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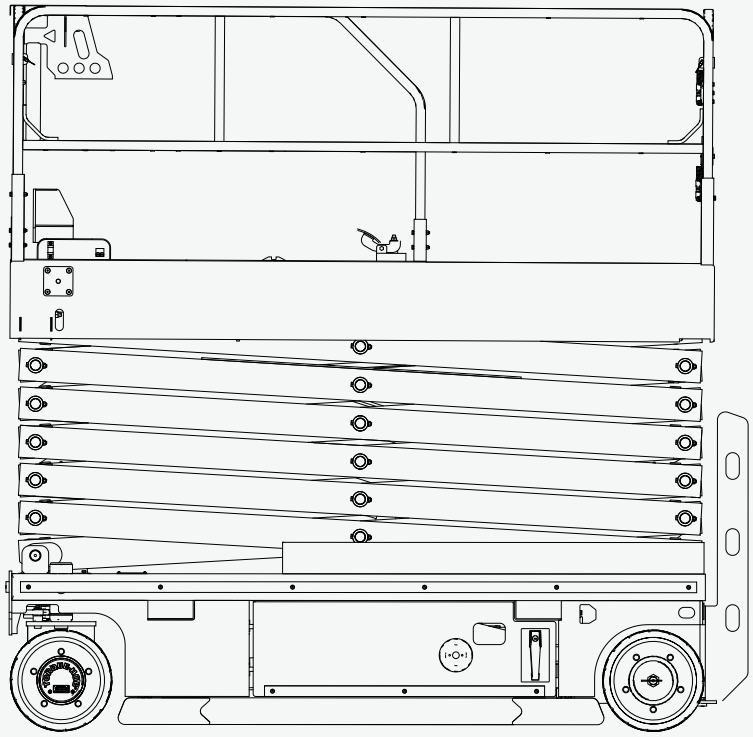
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Jun 2020

Operation Manual

GTJZ1412E/1412E/4647E

GTJZ1414E/1414E/4655E

GTJZ1412E Plus/1412E Plus/4647E Plus



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⚠ 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, 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.

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APPLICATION

Use the following table to identify the specific serial number for models included in this manual. Check the model of your machine before consulting the manual, and then use the correct manual according to the serial number of the model. See the nameplate on your machine to identify the model and serial number.(See ***10 Decals/Nameplates Inspection, page 10-1*** of the *Operation Manual* for details.)

MODELS	Trade identification		SERIAL NO.
	Metric	Imperial	
GTJZ1412E	GTJZ1412E	4647E	From 0104700108 to Present
GTJZ1414E	GTJZ1414E	4655E	From 0105000108 to Present
1412E Plus	1412E Plus	4647E Plus	From 0106003001 to Present

NOTE:

- Product model is applied in product nameplate for distinction of products of different main parameters.
- Product trade identification is applied in marketing and machine decals for distinction of products of different main parameters, and can be classified as metric type and imperial type: The metric type of trade identification is applicable to machines for countries/regions using metric system or as specially required by customers; The imperial type of trade identification is applicable to the machines for countries/regions using imperial system or as specially required by customers.

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STATEMENTS

Hunan Sinoboom Intelligent Equipment Co., Ltd. (Hereinafter referred to as Sinoboom) will upload the latest product manual information to the website www.sinoboom.com as soon as possible. However, due to continuous product improvement, the information in this manual is subject to change without prior notice.

This manual covers the basic parts information of one or more products. Therefore, please use this manual according to your needs. If you find problems in the manual or have suggestions for improvement, feel free to share your feedback with Sinoboom, and we will address these issues as soon as possible.

Feel free to consult and download the *Operation Manual*, *Maintenance Manual* and *Parts Manual* of the products you need online at www.sinoboom.com.

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INTRODUCTION

Thank you for choosing and using the machinery of Hunan Sinoboom Intelligent Equipment Co., Ltd. Always read, understand and become familiar with the operation requirements of the machine and its associated safety procedures before operating, maintaining and repairing the machine. Operating the machine without becoming familiar with its specific operation requirements and safety procedures poses serious risks. Operators who follow safety rules and operate the machine carefully and effectively will prevent personal injury, property loss and accidents.

Use this machine only to transport tools to work locations and for performing tasks on the work platform. Operators must be competent and must obtain training to carefully use the machine and follow safety procedures. Only trained and authorized personnel may operate the machine.

This manual guides the operator in operating and using the machine. The operator is responsible for reading, understanding and implementing the operation and safety procedures in this manual and for following the manufacturer's instructions before beginning any work. Read, understand and follow all safety rules and operating instructions. The operator must also consider the machine's uses and limitations and the conditions at the jobsite before using this machine. Strictly following all safety requirements in this manual is critical.

Consider this manual a part of the machine, along with *Maintenance Manual* and *Parts Manual*, and always keep the manuals with the machine. The owner or administrator of the machine shall offer all manuals and other necessary information provided by the machine manufacturer regarding the daily inspection and maintenance to each of the renters. If the machine is sold, the owner or administrator must pass along the manuals and other necessary information to the purchaser. The owner or administrator of the machine shall also provide the manufacturer's maintenance information to the person responsible for maintaining the machine.

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

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1 PERFORMANCE PARAMETERS

Table 1-1 GTJZ1412E Specifications

MEASURE	GTJZ1412E (METRIC)	4647E (IMPERIAL)
DIMENSION PARAMETERS		
Max. platform height	13.8m	45ft 3in.
Max. working height	15.8m	51ft 10in.
Max. horizontal extension	0.9m	3ft
Length	2.78m	9ft
Width	1.27m	4ft 2in.
Height (stowed, rails folded)	1.96m	6ft 5in.
Height (stowed, rails up)	2.6m	8ft 6in.
Wheel base	2.22m	7ft 3in.
Wheel span	1.1m	3.6ft
Ground clearance (pothole guards retracted)	0.1m	4in.
Ground clearance (pothole guards deployed)	25mm	0.98in.
Tire size (diameter × width / type)	Φ380×125mm/Solid	Φ15×5 in/Solid
Platform dimension (Length × Width × height)	2.64×1.15×1.1m	8ft 8in.×3ft 9in.×3ft 7in.
PERFORMANCE PARAMETERS		
Rated load capacity of platform	227kg	500 lb
Max. load capability of extended platform	120kg	265 lb
Max. platform occupancy(indoor only)	2 person	
Drive speed (stowed)	0 ~ 4 km/h	0 ~ 2.5 mph
Drive speed (raised)	0 ~ 0.8 km/h	0 ~ 0.5 mph
Uptime (in a no-load state)	75 ~ 85 s	
Downtime (in a no-load state)	55 ~ 63 s	
Gradeability	25%	
Max. allowable inclination	3°(Front to back)/1.5°(Left to right)	
Turning radius (inside)	0m	0ft
Turning radius (outside)	2.64m	8ft 8in.
Rated load capacity of a single tire	1200kg	2646 lb

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Table 1-1 GTJZ1412E Specifications (continued)

MEASURE	GTJZ1412E (METRIC)	4647E (IMPERIAL)
Max. allowable manual force (indoor only)	400N	90 lbf
Max. noise	72dB	
POWER PARAMETERS		
Hydraulic tank capacity	15L	3.3 gal(imperial)/4 gal(US)
Hydraulic system capacity (including tank)	41L	9 gal(imperial)/10.8 gal(US)
Hydraulic system pressure	21MPa	3046 Psi
Battery specification (quantity × voltage, capacity)	4×12V,300Ah	
System voltage	24VDC	
Control voltage	24VDC	
ENVIRONMENTAL REQUIREMENT		
Max. allowable wind speed (indoor only)	0m/s	0mph
Max. allowable altitude	1000m	3280.8ft
Allowable ambient temperature (lead-acid batteries)	-10℃ to 40℃	14℉ to 104℉
Allowable ambient temperature (lithium batteries)	-20℃ to 40℃	-4℉ to 104℉
Max. allowable ambient relative humidity	90%	
Storage condition	Stored at -20℃ to 50℃(-4℉ to 122℉) in a well-ventilated environment with 90% relative humidity (20℃ [68℉]), and away from rain, sun, corrosive gas and inflammable explosive.	
WEIGHT		
Weight (in a no-load state) (indoor only)	3375kg	7442 lb

Table 1-2 GTJZ1414E Specifications

MEASURE	GTJZ1414E (METRIC)	4655E (IMPERIAL)
DIMENSION PARAMETERS		
Max. platform height	13.8m	45ft 3in.
Max. working height	15.8m	51ft 10in.
Max. horizontal extension	0.9m	3ft
Length	2.78m	9ft
Width	1.41m	4ft 7in.
Height (stowed, rails folded)	1.96m	6ft 5in.
Height (stowed, rails up)	2.6m	8ft 6in.
Wheel base	2.22m	7ft 3in.

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Table 1-2 GTJZ1414E Specifications (continued)

MEASURE	GTJZ1414E (METRIC)	4655E (IMPERIAL)
Wheel span	1.26m	4.1ft
Ground clearance (pothole guards retracted)	0.1m	4in.
Ground clearance (pothole guards deployed)	25mm	0.98in.
Tire size (diameter × width / type)	Φ380×125mm/Solid	Φ15×5 in/Solid
Platform dimension (Length × Width × height)	2.64×1.15×1.1m	8ft 8in.×3ft 9in.×3ft 7in.
PERFORMANCE PARAMETERS		
Rated load capacity of platform	227kg	500 lb
Max. load capability of extended platform	120kg	265 lb
Max. platform occupancy (indoor/outdoor)	2 person(indoor)/1 person(outdoor)	
Drive speed (stowed)	0 ~ 4 km/h	0 ~ 2.5 mph
Drive speed (raised)	0 ~ 0.8 km/h	0 ~ 0.5 mph
Uptime (in a no-load state)	75 ~ 85 s	
Downtime (in a no-load state)	55 ~ 63 s	
Gradeability	25%	
Max. allowable inclination	3°(Front to back)/1.5°(Left to right)	
Turning radius (inside)	0m	0ft
Turning radius (outside)	2.64m	8ft 8in.
Rated load capacity of a single tire	1200kg	2646 lb
Max. allowable manual force (indoor/ outdoor)	400N(indoor)/200N(outdoor)	90 lbf(indoor)/45 lbf(outdoor)
Max. noise	72dB	
POWER PARAMETERS		
Hydraulic tank capacity	15L	3.3 gal(imperial)/4 gal(US)
Hydraulic system capacity (including tank)	41L	9 gal(imperial)/10.8 gal(US)
Hydraulic system pressure	21MPa	3046 Psi
Battery specification (quantity × voltage, capacity)	4×12V,300Ah	
System voltage	24VDC	
Control voltage	24VDC	
ENVIRONMENTAL REQUIREMENT		
Max. allowable wind speed (indoor/ outdoor)	0m/s(indoor)/12.5m/s(outdoor)	0 mph(indoor)/28 mph(outdoor)

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Table 1-2 GTJZ1414E Specifications (continued)

MEASURE	GTJZ1414E (METRIC)	4655E (IMPERIAL)
Max. allowable altitude	1000m	3280.8ft
Allowable ambient temperature (lead-acid batteries)	-10℃ to 40℃	14℉ to 104℉
Allowable ambient temperature (lithium batteries)	-20℃ to 40℃	-4℉ to 104℉
Max. allowable ambient relative humidity	90%	
Storage condition	Stored at -20℃ to 50℃(-4℉ to 122℉) in a well-ventilated environment with 90% relative humidity (20℃ [68℉]), and away from rain, sun, corrosive gas and inflammable explosive.	
WEIGHT		
Weight (in a no-load state) (indoor/ outdoor)	3430kg	7563lb

Table 1-3 1412E Plus Specifications

MEASURE	1412E Plus(METRIC)	4647E Plus(IMPERIAL)
DIMENSION PARAMETERS		
Max. platform height	13.8m	45ft 3in.
Max. working height	15.8m	51ft 10in.
Max. horizontal extension	0.9m	3ft
Length	2.78m	9ft
Width	1.27m	4ft 2in.
Height (stowed, rails folded)	1.96m	6ft 5in.
Height (stowed, rails up)	2.6m	8ft 6in.
Wheel base	2.22m	7ft 3in.
Wheel span	1.1m	3.6ft
Ground clearance (pothole guards retracted)	0.1m	4in.
Ground clearance (pothole guards deployed)	25mm	0.98in.
Tire size (diameter × width / type)	Φ380×125mm/Solid	Φ15×5 in/Solid
Platform dimension (Length × Width × height)	2.64×1.15×1.1m	8ft 8in.×3ft 9in.×3ft 7in.
PERFORMANCE PARAMETERS		
Rated load capacity of platform	350kg	772 lb
Max. load capability of extended platform	120kg	265 lb
Max. platform occupancy(indoor only)	2 person	

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Table 1-3 1412E Plus Specifications (continued)

MEASURE	1412E Plus(METRIC)	4647E Plus(IMPERIAL)
Drive speed (stowed)	0 ~ 4 km/h	0 ~ 2.5 mph
Drive speed (raised)	0 ~ 0.8 km/h	0 ~ 0.5 mph
Uptime (in a no-load state)	75 ~ 85 s	
Downtime (in a no-load state)	55 ~ 63 s	
Gradeability	25%	
Max. allowable inclination	3°(Front to back)/1.5°(Left to right)	
Turning radius (inside)	0m	0ft
Turning radius (outside)	2.64m	8ft 8in.
Rated load capacity of a single tire	1200kg	2646 lb
Max. allowable manual force (indoor only)	400N	90 lbf
Max. noise	72dB	
POWER PARAMETERS		
Hydraulic tank capacity	15L	3.3 gal(imperial)/4 gal(US)
Hydraulic system capacity (including tank)	41L	9 gal(imperial)/10.8 gal(US)
Hydraulic system pressure	21MPa	3046 Psi
Battery specification (quantity × voltage, capacity)	4×12V,300Ah	
System voltage	24VDC	
Control voltage	24VDC	
ENVIRONMENTAL REQUIREMENT		
Max. allowable wind speed (indoor only)	0m/s	0mph
Max. allowable altitude	1000m	3280.8ft
Allowable ambient temperature (lead-acid batteries)	-10℃ to 40℃	14℉ to 104℉
Allowable ambient temperature (lithium batteries)	-20℃ to 40℃	-4℉ to 104℉
Max. allowable ambient relative humidity	90%	
Storage condition	Stored at -20℃ to 50℃(-4℉ to 122℉) in a well-ventilated environment with 90% relative humidity (20℃ [68℉]), and away from rain, sun, corrosive gas and inflammable explosive.	
WEIGHT		
Weight (in a no-load state) (indoor only)	3375kg	7442 lb

NOTE:
a) The working height adds 2m (6ft 7in) of human height to platform height.
b) In different areas, hydraulic oil, engine oil, coolant, fuel and lubrication should be added in accordance with the environmental temperature.
c) In cold weather, auxiliary devices are needed to start the machines.

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2 MACHINE COMPONENTS

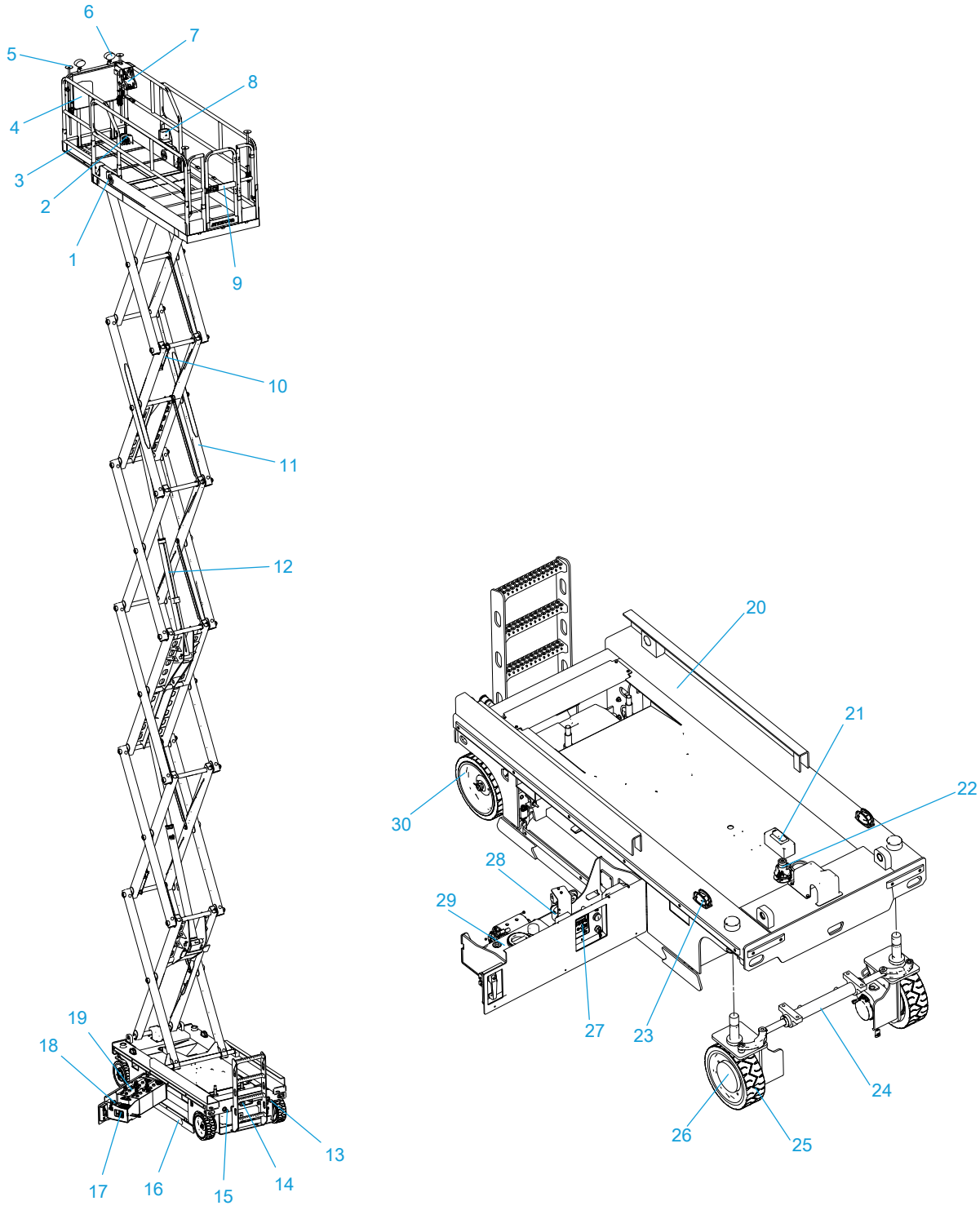


Figure 2-1

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Component	China	CE	CSA	ANSI	AS	Japan	Korea	Poland
1. Fixed Platform	√							
2. Foot Switch						√		
3. Extended Platform	√							
4. Manual Storage Container	√							
5. Overhead Protection							√	
6. Working Light								√
7. Platform Control Box	√							
8. AC Power Socket			√					√
9. Platform Entry Gate	√							
10. Safety Arm	√							
11. Scissor Components	√							
12. Lift Cylinder	√							
13. Industrial Plug	√							
14. Emergency Decent Handle	√							
15. Charger Plug	√							
16. Pothole Protection Plate	√							
17. Battery charger	√							
18. Main Power Handle Assembly	√							
19. Battery	√							
20. Chassis	√							
21. RCBO			√					√
22. Level Sensor	√							
23. Flash Light			√					√
24. Steer Cylinder	√							
25. Steer Wheel	√							
26. Drive Reducer,DC	√							
27. Ground Controller	√							
28. Power Unit	√							
29. Hydraulic Oil Tank	√							
30. Rear Wheel	√							

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3 SAFETY

Read, understand and comply with the safety rules and regulations of your workplace and your government.

