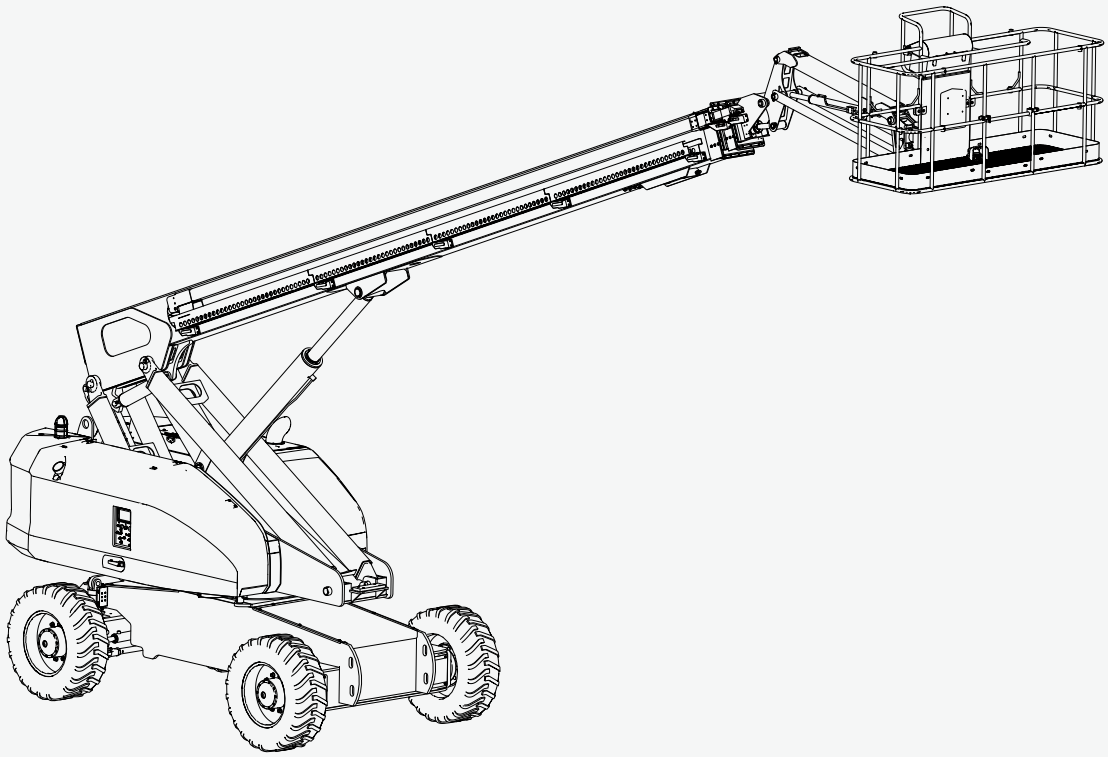
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Part No.505031100002
Rev: A
Aug 2020

Operation Manual

GTBZ26/TB26/TB850
GTBZ28J/TB28J/TB910J



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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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Manual revision history：

REV	DATE	DESCRIPTION	REMARK
A	Aug, 2020	Original issue of the manual	

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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 of the *Operation Manual* for details.)

Model	Trade Identification		Serial No.
	Metric	Imperial	
GTBZ26	TB26	TB850	From 0503100100 to present
GTBZ28J	TB28J	TB910J	From 0503200400 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.

Hunan Sinoboom Intelligent Equipment Co., Ltd. retains the right of final interpretation of the manual.

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TABLE OF CONTENTS

Introduction v

1 Performance Parameters 1-1

2 Machine Components 2-1

3 Safety 3-1

Safety Definitions 3-1
Reporting Accidents..... 3-1
Electrocution Hazards..... 3-1
Tipping Hazards and Rated Load 3-2
Work Environment Hazards..... 3-4
Unsafe Operation Hazards..... 3-5
Fall Hazards..... 3-7
Collision Hazards 3-7
Crush Hazards 3-8
Explosion and Fire Hazards..... 3-9
Damaged Machine Hazards 3-9
Bodily Injury Hazards 3-9
Battery Hazards..... 3-9
Welding and Polishing Requirements 3-10
After Using the Machine..... 3-11

4 Jobsite Inspection..... 4-1

5 Pre-operation Inspection 5-1

Tips for Conducting a Pre-operation Inspection 5-1
Conducting a Pre-operation Inspection 5-2
Inspecting Parts..... 5-2
Inspecting Entire Machine 5-2
Inspect Hydraulic Oil Level..... 5-2
Inpsecting Fuel Level 5-3
Inspecting Engine Oil Level 5-4
Inspecting Coolant Level..... 5-5
Inspecting the Battery..... 5-6

6 Pre-operation Function Test .. 6-1

Preparing for a Pre-operation Function Test..... 6-1
Testing the Ground Controller..... 6-1
Testing ground controller 6-4
Testing the horn..... 6-4
Testing the engine start function 6-4
Testing the emergency stop function 6-4
Testing the Ground/Platform select function 6-4
Testing the enable function 6-5
Testing the boom up/down function. 6-5
Testing the main boom telescope function 6-5
Testing the turntable rotate function 6-5
Testing the platform level function .. 6-5
Testing the platform rotate function . 6-6
Testing jib up/down function-GTBZ28J 6-6
Testing jib rotate function-GTBZ28J (if equipped) 6-6
Testing the emergency power function 6-6
Testing the engine high/low speed select function 6-6
Testing the buzzer function 6-6
Testing the engine preheat function (if equipped) 6-7
Testing the Platform Controller..... 6-7
Testing platform controller 6-9
Testing the footswitch..... 6-9
Testing the horn..... 6-9
Testing the engine start function 6-9
Testing the emergency stop function 6-10
Testing the drive function 6-10

https://truckmanualshub.com/

Testing the steer function 6-10
Testing the drive high/low speed select function 6-10
Testing the main boom up/down function 6-11
Testing the main boom telescope function 6-11
Testing the turntable rotate function 6-11
Testing the platform level fuction...6-11
Testing the platform rotate function 6-12
Testing the jib up/down function-GTBZ28J 6-12
Testing the jib rotate function-GTBZ28J (if equipped) 6-12
Testing the emergency power function 6-12
Testing the engine high/low speed select function 6-12
Testing the rear detection fuction ..6-12
Testing the reverse drive function..6-13
Testing the buzzer function 6-13
Testing the system distress alert function 6-13
Testing the overload alert function .6-13
Testing the tilt alart function.....6-13
Testing the angle sensor malfunction alart function 6-13
Testing the length sensor malfunction alart function 6-13
Testing the hydraulic generator function (if equipped) 6-14
Testing the engine preheat function (if equipped) 6-14
Testing the anti-pinch/soft touch unlock function (if equipped).....6-14
Testing the machine stowed function (if equipped) 6-14
Testing the steer mode select function (if equipped) 6-14
Tesing the outrigger telescope function (if equipped) 6-14
Testing the work lamp (if equipped)6-14
Testing the X/Y drive function (if equipped).....6-15
Testing the Floating Outrigger (if Equipped) 6-15
Testing the Drive Speed.....6-15
Testing the Emergency Lowering Function.....6-15
Testing the Tilt Protection System....6-16
Testing the Weighing System 6-16

7 Operating the Machine 7-1

Stability..... 7-1
Emergency Stop 7-3
Emergency Lowering 7-3
Emergency Operating..... 7-3
Emergency Towing/Dragging 7-3
Operation from Ground 7-4
Operation from Platform 7-5
Driving on a Slope..... 7-6

8 Transporting and Lifting the Machine..... 8-1

Lifting the Machine with a Crane 8-2
Transporting the Machine 8-3

9 Maintenance 9-1

Conducting a Pre-delivery Inspection . 9-1
Following a Maintenance Schedule ... 9-2
Completing a Repair & Inspection Report..... 9-2

10 Decals/Nameplates Inspection 10-1

Decals/Nameplates-GB 10-2
Decals/Nameplates-CE.....10-5
Decals/Nameplates-ANSI 10-8
Decals/Nameplates-CSA 10-11

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Appendix 1: Symbols and Description..... A-1

Appendix 2: Prepare the Work Record Before Delivery A-3

Appendix 3: Repair & Inspection Report A-5

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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 GTBZ26 specifications

MEASURE	GTBZ26 (METRIC)	TB850 (IMPERIAL)
DIMENSION PARAMETERS		
Max platform height	25.8 m	84 ft 8 in
Max working height	27.8 m	91 ft 2.5 in
Max horizontal reach	20.4 m	66 ft 11 in
Overall length(stowed)	11.54 m	37 ft 10 in
Overall width(stowed)	2.49 m	8 ft 2 in
Overall height (stowed)	2.88 m	9 ft 5 in
Wheelbase	3.0 m	9 ft 10 in
Ground clearance	0.41 m	1 ft 4 in
Tire size (spec / type)	Options 385 / 65-24 / 10 (solid) 12.00-20 / 8.5 (solid) 385 / 65-22.5 (foam-filled)	
Platform dimension (L×W×H)	Options 1.45×0.85×1.1 m 1.83×0.85×1.1 m 2.44×0.91×1.1 m	Options 57×33.5×43.3 in 72×33.5×43.3 in 96×36×43.3 in
PERFORMANCE PARAMETERS		
Platform capacity	250 kg (unrestricted / 2 persons & tools) 480 kg (restricted / 2 persons & tools)	551 lb (unrestricted / 2 persons & tools) 1058 lb (restricted / 2 persons & tools)
Turntable rotation / continuous	360° / continuous	
Platform rotation	160°	
Max drive speed (stowed)	5.2 km / h (2WD) 4.4 km / h (4WD)	3.2 mph (2WD) 2.7 mph (4WD)
Max drive speed (raised)	0.8 km / h	0.5 mph
Drive mode (drive×steer)	Options 2WD×2WS 4WD×2WS	
Gradeability	30% / 17° (2WD) 45% / 24° (4WD)	
Turntable tailswing	1.46 m	4 ft 9.5 in
Max allowable inclination	5°	
Turning radius (inside)	2.44 m	8 ft

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Table 1-1 GTBZ26 specifications (continued)

MEASURE	GTBZ26 (METRIC)	TB850 (IMPERIAL)
Turning radius (outside)	5.84 m	19 ft 2 in
Max allowable side force	400 N	90 lbf
Max operating noise level	82 dB	
IP grade	IP54	
POWER PARAMETERS		
Engine (rated power, rated rpm)	54 Kw, 2400 rpm (Cummins) 55.4 Kw, 2300 rpm (Deutz)	
Hydraulic tank capacity	170 L	37.4gal (Imperial) / 45gal (US)
Fuel tank capacity	160 L	35.2gal (Imperial) / 42.3 gal (US)
Hydraulic system pressure	28 MPa	4061 Psi
Battery (number×voltage, capacity)	2×12V, 110Ah	
System voltage	12 VDC	
Control voltage	12 VDC	
GROUND BEARING DATA		
Max tire load	8755 kg	19301 lb
Pressure against ground	16.7 kPa	2.42 Psi
ENVIRONMENT REQUIREMENT		
Max allowable wind speed	12.5 m / s	28 mph
Max allowable altitude	1000 m	3280 ft
Allowable ambient temperature (lead-acid battery)	-10℃ ~ 40℃	14℉ ~ 104℉
Allowable ambient temperature (-lithium battery)	-20℃ ~ 40℃	-4℉ ~ 104℉
Max allowable RH	90%	
Storage environment	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,inflammables and explosives.	
WEIGHT		
Gross weight (unladen)2WD	16442 kg	36248 lb
Gross weight (unladen)4WD	16532 kg	36447 lb

Note：
a) The working height adds 2m(6ft7in) of human height to platform height。
b) The ground bearing data is approximate value, not factoring the different options,thus it serves only in adequately safe conditions
c) In different areas, hydraulic oil, engine oil, coolant, fuel and lubrication should be added in accordance with the environmental temperature.
d) In cold weather, auxiliary devices are needed to start the machines

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Table 1-2 GTBZ28J specifications

MEASURE	GTBZ28J (Metric)	TB910J (Imperial)
DIMENSION PARAMETERS		
Max platform height	27.7 m	90 ft 10.5 in
Max working height	29.7 m	97 ft 5 in
Max horizontal reach	20.0 m	65 ft 7.5 in
Overall length(stowed)	13.22 m	43 ft 4.5 in
Overall width(stowed)	2.49 m	8 ft 2 in
Overall height (stowed)	2.88 m	9 ft 5 in
Wheelbase	3.0 m	9 ft 10 in
Ground clearance	0.41 m	1 ft 4 in
Tire size (spec / type)	Options 385 / 65-24 / 10 (solid) 12.00-20 / 8.5 (solid) 385 / 65-22.5 (foam-filled)	
Platform dimension (L×W×H)	Options 1.45×0.85×1.1 m 1.83×0.85×1.1 m 2.44×0.91×1.1 m	Options 57×33.5×43.3 in 72×33.5×43.3 in 96×36×43.3 in
PERFORMANCE PARAMETERS		
Platform capacity	250 kg (unrestricted / 2 persons & tools)	551 lb (unrestricted / 2 persons & tools)
Turntable rotation / continuous	360° / continuous	
Platform rotation	160°	
Max drive speed (stowed)	5.2 km / h (2WD) 4.4 km / h (4WD)	3.2 mph (2WD) 2.7 mph (4WD)
Max drive speed (raised)	0.8 km / h	0.5 mph
Drive mode (drive×steer)	Options 2WD×2WS 4WD×2WS	
Gradeability	30% / 17° (2WD) 45% / 24° (4WD)	
Turntable tailswing	1.46 m	4 ft 9.5 in
Max allowable inclination	5°	
Turning radius (inside)	2.44 m	8 ft
Turning radius (outside)	5.84 m	19 ft 2 in
Max allowable side force	400 N	90 lbf
Max operating noise level	82 dB	
IP grade	IP54	
POWER PARAMETERS		

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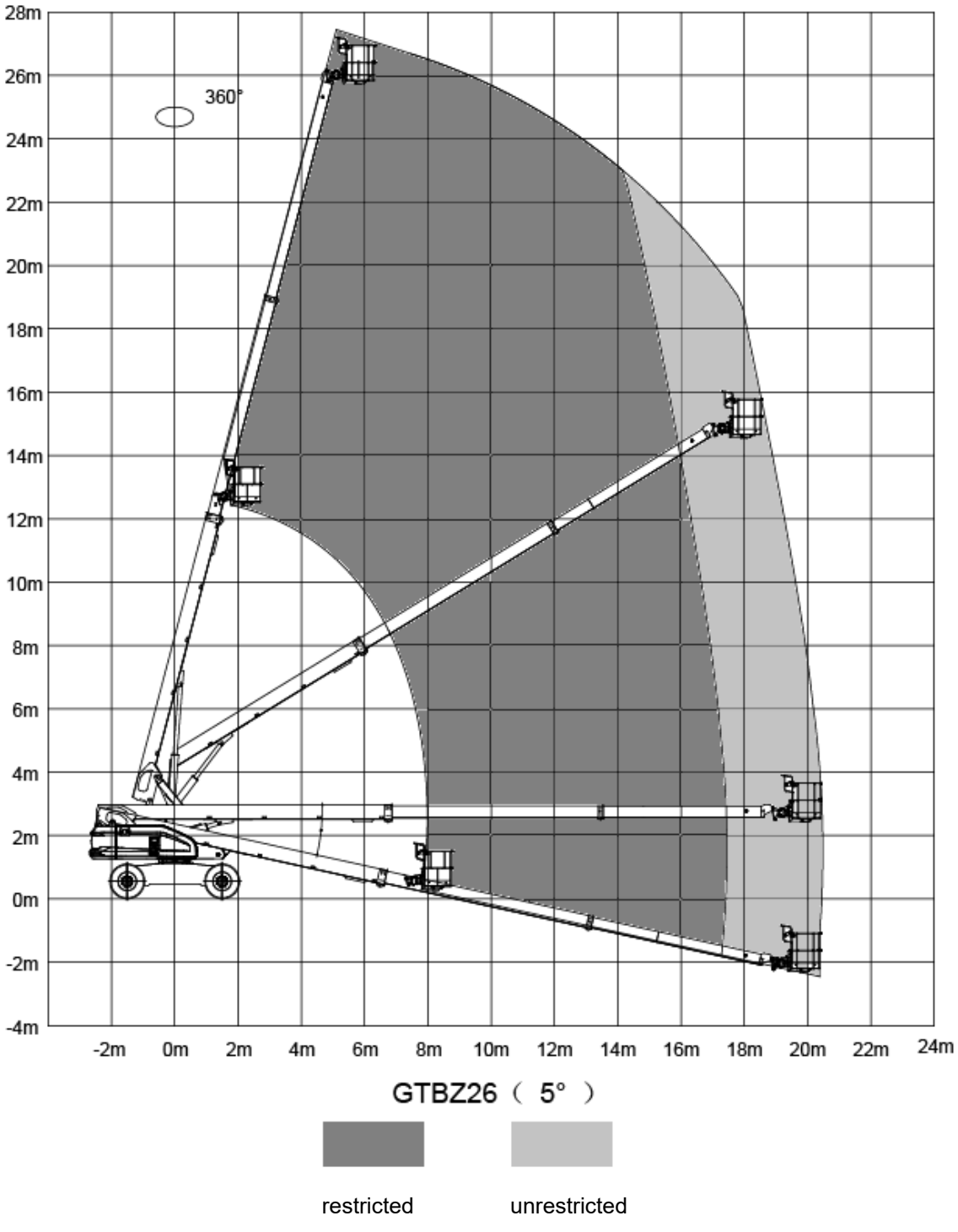
Table 1-2 GTBZ28J specifications (continued)

MEASURE	GTBZ28J (Metric)	TB910J (Imperial)
Engine (rated power, rated rpm)	54 Kw, 2400 rpm (Cummins) 55.4 Kw, 2300 rpm (Deutz)	
Hydraulic tank capacity	170 L	37.4 gal (Imperial) / 45 gal (US)
Fuel tank capacity	160 L	35.2gal (Imperial) / 42.3 gal (US)
Hydraulic system pressure	28 MPa	4061 Psi
Battery (number×voltage, capacity)	2×12V, 110Ah	
System voltage	12 VDC	
Control voltage	12 VDC	
GROUND BEARING DATA		
Max tire load	8755 kg	19301 lb
Pressure against ground	16.7 kPa	2.42 Psi
ENVIRONMENT REQUIREMENT		
Max allowable wind speed	12.5 m / s	28 mph
Max allowable altitude	1000 m	3280 ft
Allowable ambient temperature (lead-acid battery)	-10℃ ~ 40℃	14℉ ~ 104℉
Allowable ambient temperature (-lithium battery)	-20℃ ~ 40℃	-4℉ ~ 104℉
Max allowable RH	90%	
Storage environment	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,inflammables and explosives.	
WEIGHT		
Gross weight (unladen) 2WD	16581 kg	36555 lb
Gross weight (unladen) 4WD	16671 kg	36753 lb

