIN 316	1	
1f	215020000007	Screw M5×16-A2-70 GB/T 70.1	2	
1g	215030000025	Nut M6-8-A2-70 GB/T 6184	2	
1h	215040000003	Washer 5-A2-70 GB/T 93	2	
1i	215040000033	Washer 6-A2 GB/T 97.1	4	
2	101038040070	Left guarding device	2	
2a	101038040072	Left guide joint	1	
2b	101038040071	Limit bar	1	
2c	203060000151	Travel switch	1	
2d	215010000205	Bolt M6×55-A2-70 GB/T5783	2	
2e	215010000228	Wing screw M8x20-8.8-ZnD DIN 316	1	
2f	215020000007	Screw M5×16-A2-70 GB/T 70.1	2	
2g	215030000025	Nut M6-8-A2-70 GB/T 6184	2	
2h	215040000003	Washer 5-A2-70 GB/T 93	2	
2i	215040000033	Washer 6-A2 GB/T 97.1	4	
3	101014063053	Height limit harness	1	Not indicated in the figure

Installation and Removal

Installation instructions

1. Insert the limit bar into the guide sleeve and secure it with the wing bolt.
2. Align the hole in the travel switch with that in the guide joint and secure them with screw and washer.
3. Place the platform guardrail between the upper and lower mounting plates of the guarding device and align it with the hole in the mounting plate, and then tighten it with bolt, washer and nut. Install the left and right guarding devices in this way.
4. Connect the height limit harness.

Removal instructions

Disassemble the guarding devices in the reverse order of the installation instructions.

Instructions for Use

- The machine will operate normally if the limit bar does not bump into an obstacle.
- When the limit bar encounter an obstacle, the limit bar will shift downward, and the travel switch will be triggered to limit the lifting of the machine.

11.4 TRAVEL LIMIT DEVICE

Parts List

The travel limit device provides safety protection by disabling the travel function while the machine is in the lifting position.

 **WARNING**

Unsafe Operation Hazard



- The travel limit device may only be installed on models/in markets as specified by Sinoboom.



- Before using the travel limit device, the safety rules and all operating instructions should be read, understood and observed. This manual should be considered part of the travel limit device and should always be kept with it.

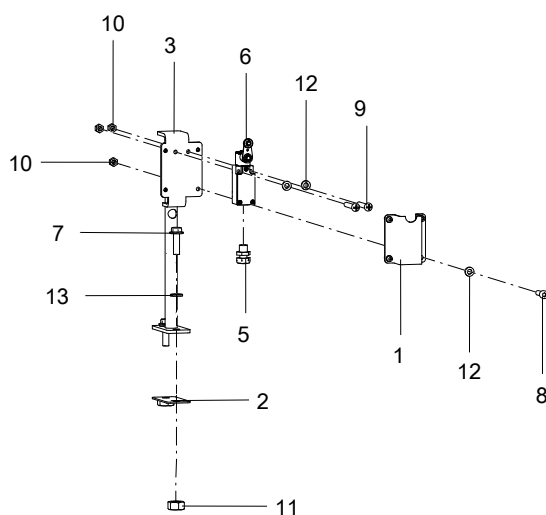


Fig 5

Table 11-4

No.	Part number	Part name	Quantity	Comment
1	101014033011	Grooved plate	1	
2	101014033014	Spacer	1	
3	101038063043	Travel limit support options		
3-1	101041033010	Support	1	GTJZ0608/0612
3-2	101038033007	Support	1	GTJZ0608S/M
3-3	101014033012	Support	1	GTJZ0808/0812
3-4	101045033008	Support	1	GTJZ1012

Table 11-4 (Continued)

No.	Part number	Part name	Quantity	Comment
3-5	101016033002	Support	1	GTJZ1212
3-6	101046033022	Support	1	GTJZ1414
4	101038063044	Travel limit harness options		Not indicated in the figure
4-1	101038063002	Travel limit harness	1	GTJZ0608S/M
4-2	101042063002	Travel limit harness	1	GTJZ0608/0808
4-3	101039063006	Travel limit harness	1	GTJZ0612/0812/1012/1212/1414
5	201990003005	Waterproof nylon connection	1	
6	203060000108	Travel switch	1	
7	215010000248	Bolt M10x35-8.8 ZnD GB/T 5789	2	
8	215020000008	Screw M5×20-A2-70 GB/T 70.1	4	
9	215020000214	Screw M5×35-A2-70 GB/T 818	2	
10	215030000003	Nut M5-A2-70 GB/T 6170	6	
11	215030000006	Nut M10-8-ZnD GB/T 6170	2	
12	215040000032	Washer 5-A2 GB/T 97.1	6	
13	215040000035	Washer 10-200HV-ZnD GB/T 97.1	2	

Installation and Removal

Installation instructions

1. Align the hole in the travel switch with that in the support and fasten them with screw, washer and bolt.
2. Align the hole in the grooved plate with that in the support and fasten them with screw, washer and bolt.
3. Fit the washer and bolt on the bottom mounting plate of the support, and align them with the holes in the washer and support bottom sequentially, and tighten them with bolts.
4. Connect the travel limit harness.

Removal instructions

Disassemble the travel limit device in the reverse order of the installation instructions.

Instructions for Use

- When the machine is in retracted position, the lower edge of the platform is in contact with the travel switch, the travel switch is closed, and the machine can travel normally.
- When the machine is in operating position (lifting position), the lower edge of the platform is in contact

with the travel switch, and the travel switch is disconnected, limiting the travel function.

11.5 MANUAL BRAKE RELEASE SWITCH

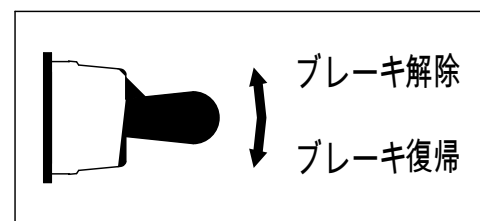


Fig 6

1. Place the machine on firm, level ground and secure the wheels with chocks to prevent the machine from moving.
2. Make sure that the machine is stowed and has no loose or unfixed parts, and there are no people or tools in the platform and no obstacles in the surrounding passage.
3. Move the manual release switch up to release brake.

4. The machine may then be towed or dragged by an external force.
5. After towing, place the machine on firm, level ground and secure the wheels with chocks to prevent the machine from moving.
6. Move the manual release switch down, and then the brake can work normally.

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