Before using the machine, obtain proper training on safe machine operation and make sure you can safely control and operate the machine.

Understand that as the operator you have the responsibility and right to shut down the machine in case of failure with the machine or other emergency at your workplace.

NOTICE

People suffering from heart disease, hypertension, epilepsy and other diseases and people who fear heights must never operate or use this machine. Also, people who have alcohol or drugs in their system, or experience excessive fatigue or depression, are prohibited from operating or using this machine.

SAFETY DEFINITIONS



This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alert symbol.

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

NOTICE

Indicates a situation that can cause damage to the engine, personal property and/or the environment, or cause the equipment to operate improperly.

NOTE: Indicates a procedure, practice or condition that should be followed in order for the engine or component to function in the manner intended.

REPORTING ACCIDENTS

In case of any accident involving the machinery of , notify Immediately, even if no personal injury or property damage occurs during the accident. Contact by telephone and provide all necessary details. Failure to notify the manufacturer within 48 hours of the incident involving the machinery of may void the product's warranty.

NOTICE

Thoroughly inspect the machine and all its functions after any accident, being sure to test first from the ground controller and then from the platform controller. Ensure the machine's lifting height does not exceed 3 m(9.8 ft) until all damage has been repaired and all controllers operate properly.

ELECTROCUTION HAZARDS

NOTE: This machine is not insulated and does not have an electric shock protection function.

All operators and managers shall comply with national or local regulations regarding the minimum safe distance of live conductors above the ground. In the absence of such requirements, operators and managers should follow the minimum safety distance requirements in ***Table 3-1 , page 3-2***.

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⚠ WARNING

ELECTRICAL SHOCK HAZARDS



- **Always maintain a safe distance from power lines and electrical equipment in accordance with applicable government regulations and see *Table 3-1 , page 3-2*.**



- **Consider platform movement, wire swinging or drooping, beware of strong winds or gusts, and do not operate the machine when there is lightning or heavy rain.**



- **If the machine comes into contact with live wires, keep away from the machine. Personnel on the ground or on the platform must not touch or operate the machine until the power is switched off.**
- **Do not use the machine as a ground wire during welding and polishing operations.**

Table 3-1

Voltage (Phase to Phase, kV)	Minimum Safe Distance (m/ft)
0-50	3.05 (10)
50-200	4.60 (15)
200-350	6.10 (20)
350 -500	7.62 (25)
500 -750	10.67 (35)
750 -1000	13.725 (45)

TIPPING HAZARDS AND RATED LOAD

Maximum rated load bearing capacity of the platform:

Table 3-2

GTJZ1412E	
Retracting	227 kg(500 lb)
Extending: Stationary only	107 kg(235 lb)
Extending: Extension only	120 kg(265 lb)
GTJZ1414E	
Retracting	227 kg(500 lb)
Extending: Stationary only	107 kg(235 lb)
Extending: Extension only	120 kg(265 lb)
1412E Plus	
Retracting	350 kg(772 lb)
Extending: Stationary only	230 kg(507 lb)
Extending: Extension only	120kg(265 lb)

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⚠ WARNING

TIPPING HAZARDS



- Personnel, equipment and materials on the platform must not exceed the maximum load capacity.
- Only raise or extend the platform when the machine is on solid, level ground.
- Do not use the tilt alarm as a level indicator. The tilt alarm on the platform will sound only if the machine is heavily tilted. If the tilt alarm sounds:
  - Be very careful to lower the platform. Transfer the machine to solid, level ground. Do not change the level or limit switch.
- Do not drive faster than 0.8 km/h (0.5 mph) when the platform is raised.
- When the platform is raised, the machine cannot travel on uneven terrain, unstable surfaces or in other dangerous conditions.
- Do not operate the machine during strong winds or gusts, and do not increase the surface area of the platform or load. Increasing the area exposed to the wind will reduce the stability of the machine.
- When the machine is on rough ground, with gravel or other uneven surfaces, or near holes and steep slopes, use caution and reduce the speed.
- When on the platform do not push and pull objects outside of it. The maximum lateral force allowed is:

GTJZ1412E:	400 N(90 lbf) indoor only
GTJZ1414E:	400 N(90 lbf) indoor/ 200 N(45 lbf) outdoor
1412E Plus:	400 N(90 lbf) indoor only

- Do not change any machine parts that may affect safety and stability.

⚠ WARNING

TIPPING HAZARDS

- Do not replace key parts that affect machine stability with different weights or specifications.
- Do not modify or change moving aerial platforms without the manufacturer's prior written permission.
- On the platform, do not attach an additional device for placing tools or other materials to the guardrail. This will increase the platform weight, surface area and load.
- Do not place on, or fasten to, any overhanging load to any part of this machine.
- Do not place ladders or scaffolding on the platform or any parts of the machine.
- Do not use the machine on a moving or active surface or on a vehicle. Ensure all tires are in good condition, the slotted nuts tightened and the cotter pins complete.
- Do not use a battery that weighs less than the original lead acid battery(40 kg [88 lb]) or lithium battery (160 kg [352 lb]). The battery not only provides power, it also serves as a counterweight. The battery is vital to maintaining the stability of the machine.
- Do not use a platform to propel machines or other objects.
- Do not let the platform touch nearby objects.
- Do not tie off the platform with rope or other binding materials to nearby objects.
- Do not put a load outside the platform.
- Do not operate the machine when the chassis doors are open.
- When the platform is caught or stuck or when other objects in the vicinity impede its normal movement, do not use the platform controller to lower the platform. If you intend to lower the platform with a ground controller, you must operate it only after all personnel have left the platform.

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WORK ENVIRONMENT HAZARDS

⚠ WARNING

UNSAFE JOBSITE HAZARDS







- **Do not operate the machine on surfaces, edges or potholes that cannot bear the weight of the machine. Raise or extend the platform only when the machine is on firm, flat ground.**
- **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.**
- **If the tilt alarm sounds while lifting the platform, be very careful when lowering the platform. Do not change the level or limit switch.**
- **Running speed should not exceed 0.8 km/h (0.5 mph) when the platform rises.**
- **If the machine can be used outdoors, never operate it during strong winds or gusts. Do not lift the platform when the wind speed exceeds 12.5 m/s (28 mph). If the wind speed exceeds 12.5 m/s (28 mph) after the platform is lifted, fold the platform and do not continue to operate the machine.**

⚠ WARNING

UNSAFE JOBSITE HAZARDS





- **Never travel on uneven terrain or unstable surfaces or in other dangerous conditions when raising the platform.**
- **When the machine retracts, be careful and slow down when the machine is moving on uneven terrain, crushed stone, unstable or smooth surfaces, steep slopes and near cave entrances.**
- **Do not drive or lift the machine on slopes, steps or vaulted surfaces that exceed the maximum climbing capacity of the machine.**

Before or during machine operation, check the possible hazards on the jobsite and beware of the restrictions within the environment, including flammable and explosive gas/dust.

Table 3-3

BEAUFORT NUMBER	METERS/ SECOND	MILE/ HOUR	DESCRIPTION	GROUND CONDITION
0	0 ~ 0.2	0 ~ 0.5	Calm	Calm. Smoke rises vertically.
1	0.3 ~ 1.5	1 ~ 3	Light air	Wind motion visible in smoke.
2	1.6 ~ 3.3	4 ~ 7	Light breeze	Wind felt on exposed skin. Leaves rustle.
3	3.4 ~ 5.4	8 ~ 12	Gentle breeze	Leaves and smaller twigs in constant motion.
4	5.5 ~ 7.9	13 ~ 18	Moderate breeze	Dust and loose paper rise. Small branches begin to move.
5	8.0 ~ 10.7	19 ~ 24	Fresh breeze	Smaller trees sway.
6	10.8 ~ 13.8	25 ~ 31	Strong breeze	Large branches in motion. Flags waving near horizontal. Umbrella use becomes difficult.
7	13.9 ~ 17.1	32 ~ 38	Near gale/moderate gale	Whole trees in motion. Effort needed to walk against the wind.
8	17.2 ~ 20.7	39 ~ 46	Fresh gale	Twigs broken from trees. Cars veer on road.
9	20.8 ~ 24.4	47 ~ 54	Strong gale	Light structure damage.

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NOTICE

Maximum climbing ability is suitable for machines with platform retracted.

Maximum Slope:

GTJZ1412E: 25% (14°)
GTJZ1414E: 25% (14°)
1412E Plus: 25% (14°)

Climbing capacity means the maximum allowable tilt angle of the machine when it is on solid ground and the platform is only capable of carrying one person. As the weight of the machine's platform increases, the machine's climbing capacity reduces.

UNSAFE OPERATION HAZARDS

At a minimum, operators must operate and maintain the machine as stated in this manual and in the *Maintenance Manual* in addition to following more stringent industry regulations and workplace rules. Never engage in unsafe machine operation.

⚠ WARNING

UNSAFE OPERATION HAZARDS



- **Do not push any object outside the platform. The maximum lateral force allowed is:**



GTJZ1412E:	**400 N(90 lbf) indoor only**
GTJZ1414E:	**400 N(90 lbf) indoor/200 N(45 lbf) outdoor**
1412E Plus:	**400 N(90 lbf) indoor only**

- **Do not change any machine parts that may affect safety and stability.**
- **Do not replace key parts that affect machine stability with different weights or specifications.**
- **Do not change or modify moving aerial platforms without the manufacturer's written permission.**
- **On the platform, do not attach an additional device for placing tools or other materials to the guardrail. This will increase the platform weight, surface area and load.**
- **Do not put ladders or scaffolding on the platform or any part of this machine.**



- **Do not use the machine on any mobile or movable surface or vehicle. Ensure all tires are in good condition, the slotted nuts tightened and the cotter pins complete.**
- **Do not use a battery that weighs less than the original lead acid battery(40 kg [88 lb]) or lithium battery (160 kg [352 lb]). The battery not only provides power, it also serves as a counterweight. The battery is vital to maintaining the stability of the machine.**



- **Do not place or attach any suspended load onto any part of the machine.**
- **Do not use the machine as a crane.**
- **Do not use the platform to push the machine or other objects.**

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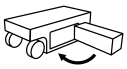
⚠ WARNING

UNSAFE OPERATION HAZARDS

- **Do not allow the platform to touch nearby objects.**
- **Do not tie the platform onto nearby objects.**
- **Do not put the load outside the platform.**
- **When the platform is caught or stuck or when other objects in the vicinity impede its normal movement, do not use the platform controller to lower the platform. If you intend to lower the platform with a ground controller, you must operate it only after all personnel have left the platform.**



- **Do not operate the machine when the chassis door box is open.**



- **When one or more of the machine's tires are off the ground, evacuate all personnel before attempting to stabilize the equipment. Use a crane, forklift or other suitable apparatus to stabilize the equipment.**

⚠ WARNING

FALL HAZARDS









- **Each person on the platform must wear harnesses or use safety equipment consistent with government regulations. Fasten the cable to the fixed point of the platform. Never fasten the cable of more than one person to a fixed point on the platform.**
- **Do not sit, stand or crawl on the guardrails. When on the platform always remain standing on the platform floor.**
- **Do not climb down from the platform when the platform is elevated.**
- **Keep the platform floor free of obstacles.**
- **Do not enter or exit the platform unless the machine is fully in place.**
- **Close the platform entrance door before operating the machine.**
- **Do not operate the machine if the handrails are not properly installed and the platform entry door is not closed.**

FALL HAZARDS

At a minimum, operators must operate and maintain the machine as stated in this manual and in the *Maintenance Manual* in addition to following more stringent industry regulations and workplace rules.

COLLISION HAZARDS

At a minimum, operators must operate and maintain the machine as stated in this manual and in the *Maintenance Manual* in addition to following more stringent industry regulations and workplace rules.

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⚠ WARNING

COLLISION HAZARDS



- **Pay attention to the field of sight and the presence of blind spots when moving or operating the machine.**



- **Pay attention to the extended platform when moving the machine.**
- **Check the work area to avoid ground and overhead obstructions or other possible risks.**
- **Be sure to exercise caution when using the platform controller and chassis controller. Color-marked directional arrows show the function of travel, lift and steering.**



- **Users must comply with user, workplace and government rules regarding the use of personal protective equipment (hard hats, safety belts and gloves, etc.).**
- **Place the machine on level ground or in a secured position before releasing the brakes.**



- **Only lower the platform when there are no people or obstructions in the area beneath it.**
- **Limit the speed of travel according to ground conditions, crowding, gradients, the presence and location of personnel and any other factors that may cause collisions.**



- **Do not operate the machine on any crane or overhead traveling device unless the crane control is locked or precautions have been taken to prevent any potential collision.**
- **Do not place your hands and arms where they may become crushed or trapped.**
- **Do not work in or under the platform or near the scissor arms when the safety lever is not in place.**
- **Maintain good judgment and planning when using the controller on the ground to operate the machine. Maintain proper distance between operator, machine and fixed object.**

⚠ WARNING

COLLISION HAZARDS

- **Never operate a machine dangerously or for fun.**

CRUSH HAZARDS

A potential crush hazard exists during movement of the machine. Always keep body parts and clothing a safe distance from the machine during machine operation.

⚠ WARNING

CRUSH HAZARDS



- **Do not place your hands and arms where they may become crushed or trapped.**
- **Do not work in or under the platform or near the scissor arms when the safety lever is not in place.**
- **Maintain good judgment and planning when using the controller on the ground to operate the machine. Maintain proper distance between operator, machine and fixed object.**

EXPLOSION AND FIRE HAZARDS

⚠ WARNING

EXPLOSION AND FIRE HAZARD



Do not use the machine or charge the battery in hazardous or potentially flammable or explosive atmospheres.



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DAMAGED MACHINE HAZARDS

NOTICE

To avoid machine damage, follow all operation and maintenance requirements in this manual and the Maintenance Manual.

⚠ WARNING

UNSAFE OPERATION HAZARDS



- **Do not use the machine if it is damaged or not in proper operating condition.**
- **Thoroughly inspect and test for all functions of the machine before use. Immediately mark and stop damaged or faulty machines.**
- **Ensure that all maintenance operations have been performed in accordance with this manual and the corresponding *Maintenance Manual*.**
- **Make sure all labels are in place and are legible.**
- **Ensure that the *Operation Manual* and *Maintenance Manual* are sound, easy to read and stored in the storage compartment on the platform.**

BODILY INJURY HAZARDS

Always follow all operation and maintenance requirements in this manual and the .

⚠ WARNING

UNSAFE OPERATION HAZARD



Do not operate the machine when there are oil spills/leaks. Oil spills or leaks in hydraulic fluids may penetrate and burn the skin.

NOTE: The operator must carry out maintenance during the pre-operation inspection only. During operation, keep the left and right doors of the chassis closed and locked. Only trained service personnel can open the left and right doors to repair the machine.

BATTERY HAZARDS

⚠ WARNING

FIRE AND EXPLOSION HAZARD





- **Batteries contain sulfuric acid and generate explosive mixtures of hydrogen and oxygen gases. Keep any device that may cause sparks or flames (including cigarettes/smoking materials) away from the battery to prevent explosion.**
- **Do not touch the battery terminals or cable clips with tools that may cause sparks.**

⚠ WARNING

BATTERY HAZARD



Always wear protective glasses or goggles and protective clothing when working with batteries. Remove all rings, watches and other accessories.

⚠ WARNING

CHEMICAL BURN HAZARD



Avoid spilling or contacting battery acid with unprotected skin. Seek medical attention immediately if battery acid contacts skin.