Note：
a) The working height adds 2m(6ft7in) of human height to platform height。
b) The ground bearing data is approximate value, not factoring the different options,thus it serves only in adequately safe conditions
c) In different areas, hydraulic oil, engine oil, coolant, fuel and lubrication should be added in accordance with the environmental temperature.
d) In cold weather, auxiliary devices are needed to start the machines

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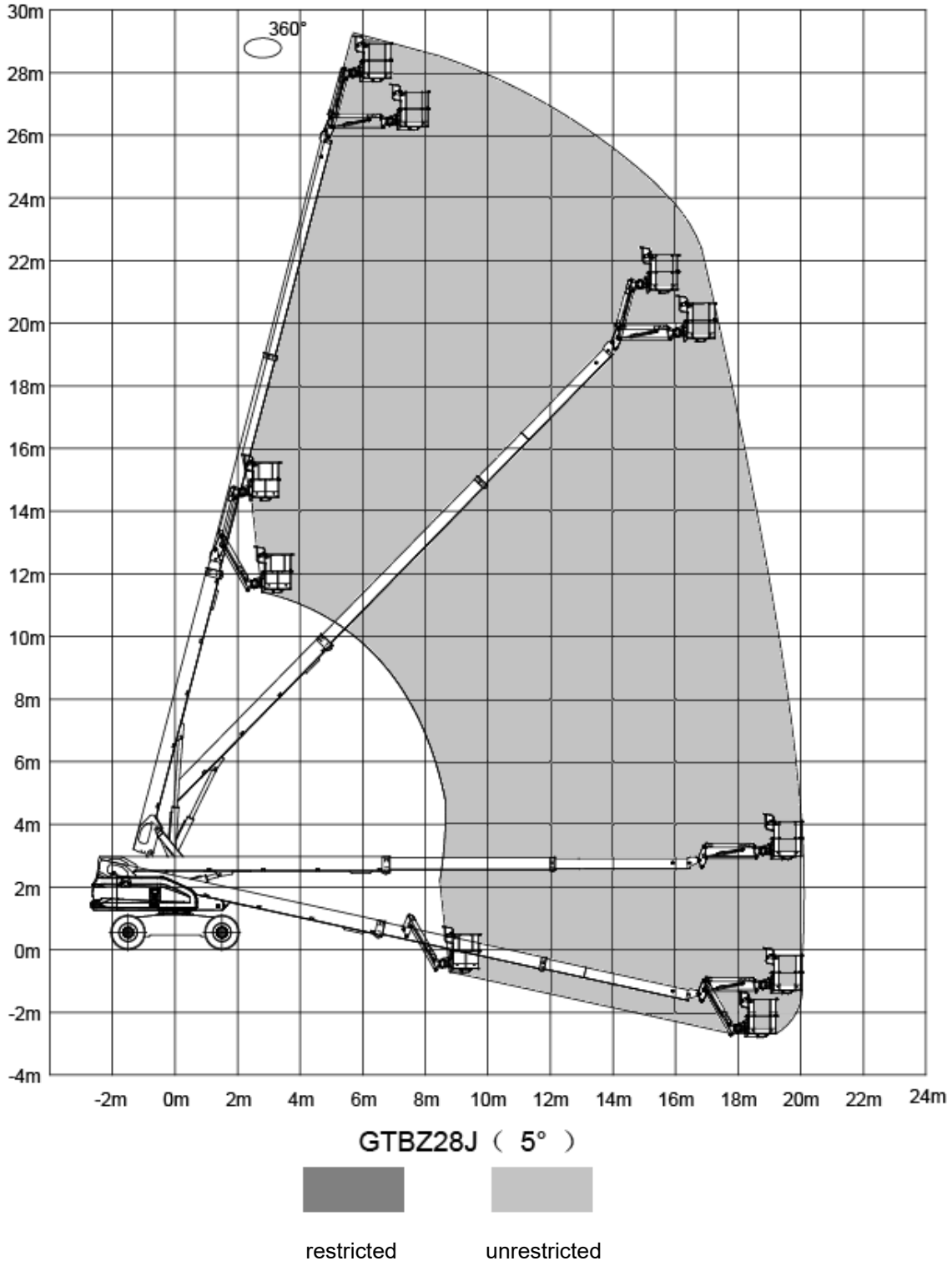
GTBZ26 platform reach chart



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GTBZ28J platform reach chart



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2 MACHINE COMPONENTS

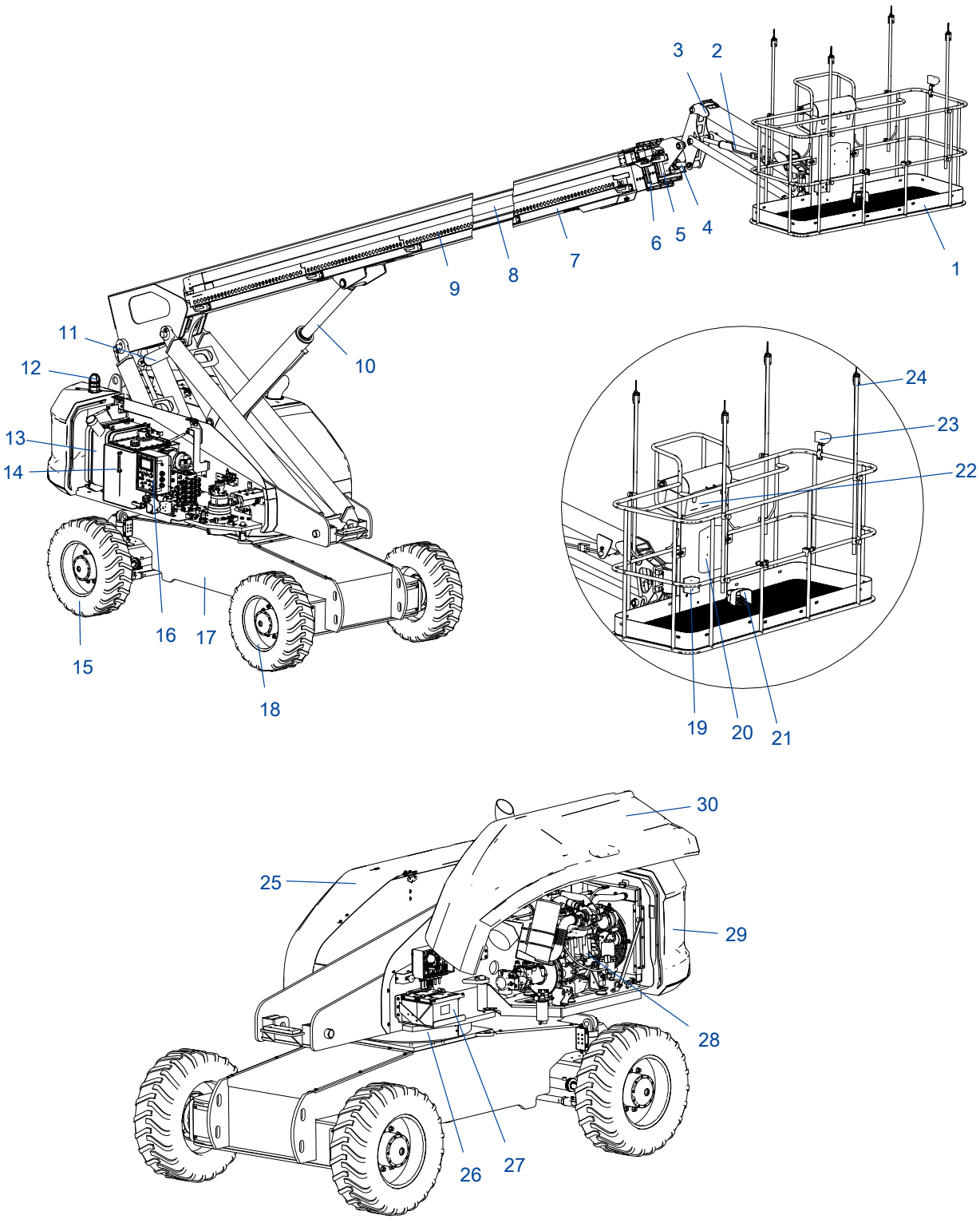


Figure 2-1

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Table 2-1

1. Platform	**11.** Lower leveling cylinder	**21.** Foot switch
2. Jib boom cylinder-GTBZ28J only	**12.** Warning lamp	**22.** Platform controls
3. Jib boom-GTBZ28J only	**13.** Fuel tank	**23.** Illuminating lamp (optional)
4.Upper leveling cylinder	**14.** Hydraulic tank	**24.** Limit device (optional)
5. Second telescopic boom	**15.** Front wheel	**25.** Turntable cover (LH)
6. First telescopic boom	**16.** Ground controls	**26.** Slewing mechanism
7. Base boom	**17.** Chassis	**27.** Battery
8. Telescoping mechanism	**18.** Rear wheel	**28.** Engine
9. Cable track	**19.** AC power socket	**29.** Counterweight
10. Main lift cylinder	**20.** Manual storage container (optional)	**30.** turntable cover (RH)

Machine positions

Stowed position：

Boom lowers and retracts in place.

Non-operating position：

Boom rises at an angle not exceeding 15°, and extends not exceeding 1.2m.

Operating/raised position：

Boom rises at an angle exceeding 15°, or extends beyond 1.2m.

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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 Hunan Sinoboom Intelligent Equipment Co., Ltd., notify Hunan Sinoboom Intelligent Equipment Co., Ltd. Immediately, even if no personal injury or property damage occurs during the accident. Contact Hunan Sinoboom Intelligent Equipment Co., Ltd. by telephone and provide all necessary details. Failure to notify the manufacturer within 48 hours of the incident involving the machinery of Hunan Sinoboom Intelligent Equipment Co., Ltd. may void the product'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 and boom 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

GTBZ26	
Metric	250kg (unrestricted/2 persons & tools) 480kg (restricted/2 persons & tools)
Imperial	551 lb (unrestricted/2 persons & tools) 1058 lb (restricted/2 persons & tools)
GTBZ28J	
Metric	250kg (unrestricted/2 persons & tools)
Imperial	551 lb (unrestricted/2 persons & tools)

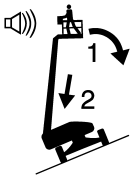
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⚠ WARNING

TIPPING HAZARDS

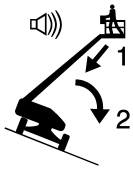


- **Personnel, equipment and materials on the platform must not exceed the maximum load capacity.**
- **Only raise or extend the boom when the machine is on solid, level ground.**
- **Select only the low speed when driving the machine on a slope.**
- **Do not use the tilt alarm as a level indicator. The tilt alarm on the platform will sound only if the machine is heavily tilted.**
- **If the tilt alarm sounds when the machine drives up a slope, please lower the boom per the following procedure and move the machine onto firm level ground. Be sure not to rotate the boom when lowering.**



1. **Lower the main boom;**
2. **Retract the telescopic boom.**

- **If the tilt alarm sounds when the machine drives down a slope, please lower the boom per the following procedure and move the machine onto firm level ground. Be sure not to rotate the boom when lowering.**



1. **Retract the telescopic boom ;**
2. **Lower the main boom.**

- **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, maintain a minimum distance of 0.6m (2ft) and reduce the speed.**

⚠ WARNING

TIPPING HAZARDS

- **When on the platform do not push and pull objects outside of it. The maximum lateral force allowed is:400 N (90 lbf).**
- **Tow the machine only from the tiedown/lifting points on the chassis.**
- **Never use the boom or platorm to stablize or support any objects outside of the machine.**
- **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 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 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 one(26kg[57 lb]), and do not remove or modify the counterweight or other parts of the battery box. 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 the platform or boom assembly to push other machines or objects.**

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⚠ WARNING

TIPPING HAZARDS

- **Do not let the platform or boom assembly touch the nearby structures.**
- **Do not tie off the platform with rope or other binding materials to the nearby structures.**
- **Do not put a 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.**

WORK ENVIRONMENT HAZARDS

⚠ WARNING

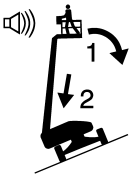
UNSAFE JOBSITE HAZARDS





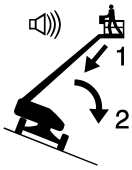


- **Do not operate the machine on surfaces, edges or potholes that cannot bear the weight of the machine. Raise or extend the boom only when the machine is on firm, flat ground.**
- **Never travel on uneven terrain or unstable surfaces or in other dangerous conditions when raising the platform.**
- **When the machine is on rough ground, with gravel or other uneven surfaces, or near holes and steep slopes, maintain a minimum distance of 0.6m(2ft) and reduce the speed.**
- **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 when the machine drives up a slope, lower the boom per the following procedure and move the machine onto firm level ground. Be sure not to rotate the boom while lowering.**



1. **Lower the main boom ;**
2. **Retract the telescopic boom.**

- **If the tilt alarm sounds when the machine drives down a slope, lower the boom per the following procedure and move the machine onto firm level ground. Be sure not to rotate the boom while lowering.**



1. **Retract the telescopic boom ;**
2. **Lower the main boom.**



- **Running speed should not exceed 0.8 km/h (0.5 in./second) 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 (18 mph). If the wind speed exceeds 12.5 m/s (18**

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⚠ WARNING

UNSAFE JOBSITE HAZARDS



mph) after the platform is lifted, fold the platform and do not continue to operate the machine.

- **Do not drive or lift the machine on slopes, steps or vaulted surfaces that exceed the maximum gradeability 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	DESCRIPTI-ON	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.

NOTICE

Maximum gradeability is suitable for machines with platform retracted.

Gradeability 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.

Table 3-4

GTBZ26 GRADEABILITY	
Uphill	30%/17° (2WD); 45%/24° (4WD)
downhill	10%/6° (2WD); 30%/17° (4WD)
sideslope	25%/14° (2WD); 25%/14° (4WD)
GTBZ28J GRADEABILITY	
Uphill	30%/17° (2WD); 45%/24° (4WD)
Downhill	10%/6° (2WD); 30%/17° (4WD)
Sideslope	25%/14° (2WD); 25%/14° (4WD)

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

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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 400N （90 lbf）.**



- **Tow the machine only from the tiedown/lifting points on the chassis.**
- **Never use the boom or platform to stablize or support any objects outside of the machine.**
- **Do not modify any component that may affect the machine safety and stability.**
- **Do not replace key parts that affect machine stability with the ones of 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 one(26kg[57 lb]), and do not remove or modify the counterweight or other parts inside the battery box. 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.**

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⚠ WARNING

UNSAFE OPERATION HAZARDS

- **Do not use the platform to push the machine or other objects.**
- **Do not allow the platform or boom to touch structures.**
- **Do not use rope or other binding materials to tie the platform or boom onto nearby structures.**
- **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.**
- **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 equipment to stabilize the machine.**

⚠ 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 enter or exit the platform through the boom.**
- **Keep the platform floor free of obstacles.**
- **Do not allow mud, oil stains, grease or other slippery substances reside on the footwear or platform floor.**
- **Do not enter or exit the platform unless the machine is fully in stowed position.**
- **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.**
- **The non-staff must maintain a minimum of 1.8m (5.9ft) distance from the machine while it is travelling or swinging.**



- **When the work platform of a moving machine is approx.2m away from the obstructions, use the boom lifting/lowering function (rather than the driving function) to get close to the obstructions.**
- **Switch to the low speed gear before parking the machine that drives at high speed.**



- **Do not use the high speed gear when the machine is driving reverse or in restricted or enclosed work area.**
- **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 ground 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.**
- **When the machine is conducting aerial work, warn the staff/non-staff not to work, stand or walk under the raised boom or platform.**
- **Limit the speed of travel according to ground conditions, crowding, gradients, the presence and location of personnel and any**

⚠ WARNING

COLLISION HAZARDS

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.**
- **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 under the platform or the boom when the boom is not protected by a crane.**
- **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.**

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EXPLOSION AND FIRE HAZARDS

⚠ WARNING

EXPLOSION AND FIRE HAZARDS



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



DAMAGED MACHINE HAZARDS

NOTICE

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

⚠ WARNING

DAMAGED MACHINE 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 Maintenance Manual.

⚠ WARNING

BODILY INJURY HAZARDS



- **Do not operate the machine when there are oil spills/leaks. Oil spills or leaks in hydraulic fluids may penetrate and burn the skin.**
- **Always operate the machine in well ventilated atmosphere to prevent carbon monoxide poisoning.**

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.**

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⚠ WARNING

BATTERY HAZARD



- **Be sure to read and follow the rocomendations given by the battery manufacturor regarding how to correctly use and maintain the battery.**



- **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



- **Only the properly trained personnel authorized by the workplace are allowed to remove the battery from the machine.**
- **Before replacing the battery, be sure to identify the appropriate number of personnel and the lifting method.**
- **During the assembling or disassembling process, never use the battery in a forciable manner, and never allow the battery to fall off.**
- **Never directly short-circuit the battery outputs with electrical cords.**
- **Should the battery acid spill out, use bicarbonate (baking soda) mixed with water to neutralize the acid.**
- **Never store the battery in water or humid atomosphere.**
- **Daily check the battery cable for damage, and replace any damaged parts before operating the machine.**

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.

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.

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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 boom to stowed position.
3. Take off all loads from the platform and run the enghine at low speed for 3–5 minutes to reduce the engine inside temperature.
4. Push in the emergency stop button at the platform controls to the OFF position.
5. Close the cover of platform controls to protect the control panel,handle and controller from hostile weather conditions.
6. Push in the emergency stop button at ground controls to the OFF position.
7. Turn the key switch at the ground controls to OFF position and remove the key to avoid unauthorized operation of the machine.
8. Turn off the main power switch.

NOTICE
After using the machine, the main power 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

⚠ 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.