⚠ WARNING

BATTERY HAZARD



- **Do not use any battery charger greater than 24VDC to charge the battery. Only connect the charger to a grounded three-wire AC outlet. Be sure the charger is in proper operating condition before using.**
- **Be sure to use the appropriate number of personnel and proper lifting methods when changing the battery.**

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NOTICE

After charging the battery, be sure that:

- *The battery cable connections are free of corrosion.*
- *The battery hold-down and cable connections are secured.*

Adding terminal protection and anti-corrosion sealants will help reduce corrosion of the battery terminals and cables.

CHARGING THE BATTERY

- Do not expose the battery or charger to water or rain during charging.
- Keep a charging battery away from direct sunlight.
- Always charge the battery using the charger supplied by the manufacturer.

HANDLING THE BATTERY

- Only trained personnel with permission from the workplace may remove a battery from a machine.
- Never force a battery during installation or removal. Never drop a battery.
- Never short-circuit the outlet of the battery pack directly with the wire.
- If battery acid spills, use water mixed with bicarbonate (baking soda) to neutralize the acid.
- Do not store batteries in wet places or in water.
- Check the wire for damage daily. Replace any damaged parts before operation.

WELDING AND POLISHING REQUIREMENTS

Before welding, grinding and polishing operations, always ensure you read and understand all operation and maintenance requirements in this manual and the *Maintenance Manual*.

⚠ WARNING

WELDING HAZARDS



- **Comply with the welder manufacturer's recommendations for procedures concerning proper use of the welder.**
- **Welding leads or cables may only be connected after turning off the power unit.**
- **Carry out welding operations only after the welding cable has been correctly connected.**
- **Do not use the machine as a ground wire during welding operation.**
- **At all times, make sure that the power tools are completely stored in the working platform. Do not hang the power tools on the railing of the working platform or the work area outside the working platform, or hang the power tools directly by the wire.**

Before performing welding, grinding and polishing work, welders must seek permission of the responsible department at the workplace.

AFTER USING THE MACHINE

1. Choose a safe parking location that is on sturdy, level ground and that is free of obstructions. Avoid areas with heavy traffic.
2. Lower the platform.
3. Turn the emergency stop switch of the ground controller to the "OFF" position
4. Turn the key switch to the "OFF" position and remove the key to avoid unauthorized use of the machine.
5. Block the wheels with the wheel wedges.
6. Charge the battery.

NOTICE

After using the machine, the power off switch must be disconnected.

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4 JOBSITE INSPECTION

⚠ WARNING

UNSAFE OPERATION HAZARD



Be sure to follow the instructions and safety rules in this manual. Failure to follow the instructions and safety rules in this manual may result in death or serious injury.

Do not operate this machine unless you have learned and practiced the rules for safely operating the machine as stated in this manual.

- **Know and understand the safety rules before continuing the next step.**
- **Avoid dangerous situations.**
- **Always check the machine before operating.**
- **Select appropriate machinery and personal protective equipment (hard hats, safety belt and gloves, etc.) for the task.**
- **Always perform a pre-operation inspection.**
- **Always perform a pre-operation function test before using the machine.**
- **Check the work site.**
- **Check the safety decals/ nameplate on the machine.**
- **Only use the machine according to the instructions in this manual and for its intended purpose.**

During the jobsite inspection the operator determines whether the jobsite is suitable for safe machine operation. The operator should conduct the jobsite inspection before moving the machine to the jobsite.

Safety is the operator's responsibility. Part of safety is conducting a thorough jobsite inspection. Operators must identify and avoid workplace hazards when moving, installing and operating the machine.

The following items present danger on the jobsite:

- Steep hills or caves
- Ground prominences, obstacles or debris
- Ground inclines
- Unstable or ultra-smooth surfaces
- Overhead obstacles and high-voltage wires
- Hazardous locations
- Ground surface that could fail to support the capacity of the machine and its load
- Gusts and strong winds
- Actions by unauthorized personnel
- Other possible unsafe conditions

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5 PRE-OPERATION INSPECTION

⚠ WARNING

UNSAFE OPERATION HAZARD



Be sure to follow the instructions and safety rules in this manual. Failure to follow the instructions and safety rules in this manual may result in death or serious injury.

Do not operate this machine unless you have learned and practiced the rules for safely operating the machine as stated in this manual.

- **Know and understand the safety rules before continuing the next step.**
- **Avoid dangerous situations.**
- **Always check the machine before operating.**
- **Select appropriate machinery and personal protective equipment (hard hats, safety belt and gloves, etc.) for the task.**
- **Always perform a pre-operation inspection.**
- **Always perform a pre-operation function test before using the machine.**
- **Check the work site.**
- **Check the safety decals/ nameplates on the machine.**
- **Only use the machine according to the instructions in this manual and for its intended purpose.**

TIPS FOR CONDUCTING A PRE-OPERATION INSPECTION

- The operator is responsible for performing the “pre-operation inspection” and routine maintenance as stated in this manual.
- Before each shift change, the operator must conduct a pre-operation inspection to find out whether the machine has obvious problems before the operator performs a pre-operation function test.
- The pre-operation inspection also helps the operator determine whether the machine requires routine maintenance.
- See the list of machine components on ***2 Machine Components, page 2-1***. Check the machine for any modified, damaged, loose or missing parts.
- Never use a machine that has damaged or modified parts. Mark the machine and stop using the machine if you discover damage or modifications.
- Only qualified maintenance technicians can repair the machine according to the manufacturer's regulations. After any maintenance, the operator must perform another pre-operation inspection before conducting a pre-operation function test.
- Qualified maintenance technicians must perform regular maintenance inspections according to the requirements in the manufacturer’s *Maintenance Manual*.

⚠ WARNING

TIPPING HAZARD



Do not change or modify the aerial work platform without the prior written permission of the manufacturer. If an additional device is installed on the platform or guardrail for placing tools or other materials, this will increase the platform weight and surface area or increase the load.

CONDUCTING A PRE-OPERATION INSPECTION

Before starting the machine, check whether it meets the following requirements:

- Ensure the *Operation Manual* and *Maintenance Manual* are in good condition, legible and stored in the storage compartment on the platform.
- Make sure all labels are legible and appropriately located.
- Check for hydraulic oil leaks. Check for proper oil level. Add oil as needed. See ***Inspect Hydraulic Oil Level, page 5-2***.

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- Check battery for leaks and proper liquid level. Add distilled water as needed. See ***Inspecting the Battery, page 5-2***.
- Check whether the protective device in use matches the type of work performed and conforms to relevant technical standards.

INSPECTING PARTS

Check the machine for any damaged, improperly installed, loose or missing parts and unauthorized changes:

- Electrical components, wirings and cables
- Hydraulic power unit, fuel tank, connector, hose, hydraulic cylinder and valve block
- Storage battery pack and its connection
- Drive motor and brake
- Wheels
- Safety arm
- Limit switch and horn
- Alarms and indicator lamps
- Nuts, bolts and other fasteners
- Platform entry door
- Pothole guard device
- Platform in extended state
- Scissor arm (pivoting) and fastener
- Platform joystick

INSPECTING ENTIRE MACHINE

Inspect the entire machine for damage:

- Cracks in a weld joint or structural par
- Dents or other damage
- Severe rust, corrosion or oxidation
- Missing or loose structural parts and key components, including fasteners and pins for correct positioning and tightness
- The folding platform's ability to support the platform side rail and proper installation of safety pin with wire rope

INSPECT HYDRAULIC OIL LEVEL

Maintaining the proper hydraulic oil level is critical to the machine's ability to function. An improper hydraulic oil level will damage the hydraulic parts of the machine. Inspecting the hydraulic oil level as part of a daily machine inspection can reveal potential problems in the hydraulic system.

Perform the following procedures with the platform retracted:

1. Open the right door and inspect the side of the hydraulic oil tank. The hydraulic oil level should be above 12 liter scale in oil tank.
2. Add hydraulic oil as needed. Never overfill the tank.

Table 5-1

CUSTOMER REQUIREMENTS	HYDRAULIC OIL MARK
Normal-temperature region 0°C to 40°C (32°F to 104°F)	L-HM46
Cold region -25°C to 25°C (-13°F to 77°F)	L-HV32
High-temperature region greater than 40°C (104°F)	L-HM68
Extremely cold region less than -30°C (-22°F)	Special programmes need to be identified.
NOTE: The manufacturer can add different hydraulic oil (based on your requirements) to the machine before leaving the factory. Never mix hydraulic oils.	

INSPECTING THE BATTERY

The condition of the battery affects the performance of the machine. Improper levels of battery electrolyte or damaged cable and wiring may harm battery parts and may pose dangerous conditions.

NOTICE

After the battery is fully charged, wear protective gloves for inspection.

- Check the acidic liquid level of the lead-acid battery. If needed, refill the distilled water through a filling line above the lead-acid battery. Only add enough distilled water to cover the plate. Never overfill the tube at the end of the charging cycle.

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- Ensure the connection of the battery cable is not corroded.
- Ensure the battery is firmly in place and the cable wiring is fastened.

⚠ WARNING

BODILY INJURY HAZARD



Lead-acid batteries and lead-acid maintenance-free batteries contain acid. Avoid acid overflow or contact with acid in lead-acid batteries and lead-acid maintenance-free batteries.

If battery acid spills, use water mixed with bicarbonate (baking soda) to neutralize the acid.

NOTE: Add wiring end protectors and antiseptic sealants to help eliminate corrosion of the battery terminals and cables.

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6 PRE-OPERATION FUNCTION TEST

⚠ WARNING

UNSAFE OPERATION HAZARD

Be sure to follow the instructions and safety rules in this manual. Failure to follow the instructions and safety rules in this manual may result in death or serious injury.

Do not operate this machine unless you have learned and practiced the rules for safely operating the machine as stated in this manual.

- **Know and understand the safety rules before continuing the next step.**
- **Avoid dangerous situations.**
- **Always check the machine before operating.**
- **Select appropriate machinery and personal protective equipment (hard hats, safety belt and gloves, etc.) for the task.**
- **Always perform a pre-operation inspection.**
- **Always perform a pre-operation function test before using the machine.**
- **Check the work site.**
- **Check the safety decals/ nameplate on the machine.**
- **Only use the machine according to the instructions in this manual and for its intended purpose.**

Conducting a pre-operation function test helps you discover potential problems before you start using the machine. The operator must test all machine functions according to the instructions in this manual.

Do not use a machine with problems or malfunctions. Mark the machine and do not use it if you discover any problems. Only qualified maintenance technicians can repair the machine according to the manufacturer's regulations.

After any maintenance, the operator must perform another pre-operation inspection before conducting a pre-operation function test.

PREPARING FOR A PRE-OPERATION FUNCTION TEST

Before beginning a pre-operation function test:

1. Select a test area that has a solid, flat, level surface.
2. Ensure the test area is free of obstacles.
3. Connect the battery to the machine if it is not already connected.

TESTING THE GROUND CONTROLLER

NOTICE

Test the ground controller in one cycle.

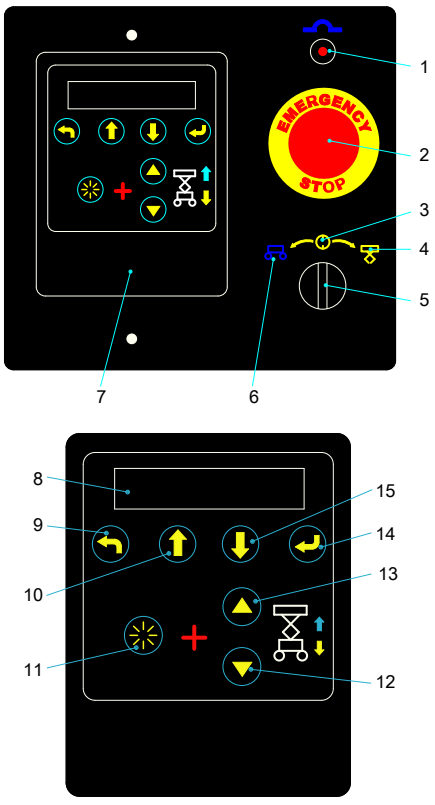
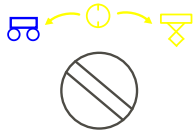


Figure 6-1

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1. Insurance
2. Emergency Stop Button
3. OFF Position
4. Platform Control Position
5. Key Switch
6. Ground Control Position
7. Controller
8. Display Screen
9. Backspace Key
10. Page Up Key
11. Enabling Key
12. Lowering Key
13. Lifting Key
14. Enter Key
15. Page Down Key

TESTING THE GROUND CONTROLLER FUNCTION



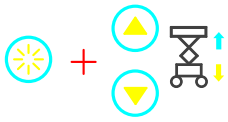
1. Push the emergency stop button on the ground controller and platform controller to the ON position.
2. Turn the key switch to the ground control position.
3. Ensure the relevant indicator turns on and does not display an error message.

TESTING THE EMERGENCY STOP FUNCTION



1. Put the emergency stop button on the ground into the OFF position by pressing it. Ensure all functions shut down.
2. Pull out the emergency stop button to the ON position.

TESTING THE LIFTING AND LOWERING FUNCTIONS



1. Hold down the enabling and lifting key at the same time to start the lifting function. Ensure the platform lifts.
2. Release either the enabling or lifting key to ensure that the platform stops lifting.
3. Hold down the enabling key and lowering key at the same time to start the lowering function. The platform should lower and the alarm should ring.

TESTING THE PLATFORM CONTROLLER

NOTICE

Test all functions of the platform controller in one cycle.

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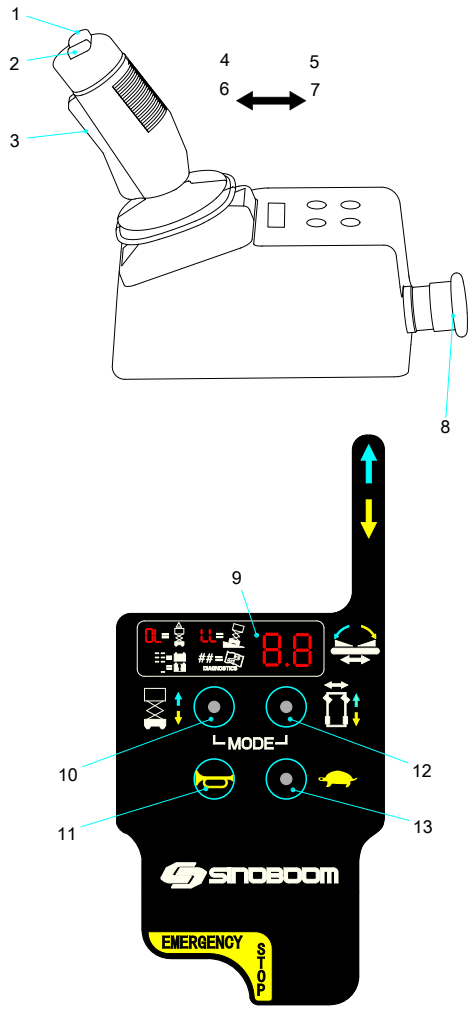
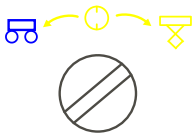


Figure 6-2

1. Right
2. Left
3. Enabling Key
4. Lifting
5. Lowering
6. Front
7. Back
8. Emergency Stop Button
9. Display Screen
10. Lifting/Lowering
11. Horn
12. Walking and Steering
13. High/Low Speed

TESTING THE PLATFORM CONTROLLER



1. Push the emergency stop button on the ground controller and platform controller to the ON position.
2. Turn the key switch of the ground controller to the platform control position.

TESTING THE EMERGENCY STOP FUNCTION



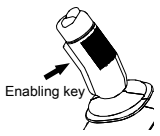
1. Put the emergency stop button on the platform into the OFF position by pressing it. Ensure all functions stop.
2. Pull the emergency stop button to the ON position.

TESTING THE HORN



Press the horn button. The horn should sound.

TESTING THE ENABLING KEY FUNCTION

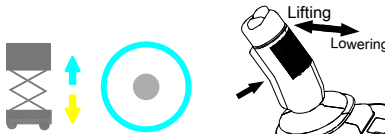


Do not press the enabling key on the control handle. Push the control handle forward and backward . Ensure that all walking and lifting functions stop working.

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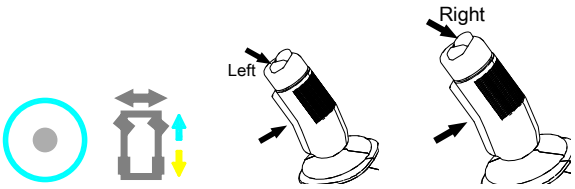
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TESTING THE LIFTING AND LOWERING FUNCTIONS



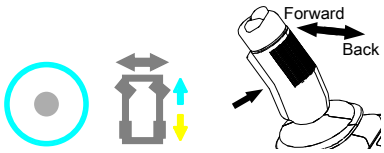
1. Press the lifting/lowering button. The button should illuminate.
2. Hold the enabling key on the control handle and push the control handle forward to activate the lifting function. The platform should rise and the pothole guard device should extend.
3. Release the control handle. Ensure the platform stops lifting.
4. Hold the enabling key of the control handle and push the control handle back to activate the lowering function. Ensure the platform lowers while the lowering alarm sounds.

TESTING THE STEERING FUNCTION



1. Press the driving and steering button. The button should illuminate.
2. Hold the enabling key on the control handle and press the left button. Ensure the machine turns left.
3. Hold the enabling key of the control handle and press the right button. Ensure the machine turns right.

TESTING THE DRIVING AND BRAKING FUNCTIONS



1. Press the driving and steering button. The button should illuminate.
2. Hold the enabling key of the control handle and push it forward slowly until the machine begins to move forward, then return the handle to the center position. Ensure the machine moves forward and then stops.
3. Hold the enabling key of the control handle and push it forward slowly until the machine begins to move back, then return the handle to the center position. Ensure the machine moves backward and then stops.

NOTICE

The brake must be able to climb at any gradient and the brake must be able to stop the machine.

TESTING THE DRIVE SPEED

1. Push the emergency stop button on the ground controller and platform controller to the ON position.
2. Turn the key switch on the ground to the platform control position.
3. Press the lifting/lowering button. The button should illuminate.
4. Hold the enabling key of the control handle and push the control handle forward to activate the lifting function. Ensure the platform lifts about 2 m (6.6 ft). Ensure the pothole guard device (one under the left side of the chassis and one under the right side of the chassis) extends.
5. Press the walking and steering button, hold the enabling key on the control handle and gently push the control handle forward to the full-drive position. Ensure the machine does not take less than 45 seconds to travel 10 m (32.8 ft).

NOTICE

If the machine takes less than 45 seconds to travel 10 m (32.8 ft), stop the machine and determine the cause.

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6. Press the lifting/lowering button. Hold the enabling key of the control handle and push the control handle reverse to activate the lowering function.
7. Press the walking and steering button, then press the "High/Low Speed" button. The slow mode activates when the light of the low-speed traveling button illuminates.
8. Hold the enabling key on the control handle and gently push the control handle forward to the full-drive position. Ensure the machine does not take less than 18 seconds to travel 10 m (32.8 ft).

NOTICE

If the machine takes less than 18 seconds to travel 10 m (32.8 ft), stop the machine and determine the cause.

9. Press the "High/Low Speed" button. The light of the low-speed traveling button goes out.
10. Hold the enabling key on the control handle and gently push the control handle forward to the full-drive position. Ensure the machine does not take less than 9 seconds to travel 10 m (32.8 ft).

NOTICE

If the machine takes less than 9 seconds to travel 10 m (32.8 ft), stop the machine and determine the cause.

TESTING THE EMERGENCY LOWERING FUNCTION

1. Push the emergency stop button on the ground controller and platform controller to the ON position.
2. Turn the key switch on the ground to the ground control position.
3. Move the ground lifting/lowering switch up and raise the platform to the highest position.
4. Pull out the emergency lowering handle located behind the chassis.

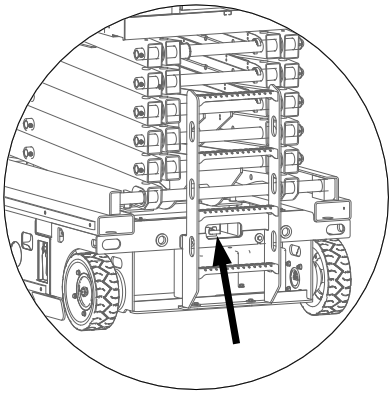


Figure 6-3

5. The platform shall descend to the lowest position.

TESTING THE TILT PROTECTION FUNCTION

NOTICE

Perform this step while you are standing on the ground using the platform controller. Do not stand on the platform while testing this function.

To operate the lower part of the scissor arm, use the safety arm; otherwise serious personal injury may result.

1. Lifting the platform, open the safety arm and ensure the safety arm functions.
2. Flip the level switch to exceed 1.5 degrees in the left-to-right direction. Ensure the machine sounds an alarm.
3. Flip the level switch to exceed 3 degrees in the front-to-back direction. Ensure the machine sounds an alarm.
4. Lower the platform completely.
5. Place the two wooden boards under the two wheels on the left or right side of the machine, and then drive the machine onto the two boards. The wooden boards should measure as follows(L × W × H):

GTJZ1412E:	50 mm × 100 mm × 33 mm (2 in. × 4 in. × 1.3 in.)
GTJZ1414E:	50 mm × 100 mm × 33 mm (2 in. × 4 in. × 1.3 in.)
1412E Plus:	50 mm × 100 mm × 33 mm (2 in. × 4 in. × 1.3 in.)

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6. Change the machine's walking function to a platform lifting function and then push the handle to raise the platform about 2 m (6.6 ft). Ensure the platform stops moving and tilt the alarm bell. Ensure the platform controller and the ground controller display the letters "LL."
7. Completely lower the platform. Change the machine's platform lifting function to a walking function. Drive the machine down and remove the wooden boards.
8. Place the two wooden boards under the two wheels on the front or back side of the machine, and then drive the machine onto the two boards. The wooden boards should measure(L × W × H): 50 mm × 100 mm × 116 mm (2 in. × 4 in. × 4.6 in.).
9. Change the machine's walking function to a platform lifting function and then push the handle to raise the platform about 2 m (6.6 ft). Ensure the platform stops moving and tilt the alarm bell. Ensure the platform controller and the ground controller display the letters "LL."
10. Completely lower the platform. Change the machine's platform lifting function to a driving function. Drive the machine down and remove the wooden boards.

TESTING THE POTHOLE GUARD

NOTICE

When the platform lifts, the pothole guard should activate automatically. The pothole guard activates two limit switches to help restrict the movement of the machine. When the platform rises to the level of the fork and leaves the pressure lever of the pothole guard, the pothole guard activates. If the pothole guard does not activate, the alarm will sound and the machine will not be able to lift and drive.

1. Test the pothole guard. Ensure that the pothole guard activates automatically when the platform lifts to the level of the fork and leaves the pressure lever of the pothole guard.
2. Push hard on the left/right pothole guard shield. Ensure the pothole guard shield cannot be flipped upward.
3. Lower the platform. Ensure that the pothole guard shield automatically recovers.
4. Place a wooden board under the pothole guard and lift the platform. The wooden boards should measure(L × W × H): 50 mm × 50mm × 100 mm (2 in. × 2 in. × 4 in.). When the platform lifts to the level of the fork and leaves the pothole guard lever, the alarm will sound and the platform controller and ground controller will display the number "18". The machine will not be able to lift and drive.
5. Completely lower the platform and remove the wooden blocks.

TESTING THE WEIGHING SYSTEM(OPTIONAL)

1. Before conducting this test, fully lift and lower the platform twice to ensure normal lubrication of the slider and track.
2. Lower the platform to the minimum height. With the scissor arm fully retracted, gradually add a load to the platform.

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Table 6-1

Models	Test Results
GTJZ1412E	When the weight does not exceed 227 kg (500 lb), ensure that the platform is able to lift to the highest position. When the platform load is greater than or equal to 270 kg (595 lb), if the platform lifting height is greater than 1 m(3.3 ft) or 10% of the height that can be lifted (use the greater number), several things will happen. The overload indicator lamp will illuminate, an alarm will sound, and the work platform will not be able to move. Once you remove the excess weight, the work platform will be able to move again.
GTJZ1414E	When the weight does not exceed 227 kg (500 lb), ensure that the platform is able to lift to the highest position. When the platform load is greater than or equal to 270 kg (595 lb), if the platform lifting height is greater than 1 m(3.3 ft) or 10% of the height that can be lifted (use the greater number), several things will happen. The overload indicator lamp will illuminate, an alarm will sound, and the work platform will not be able to move. Once you remove the excess weight, the work platform will be able to move again.
1412E Plus	When the weight does not exceed 350 kg (772 lb), ensure that the platform is able to lift to the highest position. When the platform load is greater than or equal to 420 kg (926 lb), if the platform lifting height is greater than 1 m(3.3 ft) or 10% of the height that can be lifted (use the greater number), several things will happen. The overload indicator lamp will illuminate, an alarm will sound, and the work platform will not be able to move. Once you remove the excess weight, the work platform will be able to move again.

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7 OPERATING THE MACHINE

⚠ WARNING

UNSAFE OPERATION HAZARD



Be sure to follow the instructions and safety rules in this manual. Failure to follow the instructions and safety rules in this manual may result in death or serious injury.

Do not operate this machine unless you have learned and practiced the rules for safely operating the machine as stated in this manual.

- **Know and understand the safety rules before continuing the next step.**
- **Avoid dangerous situations.**
- **Always check the machine before operating.**
- **Select appropriate machinery and personal protective equipment (hard hats, safety belt and gloves, etc.) for the task.**
- **Always perform a pre-operation inspection.**
- **Always perform a pre-operation function test before using the machine.**
- **Check the work site.**
- **Check the safety decals/ nameplate on the machine.**
- **Only use the machine according to the instructions in this manual and for its intended purpose.**

This section provides specific instructions for all the aspects of machine operation. The operator is responsible for following all the safety rules and instructions in this manual.

Use this machine to transport people and tools to the workplace. It is unsafe and dangerous to use this machine for purposes other than what is stated in this manual.

Only trained and authorized personnel may operate the machine. If more than one operator uses the same machine at different times of the same work shift, they must all be qualified operators and follow all the safety rules and instructions in this *Operation Manual*.

Each new operator must perform the pre-operation inspection, pre-operation function test, and workplace checks before using the machine.

USING THE EMERGENCY STOP FUNCTION

1. Place the emergency stop button on the platform controller or ground controller in the OFF position. All functions will stop.
2. This machine has a power off button on the chassis. Put the button into the OFF position. The system will power off and all functions will stop.
3. To restore operation, move the emergency stop button and the power off button into the ON position.

NOTICE

If the platform controller display the number “02”, press the emergency stop button immediately.

USING THE EMERGENCY LOWERING FEATURE

Pull out the emergency lowering handle to activate the machine’s emergency stop function.

See ***Testing the Emergency Lowering Function, page 6-5*** for the emergency lowering handle position.

USING THE EMERGENCY PULL/DRAG FEATURE

⚠ WARNING

CRUSH HAZARDS



The machine is on any slope and must fully cover the wheels before releasing the brakes, any failure to comply with this warning may result in injury or even death.

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When there's an emergency, machine malfunction or power loss need emergency pull/drag, release brake has the following two methods:

Method 1:

1. Wedge the tires to prevent the machine from rolling.
2. Ensure the area is free of obstructions.
3. Make sure the battery power OFF switch is in the “OFF” position.
4. Remove two end cover bolts and brake cover.

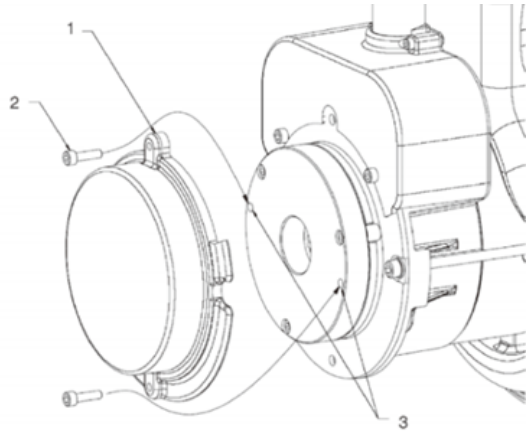


Figure 7-1

Table 7-1

No.	Description
1	Brake cover
2	Brake end cover bolts
3	bolt hole

5. Insert the end cover bolt into the two separate holes on the brake housing.
6. Tighten the end cap bolts downward and the brakes on the drive motor will detach.
7. The above steps are repeated in the drive of the other wheel. after the two drive motors have separated. the machine can be moved by human power.
8. After traction, pad the wheel and remove the end cover bolt from the separation hole.

Method 2:

1. Turn the key switch of the ground controller to the ground control position.
2. Push the emergency stop button on the platform controller to the ON position.
3. Push the emergency stop button on the ground controller to the ON position while holding down the enter button for five seconds, and the program setting interface appears on the display screen.
4. Press page down key until the display appears "Machine Mode", then press the enter button.
5. Press page down key until the display appears "Break Release", then press the enter button.
6. At this time, the horn sounded, while the buzzer sounded all the time, the brake was released successfully.
7. the machine can be moved by human power.

OPERATING ON THE GROUND

Before operating the machine:

1. Switch the key switch on the ground controller to the ground control position.
2. Pull the emergency stop button on the ground controller out to the ON position.
3. Ensure the battery is connected to the machine before operating the machine.

To adjust the platform position:

1. Operate the lifting/lowering switch on the ground controller to control the lifting and lowering functions of the platform.
2. The ground controller will be unable to control the machine’s driving and steering functions.

OPERATING ON THE PLATFORM

Before operating the machine:

1. Switch the key switch on the ground controller to the platform control position.
2. Pull the emergency stop button on the ground controller and platform controller out to the ON position.
3. Ensure the battery is connected to the machine before operating the machine.

To adjust the platform position:

1. Press the lifting/lowering button of the platform control box, which will illuminate the button.
2. Press and hold the enabling key.
3. Operate the handle according to the lift symbol on the control panel.

To activate the steering function:

1. Press the driving and steering button, which will illuminate the button.

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2. Press and hold the enabling key.
3. Use the button switch at the top of the control handle to turn the steering wheel.

NOTICE

Use the platform controller's color-coded arrow to determine the direction of the wheel rotation.

To drive the machine:

1. Press the driving and steering button. The button should illuminate.
2. Press and hold the enabling key.
3. To speed up, move the handle slowly away from the center.
4. To slow down, move the handle slowly to the center position.
5. Stopping causes the control handle to return to the center position or releases the enabling key. Use the platform controller's color-coded arrow to determine the driving direction.

NOTICE

Raising the platform and keeping it in the raised position limits the speed of the machine.

NOTICE

The state of the battery will affect the performance of the machine. When the platform display indicates a low battery, the drive speed and lift speed of the machine will decrease.

To choose an actuating speed:

1. In the retracted position, the drive controller can operate in two different drive speed modes. The slow mode activates when the light of the low-speed traveling button illuminates. The fast mode activates when the light of the low-speed traveling button is off.
2. Press the low-speed traveling button to select the desired drive speed.

NOTICE

When the platform is lifted to the point that the scissor assembly leaves the level of the high- and low-speed limit switch, the low-speed traveling button light will continually flash to indicate that the elevated drive speed is low.

To extend and retract the platform:

1. Step on the pedal.
2. Grab and push the extension platform guardrail carefully to extend the extension platform.
3. Press the pedal and pull the platform back for retraction; release the pedal to insert the end of the extension platform into the built-in slots, which will secure the extension platform.

⚠ WARNING

UNSAFE OPERATION HAZARD



Do not stand on the platform extension while extending it. Insert the end of the platform extension into the three built-in slots to secure it. Never perform operations on the platform extension when it is not secured in place with the built-in slots.

To unfold and fold the platform railings:

The platform railings are designed to fold for convenient transportation. Unfold them when you need to use them again. The machine includes a foldable railing for the platform extension and a foldable railing for the fixed platform. Fasten all parts of the railings at the appropriate positions using the four wire rope safety pins.

1. Completely lower the platform and retract the extension platform.
2. Remove the platform controller from the platform.
3. Reach into the inside of the platform and remove the front two wire rope safety pins from the platform extension. Fold the front railings of the platform extension. Keep your hands away from areas where they may be hurt, crushed or pinched.
4. Fold both sides of the railings, keeping your hands away from areas where they may be hurt, crushed or pinched.
5. Remove the two wire rope safety pins at the rear of the fixed platform.
6. Carefully open the entry door and move it onto the ladder or floor.
7. Fold the door and the right and left railings at the entrance into one unit, keeping your hands away from areas where they may be hurt, crushed or pinched.
8. Fold the railings at both sides, keeping your hands away from areas where they may be hurt, crushed or pinched.

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⚠ WARNING

UNSAFE OPERATION HAZARD

When using the platform railings, unfold them in the opposite manner in which you first folded them. Use the wire rope safety pins when unfolding the railings at each side to help ensure accurate installation.

OPERATING WITH THE PLATFORM CONTROLLER ON THE GROUND

Before operating the machine with the platform controller on the ground:

1. Keep a safe distance between the operator, machine and fixed platform.
2. Pay attention to the traveling direction of the machine when using the controller.

DRIVING ON A SLOPE

Before driving on a slope:

1. Determine the climbing ability of the machine.

   GTJZ1412E: 25% (14°)

   GTJZ1414E: 25% (14°)

   1412E Plus: 25% (14°)

2. Ensure the platform is fully folded.
3. Ensure that the slope where you plan to drive is less than the angle of the machine's climbing ability.

NOTICE

Climbing ability refers to the maximum permissible percentage of the slope when the machine is on solid ground with sufficient traction and the platform is carrying only one person. As the weight of the machine's platform increases, the machine's climbing capacity reduces.

To determine the slope:

1. Use a carpenter's rule, a straight board (longer than 1 m [3.3 ft]), and a tape measure.

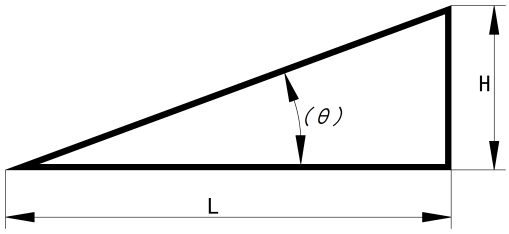


Figure 7-2

2. Measure the height and length/distance of the slope.
3. The slope measurement consists of the numbers for the height and length/distance x 100%.

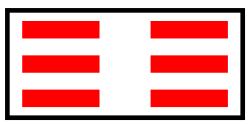
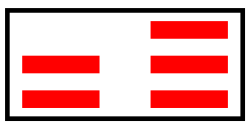
NOTICE

To avoid the wheel from dangling, the machine should not be driven for more than 2 minutes on slopes with the maximum climbing capacity allowed, and be sure that the temperature of the motor shell does not exceed 70 ℃.

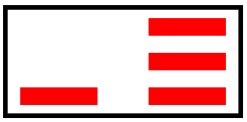
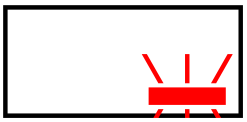
USING THE BATTERY LEVEL INDICATOR

Use the diagnostic reading display on the platform to determine the battery level.