- 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.The operator can only perform the routine maintenance items as stated in this manual.
- Please refer to ***Inspecting Parts, page 5-2*** and check each item.
- 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*.

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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 and proper oil level. Add oil as needed. See ***Inspect Hydraulic Oil Level, page 5-2***。
- Check for diesel fuel leaks and proper fuel level. Add fuel as needed. See ***Inpsecting Fuel Level, page 5-3***。
- Check for proper engine oil level. Add engine oil as needed. See ***Inspecting Engine Oil Level, page 5-4***。
- Check for proper coolant level. Add coolant as needed. See ***Inspecting Coolant Level, page 5-5***。
- Check battery for leaks and proper liquid level. Add distilled water as needed. See ***Inspecting the Battery, page 5-6***。
- 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 lost parts and unauthorized changes:

- Electrical components, wirings and cables
- Hydraulic hoses & fittings, hydraulic cylinder and valve block
- Fuel tank and hydraulic tank
- Storage battery pack and its connection
- Drive motor & reducer, slewing motor & reducer
- Boom wear pads and telescopic axle wear pads
- Limit switch and horn
- Tire and rim
- Engine and associated parts
- Alarms and lighting (if equipped)
- Guardrail and entry gate
- Structure and welding cracks
- Nuts, bolts and other fasteners

NOTICE

If damaged parts, incorrect installation or missing parts are discovered, please replace immediately and install correctly; if the fasteners are found detached or loose, please secure immediately.

INSPECTING ENTIRE MACHINE

Inspect the entire machine for:

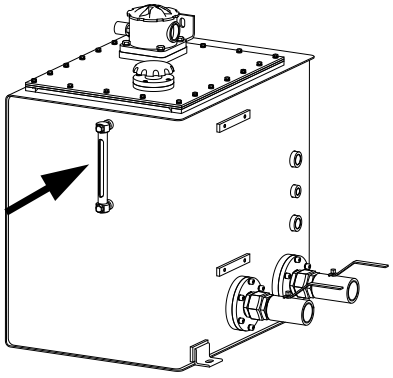
- Cracks in a weld joint or structural part
- Dents or other damage
- Severe rust, corrosion or oxidation
- Missing or loose structural parts and key components, including fasteners and pins for correct positioning and tightness
- After the inspection, ensure all covers are in place and securely locked

INSPECT HYDRAULIC OIL LEVEL

Ensuring appropriate hydraulic oil level is vital to proper operation of the machine. If too high, the oil will spill out from the oil tank during machine operation, if too low, the oil pump will suction air and damage hydraulic components. Performing daily inspection of the hydraulic oil level will help you determine if a problem exists in the hydraulic system.

Perform the following procedures with the boom in stowed position:

1. Open the left turntable cover to make visual inspection of the sides of hydraulic tank, the hydraulic oil level should be within the marking range of oil level indicator.



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Figure 5-1

2. Ensure the hydraulic tank body and its connections are free of leaks.
3. Add 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.

NOTICE

Different hydraulic oils can be added according to customer requirements upon factory delivery, but cannot be mixed.

INPSECTING FUEL LEVEL

NOTICE

Be sure to shut down the engine before inspection.

Keeping the diesel fuel at an appropriate level is vital to maintaining the engine performance and extending service life. An inappropriate fuel level will bring damage to the engine parts and lead to improper functioning of the machine.

Perform the following procedures with the boom in stowed position:

1. Turn on the key swith at ground control, the indicator panel of the ground control will show the fuel level percentage.

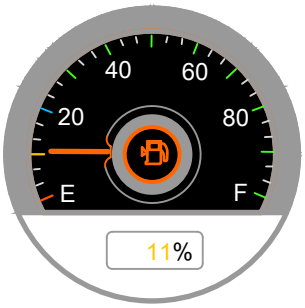


Figure 5-2

2. When the fuel level is less than or equal to 10%, the alarm will sound, be sure to add fuel to continue working.
3. Ensure the fuel tank and its connections are free of leaks.
4. Add fuel with the engine off only.
5. Open the cap of feul tank, add fuel as need. Never overfill the tank, it is recommended to add 50%–100% of the tank capacity.

Table 5-2

DIESEL GRADE	RECOMMENDED AMBIENT TEMP
5#	Lowest temperature 8℃ or higher
0#	Lowest temperature 4℃ or higher
-10#	Lowest temperature -5℃ or higher
-20#	Lowest temperature -14℃ or higher
-35#	Lowest temperature –29℃ or higher
-50#	Lowest temperature -44℃ or higher

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NOTICE

- *The diesel has been drained off before delievery, so the customer should add diesel of appropriate grade to suit the operating ambient temperature and the governing emission regulations.*
- *Do not add mixed diesel of different grades.*
- *The light fuel may affect the fuel economy or damage the combustion components.*
- *It is recommended to use the diesel with sulphur content less than 5000ppm.*
- *It is recommended to use the diesel with min. cetane number of 45 in operating temperatures below 0℃ and min.cetane number of 40 in operating temperatures over 0℃. When the cetane number of the diesel in use is less than the recommended number,it may lead to startup failure, instable running or large amount of white smoke.*
- *The max cloud point and pour point of the diesel must be 6℃ less than the lowest operating ambient temperature.*

⚠ WARNING

EXPLOSION ADN FIRE HAZARD





- **Do not mix the diesel with gasoline, alcohol or their mixture.**
- **Do not add diesel when the engine is running.**

⚠ WARNING

DAMAGED MACHINE HAZARD



Due to the extremely accurate tolerance match of the diesel injection system, it is critical to keep the fuel clean and free of dirts or water. The dirts or water entering the combustion system can cause severe damage to the fuel pump and injectors.

INSPECTING ENGINE OIL LEVEL

NOTICE

Turn off the engine before inspection.

The appropriate engine oil level is vital to maintaining the engine performance and extending its service life, otherwise it will damage the engine parts. Through the daily check the inspector can know about the changes on engine oil level which may indicate a system distress with the engine.

1. Turn the ground/platform select switch to ground control.
2. Pull out the emergency stop button at ground controls to ON position.
3. Turn the key switch at ground controls to ON position.
4. Move the engine start switch and idle for 2 minutes.
5. Switch off the engine, and 5 minutes later open the turntable cover on the right side.
6. Remove the engine dipstick to inpsect the engine oil level.
7. The engine oil level should be between the FULL and ADD marks.
8. Add engine oil as needed. Do not overfill. It is recommended to use engine oil equivalent to or higher than CH-4 with viscosity grade of 15W-40.

Table 5-3

VISCOSITY	RECOMMENDED AMBIENT TEMP
0W-30	-35℃ ~ 0℃
5W-40	-25℃ ~ 30℃
15W-40	-15℃ ~ 40℃
20W-50	0℃ ~ 50℃

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NOTICE

- *The engine oil filled by the factory is generally CH-4 with viscosity 15W-40, suitable for regions with ambient temperature range of 15℃ ~ 40℃. If the operating ambient temperature is outside of the range, please change the engine oil as appropriate.*
- *The muti-grade engine oil can provide excellent lubrication under high-temperature operating condition, reduce the sediments, and improve the engine low-temperature start performance and durability.Also, the multi-grade engine oil plays an important role in fullfilling the machine with the emission standards.*
- *Do not mix the engine oils of different grades.*
- *It is recommended that the sulphated ash content not exceed 1%, otherwise it will damage the air valve or piston, and lead to excessive consumption of engine oil.*
- *The use of high-quality engine oil in conjunction with suitable oil filter and change interval is very critical to maintaining engine performance and extending service life. If the oil or oil filter is not changed as recommended, there will be sediments, contaminants or wear incurred which will shorten the engine service life.*

INSPECTING COOLANT LEVEL

The appropriate coolant level is vital to maintaining the engine performance and extending its service life, otherwise it will damage the engine parts. Through the daily check the inspector can know about the changes on coolant level which may indicate a system distress with the engine.

⚠ WARNING

HIGH TEMPERATURE AND PRESSURE HAZARDS



Before inspecting the coolant level, allow the coolant to cool down to room temperature, and slowly open the cover to release the pressure.



NOTICE

Turn off the engine before inspection.

1. Turn off the engine, and open the right turntable cover.
2. Open the cover of coolant box over the radiator to inspect the coolant level.

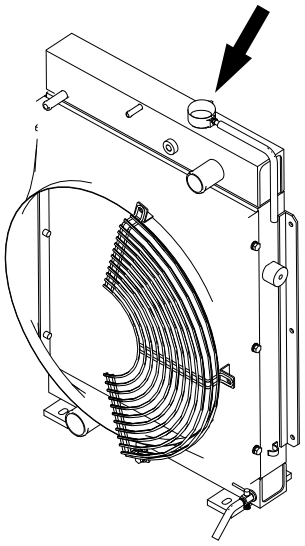


Figure 5-3

3. The coolant level should be at the fill inlet of the coolant box.
4. Add coolant as needed. Do not overfill. It is recommended to choose the -18℃ ready-mix coolant or the ethylene glycol(ethylene and propene) in ratio mix with water. The water quality must meet the requirements as listed in the table below.

Table 5-4

COOLANT TYPE	RECOMMENDED AMBIENT TEMP
-18℃ ready-mix coolant	-18℃ or higher
-37℃ ready-mix coolant	-37℃ or higher
50% ethylene glycol and 50% water mixed coolant	-32℃ ~ 0℃
650% ethylene glycol and 40% water mixed coolant	-54℃ ~ -32℃

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NOTICE

- *Do not apply sealing additive to the cooling system, otherwise it will cause blockage to the low-fludity area, radiator and engine oil cooler, or damage the water pump sealing.*
- *Do not apply soluable engine oil to the cooling system, otherwise it will corrode the brass and copper, damage the surface of heat exchanger, sealings and hose.*
- *The water added into the coolant must meet the requirements of calcium and magnesium less than 170ppm and sulphur less than 100ppm. Excessive calcium and magnesium can lead to scale formation, and excessive chloride and sulfate can corrode the cooling system.*

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

Be sure to wear protective gloves before inspection.

⚠ 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.

- Check the acid level of the battery, if a refill is needed, add distilled water to the inlet pipe on top of the battery until the acid level is above the battery plate. Do not overfill.
- Ensure the battery wiring is not corroded.
- Ensure the battery is adequately supported and the wiring is secure.

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

NOTICE

All the pre-operation function tests must be completed within the same period..

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.

TESTING THE GROUND CONTROLLER

NOTICE

All the function tests of ground controller must be completed within the same period.

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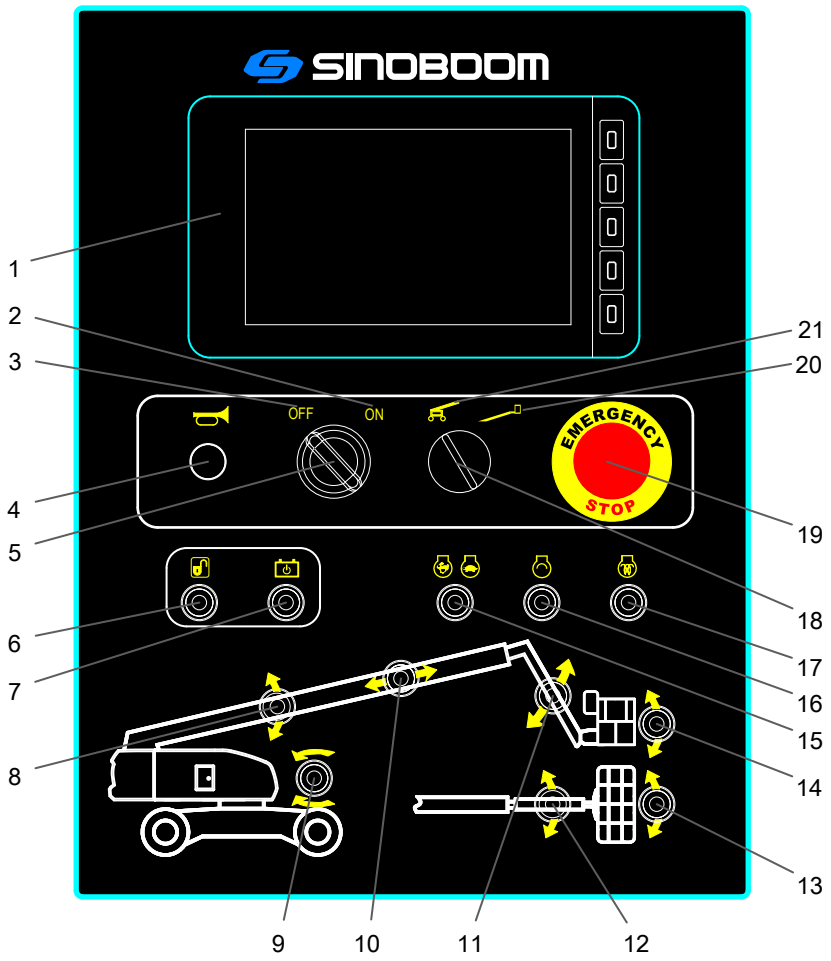


Figure 6-1 Ground Controller

Table 6-1

1. Display screen (See the Fig and Table below)	**8.** Main boom up/down switch	**15.** Engine high/low speed select switch
2. ON position	**9.** Turntable rotate switch	**16.** Engine start switch
3.OFF position	**10.** Main boom telescoping switch	**17.** Engine preheat switch (if equipped)
4. Horn	**11.** Jib up/down switch-GTBZ28J	**18.** Ground/Platform select switch
5. Key switch	**12.**Jib rotate switch-GTBZ28J (if equipped)	**19.** Emergency stop button
6. Enable switch	**13.** Platform rotate switch	**20.** Platform control position
7. Emergency power switch	**14.** Platform level switch	**21.** Ground control position

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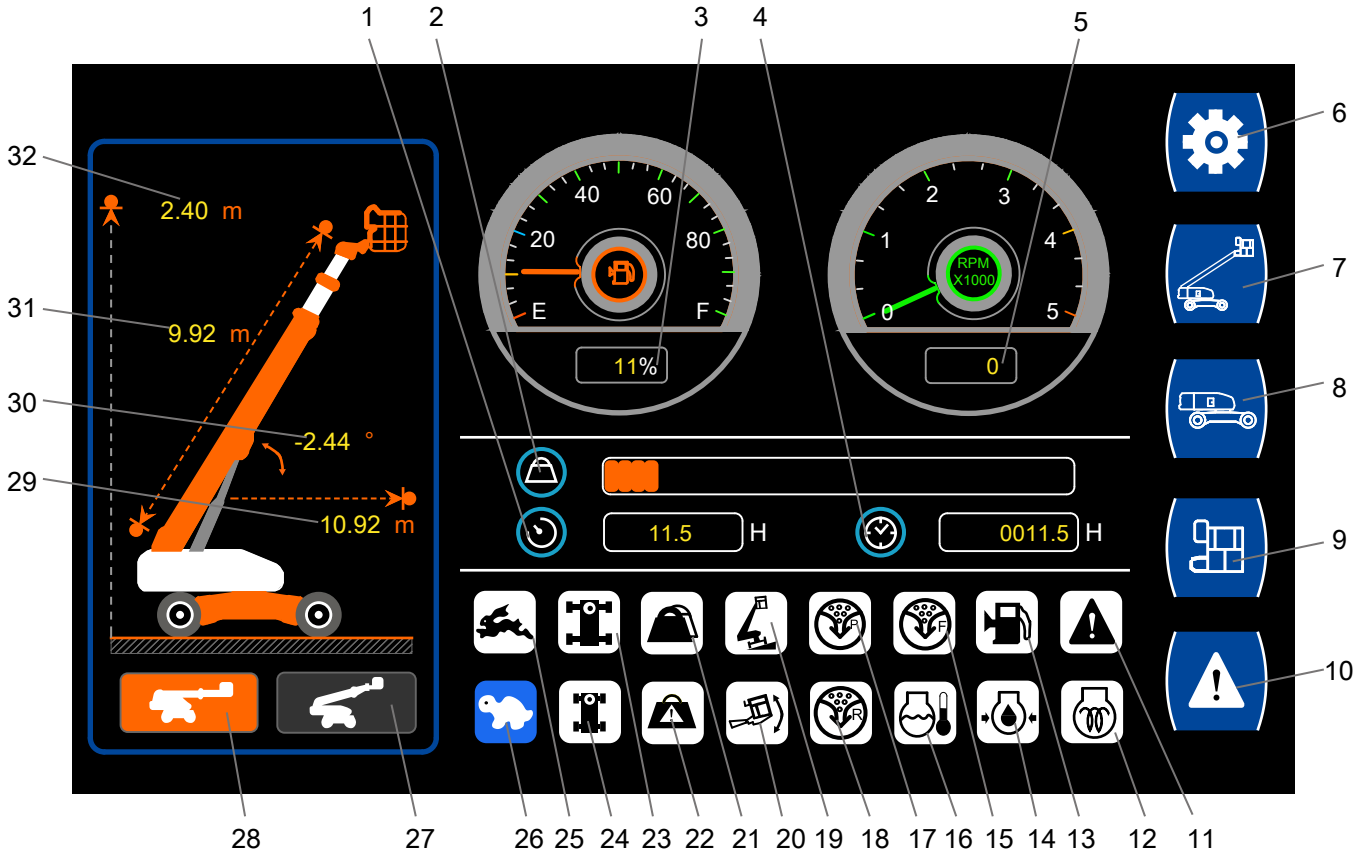


Figure 6-2 Ground controller display screen

Table 6-2

1. Current work hours	**12.** Engine preheat	**23.** Axle extended in place
2. Platform load	**13.** Low diesel alarm	**24.** Axle extracted in place
3. Diesel gauge	**14.** Engine oil pressure alarm	**25.** Engine high speed
4. Accumulated work hours	**15.** Diesel filter alarm	**26.** Engine low speed
5. Tachometer	**16.** Water temp alarm	**27.** Operating position
6. Setup menu	**17.** High-pressure filter alarm	**28.** Non-operating position
7. Machine info	**18.** Return filter blockage alarm	**29.** Boom horizontal length
8. Turntable info	**19.** Chassis tilt alarm	**30.** Boom angle relative to the horizontal plane
9. Platform info	**20.** Platform tilt alarm	**31.** Boom length
10. Alarm message	**21.** Heavy load alert	**32.** Platform height
11. Trouble alarm	**22.** Overload alarm	

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⚠ WARNING

UNSAFE OPERATION HAZARD

- **Unless in emergency situations, never operate from the ground control console if there are still persons on the platform.**
- **Never operate the machine if any control handle or switch that controls the platform movement is not returned to the OFF position after being released.**

⚠ WARNING

COLLISION HAZARD

Before operating the boom, ensure the area near or under the platform is clear of persons or obstructions.