Table 7-2

PLATFORM POWER DISPLAY	POWER RATIO	DESCRIPTION
	90-100%	The battery has been fully charged.
	70%	The battery is at 70% of its capacity.

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PLATFORM POWER DISPLAY	POWER RATIO	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 requires recharging.
	10%	The battery level is at 10%, which is very low. The machine will become slow. The battery requires recharging.

CHARGING THE BATTERY

⚠ WARNING

BATTERY HAZARDS



Always read and comply with the battery manufacturer's recommendations for procedures concerning proper battery use and maintenance.



Batteries contain sulfuric acid and generate explosive mixtures of hydrogen and oxygen gases. Keep any device that may cause sparks or flames away from the battery to prevent explosion.



Always wear protective glasses or goggles and protective clothing when working with batteries. You must follow the battery manufacturer's instructions on safety, maintenance and installation procedures.

There are three types of batteries:

- Lead acid (requires maintenance)
- Lead acid (maintenance-free)
- Lithium (maintenance-free)

To charge a maintenance-free battery:

1. Do not use an external charger.
2. Charge using the correct AC input voltage indicated on the battery's label.
3. Avoid charging the battery in direct sunlight.

Also follow these additional requirements:

1. Make sure the battery is connected to the machine before charging.
2. Connect the battery charger to a grounded AC circuit.
3. Charge the battery as needed after use.

To charge a lead-acid (requires maintenance) battery:

1. Do not use an external charger.
2. Charge the battery in a well-ventilated area.
3. Charge the battery using the correct AC input voltage indicated on the battery's label.
4. Avoid charging the battery in direct sunlight.

Also follow these additional requirements:

1. Make sure the battery is connected to the machine before charging.
2. Remove the ventilation cover of the lead-acid battery.
3. Check the acidic liquid level of the lead-acid battery. If needed, refill the distilled water through a filling line above the lead-acid battery. Only add enough distilled water to cover the plate. Never overfill during charging.
4. Install the ventilation cover.
5. Connect the lead-acid battery charger to the grounded AC circuit.
6. The charger indicates when the lead-acid battery is fully charged.
7. Check the acid level of the lead-acid battery at the end of the charging cycle. Add distilled water to the

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bottom of the tube. Never overfill the tube at the end of the charging cycle.

CHANGING CHARGER BATTERY CURVE

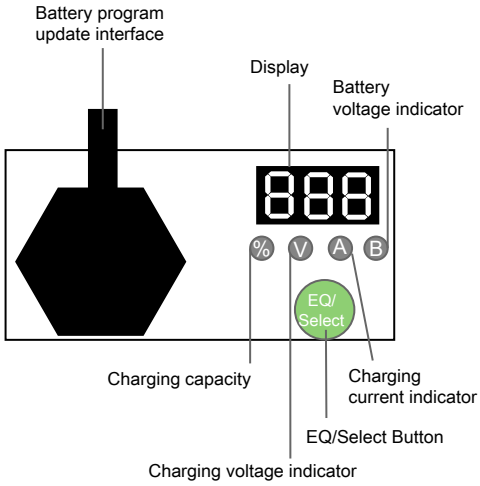


Figure 7-3

To switch the curve:

1. Press and hold the Select key for 5s and release, the display will indicate the current curve code.
2. Press gently for 1s and release to switch the charging curve codes.
3. After selection of charging curve code, press and hold Select key for 5s, the charging curve code will flash quickly, release the key, and the battery curve has been configured.
4. Repeat the steps above if re-change is needed.

To enter EQ mode manually:

1. Press and hold Select key for 10s, when the display shows EQ in quick flashing, release the key and the charger has been set in EQ mode.
2. To exit the EQ mode, likewise, press and hold the Select key for 10s, when the display shows OFF in quick flashing, release the key and the charger will exit the EQ mode.

Charger in-built curve codes and respective battery models

Table 7-3

Curve codes	Battery models
B02	Trojan T105
B04	Discover AGM
B05	US Battery Flooded
B07	Trojan T125
B11	Trojan T1275 (two in series and two in tandem)

Note: the default curve code is B02.

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8 TRANSPORTING AND LIFTING THE MACHINE

⚠ WARNING

TRANSPORTATION AND LIFTING HAZARD

- **Use a forklift or crane with the proper lifting capacity to lift the machine. Use good judgment and a planned movement to control the machine.**
- **Transport vehicles must be parked on level ground.**
- **Be sure to prevent the transportation vehicle from moving when loading the machine. Refer to *1 Performance Parameters, page 1-1*.**
- **Ensure that the vehicle capacity, loading surface, belts or ropes are sufficient to support the weight of the machine.**
- **Be sure the machine is on a horizontal plane or fixed before releasing the brakes.**
- **When removing the wire rope safety pin, prevent the guardrail from falling. The guardrail must be held tight at all times when descending.**
- **Never transport people on the machine while the machine is being towed or while the machine is engaged in towing or lifting operations.**
- **When using a forklift or crane to lift the machine, pay attention to prevent the machine from colliding with nearby objects.**
- **Lock the wheels of the machine after it has been installed to prevent the machine from rolling.**

NOTICE

*Do not pull/drag the machine unless an emergency, failure or loss of power occurs. Refer to **Using the Emergency Pull/Drag Feature, page 7-1**.*

LIFTING THE MACHINE WITH A FORKLIFT

Follow these requirements when lifting the machine by forklift:

1. Make sure the platform extension, controller and chassis components are stable. Remove all loose parts from the machine.
2. Fully lower the platform. Keep the platform down during transportation.
3. Use the forklift slots on the rear or side of the chassis

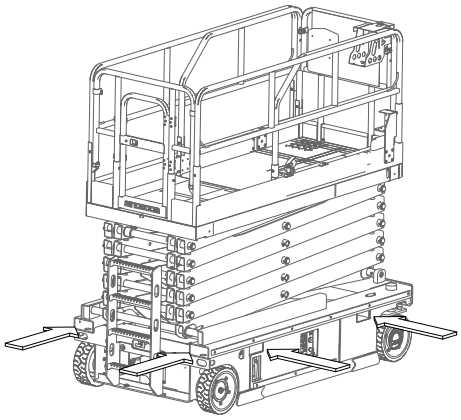


Figure 8-1

4. The forklift fork must align with the position of the forklift slots.
5. Drive forward to the fork frame to insert it fully into the slots.
6. Lift the machine by 16 in. (0.4 m) and then tilt the fork backward slightly to keep the machine stable.
7. Keep the machine horizontal when lowering the fork frame.

NOTICE

Failure to use the forklift slot while lifting machine will result in component damage.

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LIFTING THE MACHINE WITH A CRANE

Follow these requirements when lifting the machine by crane:

1. Fully lower the platform. Keep the platform down during transportation.
2. Make sure the platform extension, controller and chassis components are stable.
3. Remove all loose parts from the machine.
4. Determine the center of gravity of the machine.

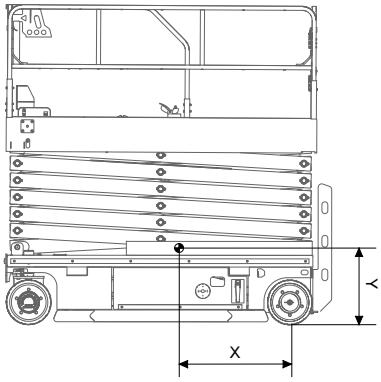


Figure 8-2

Table 8-1

Models	X	Y
GTJZ1412E	1093 mm (43 in.)	750 mm (29.5 in.)
GTJZ1414E	1077 mm (42 in.)	771 mm (30.4 in.)
1412E Plus	1093 mm (43 in.)	750 mm (29.5 in.)

5. Lift the machine according to the following figure.

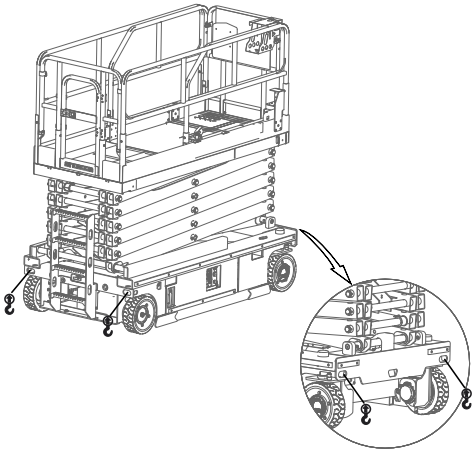


Figure 8-3

6. Only connect the rigging to the raised point specified on the machine. Adjust the rigging to avoid damaging the machine and to keep the machine horizontal.

NOTICE

To protect the platform guardrail, choose the appropriate length of spreader.

TRANSPORTING THE MACHINE

Obey the following requirements when transporting the machine using trucks or trailers:

1. Before transporting, turn the key switch of the ground controller to the OFF position and then remove the key.
2. Inspect the machine thoroughly for loose parts.
3. Ensure the rope or belt has sufficient load strength.
4. Use at least two ropes or straps.
5. Adjust the rigging to prevent damage to the rope or belt.

NOTICE

During transportation, retract the extension platform so that the extension platform is secure at the slots. Ensure that the extension platform cannot extend or shake out of the main platform during transportation.

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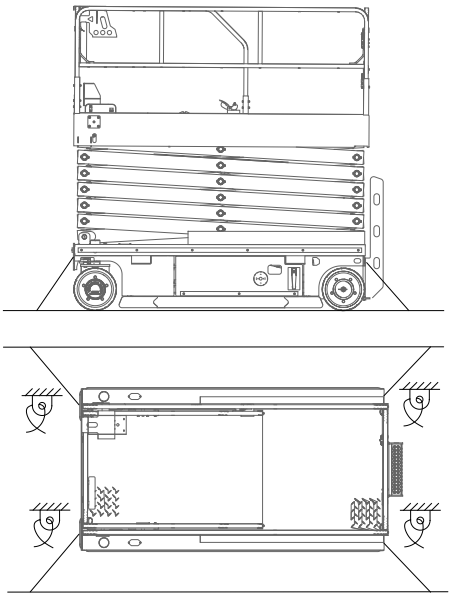


Figure 8-4

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9 MAINTENANCE

This section provides detailed procedures for regular maintenance inspections.

⚠ WARNING

UNSAFE OPERATION HAZARD



Failure to follow the proper maintenance may result in death, serious injury or damage to the machine.

Follow these general rules:

- Professionally trained, qualified personnel must conduct routine maintenance inspections on this machine.
- Daily routine maintenance inspections must occur during normal operation of the machine. Maintenance inspectors must carry out inspection and maintenance according to the repair & inspection report listed in ***Table 9-3 , page 9-3*** and must complete the repair & inspection report.
- Regular maintenance inspections must occur by operators and at quarterly, biannual and annual intervals by qualified, trained personnel. Qualified, trained personnel must check and maintain the machine according to the repair & inspection report listed in ***Table 9-3 , page 9-3*** and must complete the repair & inspection report.
- Immediately remove a damaged or malfunctioning machine, mark it and stop using it.
- Repair any damaged or malfunctioning machine before operating it.
- Keep all machine inspection records for at least 10 years or until the machine is no longer in use or as required by machine owner/company/custodian.
- Conduct a quarterly inspection on machines that have been out of service for a period lasting longer than three months.
- While maintaining the machine, replace any parts on the machine using the same parts or the same parts of the original machine.
- Unless otherwise specified, perform all maintenance procedures according to the following terms and conditions:
  - Park the machine on flat, level, firm ground.
  - Keep the machine in the stowed position.
  - Ensure the key switch of the ground controller is in the OFF position and remove the key to prevent unauthorized use of the machine.
  - Place the red emergency stop button on the platform control box and ground controller in the OFF position to avoid accidental start-up of the operating system.
  - Disconnect main power switch.
  - Disconnect all DC power from the machine.
  - Lock all wheels to prevent movement of the machine.
  - Before releasing or removing the hydraulic components, release the hydraulic oil pressure in the hydraulic pipeline.

CONDUCTING A PRE-DELIVERY INSPECTION

When the machine owner/company changes, in addition to conducting a pre-delivery inspection, the corresponding inspection shall be carried out according to the maintenance schedule requirement and repair & inspection report. When conducting a pre-delivery inspection, comply with the following requirements:

1. It is the responsibility of the machine owner/company to perform a pre-delivery inspection.
2. Follow this procedure each time before delivery. Performing a pre-delivery inspection could reveal potential problems with the machine before you begin putting the machine into service.
3. Never use a damaged or malfunctioning machine. Tag the machine and do not use it.
4. Only professionally trained, qualified personnel may repair the machine and must follow the procedures as stated in *operation manual* and *maintenance manual*.
5. A competent operator must conduct daily maintenance on this machine as stated in *operation manual* and *maintenance manual*.

Before delivering the machine, complete the following record using these instructions:

1. Prepare the machine before delivery, which includes performing a pre-delivery inspection, following maintenance procedures and performing functional inspections.

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2. Use the following table to note the results. After each section is complete, mark the appropriate box.
3. Record the inspection results. If any inspection results are "NO", the machine must be stopped and re-inspected after repair is completed and marked in the box marked "inspection".

Table 9-1

PREPARE THE WORK RECORD BEFORE DELIVERY			
Model			
Serial No.			
Inspection Item	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**
Pre-operational Inspection			
Maintenance Procedure			
Functional Inspection			
Machine Buyer/ Renter			
Inspector Signature			
Inspector Title			
Inspector Company			

FOLLOWING A MAINTENANCE SCHEDULE

Regular maintenance inspections must occur daily, quarterly, biannually (every 6 months) and annually. Use the table to help you adhere to a routine maintenance schedule.

Table 9-2

INSPECTION INTERVAL	INSPECTION PROCEDURES
Every day or every 8 hours	A
Every quarter or every 250 hours	A+B
Every half a year or every 500 hours	A+B+C
Every year or every 1000 hours	A+B+C+D

COMPLETING A REPAIR & INSPECTION REPORT

1. Divide the Repair & Inspection Report into four sections (A, B, C and D) according to the time requirements of the maintenance schedule and the maintenance procedure requirements.
2. The Repair & Inspection Report shall include the inspection table of each regular inspection.
3. Duplicate the Repair & Inspection Report for each inspection. Store the completed tables for 10 years or until the machine is no longer in use or as required by machine owner/company/custodian.
4. Use the following table to note the results. After each section is complete, mark the appropriate box.
5. Record the inspection results. If any inspection results are "NO", the machine must be stopped and re-inspected after repair is completed and marked in the box marked "inspection". Select the appropriate inspection procedure based on the inspection type.

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Table 9-3

REPAIR & INSPECTION REPORT				
Model				
Serial No.				
Checklist A Procedures				
Items	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**	**Problem Description**
A-1 Inspect All Manuals				
A-2 Inspect All Decals				
A-3 Inspect Damaged, Loose or Lost Parts				
A-4 Inspect Hydraulic Oil Level				
A-5 Inspect Hydraulic Oil Leakage				
A-6 Functional Tests				
A-7 Inspect Emergency Lowering Function				
A-8 Test Braking Device				
A-9 Full Lifting and Full Lowering Time Test				
A-10 Testing Traveling Speed (Platform is Lifted State)				
A-11 Testing Traveling Speed (Platform is Fully Retracted State)				
A-12 Inspect the Tilt Protection Function				
A-13 Test the Pothole Guard				
A-14 Inspect Platform Weighing System(optional)				
A-15 Inspect the Raised Limit Function				
A-16 Inspect Platform Lowering Limit				
A-17 Inspect the battery level				
A-18 Perform Maintenance After 30 Days				
Checklist B Procedures				

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REPAIR & INSPECTION REPORT				
Items	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**	**Problem Description**
B-1 Inspect Electric Wires				
B-2 Inspect Rim ,Tire and Fasteners				
B-3 Inspect Battery				
B-4 Inspect Hydraulic Oil				
B-5 Inspect Hydraulic Oil Tank Ventilation System				
B-6 Inspect Brake Manual Release Function				
Checklist C Procedures				
Items	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**	**Problem Description**
C-1 Replace Hydraulic Oil Tank Air Filter				
Checklist D Procedures				
Items	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**	**Problem Description**
D-1 Inspect Scissor Arm Installation Bearing				
D-2 Inspect Chassis Slider				
D-3 Replace Hydraulic Oil Tank Return Oil Filter Element				
D-4 Inspect and Replace Hydraulic Oil				
D-5 Inspect Key Structural Parts				

User	
Inspector Signature	
Inspector Date	
Inspector Title	
Inspector Company	

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10 DECALS/NAMEPLATES INSPECTION

Use appropriate inspection methods to check that all decals are easy to identify and properly placed.

Replace any lost or damaged safety decals.

Clean safety decals with neutral soap and water. Do not use solvent-based cleaners, which can damage safety label materials.

Do not operate machines without decals/nameplates.

⚠ WARNING

UNSAFE OPERATION HAZARD



All safety labels must be legible to alert personnel of safety hazards. Replace any illegible or missing labels immediately. Safety labels removed during any repair work must be replaced in their original position before the engine is placed back into service. Do not operate the engine if there are missing or badly worn safety labels.