TESTING GROUND CONTROLLER



1. Turn the Ground/Platform select switch to ground control position.
2. Pull out the emergency stop button to ON position.
3. Turn the key switch to ON position.
4. Ensure the relevant indicator light on the display screen is illuminated and no error comes up.

TESTING THE HORN



Push down the horn button, the horn should sound.

TESTING THE ENGINE START FUNCTION



Move the engine start switch, the engine should be started smoothly without abnormal noise.

Note: The switch will get inresponsive after engine startup.

TESTING THE EMERGENCY STOP FUNCTION



1. Push in the emergency stop button on the ground controller to OFF position and move the engine start switch. The engine should fail to start and all functions should be inoperative.
2. Pull out the emergency stop button on the ground controller to ON position and move the engine start switch. The engine should start normally.

TESTING THE GROUND/PLATFORM SELECT FUNCTION



1. Turn the Ground/Platform select switch on the ground controller to ground control position. The functional operation shall be only allowed on the ground controller, while the platform controller shall be inoprative.
2. Turn the Ground/Platform select switch on the ground controller to platform control position. The functional operation shall be only allowed on the platform controller, while the ground controller shall be inoprative.

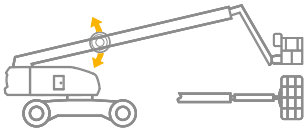
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TESTING THE ENABLE FUNCTION



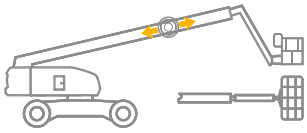
1. Move both the enable switch and the engine start switch, the engine shall fail to start.
2. Move the engine start switch without moving the enable switch, the engine shall start normally.
3. Move each function switch without moving the enable switch, the corresponding function shall be inoperative.
4. Move each function switch together with the enable switch, each function shall operate normally.

TESTING THE BOOM UP/DOWN FUNCTION



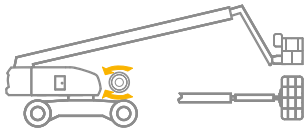
1. Move the enable switch and meanwhile move upwards the boom up/down switch, the main boom shall go up smoothly without shaking or abnormal noise.
2. Move the enable switch and meanwhile move downwards the boom up/down switch, the main boom shall go down smoothly without shaking or abnormal noise, and the buzzer will sound.

TESTING THE MAIN BOOM TELESCOPE FUNCTION



1. Move the enable switch and meanwhile move rightwards the main boom telescoping switch, the main boom shall extend smoothly without shaking or abnormal noise.
2. Move the enable switch and meanwhile move leftwards the main boom telescoping switch, the main boom shall extract smoothly without shaking or abnormal noise.

TESTING THE TURNTABLE ROTATE FUNCTION



1. Move the enable switch and meanwhile move leftwards the turntable rotate switch, the turntable shall rotate anticlockwise.
2. Move the enable switch and meanwhile move rightwards the turntable rotate switch, the turntable shall rotate clockwise.

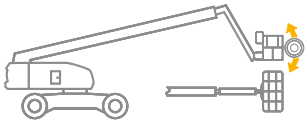
TESTING THE PLATFORM LEVEL FUNCTION

⚠ WARNING

FALL HAZARD



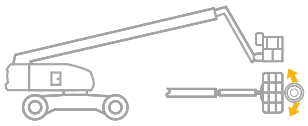
The platform leveling function is only used for slight adjustment of the platform. Improper operation may result in unintended movement or fall of the load/occupants.



1. Move the enable switch and meanwhile move upwards the platform level switch, the platform level shall go up.
2. Move the enable switch and meanwhile move downwards the platform level switch, the platform level shall go down.

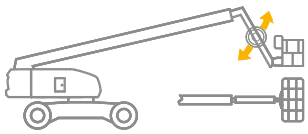
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TESTING THE PLATFORM ROTATE FUNCTION



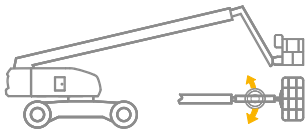
1. Move the enable switch and meanwhile move upwards the platform rotate switch, the platform shall rotate anticlockwise.
2. Move the enable switch and meanwhile move downwards the platform rotate switch, the platform shall rotate clockwise.

TESTING JIB UP/DOWN FUNCTION-GTBZ28J



1. Move the enable switch and meanwhile move upwards the jib up/down switch, the jib boom shall go up.
2. Move the enable switch and meanwhile move downwards the jib up/down switch, the jib boom shall go down and the buzzer will sound.

TESTING JIB ROTATE FUNCTION-GTBZ28J (IF EQUIPPED)



1. Move the enable switch and meanwhile move upwards the jib rotate switch, the jib boom shall rotate anticlockwise.
2. Move the enable switch and meanwhile move downwards the jib rotate switch, the jib boom shall rotate clockwise.

TESTING THE EMERGENCY POWER FUNCTION

NOTICE

- *The emergency power switch serves only for a short time of use (with the platform lowered to the maximum degree possible) when the engine fails.*
- *When the emergency power is in use, do not operate two or more functions simultaneously, otherwise the auxiliary motor and pump will get overloaded.*



Move both the emergency power switch and each function switch/handle, the corresponding function shall operate normally.

TESTING THE ENGINE HIGH/LOW SPEED SELECT FUNCTION

NOTICE

Before applying any loads, idle the engine for 3–5min for preheating.



Move both the enable switch and the engine high/low speed select switch, the engine speed shall select from the high/low speed.

TESTING THE BUZZER FUNCTION

The buzzer shall give an sound-light alarm at variable frequency when the following situations occur:

- Main boom or jib boom down
- Machine overloaded
- Machine tilted
- Length sensor faulted
- Angle sensor faulted
- Other faults

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TESTING THE ENGINE PREHEAT FUNCTION (IF EQUIPPED)

NOTICE

Under low temperature conditions, the engine should be preheated for 5 minutes before operation to prevent damage to the hydraulic system.



Move the engine preheat switch and hold for 6–10s, the engine should inhale for preheating.

Note: The electric engine has no preheating function.

TESTING THE PLATFORM CONTROLLER

NOTICE

All the tests of platform controllers should be completed within the same period.

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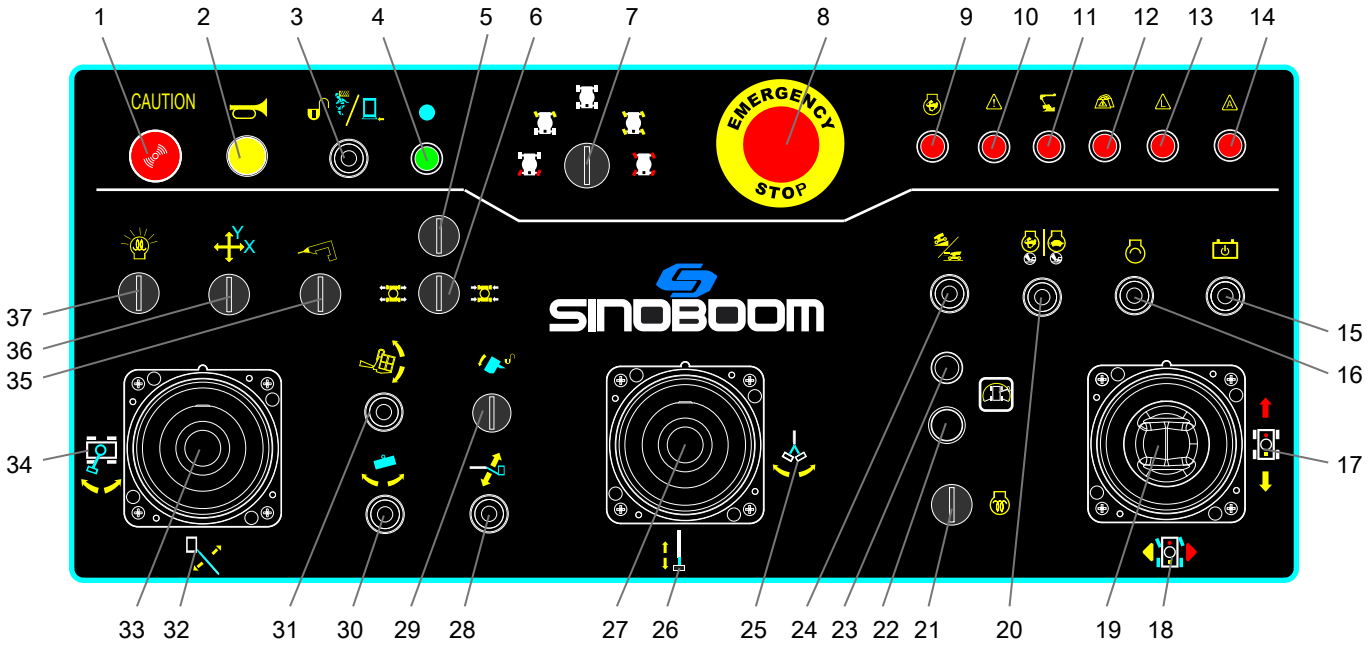


Figure 6-3 Platform controller

Table 6-3

1. Buzzer	**14.** Angle sensor malfunction indicator	**27.** Main boom telescope/jib rotate proportional control handle
2. Horn	**15.** Emergency power switch	**28.** Jib up/down switch-GTBZ28J
3. Anti-pinch/soft touch unlock switch (if equipped)	**16.** Engine start switch	**29.** Machine stowed switch (if equipped)
4. Power indicator	**17.** Drive orientation	**30.** Platform rotate switch
5. Unused	**18.** Steer orientation	**31.** Platform level switch
6. Outrigger telescoping switch (if equipped)	**19.** Drive/Steer proportional control handle	**32.** Main boom up/down orientation
7. Steer mode select switch (if equipped)	**20.** Engine high/low speed select switch	**33.** Main boom lift/turntable rotate proportional control handle
8. Emergency stop button	**21.** Engine preheat switch (if equipped)	**34.** Turntable rotate orientation
9. Engine high speed indicator	**22.** Reverse drive switch	**35.** Hydraulic generator switch (if equipped)
10. System distress indicator	**23.** Rear detection indicator	**36.** X/Y drive switch (if equipped)
11. Chassis tilt indicator	**24.** Drive high/low speed select switch	**37.** Work lamp switch (if equipped)
12. Overload indicator	**25.** Jib rotate orientation -GTBZ28J (if equipped)	
13. Length sensor malfunction indicator	**26.** Main boom telescope orientation	

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⚠ WARNING

UNSAFE OPERATION HAZARD

- **Unless in emergency situations, never operate from the ground control console if there are still persons on the platform.**
- **Never operate the machine if any control handle or switch that controls the platform movement is not returned to the OFF position after being released.**

⚠ WARNING

COLLISION HAZARD

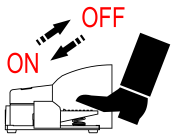
Before operating the boom, ensure the area near or under the platform is clear of persons or obstructions.

TESTING PLATFORM CONTROLLER



1. Turn the Ground/Platform select switch to platform control position.
2. Pull out the emergency stop button on both the ground and platform controllers to ON position.
3. Turn the key switch to ON position.
4. Ensure the power indicator is illuminated and no error comes up.

TESTING THE FOOTSWITCH



1. Depress the footswitch and meanwhile move the engine start switch, the engine shall fail to start.
2. Release the footswitch and meanwhile move the engine start switch, the engine shall start normally.
3. Release the footswitch, and directly move each function switch/handle, the corresponding function shall fail to operate and the buzzer shall sound.
4. Depress the footswitch, and meanwhile move each function switch/handle, the corresponding function shall operate normally.
5. Move some function switch first and then depress the footswitch, the corresponding function shall fail to operate and the buzzer shall sound.
6. Depress the footswitch for 7 seconds, and then move some function switch/handle, the corresponding function shall fail to operate and the buzzer shall sound.

TESTING THE HORN



Push in the horn button, the horn shall sound.

TESTING THE ENGINE START FUNCTION



Move the engine start switch, the engine shall be started smoothly without abnormal noise.

Note: The switch will get inresponsive after engine startup.

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TESTING THE EMERGENCY STOP FUNCTION



1. Push in the emergency stop button on the platform controller to OFF position and move the engine start switch, the engine shall fail to start and all functions shall be inoperative.
2. Pull out the emergency stop button on both the ground and platform controllers to ON position and move the engine start switch, the engine shall start normally.
3. Push in the emergency stop button on the ground controller to OFF position and that on the platform controller to ON position, and move the engine start switch, the engine shall fail to start and all functions shall be inoperative.

TESTING THE DRIVE FUNCTION



1. Depress the footswitch and move forward the Drive/Steer control handle, the machine shall drive forward smoothly without noticeable impact in startup; when the handle is released, the machine shall be held reliably.
2. Depress the footswitch and move backward the Drive/Steer control handle, the machine shall drive reverse smoothly without noticeable impact in startup; when the handle is released, the machine shall be held reliably.

Note：The drive speed is in positive proportion to the travel distance of control handle.

TESTING THE STEER FUNCTION



1. Depress the footswitch and move forward the Drive/Steer control handle, and press the left side of the thumb rocker switch on top of the drive control handle, the machine shall steer left.
2. Depress the footswitch and move forward the Drive/Steer control handle, and press the right side of the thumb rocker switch on top of the drive control handle, the machine shall steer right.

Note：The steering drive speed is in positive proportion to the travel distance of control handle.

TESTING THE DRIVE HIGH/LOW SPEED SELECT FUNCTION

⚠ WARNING

TIPPING HAZARD



The machine must drive at low seed when not on a level surface.



The drive speed of the machine in stowed position allows selection of high/low speed by moving the drive high/low speed slect switch.

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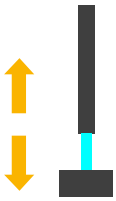
TESTING THE MAIN BOOM UP/ DOWN FUNCTION



1. Depress the footswitch and move forward the main boom lift/turntable rotate proportional control handle, the main boom shall lift smoothly without shaking or abnormal noise.
2. Depress the footswitch and move backward the main boom lift/turntable rotate proportional control handle, the main boom shall lower smoothly without shaking or abnormal noise, and the buzzer shall sound.

Note：The main boom up/down speed is in positive proportion to the travel distance of control handle.

TESTING THE MAIN BOOM TELESCOPE FUNCTION



1. Depress the footswitch and move backward the main boom telescope/jib rotate proportional control handle, the main boom shall extend smoothly without shaking or abnormal noise.
2. Depress the footswitch and move forward the main boom telescope/jib rotate proportional control handle, the main boom shall extract smoothly without shaking or abnormal noise.

Note：The main boom telescope speed is in positive proportion to the travel distance of control handle.

TESTING THE TURNTABLE ROTATE FUNCTION



1. Depress the footswitch and move leftwards the main boom lift/turntable rotate proportional control handle, the turntable shall rotate clockwise.
2. Depress the footswitch and move righttwards the main boom lift/turntable rotate proportional control handle, the turntable shall rotate anticlockwise.

Note：The turntable rotate speed is in positive proportion to the travel distance of control handle.

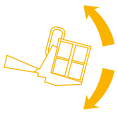
TESTING THE PLATFORM LEVEL FUCTION

⚠ WARNING

FALL HAZARD



The platform leveling function is only used for slight adjustment of the platform. Improper operation may result in unintended movement or fall of the load/occupants.



1. Depress the footswitch and move upwards the platform level switch, the platform level should go up.
2. Depress the footswitch and move downwards the platform level switch, the platform level should go down.

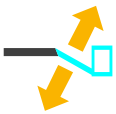
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TESTING THE PLATFORM ROTATE FUNCTION



1. Depress the footswitch and move leftwards the platform rotate switch, the platform shall rotate clockwise.
2. Depress the footswitch and move rightwards the platform rotate switch, the platform shall rotate anticlockwise.

TESTING THE JIB UP/DOWN FUNCTION-GTBZ28J



1. Depress the footswitch and move upwards the jib up/down switch, the jib boom shall go up.
2. Depress the footswitch and move downwards the jib up/down switch, the jib boom shall go down, and the buzzer shall sound.

TESTING THE JIB ROTATE FUNCTION-GTBZ28J (IF EQUIPPED)



1. Depress the footswitch and move leftwards the main boom telescope/jib rotate proportional control handle, the jib shall rotate clockwise.
2. Depress the footswitch and move rightwards the main boom telescope/jib rotate proportional control handle, the jib shall rotate anticlockwise.

Note：The jib rotate speed is in positive proportion to the travel distance of control handle.

TESTING THE EMERGENCY POWER FUNCTION

NOTICE

- *The emergency power switch serves only for a short time of use (with the platform lowered to the maximum degree possible) when the engine fails.*
- *When the emergency power is in use, do not operate two or more functions simultaneously, otherwise the auxiliary motor and pump will get overloaded.*



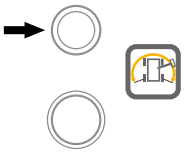
Move both the emergency power switch and each function switch/handle, the corresponding function shall operate normally.

TESTING THE ENGINE HIGH/LOW SPEED SELECT FUNCTION



Move the engine high/low speed select switch, the engine speed shall select from the high/low speed.

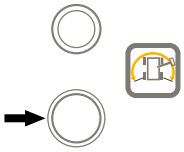
TESTING THE REAR DETECTION FUCTION



When the boom rotates beyond the rear wheels, the drive funtion shall close and the rear detection indicator light shall flash at an interval of 0.5s.

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TESTING THE REVERSE DRIVE FUNCTION



When the rear detection indicator light is lit, the drive function shall close. Move the reverse drive switch, the light shall go out and the drive fucntion shall resume.

NOTICE

When driving reverse, the machine will drive and steer in opposite direction as indicated.

TESTING THE BUZZER FUNCTION

The buzzer shall give an sound-light alarm at variable frequency when the following situations occur:

- Main boom or jib boom down
- Machine overloaded
- Machine tilted
- Length sensor faulted
- Angle sensor faulted
- Other faults

TESTING THE SYSTEM DISTRESS ALERT FUNCTION



The system distress indicator light will be lit under the following conditions:

- Low fuel level
- Low engine oil pressure
- High engine water temperature
- CAN bus error
- Other faults

TESTING THE OVERLOAD ALERT FUNCTION



When the load on the platform exceeds the platform capacity, the overload indicator light will be lit.

TESTING THE TILT ALART FUNCTION



When the machine is tilted, the tilt alarm will sound and the chassis tilt indicator light will be lit.

NOTICE

When the main boom lifts or telescopes out, the chassis tilt indicator light goes on, be sure to retract and lower the boom in place.

TESTING THE ANGLE SENSOR MALFUNCTION ALART FUNCTION



When fault occurs to the angle sensor, the angle sensor malfunction indicator light shall be lit.

TESTING THE LENGTH SENSOR MALFUNCTION ALART FUNCTION



When fault occurs to the length sensor, the length sensor malfunction indicator light shall be lit.

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TESTING THE HYDRAULIC GENERATOR FUNCTION (IF EQUIPPED)



Move the hydraulic generator switch, the hydraulic generator shall be on/off.

TESTING THE ENGINE PREHEAT FUNCTION (IF EQUIPPED)

NOTICE

Before applying any loads, idle the engine for 3–5min for preheating.



Move the engine preheat switch and hold for 6–10s, the engine should inhale for preheating.

Note: The electric engine has no preheating function.

TESTING THE ANTI-PINCH/SOFT TOUCH UNLOCK FUNCTION (IF EQUIPPED)

NOTICE

The anti-pinch/soft touch unlock switch serves only for freeing the machine from the obstructions it is snagged in.



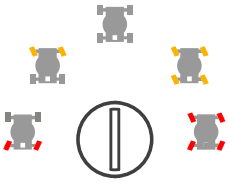
When the machine contacts an obstacle and shuts down, move the anti-pinch/soft touch unlock switch, the machine can free itself from the obstacle in safety direction.

TESTING THE MACHINE STOWED FUNCTION (IF EQUIPPED)



With the machine in non-operating position, after the jib boom rotates to the restricted position, move the machine stowed switch, the jib boom shall rotate to the same level as the main boom.

TESTING THE STEER MODE SELECT FUNCTION (IF EQUIPPED)



Turn the steer mode select switch, the steer mode shall select from rear wheel steer/front wheel steer/ straight forward/crab/4–wheel steer.

TESING THE OUTRIGGER TELESCOPE FUNCTION (IF EQUIPPED)



1. Move leftwards the outrigger telescope switch, the outrigger shall telescope out.
2. Move rightwards the outrigger telescope switch, the outrigger shall telescope in.

TESTING THE WORK LAMP (IF EQUIPPED)



Move the work lamp switch, the work lamp shall be on/off.

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TESTING THE X/Y DRIVE FUNCTION (IF EQUIPPED)

Temporarily not used.

TESTING THE FLOATING OUTRIGGER (IF EQUIPPED)

⚠ WARNING

TIPPING HAZARD



To perform this test, the machine must be in stowed position.

1. Start the machine at the platform controller.
2. Drive the machine to allow the right steer wheel upon the kerb or a block with thickness of 12cm (4.7 in).
3. The other 3 wheels of the machine should come in close contact with the ground.
4. Drive the machine to allow the left steer wheel upon the kerb or a block with thickness of 12cm (4.7 in).
5. The other 3 wheels of the machine should come in close contact with the ground.
6. Drive the machine to allow the both steer wheels upon the kerb or a block with thickness of 12cm (4.7 in).
7. The non-steer wheels of the machine should come in close contact with the ground.

TESTING THE DRIVE SPEED

1. Turn the Ground/Platform select switch on the ground controller to the platform position.
2. Pull out the emergency stop buttons on both the ground and platform controllers to the ON position.
3. Turn the key switch on the ground controller to the ON position.
4. Move the engine start switch on the platform controller.
5. Move the engine high/low speed select switch on the platform controller to select the engine high speed.
6. Move the drive high/low speed select switch on the platform controller to select the drive high speed.
7. Depress the footswitch.
8. Slowly push forward the drive/steer control handle to full drive speed.
9. The test results are shown in the table below:

Table 6-4

MODELS	TEST RESULTS
GTBZ26	Boom in non-operating position: the max drive speed is 5.2 km/h (2WD) and 4.4 km/h (4WD). Boom in operating position: the max drive speed is 0.8 km/h.
GTBZ28J	Boom in non-operating position: the max drive speed is 5.2 km/h (2WD) and 4.4 km/h (4WD). Boom in operating position: the max drive speed is 0.8 km/h.

NOTICE

If the drive speed exceeds the test results as shown above, please immediately remove the machine from service and have it tagged.

TESTING THE EMERGENCY LOWERING FUNCTION

When the engine fails, depending on the actual conditions, move the emergency power switch on the ground or platform controller to start the hydraulic pump, and meanwhile move the function switch to enable the boom lowering, retracting and rotating.

NOTICE

- *The emergency power switch serves only for a short time of use (with the platform lowered to the maximum degree possible) when the engine fails.*
- *When the emergency power is in use, do not operate two or more functions simultaneously, otherwise the auxiliary motor and pump will get overloaded.*

Operating from the ground controller:

1. Turn the Ground/Platform select switch on the ground controller to the ground control position.
2. Pull out the emergency stop button on the ground controller to the ON position.
3. Turn the key switch on the ground controller to the ON position.

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4. Move and the hold the emergency power switch on the ground controller.
5. Move the corresponding boom function switch on the ground controller to lower the platform.

Operating from the platfrom controller:

1. Turn the Ground/Platform select switch on the ground controller to the platform control position.
2. Pull out the emergency stop buttons on both the ground and platform controllers to the ON position.
3. Turn the key switch on the ground controller to the ON position.
4. Move and the hold the emergency power switch on the platform controller.
5. Move the corresponding boom function switch on the platform controller to lower the platform.

TESTING THE TILT PROTECTION SYSTEM

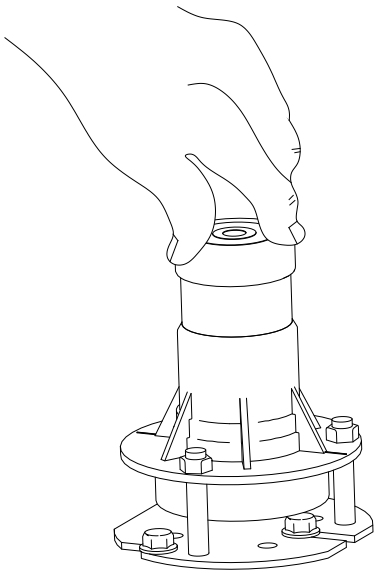


Figure 6-4

1. Turn the Ground/Platform select switch to the ground control position.
2. Pull out the emergency stop button on the ground controller to the ON position.
3. Turn the key switch on the ground controller to the ON position.
4. With the machine in non-operating position, flip the level switch to exceed 5°in X (left-to-right)/Y (front-to-back) direction.
5. The tilt alarm sounds and the chassis tilt indicator light flashes, no fuctions are restricted.
6. With the machine in operating position, flip the level switch to exceed 5°in X (left-to-right)/Y (front-to-back) direction.
7. The tilt alarm sounds and the chassis tilt indicator light flashes, some functions are restricted, but the boom retracting, lowering and turntable rotating are allowed.
8. With the machine in non-operating position, place two wooden blocks under the two wheels on the left or right side of the machine, and then drive the machine onto the two wooden blocks. The wooden block should measure 750mm L×250mm W×218mm H.
9. The tilt alarm sounds and the the chassis tilt indicator light flashes, no functions are restricted.
10. Drive the machine off, and remove the wooden blocks.
11. With the machine in operating position, place two wooden blocks under the two wheels on the front or back side of the machine, and then drive the machine onto the two wooden blocks. The wooden block should measure 750mm L×250mm W×262mm H.
12. The tilt alarm sounds and the chassis tilt indicator light flashes, some functions are restricted, but the boom retracting, lowering and turntable rotating are allowed.
13. Retract and lower the boom, drive off the machine in non-operating position and remove the wooden blocks.

TESTING THE WEIGHING SYSTEM

Before the test, move the boom fully up and down and telescope in and out for at least twice to ensure the pulley and track are adequately lubricated.

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Table 6-5

MODELS	TEST RESULTS
GTBZ26	When the load does not exceed 480kg (1058 lb), ensure that the platform is able to lift to the highest position. Boom in non-operating position: when the load exceeds 480kg (1058 lb), the buzzer will sound continuously, the overload indicator light will flash, the display screen will indicate platform overload, such functions as machine driving , boom raising and extending will be restricted and will not resume until the excessive load is removed. Boom in operating position (for GB models): when the load exceeds 480kg (1058 lb), the buzzer will sound continuously, the overload indicator light will flash, the display screen will indicate platform overload, some functions will be restricted but boom retracting, lowering and turntable rotating is allowed. The machine will not resume all the functions until the excessive load is removed. Boom in operating position (for models except GB): when the load exceeds 480kg (1058 lb), the buzzer will sound continuously, the overload indicator light will flash, the display screen will indicate platform overload, all the functions will be restricted and will not resume until the excessive load is removed.
GTBZ28J	When the load does not exceed 250kg (551 lb), ensure that the platform is able to lift to the highest position. Boom in non-operating position: when the load exceeds 250kg (551 lb), the buzzer will sound continuously, the overload indicator light will flash, the display screen will indicate platform overload, such functions as machine driving , boom raising and extending will be restricted and will not resume until the excessive load is removed. Boom in operating position (for GB models): when the load exceeds 250kg (551 lb), the buzzer will sound continuously, the overload indicator light will flash, the display screen will indicate platform overload, some functions will be restricted but boom retracting, lowering and turntable rotating is allowed. The machine will not resume all the functions until the excessive load is removed. Boom in operating position (for models except GB): when the load exceeds 250kg (551 lb), the buzzer will sound continuously, the overload indicator light will flash, the display screen will indicate platform overload, all the functions will be restricted and will not resume until the excessive load is removed.

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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.

STABILITY

The machine stability is based on two conditions which are called forward stability and backward stability.

⚠ WARNING

TIPPING HAZARD



Do not overload the platform or operate the machine on tilted surface to prevent forward or backward tipping.

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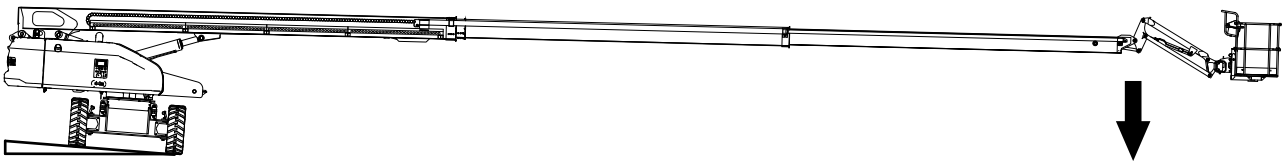


Figure 7-1 Position of least forward stability

1. Boom fully extended;
2. Boom kept horizontal;
3. Turntable rotated 90°;
4. The machine will tip over in the direction as indicated by the arrow if overloaded or operated beyond the limits of the maximum operating slope.

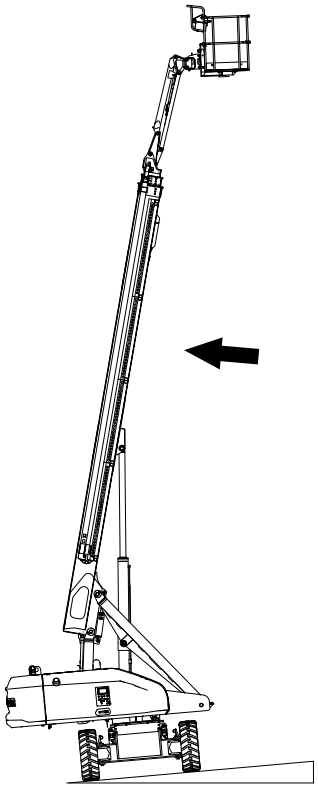


Figure 7-2 Position of least backward stability

1. Boom fully retracted;
2. Main boom fully elevated;
3. Jib fully elevated;
4. Turntable rotated 90° ;
5. The machine will tip over in the direction as indicated by the arrow if overloaded or operated beyond the limits of the maximum operating slope.

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EMERGENCY STOP

- Push in the emergency stop button on the platform controller to OFF, all the functions at the platform controls will get inoperative.
- Push in the emergency stop button on the ground controller to OFF, all the functions at both the ground controls and platform controls will get inoperative.
- Turn off the main power switch inside the right turntable cover, the system power will be disconnected and all functions will get inoperative. The main power switch is located as shown in the below figure.

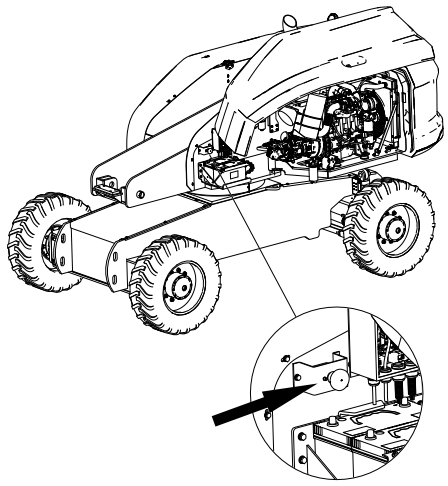


Figure 7-3

EMERGENCY LOWERING

When the engine fails, move the emergency power switch on the turntable or platform controller as appropriate for emergency lowering of the platform.

For the specific operating procedure, please refer to ***Testing the Emergency Lowering Function, page 6-15***.

EMERGENCY OPERATING

When the operator is unable to control the machine :

1. Other personnel shoud operate the machine from the ground controls only as required by the safety rules.
2. Other qualified personnel on the platform may use the platform controls. Do not continue operation if the controls do not function properly.
3. Cranes, forklift trucks or other equipment can be used to stabilize motion of the machine.

When the platform or boom is caught overhead :

If the platform or boom becomes jammed or snagged in overhead structures or equipment, rescue all people in the platform before freeing the machine.

EMERGENCY TOWING/ DRAGGING

⚠ WARNING

UNSAFE OPERATION HAZARD

- **Unless in case of emergency situations, machine malfunction, power loss or loading/unloading, it is strictly prohibited to tow or drag the machine.**
- **When towing/dragging the machine, there should be no person in the platform.**
- **Before towing/dragging the machine, ensure that the machine is in stowed position with the turntable securely locked and platform free of any tools or objects.**
- **Do not tow/drag the machine with the engine started or the drive hub engaged.**
- **The machine must on a level surface or secured before releasing the brake.**
- **The towing/dragging of the machine must follow the local laws and traffic rules.**

1. Choke wheels securely to prevent motion of the machine.
2. Ensure the travel path is free of obstacles and the main power switch is off.
3. Loosen the bolts on each drive hub, then reverse the cover of drive hub.
4. Tighen the bolts, till now the drive hub is disengaged and ready for towing/dragging.

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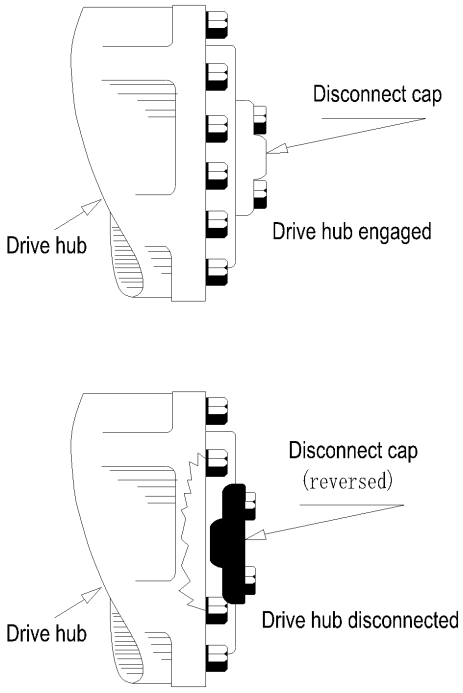


Figure 7-4

5. After moving the machine, position machine on a firm level surface.
6. Choke the wheels securely to prevent motion of the machine.
7. Loosen the bolts on each drive hub, then reverse the cover of drive hub.
8. Tighen the bolts and engage the drive hub.
9. Remove the chokes as necessary.

NOTICE

The allowable towing speed is 3km/h (1.9mph)，the maximum towing distance is 1km (0.6mile)

OPERATION FROM GROUND

⚠ WARNING

UNSAFE OPERATION HAZARD

- **Unless in emergency situations, do not operate from the ground controller when there are personnel in the platform.**
- **Do not operate the machine if any control handle or switch is not returnted to off position after being released.**

⚠ WARNING

COLLISION HAZARD

When operating the boom, be sure the area around or under the platform is free of persons or obstacles.

Before operation：

1. Be sure the battery is well connected before operating the machine.
2. Turn the Ground/Platform select switch on the ground controller to Ground.
3. Pull out the red emergency stop button on the ground controller to the ON position.
4. Turn the key switch on the ground controller to the ON position.
5. Move the engine start switch (not exceeding 15s) on the ground controller to start the engine.

NOTICE

- *If the engine fails to get started immediately, do not keep starting the engine for too long time; if a restart still fails, allow the starter to cool down for 2–3min; if the engine still fails to get started after several attempts, please reference the Maintenance Manual.*
- *Before applying any load, warm up the engine by running it at low speed for 3–5min.*

To position platform：

1. Move the enable switch and meanwhile move upwards/downwards the boom up/down switch to raise or lower the main boom.

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2. Move the enable switch and meanwhile move rightwards/leftwards the boom telescope switch to extend or extract the main boom.
3. Move the enable switch and meanwhile move rightwards/leftwards the turntable rotate switch to rotate the turntbale clockwise or anticlockwise.
4. Move the enable switch and meanwhile move upwards/downwards the platform level switch to level up or down the platform.

⚠ WARNING

FALL HAZARD



The platform level switch can only be used for slight leveling of the plaform, improper use may cause the load/occupant to shift or fall.

5. Move the enable switch and meanwhile move upwards/downwards the platform rotate switch to rotate the platform clockwise or anticlockwise.
6. Move the enable switch and meanwhile move upwards/downwards the jib up/down switch to raise or lower the jib boom (GTBZ28J).
7. Move the enable switch and meanwhile move upwards/downwards the jib rotate switch to rotate the jib boom anticlockwise or clockwise (GTBZ28J, if equipped).