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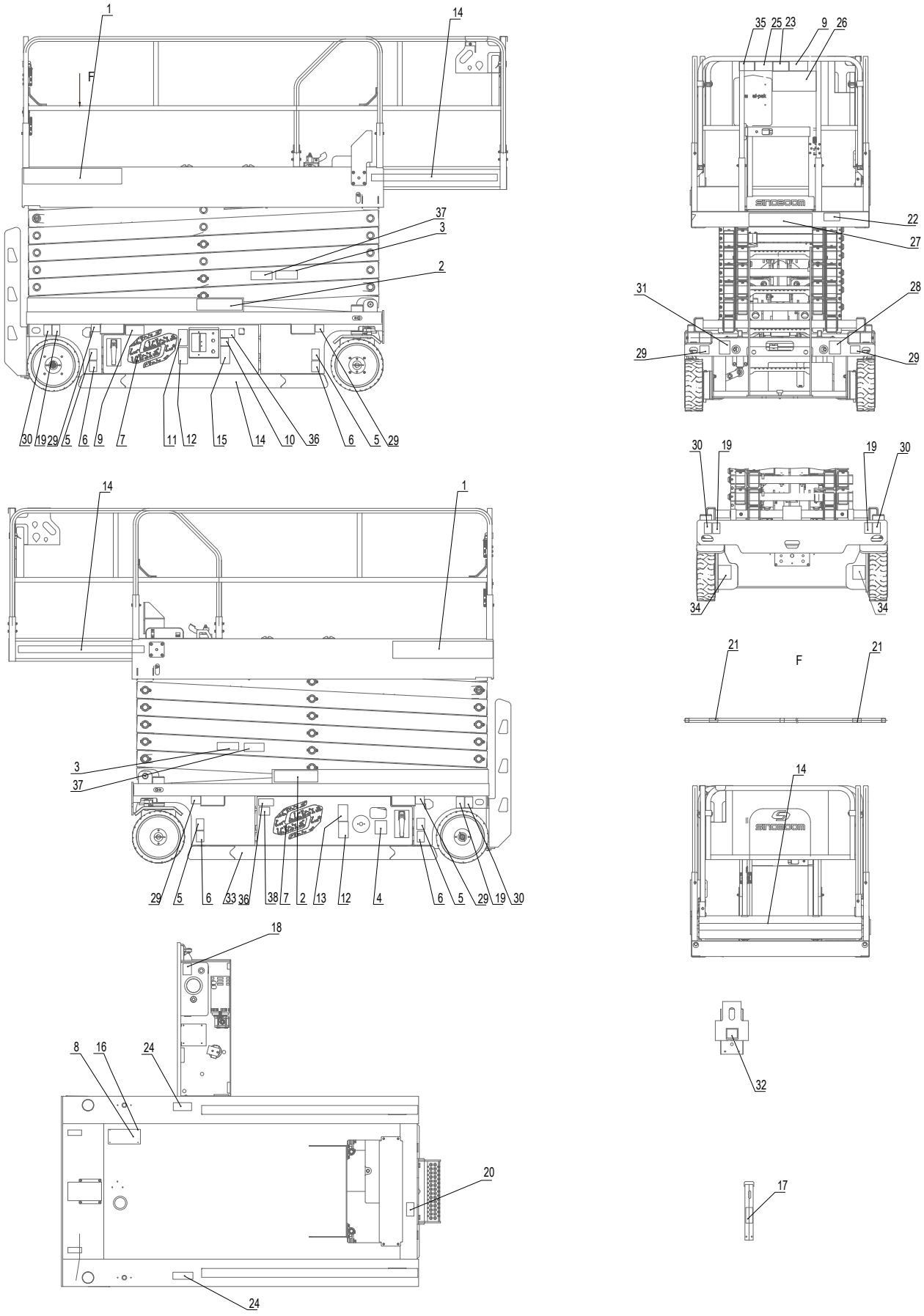
GTJZ1412E&1414E DECALS/NAMEPLATES(KCS)

NO.	Part NO.	Description	Qty	Remarks
	101047103003	Decals-GTJZ1412E(KCS)	1	
	101050103003	Decals-GTJZ1414E(KCS)	1	
1	101046100009	Decal-SINOBOOM	2	
2	101047103001	Decal-GTJZ1412E	2	
	101050103001	Decal-GTJZ1414E	2	
3	101012100018	Decal-Crush hazard	2	
4	101016100031	Decal-Main power switch	1	
5	101046100002	Decal-Wheel maximum load 1200kg(2646 lb)	4	
6	101014100013	Decal-Crush hazard	4	
7	101014100033	Logo, white	2	
8	101015100026	Nameplate (KCS)	1	
9	101014100023	Decal-Electrocution hazard	2	
10	101014100018	Decal-Platform up/down button	1	
11	101014100015	Decal-High-pressure fluids hazard	1	
12	101014100014	Decal-No firework	2	
13	101014100016	Decal-Electrocution hazard	1	
14	216060000004	Attention line, 50mm wide	4	
15	101014100017	Decal-Read manuals	1	
16	215050000012	Blind rivet 4×8-ZnD GB/T 12618.2	4	
17	101014100026	Decal-Engage the safety arm	2	
18	101014100022	Decal-Oil filling port	1	
19	101014100021	Decal-Tiedown	4	
20	101012100011	Decal-Emergency down	1	
21	101016100030	Decal-Lanyard anchorage points	4	
22	101058103001	Decal-IPAF	1	
23	101012100007	Decal-Tipping hazard	1	
24	101014100032	Decal-Serial number	2	
25	101012100027	Decal-Read manuals	1	
26	101047103000	Decal-Use condition(GTJZ1412E)	1	
	101050103002	Decal-Use condition(GTJZ1414E)	1	
27	101047103002	Decal-Use condition(GTJZ1412E)	1	
	101050103000	Decal-Use condition(GTJZ1414E)	1	
28	101014100007	Decal-Platform electrical plug	1	
29	101012100026	Decal-Forklift pockets	6	
30	101014100020	Decal-Lifting lugs	4	

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NO.	Part NO.	Description	Qty	Remarks
31	101014100008	Decal-Charging voltage	1	
32	101055103015	Decal-Emergency stop switch	1	
33	216060000003	Attention line, 100mm wide	3	
34	101040103008	Decal-Release brake	2	
35	101012100019	Decal-Tipping hazard	1	
36	101012100008	Decal-Tipping hazard	2	
37	101012100029	Decal-Crush hazard	2	
38	101039103017	Decal-Battery weight 160kg(353 lb)	1	

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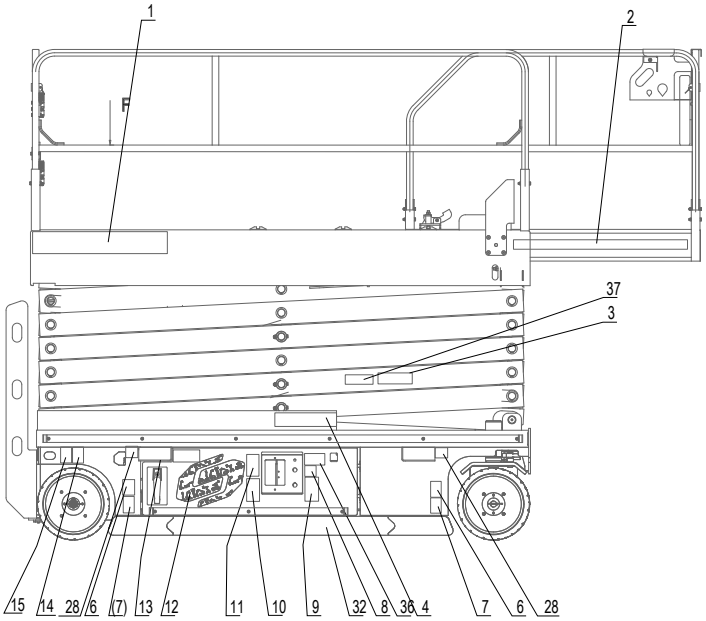
GTJZ1412E&1414E DECALS/NAMEPLATES(CE)

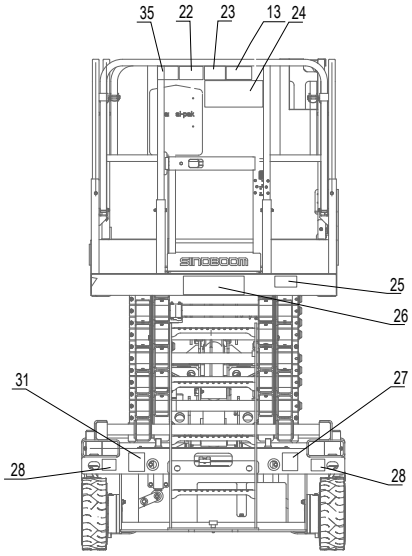
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	101047103006	Decals-GTJZ1412E(CE)	1	
	101050103006	Decals-GTJZ1414E(CE)	1	
1	101046100009	Decal-SINOBOOM	2	
2	216060000004	Attention line, 50mm wide	4	
3	101012100018	Decal-Crush hazard	2	
4	101047103001	Decal-GTJZ1412E	2	
	101050103001	Decal-GTJZ1414E	2	
5	101016100031	Decal-Main power switch	1	
6	101046100002	Decal-Wheel maximum load 1200kg(2646 lb)	4	
7	101014100013	Decal-Crush hazard	4	
8	101014100018	Decal-Platform up/down button	1	
9	101014100017	Decal-Read manuals	1	
10	101014100014	Decal-No firework	2	
11	101014100015	Decal-High-pressure fluids hazard	1	
12	101014100033	Logo, white	2	
13	101014100023	Decal-Keep away telegraph pole	2	
14	101014100021	Decal-Tiedown	4	
15	101014100020	Decal-Lifting lugs	4	
16	101014100026	Decal-Engage the safety arm	2	
17	101014100016	Decal-Electrocution hazard	1	
18	101014100022	Decal-Oil filling port	1	
19	101014100032	Decal-Serial number	2	
20	215050000012	Blind rivet 4×8-ZnD GB/T 12618.2	4	
21	101012100037	Nameplate-CE	1	
22	101012100027	Decal-Read manuals	1	
23	101012100007	Decal-Tipping hazard	1	
24	101047103000	Decal-Use condition(GTJZ1412E)	1	
	101050103002	Decal-Use condition(GTJZ1414E)	1	
25	101058103001	Decal-IPAF	1	
26	101047103002	Decal-Use condition(GTJZ1412E)	1	
	101050103000	Decal-Use condition(GTJZ1414E)	1	
27	101014100007	Decal-Platform electrical plug	1	
28	101012100026	Decal-Forklift pockets	6	
29	101016100030	Decal-Lanyard anchorage points	4	

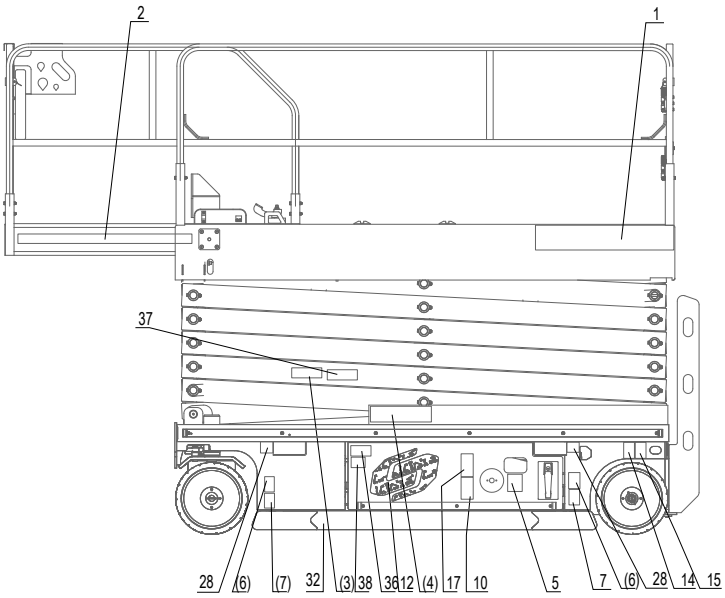
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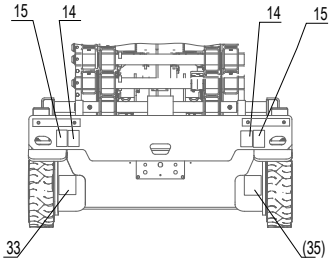
NO.	Part NO.	Description	Qty	Remarks
30	101012100011	Decal-Emergency down	1	
31	101014100008	Decal-Charging voltage	1	
32	216060000003	Attention line, 100mm wide	3	
33	101040103008	Decal-Release brake	2	
34	101055103015	Decal-Emergency stop switch	1	
35	101012100019	Decal-Tipping hazard	1	
36	101012100008	Decal-Tipping hazard	2	
37	101012100029	Decal-Crush hazard	2	
38	101039103017	Decal-Battery weight 160kg(353 lb)	1	

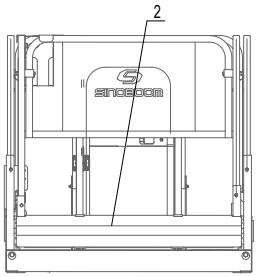
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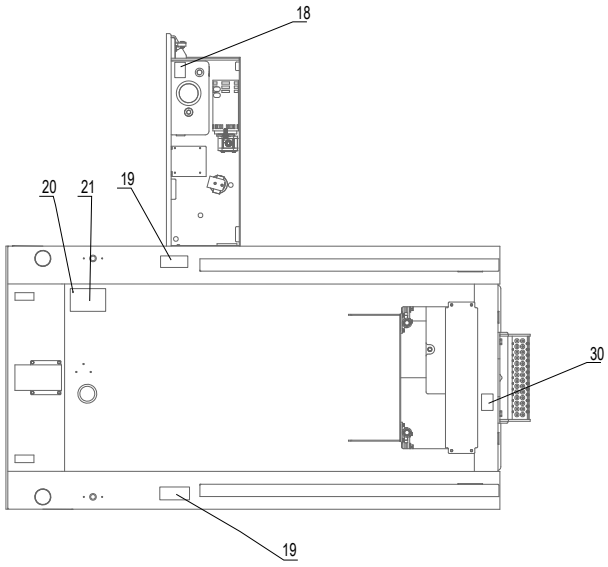


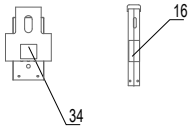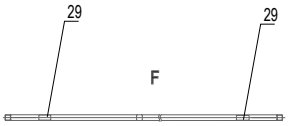














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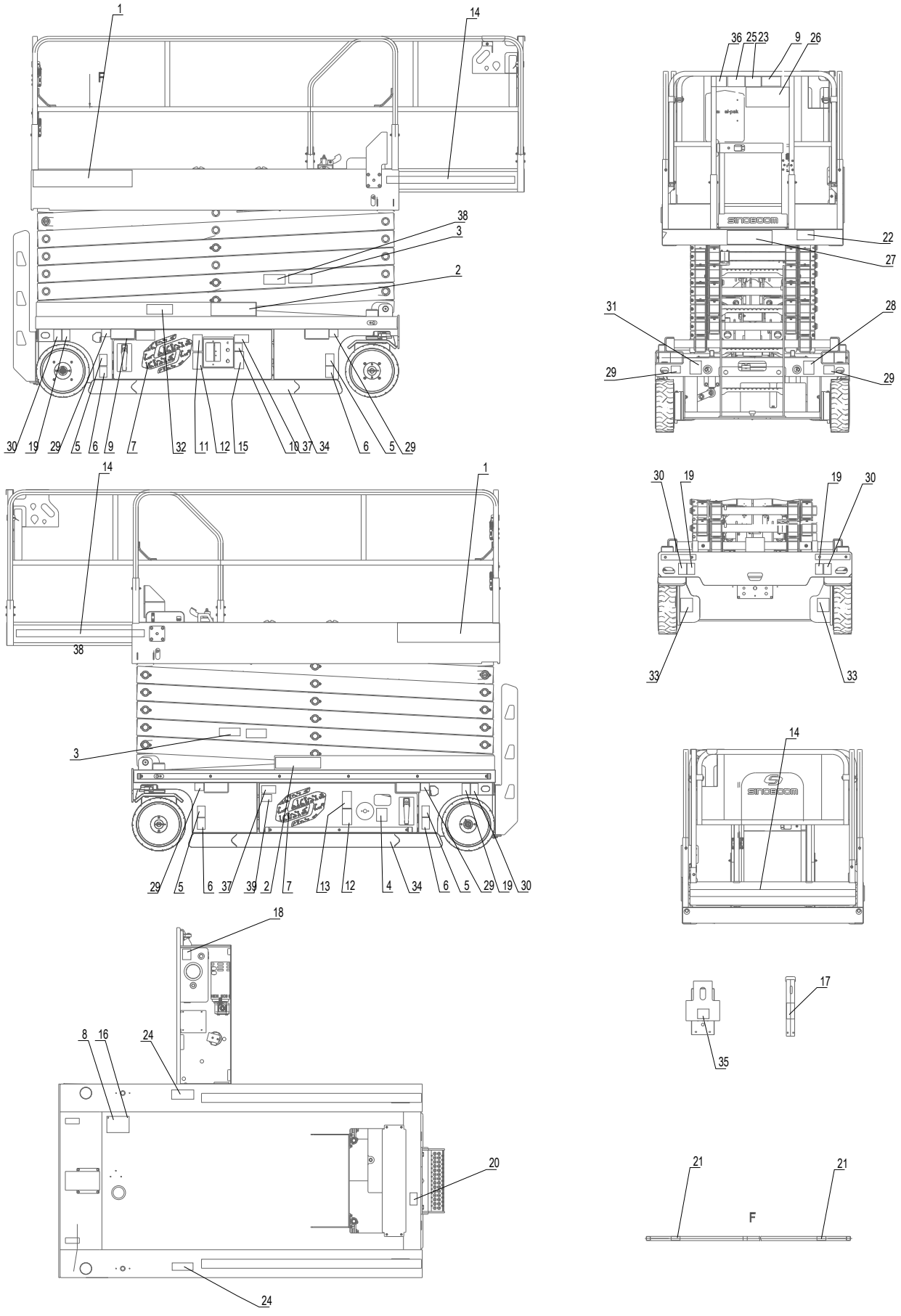
GTJZ1412E&1414E DECALS/NAMEPLATES(CE-PL)