Engine high/low speed selection：

Move both the enable switch and the engine high/low speed select switch to select high/low speed of the engine.

To drive：

The drive function is not enabled on the ground controller.

To steer：

The steer function is not enabled on the ground controller.

OPERATION FROM PLATFORM

⚠ WARNING

UNSAFE OPERATION HAZARD



- **Unless in emergency situations, do not operate from the ground controller when there are personnel in the platform.**
- **Do not operate the machine if any control handle or switch is not returnted to off position after being released.**

⚠ WARNING

COLLISION HAZARD



When operating the boom, be sure the area around or under the platform is free of persons or obstacles.

Before operation：

1. Turn the Ground/Platform select switch on the ground controller to Ground.
2. Pull out the red emergency stop button on the ground controller to the ON position.
3. Turn the key switch on the ground controller to the ON position.
4. Move the engine start switch (not exceeding 15s) on the ground controller to start the engine.

NOTICE

- *The initial starting of the engine should always be from the ground controller.*
- *If the engine fails to get started immediately, do not keep starting the engine for too long time; if a restart still fails, allow the starter to cool down for 2–3min; if the engine still fails to get started after several attempts, please reference the Maintenance Manual.*
- *Before applying any load, warm up the engine by running it at low speed for 3–5min.*

5. After the engine is sufficiently preheated, push in the red emergency stop button on the ground controller to the OFF position to shut down the engine.

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6. Turn the Ground/Platform select switch on the ground controller to Platform.
7. Pull out the red emergency stop buttons on both the ground and platform controllers to the ON position.
8. Move the engine start switch (not exceeding 15s) on the platform controller to start the engine.

NOTICE

- *Do not start the engine with the footswitch depressed.*
- *If the machine shuts down unexpectedly due to the engine malfunction, be sure to identify the cause before restarting the engine.*

To position platform：

1. Depress the footswitch and meanwhile move forward/backward the main boom lift/turntable rotate control handle to raise or lower the main boom.
2. Depress the footswitch and meanwhile move backward/forward the main boom telesocpe/jib rotate control handle to extend or retract the main boom.
3. Depress the footswitch and meanwhile move leftwards/rightwards the main boom lift/turntable rotate control handle to rotate the turntable clockwise or anticlockwise.
4. Depress the footswitch and meanwhile move upwards/downwards the platform level switch to level up/down the platform.

⚠ WARNING

FALL HAZARD



The platform level switch can only be used for slight leveling of the plaform, improper use may cause the load/occupant to shift or fall.

5. Depress the footswitch and meanwhile move leftwards/rightwards the platform rotate switch to rotate the platform clockwise or anticlockwise.
6. Depress the footswitch and meanwhile move upwards/downwards the jib up/down switch to raise or lower the jib boom. (GTBZ28J)
7. Depress the footswitch and meanwhile move leftwards/rightwards the main boom telescope/jib rotate control handle to rotate the jib boom clockwise or anticlockwise. (GTBZ28J, if equipped)

To drive：

1. Depress the footswitch and meanwhile move forward/backward the steer/drive control handle to drive the machine forward or backward.
2. Speed increase: slowly move the handle off center.
3. Speed decrease：slowly move the handle toward center.
4. Stop：return the handle to center or release the footswitch.

When the boom is in operating position, the drive speed of the machine will be restricted.

To steer：

Depress the footswitch and meanwhile move forward the drive/steer control handle and press the left/right side of the thumb rocker switch on top of the handle to steer left/right.

To select drive speed：

1. The machine in non-operating position can select from two drive speed modes (high/low speed).
2. Move the drive high/low speed select switch to select the desired drive speed.

⚠ WARNING

TIPPING HAZARD



The machine must be driven at low speed when tilted.

When in operating position, the machine can only drive at low speed, operation of the drive high/low speed select switch will not enable the high speed mode.

DRIVING ON A SLOPE

⚠ WARNING

TIPPING HAZARD



- **Do not operate the machine on the slope exceeding the maximum slope rating (5°).**
- **Do not drive the machine across the slope exceeding the maximum side slope rating (5°).**
- **Do not drive the machine on the slope exceeding the machine gradeability.**

Before driving on a slope：

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1. Determine the gradeability (climbing ability) of the machine.

Table 7-1

GTBZ26 GRADEABILITY	
Uphill	30%/17° (2WD); 45%/24° (4WD)
downhill	10%/6° (2WD); 30%/17° (4WD)
sideslope	25%/14° (2WD); 25%/14° (4WD)
GTBZ28J GRADEABILITY	
Uphill	30%/17° (2WD); 45%/24° (4WD)
Downhill	10%/6° (2WD); 30%/17° (4WD)
Sideslope	25%/14° (2WD); 25%/14° (4WD)

2. Ensure the machine is in stowed position.
3. Ensure the slope grade is within the limits of the machine gradeability.

NOTICE

Gradeability refers to the maximum permissible percentage of the slope (or called slope grade as below) 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 gradeability reduces.

To determine the slope grade :

1. Use a carpenter's level, a straight piece of wood (at least 1 m [3.3 ft] long) and a tape measure.
2. Measure the height H and length/distance L of the slope.

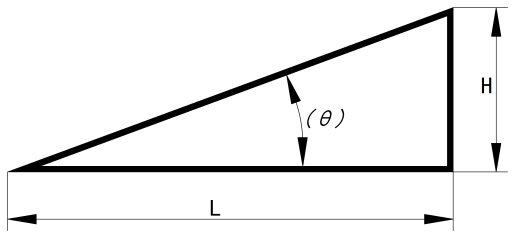


Figure 7-5

3. Slope grade= H/L x 100%.

NOTICE

The machine must not drive for over 2min on the maximum permissible slope grade to prevent the tires running suspended.

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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.**
- **The transport vehicle must be parked on level ground.**
- **The transport vehicle must be secured from rolling when loading the machine.**
- **Ensure that the vehicle capacity, loading surface, belts or ropes are sufficient to support the weight of the machine,refer to*1 Performance Parameters, page 1-1*。**
- **Before driving the machine onto the transport vehicle, ensure that the slope is within the limit of the machine gradeability, refer to *1 Performance Parameters, page 1-1*。**
- **Be sure the machine is on a level surface or secured before releasing the brake.**
- **Never transport people on the machine while the machine is being towed or while the machine is engaged in towing or lifting operations.**
- **The machine should be transported following the local laws and traffic rules.**
- **When using a forklift or crane to lift the machine, beware not to collide the machine with the nearby objects.**
- **Lock the wheels of the machine after it has been installed to prevent the machine from rolling.**

NOTICE

*Do not tow/drag the machine unless an emergency, failure or loss of power occurs. Refer to **Emergency Towing/Dragging, page 7-3**。*

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LIFTING THE MACHINE WITH A CRANE

Follow these requirements when lifting the machine by crane:

1. The boom must be stowed while lifting the machine with a crane.
2. Ensure the boom is positioned in the same direction as the chassis travels.
3. Ensure the controllers and chassis components are safe and reliable.
4. Remove all loose parts of the machine.
5. Determine the center of gravity of the machine.

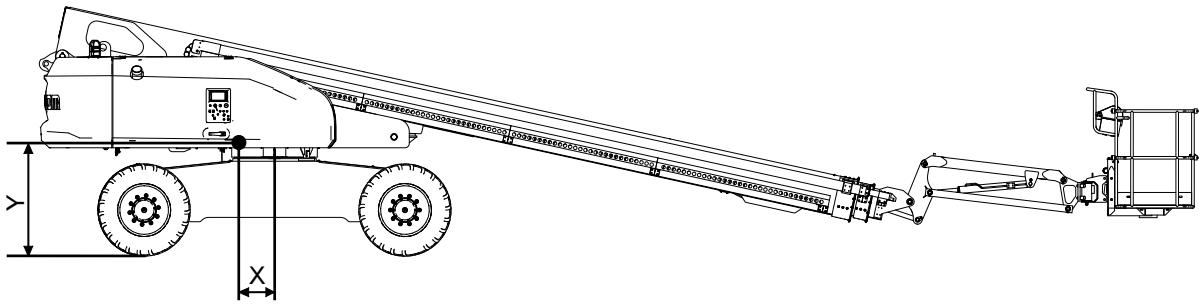
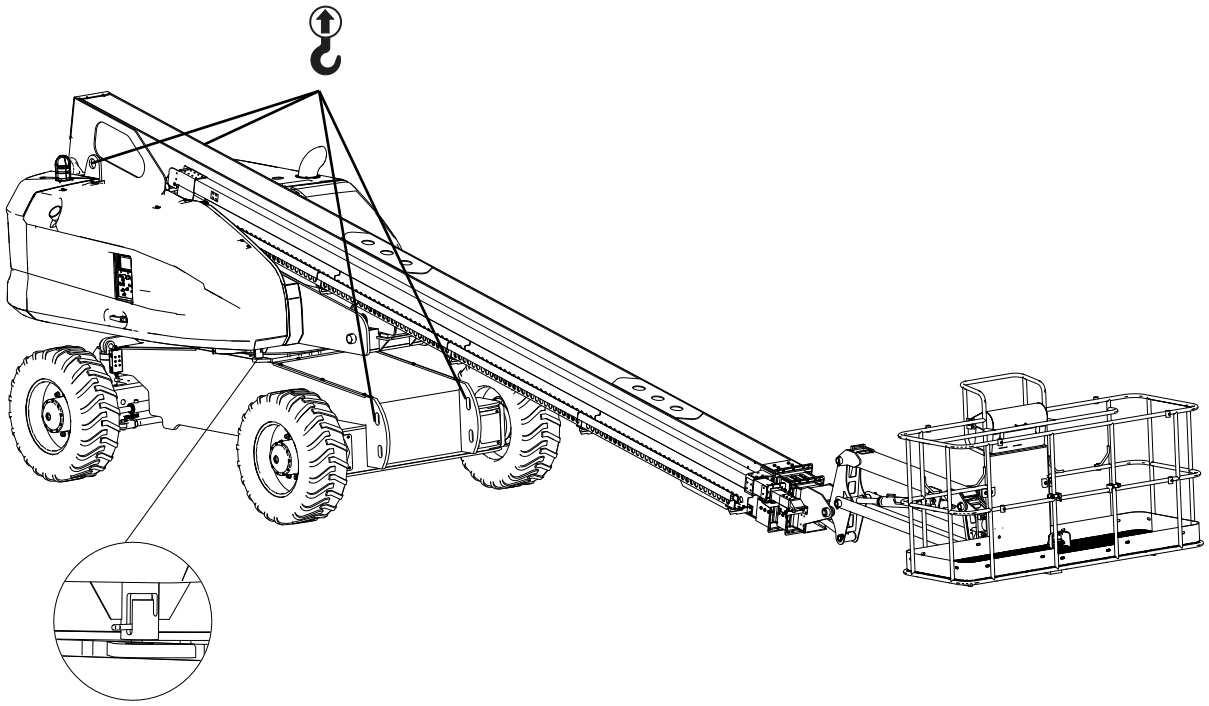


Figure 8-1

Table 8-1

MODEL	X	Y
GTJZ26	0.473 m (18.62 in.)	1.346 m (52.99 in.)
GTJZ28J	0.391 m (15.39 in.)	1.312 m (51.65 in.)

6. Lift the machine as shown in the figure below.



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Figure 8-2

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

NOTICE
To protect the machine, choose the appropriate length of rigging.

TRANSPORTING THE MACHINE

Follow these requirements when transporting the machine by truck or trailer:

1. Before transport, turn the key switch on ground controller to OFF, and remove the key.
2. Perform a thorough inspection of the machine to prevent loose or untightened components and ensure the safety pin of turntable is locked.
3. Ensure the rope or belt is of sufficient capacity.
4. Use at least 4 ropes/belts to fasten the chassis and one rope/belt for the platform.
5. Adjust the rigging to prevent damage to the rope/belt.
6. To protect the boom components and platform load sensors, do not apply too large a downward force to the rope/belt fastened near the platform. It is recommended to add a foam layer beneath the platform and ensure the platform is suspended in the air.

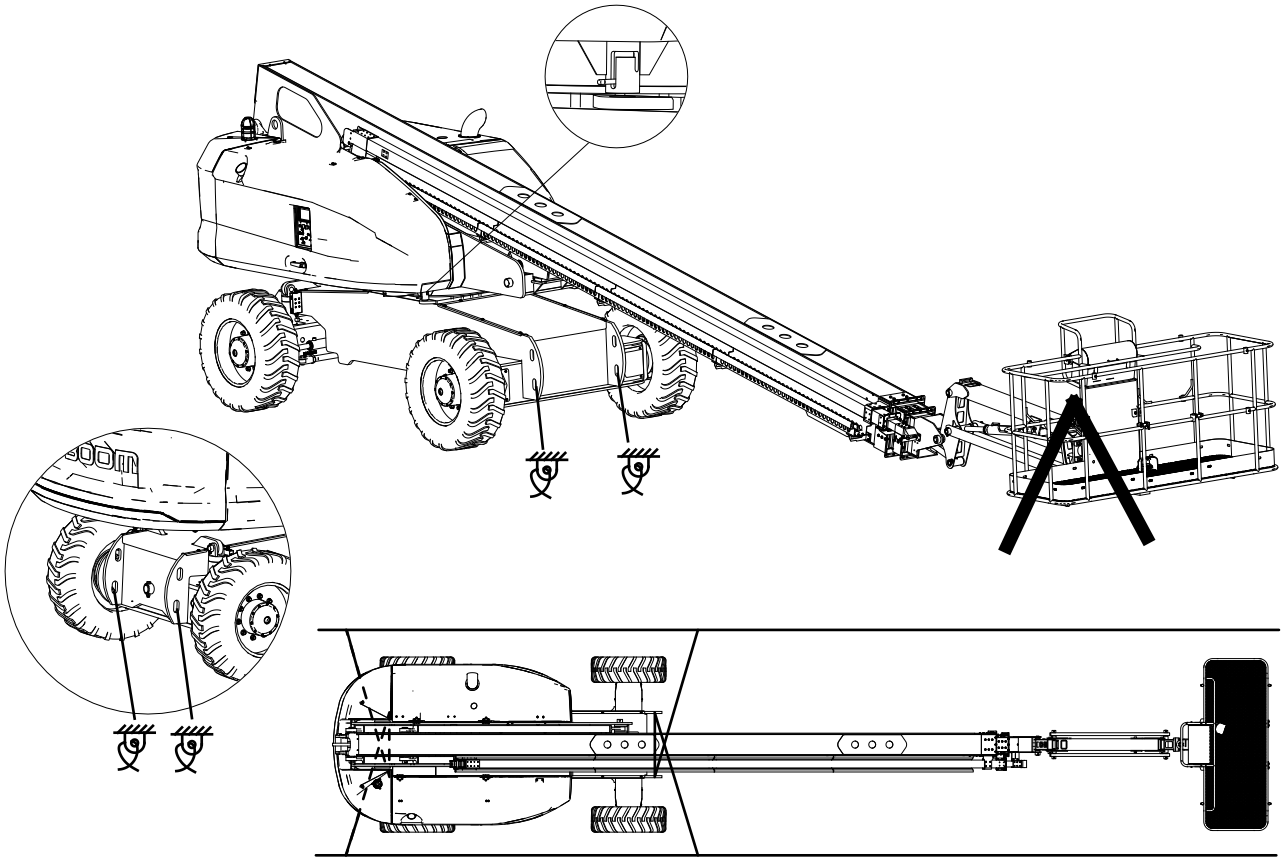


Figure 8-3

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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:

- Maintenance inspection shall be completed by a person trained and qualified on the maintenance of the machine.
- Routine maintenance inspection contains the maintenance items to be performed daily for normal machine operation. The maintenance personnel must perform the routine maintenance inspection and complete the report in details.
- Scheduled maintenance inspection shall be completed quarterly, half-yearly, and annually. The maintenanace personnel must perform the scheduled maintenance inspection and complete the report in details.
- Timely tag and remove from service a damaged or malfunctioning machine.

  Repair any machine damage or malfunction before operating machine.
- Keep all inspection records for at least 10 years or until the machine has been removed from service or as required by the machine owner/company/keeper.
- Machines that have been out of service for a period longer than 3 months must complete the quarterly inspection.
- The replacement parts used in the maintenance should be identical or equivalent to the original parts.
- Unless otherwise specified, perform the maintenance procedures according the following terms and conditions:
  - Park the machine on flat, level and solid ground.
  - Place the machine in non-oprating position.
  - Turn the key switch on ground controller to OFF position and remove the key to prevent unauthorized use of the machine.
  - Pull out the red emergency stop buttons on ground and platform controllers to OFF position to avoid unintended start-up of the operating system.
  - Turn off the 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 circuit, particularly with the counterbalance valve on the cylinder.

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.
2. Use the following table to note the results. After each section is complete, mark the appropriate box.

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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.

Table 9-3

REPAIR & INSPECTION REPORT	
Model	
Serial No.	

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REPAIR & INSPECTION REPORT

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 Inspect Fuel Level				
A-7 Inspect Fuel Leakage				
A-8 Inspect Engine Oil Level				
A-9 Inspect Coolant Level				
A-10 Inspect Engine Belt				
A-11 Inspect Fuel Filter				
A-12 Inspect Cooling Fan				
A-13 Inspect Engine Intake System				
A-14 Functional Tests				
A-15 Test Floating Outrigger (if Equipped)				
A-16 Test Drive Speed				
A-17 Test Emergency Lowering Function				
A-18 Test Tilt Protection System				
A-19 Test Weighing System				
A-20 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 Replace Hydraulic Oil Tank Return Filter				

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REPAIR & INSPECTION REPORT				
B-2 Inspect Rim ,Tire and Fasteners				
B-3 Inspect Hydraulic Oil				
B-4 Inspect Cooling System				
B-5 Replace Fuel filter				
B-6 Inspect Air filter of Hydraulic Tank				
B-7 Replace High-Pressure Filter				
B-8 Replace Air Filter of Engine				
B-9 Inspect Length and Angle Sensors				
B-10 Inspect Engine Exhaust System				
B-11 Inspect Drive Reducer Oil Level				
B-12 Inspect Slewing Reducer Oil Level				
B-13 Inspect Slewing Bearing Bolts				
B-14 Lubricate Slewing Bearing				
B-15 Inspect Platform Rotate Cylinder Fasteners				
B-16 Test Cylinder Drift				
B-17 Test Float Cylinder Exhausting and Counterbalance Valve Locking				
B-18 Inspect Electrical Wiring				
B-19 Inspect the battery				
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 Fuel Filter Element				
C-2 Inspect Boom Extend/ Retract Cables and Pulleys				
C-3 Replace Engine Oil				

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REPAIR & INSPECTION REPORT				
C-4 Replace Engine Oil 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 Replace Drive Reducer Gear Oil				
D-2 Replace Slewing Reducer Gear Oil				
D-3 Replace Hydraulic Oil				
D-4 Replace Hydraulic Tank Suction Filter				
D-5 Replace Coolant and Coolant Hoses				
D-6 Replace Fuel Hoses				
D-7 Inpsect Boom Wear Pads				

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

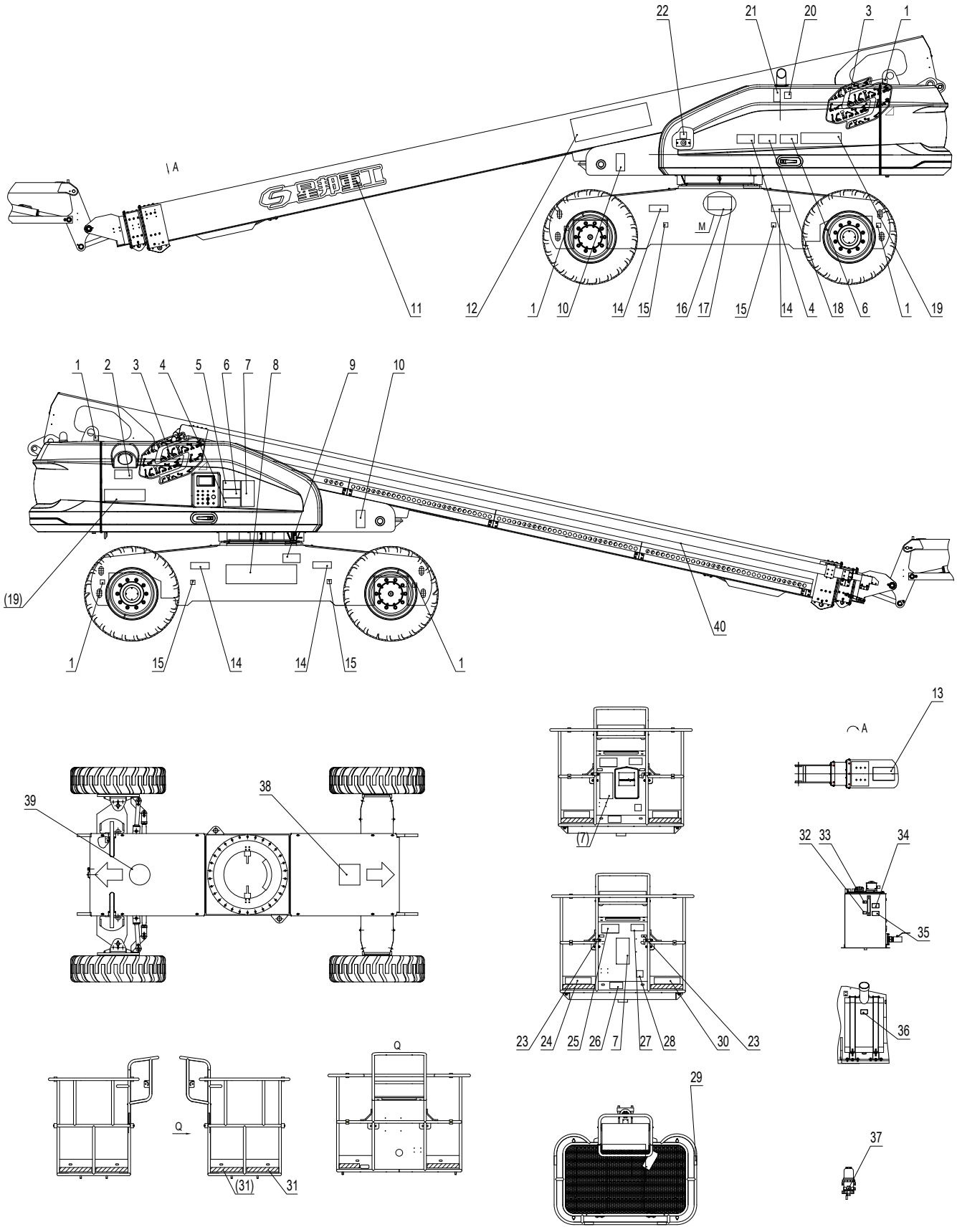
UNSAFE OPERATION HAZARD



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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DECALS/NAMEPLATES-GB



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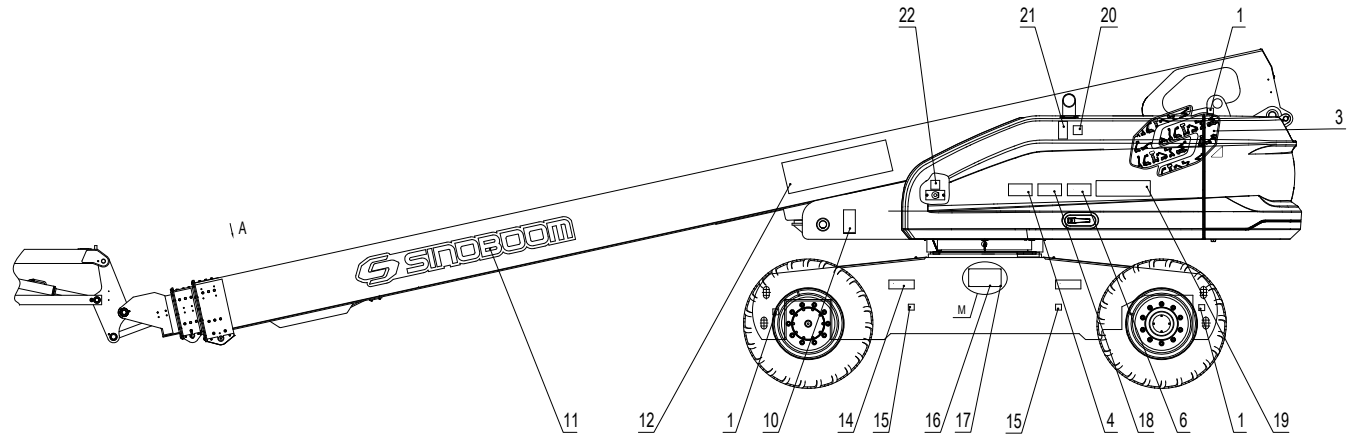
No.	Part No.	Description	Qty.	Remarks
	105031100001	Decals-GTBZ26	1	
	105032100002	Decals-GTBZ28J	1	
1	104011100002	Decal-Lifting lugs	6	
2	104011100014	Decal-Explosion hazard	1	
3	105003100002	LOGO	2	
4	104011100006	Decal-Bulkhead overhaul	2	
5	104011100013	Decal-Electrocution hazard	1	
6	104011100007	Decal-Tipping hazard	2	
7	104011100020	Decal-General safety	2	
8	105001100048	Decal-Contact information	1	
9	104011100022	Decal-Turntable rotation lock	1	
10	104011100011	Decal-Crush hazard	2	
11	105001100069	Logo-SINOBOOM	1	
12	105003000001	GTBZ26	1	
	105004000005	GTBZ28J	1	
13	104011100012	Decal-Fall hazard	1	
14	104011100001	Decal-Tipping hazard	4	
15	105004100001	Decal-Max. load of tire to ground 10000kg/22046 lb	4	
16	105001100057	Nameplate-GB	1	
17	215050000001	Blind rivet 3×8-ZnD GB/T 12618.2	4	
18	104011100005	Decal-Explosion hazard	1	
19	105003100001	GTBZ26	2	
	105004100002	GTBZ28J	2	
20	104011100008	Decal-Noise 82dB	1	
21	104011100018	Decal-Burn hazard	1	
22	104011100016	Decal-Emergency stop switch	1	
23	101016100030	Decal-Lanyard anchorage points	2	
24	104010100015	Decal-Tipping hazard	1	
25	105021100003	Decal-Tipping hazard	1	
26	104011100019	Decal-Crush hazard	1	
27	104011100009	Decal-Read manuals	1	
28	104011100017	Decal-Footswitch	1	
29	104011100021	Decal-Crush hazard	4	
30	104010100014	Decal-Rated load 250kg/551 lb	1	
31	216060000002	Attention line	4	
32	104011100003	Decal-Hydraulic oil level	1	
33	104011100010	Decal-Hydraulic oil level	1	

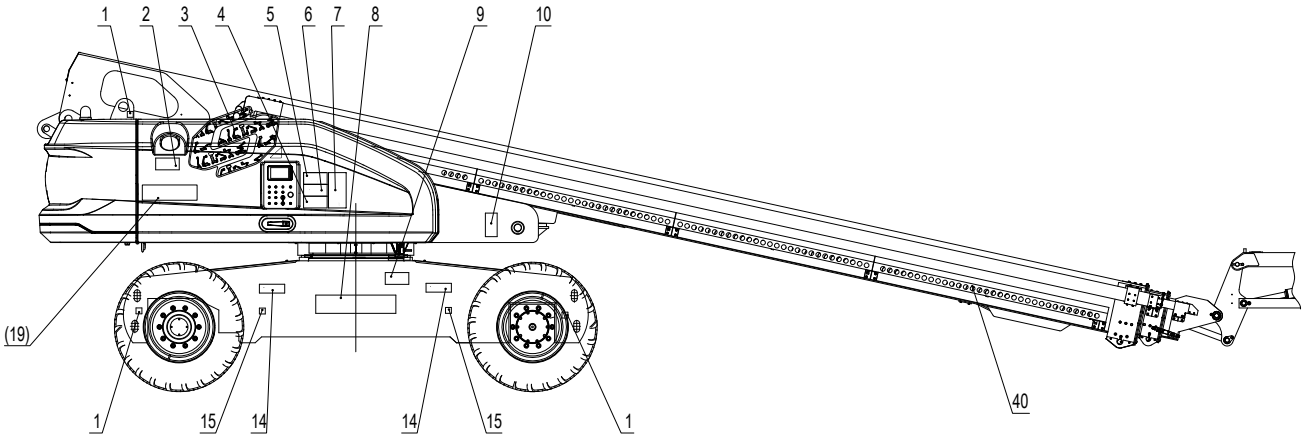
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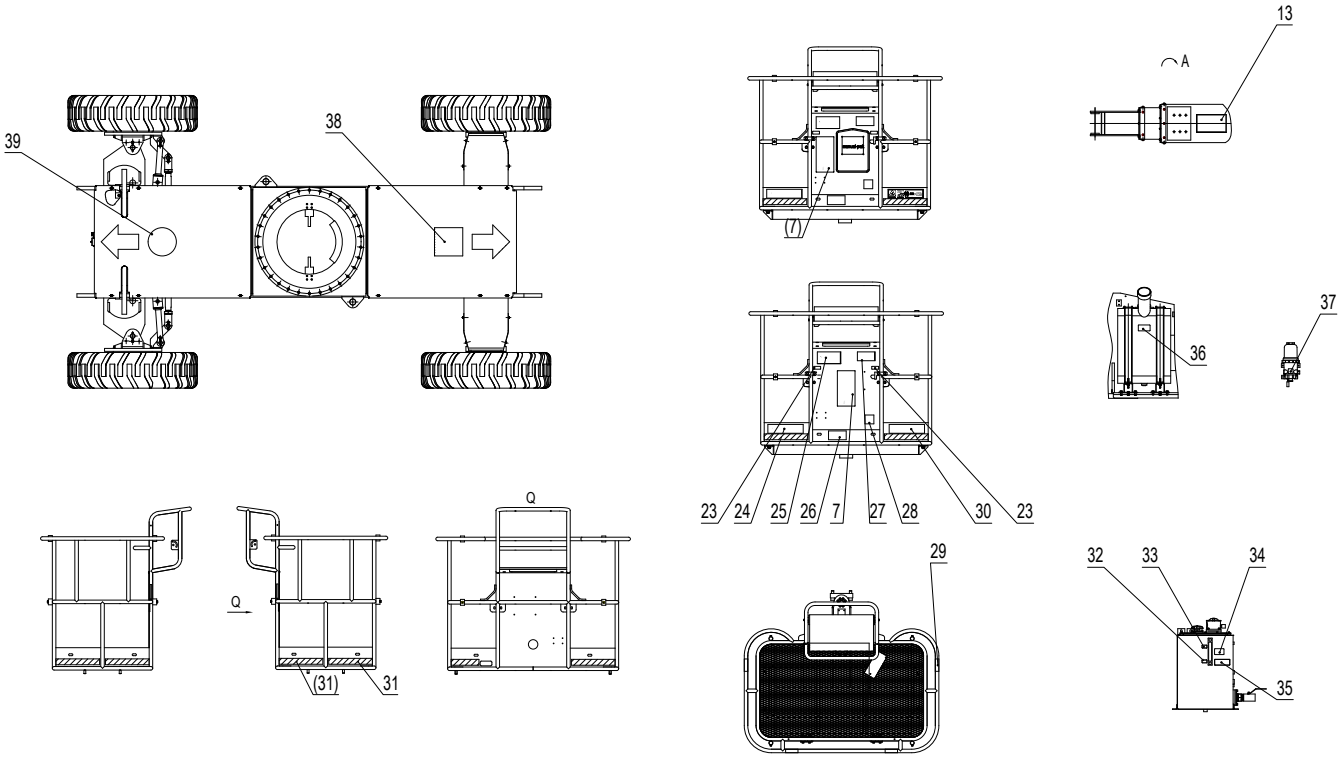
No.	Part No.	Description	Qty.	Remarks
34	104010100021	Decal-Hydraulic oil temperature range	1	
35	104009100018	Decal-Hydraulic oil	1	
36	104009100019	Decal-Diesel fuels	1	
37	104009100020	Decal-Fuel-water separator	1	
38	105001100051	Decal-Direction	1	
39	105001100053	Decal-Direction	1	

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DECALS/NAMEPLATES-CE







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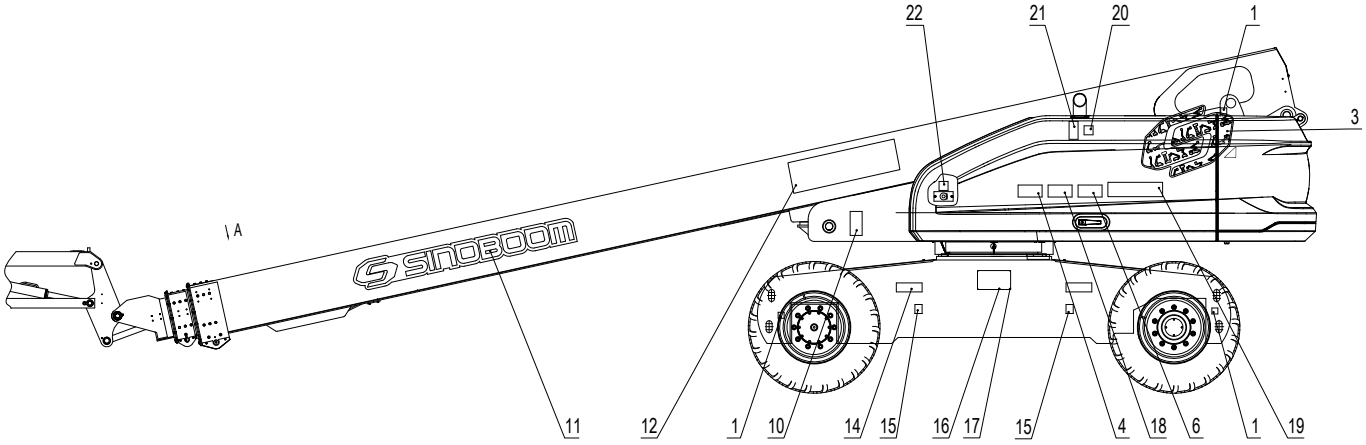
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	105031100002	Decals-GTBZ26	1	
	105032100003	Decals-GTBZ28J	1	
1	104011100002	Decal-Lifting lugs	6	
2	104011100014	Decal-Explosion hazard	1	
3	105003100002	LOGO	2	
4	104011100006	Decal-Bulkhead overhaul	2	
5	104011100013	Decal-Electrocution hazard	1	
6	104011100007	Decal-Tipping hazard	2	
7	104011100020	Decal-General safety	2	
8	105001100050	Decal-Contact information	1	
9	104011100022	Decal-Turntable rotation lock	1	
10	104011100011	Decal-Crush hazard	2	
11	105001100070	LOGO-SINOBOOM	1	
12	105003000001	GTBZ26	1	
	105004000005	GTBZ28J	1	
13	104011100012	Decal-Fall hazard	1	
14	104011100001	Decal-Tipping hazard	4	
15	105004100001	Decal-Max. load of tire to ground 10000kg/22046 lb	4	
16	105001100056	Nameplate-CE	1	
17	215050000001	Blind rivet 3×8-ZnD GB/T 12618.2	4	
18	104011100005	Decal-Explosion hazard	1	
19	105003100001	GTBZ26	2	
	105004100002	GTBZ28J	2	
20	104011100008	Decal-Noise 82dB	1	
21	104011100018	Decal-Burn hazard	1	
22	104011100016	Decal-Emergency stop switch	1	
23	101016100030	Decal-Lanyard anchorage points	2	
24	104010100015	Decal-Tipping hazard	1	
25	105021100003	Decal-Tipping hazard	1	
26	104011100019	Decal-Crush hazard	1	
27	104011100009	Decal-Read manuals	1	
28	104011100017	Decal-Footswitch	1	
29	104011100021	Decal-Crush hazard	4	
30	104010100014	Decal-Rated load 250kg/551 lb	1	
31	216060000002	Attention line	4	
32	104011100003	Decal-Hydraulic oil level	1	
33	104011100010	Decal-Hydraulic oil level	1	