NO.	Part NO.	Description	Qty	Remarks
	101047103004	Decals-GTJZ1412E(CE-PL)	1	
	101050103004	Decals-GTJZ1414E(CE-PL)	1	
1	101046100009	Decal-SINOBOOM	2	
2	101047103001	Decal-GTJZ1412E	2	
	101050103001	Decal-GTJZ1414E	2	
3	101012100018	Decal-Crush hazard	2	
4	101016100031	Decal-Main power switch	1	
5	101047103009	Decal-Wheel maximum load 1200kg(2646 lb)	4	
6	101014100013	Decal-Crush hazard	4	
7	101014100033	Logo, white	2	
8	101012100037	Nameplate-CE	1	
9	101014100023	Decal-Keep away telegraph pole	2	
10	101014100018	Decal-Platform up/down button	1	
11	101014100015	Decal-High-pressure fluids hazard	1	
12	101014100014	Decal-No firework	2	
13	101014100016	Decal-Electrocution hazard	1	
14	216060000004	Attention line, 50mm wide	4	
15	101014100017	Decal-Read manuals	1	
16	215050000012	Blind rivet 4×8-ZnD GB/T 12618.2	4	
17	101014100026	Decal-Engage the safety arm	2	
18	101014100022	Decal-Oil filling port	1	
19	101014100021	Decal-Tiedown	4	
20	101012100011	Decal-Emergency down	1	
21	101016100030	Decal-Lanyard anchorage points	4	
22	101058103001	Decal-IPAF	1	
23	101012100007	Decal-Tipping hazard	1	
24	101014100032	Decal-Serial number	2	
25	101012100027	Decal-Read manuals	1	
26	101047103000	Decal-Use condition(GTJZ1412E)	1	
	101050103002	Decal-Use condition(GTJZ1414E)	1	
27	101047103002	Decal-Use condition(GTJZ1412E)	1	
	101050103000	Decal-Use condition(GTJZ1414E)	1	
28	101014100007	Decal-Platform electrical plug	1	
29	101012100026	Decal-Forklift pockets	2	

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NO.	Part NO.	Description	Qty	Remarks
30	101014100020	Decal-Lifting lugs	4	
31	101014100008	Decal-Charging voltage	1	
32	101058103000	Logo, white	1	
33	101040103008	Decal-Release brake	2	
34	216060000003	Attention line, 100mm wide	3	
35	101055103015	Decal-Emergency stop switch	1	
36	101012100019	Decal-Tipping hazard	1	
37	101012100008	Decal-Tipping hazard	2	
38	101012100029	Decal-Crush hazard	2	
39	101039103017	Decal-Battery weight 160kg(353 lb)	1	

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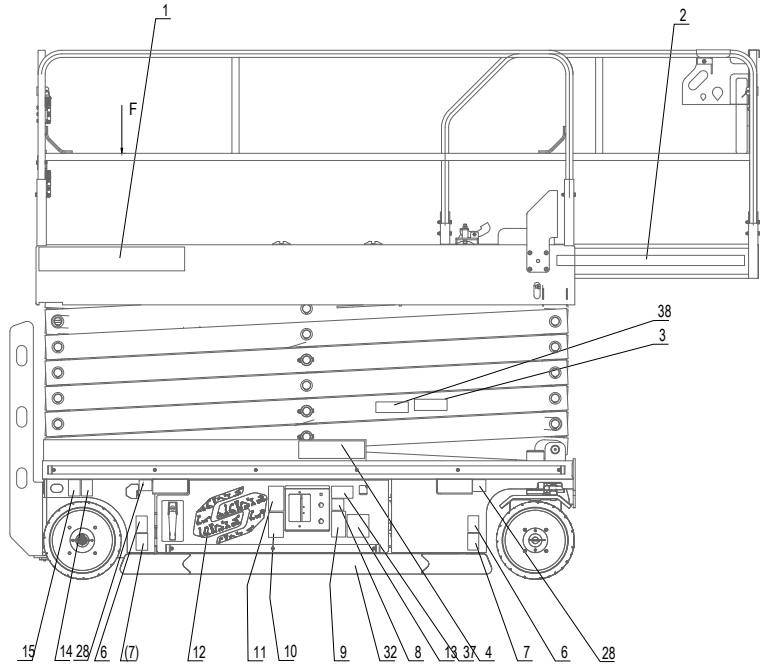
GTJZ1412E&1414E DECALS/NAMEPLATES(AS)

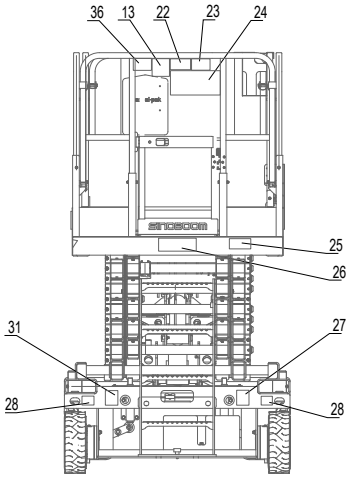
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	101047103007	Decals-GTJZ1412E(AS)	1	
	101050000001	Decals-GTJZ1414E(AS)	1	
1	101046100009	Decal-SINOBOOM	2	
2	216060000004	Attention line, 50mm wide	4	
3	101012100018	Decal-Crush hazard	2	
4	101047103001	Decal-GTJZ1412E	2	
	101050103001	Decal-GTJZ1414E	2	
5	101016100031	Decal-Emergency stop switch	1	
6	101046100002	Decal-Wheel maximum load 1200kg(2646 lb)	4	
7	101014100013	Decal-Crush hazard	4	
8	101014100018	Decal-Platform up/down button	1	
9	101014100017	Decal-Read manuals	1	
10	101014100014	Decal-No firework	2	
11	101014100015	Decal-High-pressure fluids hazard	1	
12	101014100033	Logo, white	2	
13	101055103019	Decal-Keep away telegraph pole	2	
14	101014100021	Decal-Tiedown	4	
15	101014100020	Decal-Lifting lugs	4	
16	101014100026	Decal-Engage the safety arm	2	
17	101014100016	Decal-Electrocution hazard	1	
18	101014100022	Decal-Oil filling port	1	
19	101014100032	Decal-Serial number	2	
20	215050000012	Blind rivet 4×8-ZnD GB/T 12618.2	4	
21	101012100038	Nameplate-AS	1	
22	101012100027	Decal-Read manuals	1	
23	101012100007	Decal-Tipping hazard	1	
24	101047103000	Decal-Use condition(GTJZ1412E)	1	
	101050103002	Decal-Use condition(GTJZ1414E)	1	
25	101058103001	Decal-IPAF	1	
26	101049103000	Decal-Use condition, GTJZ1412E	1	
	101050103000	Decal-Use condition(GTJZ1414E)	1	
27	101014100007	Decal-Platform electrical plug	1	
28	101012100026	Decal-Forklift pockets	6	
29	101016100030	Decal-Tiedown	4	
30	101012100011	Decal-Emergency down	1	

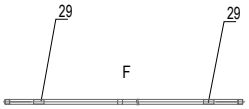
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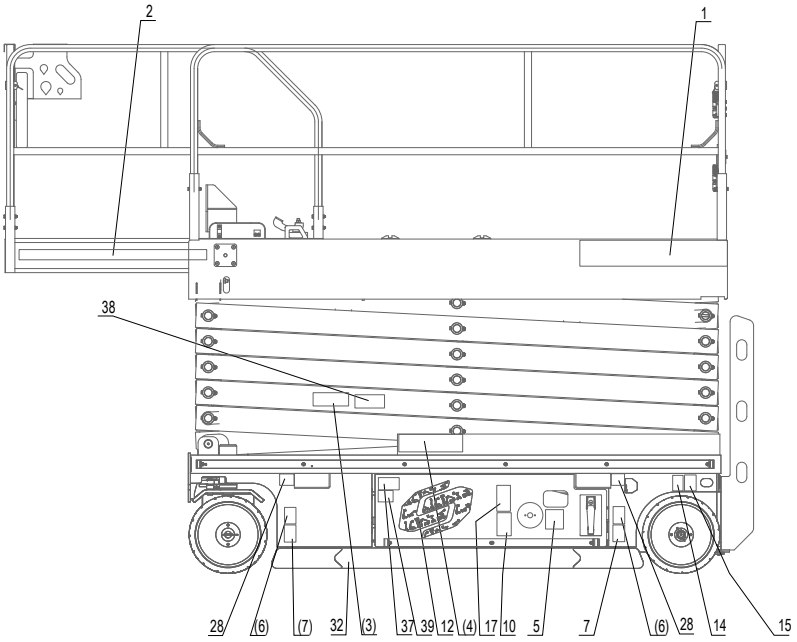
NO.	Part NO.	Description	Qty	Remarks
31	101014100008	Decal-Charging voltage	1	
32	216060000003	Attention line, 100mm wide	3	
33	101040103008	Decal-Release brake	2	
34	101055103015	Decal-Emergency stop switch	1	
35	101040103014	Decal-Detachable bracket	1	
36	101012100019	Decal-Tipping hazard	1	
37	101012100008	Decal-Tipping hazard	2	
38	101012100029	Decal-Crush hazard	2	
39	101039103017	Decal-Battery weight 160kg(353 lb)	1	

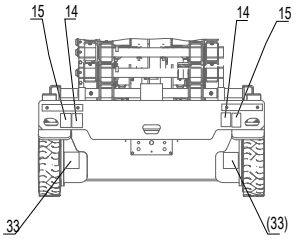
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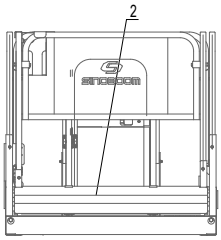


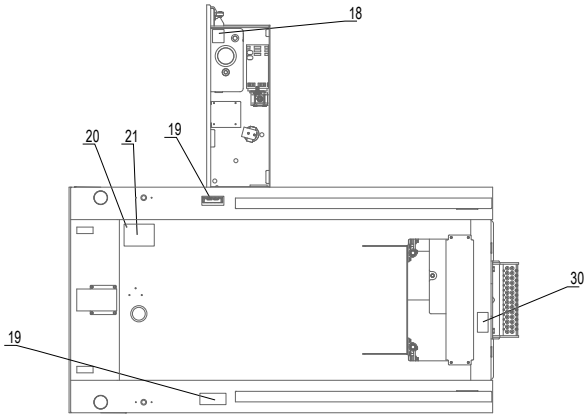


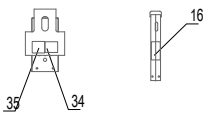












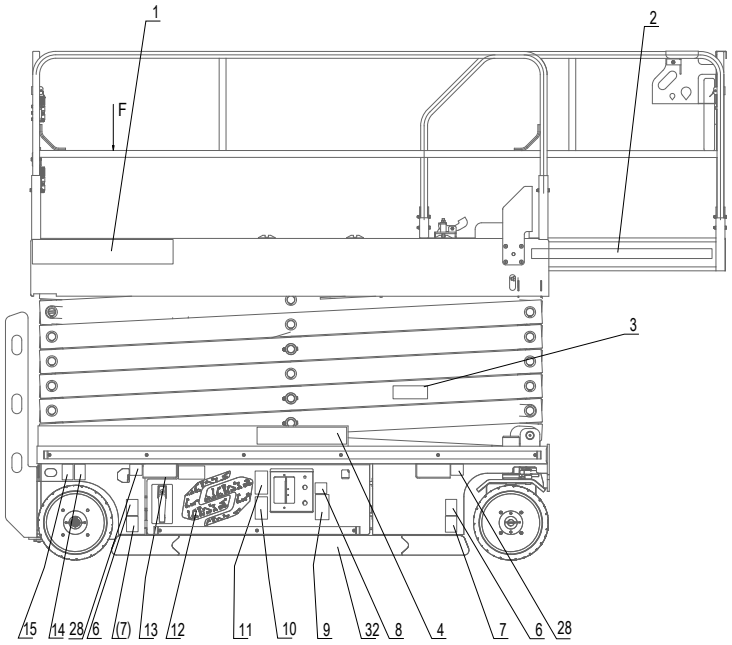
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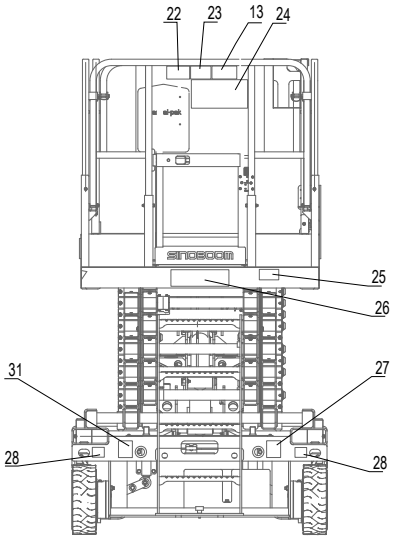
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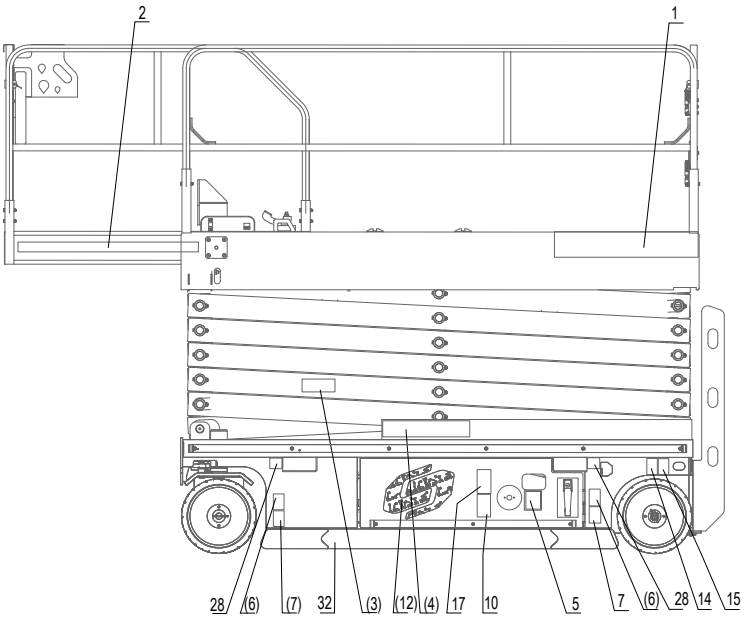
1412E PLUS DECALS/NAMEPLATES(CE)

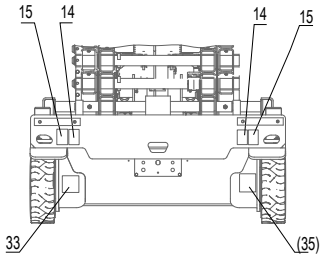
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	101060103004	Decals-1412E Plus(CE)	1	
1	101046100009	Decal-SINOBOOM	2	
2	216060000004	Attention line, 50mm wide	4	
3	101012100018	Decal-Crush hazard	2	
4	101060103008	Decal-1412E Plus	2	
5	101016100031	Decal-Main power switch	1	
6	101046100002	Decal-Wheel maximum load 1200kg(2646 lb)	4	
7	101014100013	Decal-Crush hazard	4	
8	101014100018	Decal-Platform up/down button	1	
9	101014100017	Decal-Read manuals	1	
10	101014100014	Decal-No firework	2	
11	101014100015	Decal-High-pressure fluids hazard	1	
12	101014100033	Logo, white	2	
13	101014100023	Decal-Keep away telegraph pole	2	
14	101014100021	Decal-Tiedown	4	
15	101014100020	Decal-Lifting lugs	4	
16	101014100026	Decal-Engage the safety arm	2	
17	101014100016	Decal-Electrocution hazard	1	
18	101014100022	Decal-Oil filling port	1	
19	101014100032	Decal-Serial number	2	
20	215050000001	Blind rivet 4×8-ZnD GB/T 12618.2	4	
21	101015100014	Nameplate-CE	1	
22	101012100027	Decal-Read manuals	1	
23	101012100007	Decal-Tipping hazard	1	
24	101060103001	Decal-Use condition(1412E Plus)	1	
25	101058103001	Decal-IPAF	1	
26	101060103005	Decal-Use condition(1412E Plus)	1	
27	101014100007	Decal-Platform electrical plug	1	
28	101012100026	Decal-Forklift pockets	6	
29	101016100030	Decal-Lanyard anchorage points	4	
30	101012100011	Decal-Emergency down	1	
31	101014100008	Decal-Charging voltage	1	
32	216060000003	Attention line, 100mm wide	3	
33	101040103008	Decal-Release brake	2	
34	101055103015	Decal-Emergency stop switch	1	
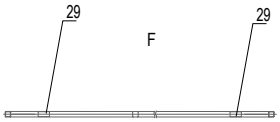
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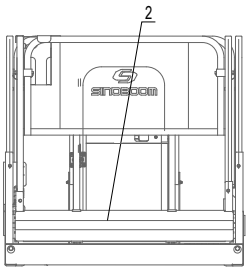