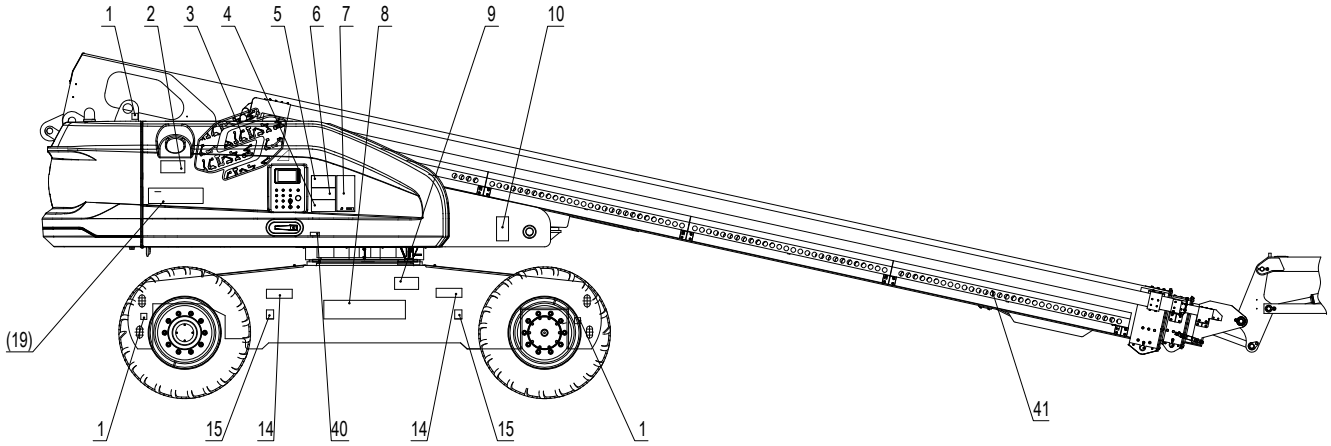
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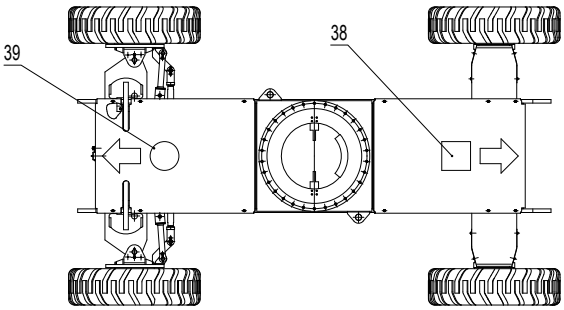
No.	Part No.	Description	Qty.	Remarks
34	104010100021	Decal-Hydraulic oil temperature range	1	
35	104009100022	Decal-Hydraulic oil	1	
36	104009100021	Decal-Diesel fuels	1	
37	104009100020	Decal-Fuel-water separator	1	
38	105001100051	Decal-Direction	1	
39	105001100053	Decal-Direction	1	

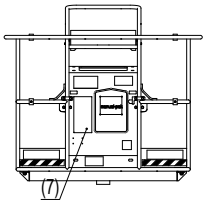
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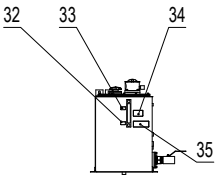
DECALS/NAMEPLATES-ANSI

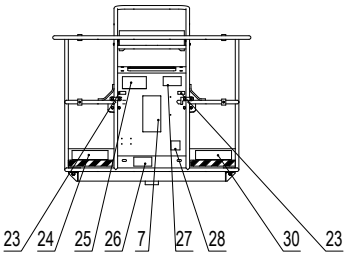


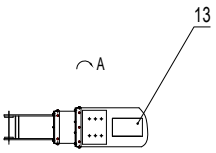


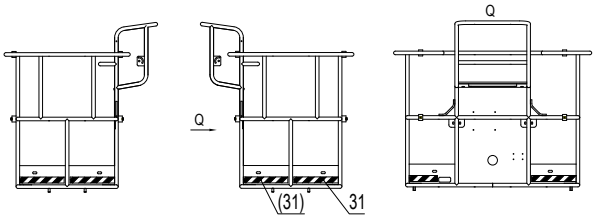


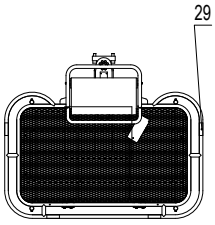


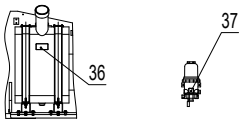












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No.	Part No.	Description	Qty.	Remarks
	105032100002	Decals-GTBZ28J	1	
1	104011100002	Decal-Lifting lugs	6	
2	104011100014	Decal-Explosion hazard	1	
3	105003100002	LOGO	2	
4	104011100006	Decal-Bulkhead overhaul	2	
5	104011100013	Decal-Electrocution hazard	1	
6	104011100007	Decal-Tipping hazard	2	
7	104011100020	Decal-General safety	2	
8	105001100050	Decal-Contact information	1	
9	104011100022	Decal-Turntable rotation lock	1	
10	104011100011	Decal-Crush hazard	2	
11	105001100070	LOGO-SINOBOOM	1	
11	105004000005	GTBZ28J	1	
13	104011100012	Decal-Fall hazard	1	
14	104011100001	Decal-Tipping hazard	4	
15	105032103008	Decal-Max. load of tire to ground 10000kg/22046 lb	4	
16	103007103000	Nameplate-ANSI	1	
17	215050000001	Blind rivet 3×8-ZnD GB/T 12618.2	4	
18	104011100005	Decal-Explosion hazard	1	
19	105004100002	GTBZ28J	2	
20	104011100008	Decal-Noise 82dB	1	
21	104011100018	Decal-Burn hazard	1	
22	104011100016	Decal-Emergency stop switch	1	
23	101016100030	Decal-Lanyard anchorage points	2	
24	103007103002	Decal-Tipping hazard	1	
25	105021100003	Decal-Tipping hazard	1	
26	104011100019	Decal-Crush hazard	1	
27	104011100009	Decal-Read manuals	1	
28	104011100017	Decal-Footswitch	1	
29	104011100021	Decal-Crush hazard	4	
30	105032103003	Decal-Rated load 250kg/551 lb	1	
31	216060000002	Attention line	4	
32	104011100003	Decal-Hydraulic oil level	1	
33	104011100010	Decal-Hydraulic oil level	1	
34	104010100021	Decal-Hydraulic oil temperature range	1	
35	104009100022	Decal-Hydraulic oil	1	

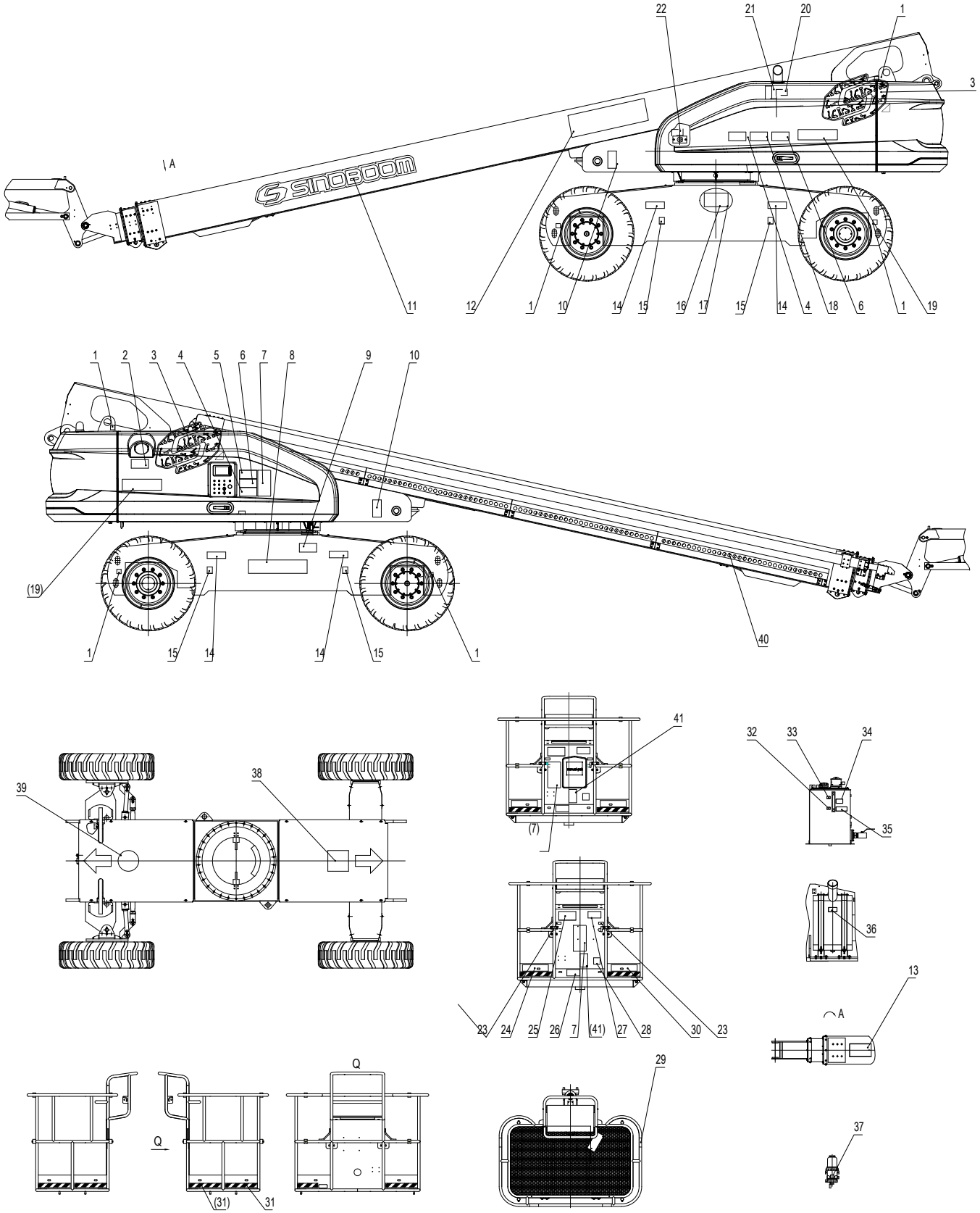
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No.	Part No.	Description	Qty.	Remarks
36	104009100021	Decal-Diesel fuels	1	
37	104009100020	Decal-Fuel-water separator	1	
38	105001100051	Decal-Direction	1	
39	105001100053	Decal-Direction	1	
40	101040103015	Decal-Annual inspection	1	

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No.	Part No.	Description	Qty.	Remarks
	105031103003	Decals-GTBZ26	1	
	105032103016	Decals-GTBZ28J	1	
1	104011100002	Decal-Lifting lugs	6	
2	104011100014	Decal-Explosion hazard	1	
3	105003100002	LOGO	2	
4	104011100006	Decal-Bulkhead overhaul	2	
5	104011100013	Decal-Electrocution hazard	1	
6	104011100007	Decal-Tipping hazard	2	
7	104011100020	Decal-General safety	2	
8	105001100050	Decal-Contact information	1	
9	104011100022	Decal-Turntable rotation lock	1	
10	104011100011	Decal-Crush hazard	2	
11	105001100070	LOGO-SINOBOOM	1	
12	105031103002	TB850	1	
	105032103015	TB910J	1	
13	104011100012	Decal-Fall hazard	1	
14	104011100001	Decal-Tipping hazard	4	
15	105004100001	Decal-Max. load of tire to ground 10000kg/22046 lb	4	
16	103006103002	Nameplate-CSA	1	
17	215050000001	Blind rivet 3×8-ZnD GB/T 12618.2	4	
18	104011100005	Decal-Explosion hazard	1	
19	105031103001	TB850	2	
	10503203014	TB910J	2	
20	104011100008	Decal-Noise 82dB	1	
21	104011100018	Decal-Burn hazard	1	
22	104011100016	Decal-Emergency stop switch	1	
23	101016100030	Decal-Lanyard anchorage points	2	
24	104010100015	Decal-Tipping hazard	1	
25	105021100003	Decal-Tipping hazard	1	
26	104011100019	Decal-Crush hazard	1	
27	104011100009	Decal-Read manuals	1	
28	104011100017	Decal-Footswitch	1	
29	104011100021	Decal-Crush hazard	4	
30	104010100014	Decal-Rated load 250kg/551 lb	1	
31	216060000002	Attention line	4	
32	104011100003	Decal-Hydraulic oil level	1	
33	104011100010	Decal-Hydraulic oil level	1	

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No.	Part No.	Description	Qty.	Remarks
34	104010100021	Decal-Hydraulic oil temperature range	1	
35	104009100022	Decal-Hydraulic oil	1	
36	104009100021	Decal-Diesel fuels	1	
37	104009100020	Decal-Fuel-water separator	1	
38	105001100051	Decal-Direction	1	
39	105001100053	Decal-Direction	1	
41	105029103023	Decal-Operating instructions	1	

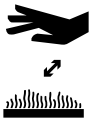
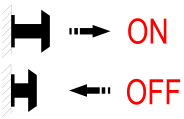
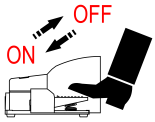
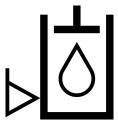
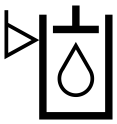
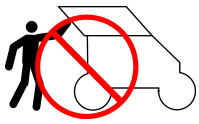
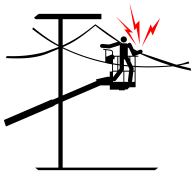
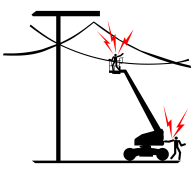
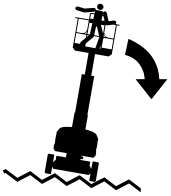
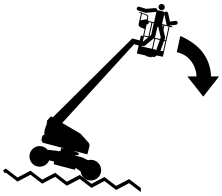
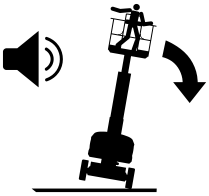
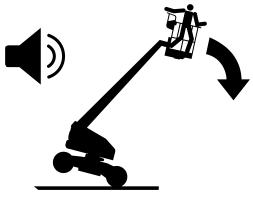
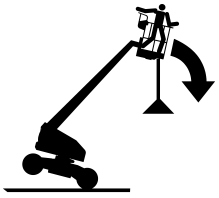
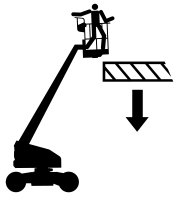
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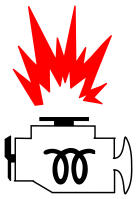
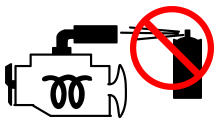
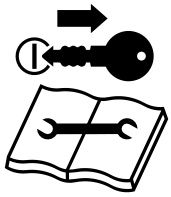
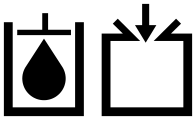
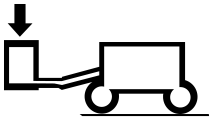
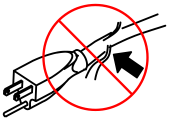
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APPENDIX 1: SYMBOLS AND DESCRIPTION

SYMBOLS CHART

 Read maintenance manual	 Anchor point allows only 1 person to tie	 Wind speed	 Chemical burns hazards	 Wedge the wheel
 Read operation manual	 Add lubricant	 Crushing hazard-Please wear work shoes	 Danger of hot, high pressure fluids	 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
 Electrocution hazards on platform	 Electrocution hazards on the ground and platform	 Tip-over hazards-Avoid uneven ground	 Tip-over hazards-Avoid uneven ground	 Tip-over hazards-Never use machine during strong, gusty wind
				

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Tip-over hazards-Never use machine during strong, gusty wind	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 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	 Fall hazards-Never climb on guardrails of platform	 Fall hazards-Never climb on boom	 Keep away from platform in rotation
 Engine preheat explosion hazard	 No ether or other start additives to machine with glow plug	 Fuel explosion hazard	 Wear protective clothing and glasses	 Only professional maintenance personnel can start the maintenance
 The side force	 Electrocution hazards	 Battery explosion hazard	 No smoking	 No smoking
 Improve point	 Lashing points	 Tire to ground load	 Hydraulic oil filler	 Platform carrying capacity
 Do not use damaged cords	 Tool or weight	 Fast/high speed	 Slow/low speed	 Horn

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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-operationalInspection			
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 Inspect Fuel Level					
A-7 Inspect Fuel Leakage					
A-8 Inspect Engine Oil Level					
A-9 Inspect Coolant Level					
A-10 Inspect Engine Belt					
A-11 Inspect Fuel Filter					
A-12 Inspect Cooling Fan					
A-13 Inspect Engine Intake System					
A-14 Functional Tests					
A-15 Test Floating Outrigger (if Equipped)					
A-16 Test Drive Speed					
A-17 Test Emergency Lowering Function					
A-18 Test Tilt Protection System					
A-19 Test Weighing System					
A-20 Perform Maintenance after 30 Days					

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REPAIR & INSPECTION REPORT				
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 Replace Hydraulic Oil Tank Return Filter				
B-2 Inspect Rim ,Tire and Fasteners				
B-3 Inspect Hydraulic Oil				
B-4 Inspect Cooling System				
B-5 Replace Fuel filter				
B-6 Inspect Air filter of Hydraulic Tank				
B-7 Replace High-Pressure Filter				
B-8 Replace Air Filter of Engine				
B-9 Inspect Length and Angle Sensors				
B-10 Inspect Engine Exhaust System				
B-11 Inspect Drive Reducer Oil Level				
B-12 Inspect Slewing Reducer Oil Level				
B-13 Inspect Slewing Bearing Bolts				
B-14 Lubricate Slewing Bearing				
B-15 Inspect Platform Rotate Cylinder Fasteners				
B-16 Test Cylinder Drift				
B-17 Test Float Cylinder Exhausting and Counterbalance Valve Locking				
B-18 Inspect Electrical Wiring				
B-19 Inspect the battery				
Checklist C 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
C-1 Replace Fuel Filter Element				
C-2 Inspect Boom Extend/ Retract Cables and Pulleys				
C-3 Replace Engine Oil				
C-4 Replace Engine Oil 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 Replace Drive Reducer Gear Oil				
D-2 Replace Slewing Reducer Gear Oil				
D-3 Replace Hydraulic Oil				
D-4 Replace Hydraulic Tank Suction Filter				
D-5 Replace Coolant and Coolant Hoses				
D-6 Replace Fuel Hoses				
D-7 Inpsect Boom Wear Pads				

User	
Inspector Signature	
Inspector Date	
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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