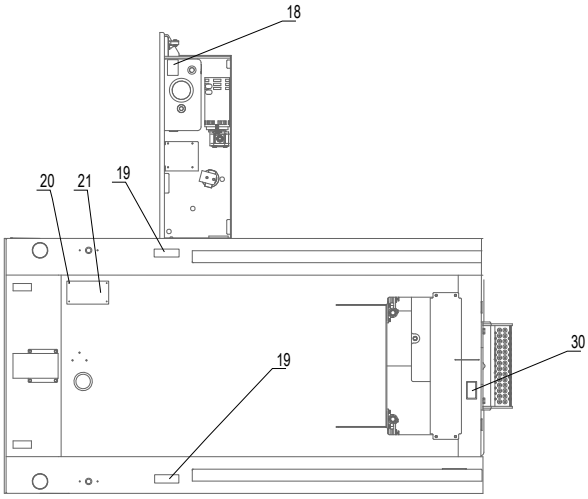


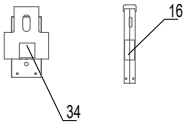












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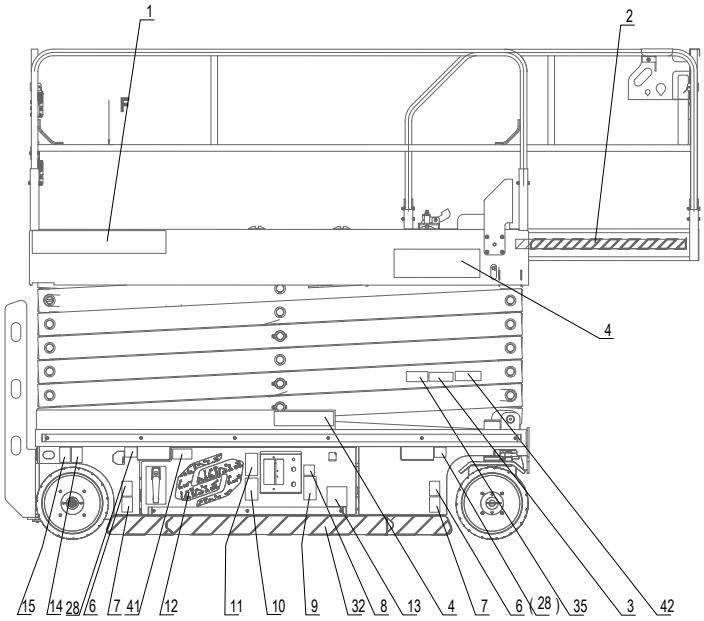
GTJZ1412E&1414E&1412E PLUS DECALS/NAMEPLATES(CSA)

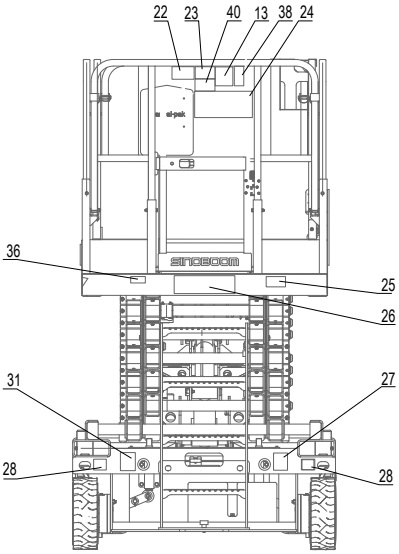
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	101050103014	Decals-GTJZ1414E(CSA)	1	
	101060103012	Decals-1412E Plus(CSA)	1	
1	101046100009	Decal-SINOBOOM	2	
2	216060000004	Attention line, 50mm wide	4	
3	101012100018	Decal-Crush hazard	2	
4	101047103001	Decal-GTJZ1412E	2	
	101050103001	Decal-GTJZ1414E	2	
	101060103013	Decal-4647E Plus	2	
5	101016100031	Decal-Main power switch	1	
6	101046100002	Decal-Wheel maximum load 1200kg(2646 lb)	4	
7	101014100013	Decal-Crush hazard	4	
8	101014100018	Decal-Platform up/down button	1	
9	101014100017	Decal-Read manuals	1	
10	101014100014	Decal-No firework	2	
11	101014100015	Decal-High-pressure fluids hazard	1	
12	101014100033	Logo, white	2	
13	101055103019	Decal-Electrocution hazard	2	
14	101014100021	Decal-Tiedown	4	
15	101014100020	Decal-Lifting lugs	4	
16	101014100026	Decal-Engage the safety arm	2	
17	101014100016	Decal-Electrocution hazard	1	
18	101014100022	Decal-Oil filling port	1	
19	101014100032	Decal-Serial number	2	
20	215050000012	Blind rivet 4×8-ZnD GB/T 12618.2	4	
21	101048103022	Nameplate-CSA	1	
22	101012100027	Decal-Read manuals	1	
23	101012100007	Decal-Tipping hazard	1	
24	101047103000	Decal-Use condition(GTJZ1412E)	1	
	101050103002	Decal-Use condition(GTJZ1414E)	1	
	101060103001	Decal-Use condition(1412E Plus)		
25	101058103001	Decal-IPAF	1	
26	101047103002	Decal-Use condition(GTJZ1412E)	1	
	101050103000	Decal-Use condition(GTJZ1414E)	1	
	101060103005	Decal-Use condition(1412E Plus)	1	

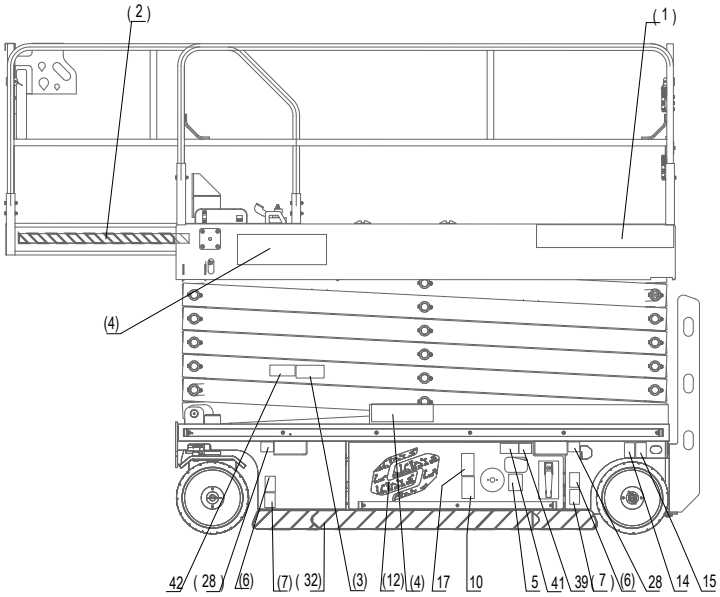
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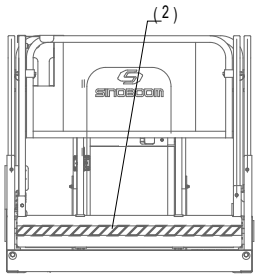
NO.	Part NO.	Description	Qty	Remarks
27	101014100007	Decal-Platform electrical plug	1	
28	101012100026	Decal-Forklift fork position	6	
29	101016100030	Decal-Lanyard anchorage points	4	
30	101012100011	Decal-Emergency down	1	
31	101014100008	Decal-Charging voltage	1	
32	216060000003	Attention line, 100mm wide	3	
33	101040103008	Decal-Release brake	2	
34	101055103015	Decal-Emergency stop switch	1	
35	104011100021	Decal-Read manuals	1	
36	101040103015	Decal-Annual inspection time	1	
37	101040103014	Decal-Detachable bracket	1	
38	101048103023	Decal-Operating instructions	1	
39	101012100023	Decal-Tipping hazard	1	
40	101012100019	Decal-Tipping hazard	1	
41	101012100008	Decal-Tipping hazard	2	
42	101012100029	Decal-Crush hazard	2	

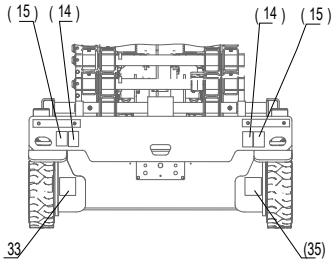
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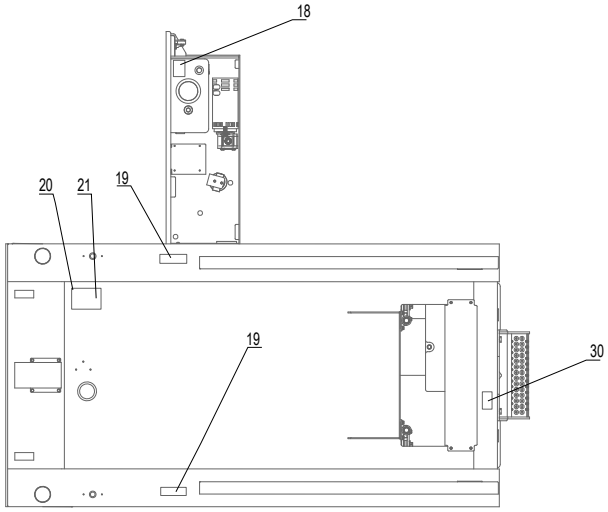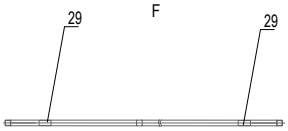




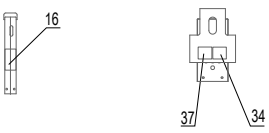








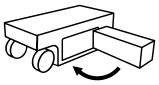
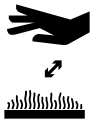
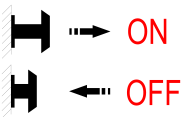
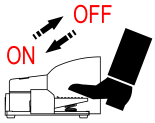
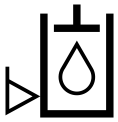
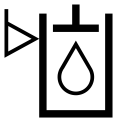
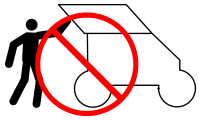
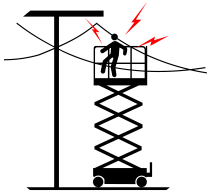
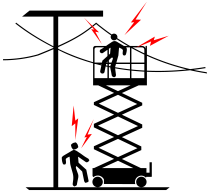
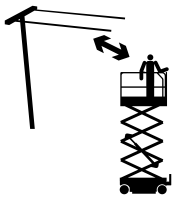
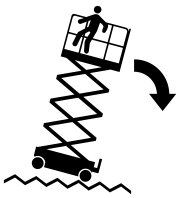
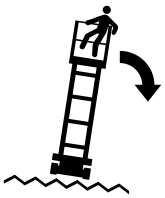




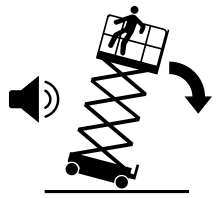
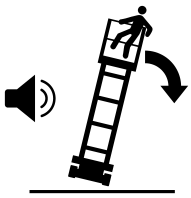
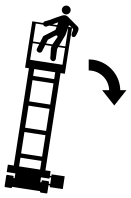
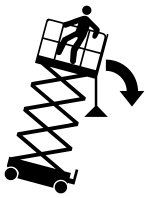
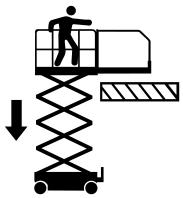
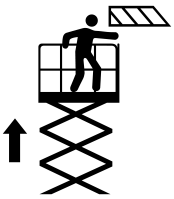
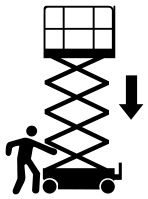
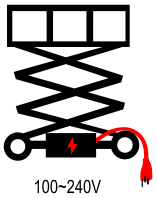
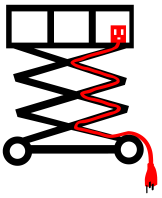
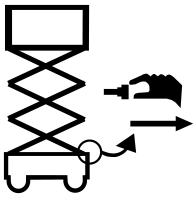
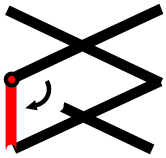
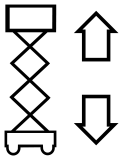
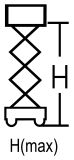
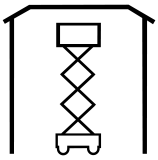
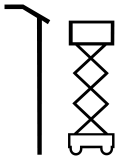
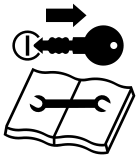
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APPENDIX 1: SYMBOLS AND DESCRIPTION

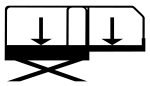
SYMBOLS CHART

 Read maintenance manual	 Anchor point allows only 1 person to tie	 Close the chassis door box	 Press the change valve	 Repeatedly move manual brake release valve
 Wind speed	 Chemical burns hazards	 Wedge the wheel	 Release the brake	 Wind
 Noise level	 Burns hazards	 Keep a safe distance from high temperatures	 Pull out-open Press-close	 Step-open Release-close
 Hydraulic oil level - low position	 Hydraulic oil level - high position	 Temperature	 Change the tires of the same specification	 Only trained maintenance personnel can access the bulkhead
 Read operation manual	 Add lubricant	 Crushing hazard-Please wear work shoes	 Danger of hot, high pressure fluids	 Collision hazards-Release brake on ramp
 Electrocution hazards on platform	 Electrocution hazards on the ground and platform	 Keep a safe distance from power lines	 Tip-over hazards-Avoid uneven ground	 Tip-over hazards-Avoid uneven ground

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 Tip-over hazards-Never use machine during strong, gusty wind	 Tip-over hazards-Never use machine during strong, gusty wind	 Tip-over hazards-Never leave chassis door open	 Tip-over hazards-Never push or pull objects outside platform	 Tip-over hazards-Never suspend objects from platform
 Tip-over hazards-Never place ladders and scaffolding on the platform	 Collision hazards-Never lower extended platform without checking for nearby obstacles	 Collision hazards-Never raise platform without checking for overhead obstacles	 Crushing hazards-Keep hands away form nearby obstacles when raising platform	 Crushing hazards-Keep hands away form scissor arms when lowering platform
 Fall hazards-Never climb on guardrails of platform	 Fall hazards-Never climb on scissor arms	 Battery charging plug	 Platform power plug	 Emergency lowering handle position
 Open the safety arm	 The platform moves up and down	 Maximum height of platform	 Indoor use	 Outdoor use
 The side force	 Electrocution hazards	 Wear protective clothing and glasses	 Battery explosion hazard	 No smoking
 No smoking	 Only professional maintenance personnel can start the maintenance	 Improve point	 Lashing points	 Tire to ground load

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 Forklift fork position	 Platform carrying capacity	 Carrying capacity of fixed and extended platform	 Hydraulic oil filler	 Horn
 Tool or weight	 Fast/high speed	 Slow/low speed		

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APPENDIX 2: PREPARE THE WORK RECORD BEFORE DELIVERY

PREPARE THE WORK RECORD BEFORE DELIVERY			
Model			
Serial No.			
Inspection Item	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**
Pre-operational Inspection			
Maintenance Procedure			
Functional Inspection			
Machine Buyer/ Renter			
Inspector Signature			
Inspector Title			
Inspector Company			

NOTE:

1. Prepare the machine before delivery, which includes performing a pre-delivery inspection, following maintenance procedures and performing functional inspections.
2. Use the table to record the results. After each section is complete, mark the appropriate box.
3. Record the inspection results. If any inspection results are "NO", the machine must be stopped and re-inspected after repair is completed and marked in the box marked "inspection".

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APPENDIX 3: REPAIR & INSPECTION REPORT

REPAIR & INSPECTION REPORT					
Model					
Serial No.					
Checklist A Procedures					
Items	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**	**Problem Description**	
A-1 Inspect All Manuals					
A-2 Inspect All Decals					
A-3 Inspect Damaged, Loose or Lost Parts					
A-4 Inspect Hydraulic Oil Level					
A-5 Inspect Hydraulic Oil Leakage					
A-6 Functional Tests					
A-7 Inspect Emergency Lowering Function					
A-8 Test Braking Device					
A-9 Full Lifting and Full Lowering Time Test					
A-10 Testing Traveling Speed (Platform is Lifted State)					
A-11 Testing Traveling Speed (Platform is Fully Retracted State)					
A-12 Inspect the Tilt Protection Function					
A-13 Test the Pothole Guard					
A-14 Inspect Platform Weighing System(optional)					
A-15 Inspect the Raised Limit Function					
A-16 Inspect Platform Lowering Limit					
A-17 Inspect the battery level					

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REPAIR & INSPECTION REPORT

A-18 Perform Maintenance After 30 Days				
Checklist B Procedures				
Items	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**	**Problem Description**
B-1 Inspect Electric Wires				
B-2 Inspect Rim ,Tire and Fasteners				
B-3 Inspect Battery				
B-4 Inspect Hydraulic Oil				
B-5 Inspect Hydraulic Oil Tank Ventilation System				
B-6 Inspect Brake Manual Release Function				
Checklist C Procedures				
Items	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**	**Problem Description**
C-1 Replace Hydraulic Oil Tank Air Filter				
Checklist D Procedures				
Items	**YES/Machine is in Good Condition**	**NO/Machine Has Damage or Malfunction**	**REPAIRED/Machine Has Been Repaired**	**Problem Description**
D-1 Inspect Scissor Arm Installation Bearing				
D-2 Inspect Chassis Slider				
D-3 Replace Hydraulic Oil Tank Return Oil Filter Element				
D-4 Inspect and Replace Hydraulic Oil				
D-5 Inspect Key Structural Parts				

User	
Inspector Signature	
Inspector Date	

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REPAIR & INSPECTION REPORT	
Inspector Title	
Inspector Company	

NOTES:

1. The Repair & Inspection Report shall include the inspection table of each regular inspection.
2. Duplicate the Repair & Inspection Report for each inspection. Store the completed tables for 10 years or until the machine is no longer in use or as required by machine owner/company/custodian.
3. Use the table to record the results. After each section is complete, mark the appropriate box.
4. Record the inspection results. If any inspection results are "NO", the machine must be stopped and re-inspected after repair is completed and marked in the box marked "inspection".

Select the appropriate inspection procedure based on the inspection type.

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Always for Better Access Solutions

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