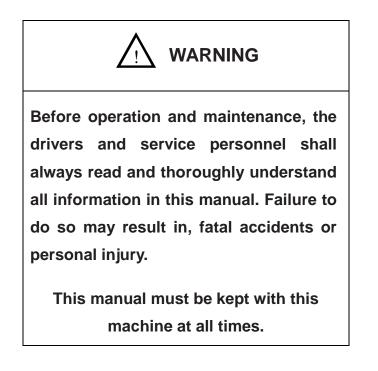


Operation and Safety Manual

T65J-H/T72J-H/T85J-H/T92J-H

Telescopic Boom

Mobile Elevating Work Platform



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Foreword

Thank you for choosing to use this Mobile Elevating Work Platform from LGMG North America. This machine is designed according to A92.20-2021. The information specified in this manual is intended for the safe and proper operation of this machine for its' intended purpose.

For maximum performance and utilization of this machine, thoroughly read and understand all the information in this manual before starting, operating, or performing maintenance on this machine.

Due to continuous product improvements, LGMG North America reserves the right to make specification changes without any prior notifications. For any updated information, contact LGMG North America.

Ensure all preventive maintenance to the machine is performed according to the interval specified in the maintenance schedule.

Keep this manual with this machine for reference at all times. When the ownership of this machine is transferred, this manual shall be transferred with this machine. This manual must be replaced immediately if it is lost, damaged, or becomes illegible.

This manual is copyrighted material. The reproduction or copy of this manual is not allowed without the written approval of LGMG North America.

The information, technical specifications and drawings in this manual are the latest available when this manual is issued. Due to continuous improvement, LGMG North America reserves the right to change the technical specifications and machine design without notice. If any specifications and information in the manual are not consistent with your machine, please contact the service department of LGMG North America.



Only personnel who have been properly trained and qualified to operate or maintain this machine can operate, repair and maintain this machine.

Improper operation, maintenance, and repair are dangerous and can cause personal injury and death.

Before any operation or maintenance, the operator shall thoroughly read this manual. Do not operate, perform any maintenance or make any repairs on this machine before reading and understanding this manual.

The user shall load the platform strictly according to the load rating of the platform. Do not overload the platform or make any modifications to the platform without permission from LGMG.

The operation regulations and preventions in this manual are only applicable for the specified use of this machine.



Safety Precautions

The operator of this machine shall understand and follow the existing safety regulations of state and local governments. If these are unavailable, the safety instructions in this manual shall be followed.

To help prevent accidents, read and understand all warnings and precautions in this manual before operation or performing maintenance.

The safety measures are specified in Chapter 1 Safety.

It is impossible to foresee every possible hazard and the safety instructions in this manual may not cover all safety prevention measures. Always ensure the safety of all personnel and protect the machine against any damage. If unable to confirm the safety of some operations, contact LGMG North America.

The operation & maintenance prevention measures listed in this manual are only applicable to the specified uses of this machine. LGMG North America assumes no responsibility if this machine is used beyond the range of this manual. The user and the operator shall be responsible for the safety of such operations.

Do not perform any operation forbidden in this manual in any situation.

The following signal words are applicable for identifying the level of safety information in this manual.



An imminent situation, that if not avoided, will result in severe injuries or death. This is also applicable to situations that will cause serious machine damage, if not avoided.



A potentially dangerous situation, that if not avoided, may result in severe injuries or death. This is also applicable to situations that may cause serious machine damage, if not avoided.



A situation, that if not avoided, may result in minor or intermediate injury. This is also applicable to situations that may cause machine damage or shorten machine service life.



Chapter 1 Safety



1.1 Danger

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WARNING: Failure to follow the

instructions and safety rules in this manual may result in serious injury or death. Alcoholics, drug users, and those who take anti-reactive drugs are strictly prohibited from approaching and operating the machine.

1.2 Before Operating the Machine, Please Ensure that:

- You are equipped with full-body protective equipment such as helmets, safety belts, safety shoes, goggles and protective gloves, and are in good physical condition.
- 2) You have understood and practiced the safety rules for machine operation in this operation manual.
- You know and understand the rules for safe operation of the machine before proceeding to the next step.
- 4) You always perform pre-operational checks.
- 5) You always perform pre-use functional tests.
- 6) You check the workplace.
- 7) You use the machine for the specified purpose only.
- 8) You read, understand and abide by all applicable laws and regulations.
- 9) You have been trained to operate the machine safely.

1.3 Classification of Dangers



Classification of hazards

The meanings of symbols, color codes and characters of LGMG's products are as follows: Security warning symbol: are used for warning of potential personal injuries.

Observe all safety instructions below these signs, to avoid situations causing potential personal injury and death.



Red: Signifies dangerous situations. If not avoided, will result in personal death or severe injury.



Orange: Signifies dangerous situations. If not avoided, may result in personal death or severe injury.



Yellow: Signifies dangerous situations. If not avoided, may result in minor or intermediate personal injury.

Notice

Blue: Signifies dangerous situations. If not avoided, property loss or damage can occur.

1.4 Purpose

The purpose of this machine is limited to lifting personnel and their tools and materials to high-altitude workplaces, and it can be used indoors and outdoors.



to modify the machine without permission, to carry goods, and to hang or lift articles.

1.5 Maintenance of Safety Signs

- 1) Replace lost and damaged safety signs.
- 2) Clean the safety signs with a neutral detergent or water.
- Solvent-based detergents may damage the safety signs. Do not use solvent-based detergents to clean the safety signs.

1.6 Danger of Electric Shock

WARNING: This machine is not

insulated and does not provide protection against electric shock when in contact with or near electrical wiring, power source or electrical equipment.



Please maintain an adequate safety distance from electrical wiring, power source and electrical equipment in accordance with applicable laws and regulations and the instructions in the following table.

Voltage	Required safety distance
0-50 KV	3.05m/10ft
50 KV-200 KV	4.60m/15ft
200 KV-350 KV	6.10m/20ft
350 KV-500 KV	7.62m/25ft
500 KV-750 KV	10.67m/35ft
750 KV-1,000 KV	13.72m/45ft

Table 1-1 Safe distance between the equipment and power line

AUTION: The effects of strong

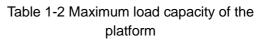
winds or gusts on the movement of the platform, the swinging and slackening of the wires shall be taken into account.

- If the machine comes into contact with a live wire, get away from the machine immediately.
- Personnel are prohibited from touching or operating the machine before cutting off the power to the wires.
- Do not operate or use the machine during lightning or storms.
- 4) Do not use the machine as a ground wire during welding.

1.7 Danger of Tilting

 The personnel, equipment and materials on the platform shall not exceed the maximum load capacity of the platform.

Item	T65J-H/T72J-H T85J-H/T92J-H
Maximum Load	300kg/661
Capacity of the Platform	450kg/992
	(Restricted range of motion)
Maximum	2
occupants	3 (Restricted)





2) Do not raise or extend the boom unless the machine is on a firm, level surface.



- 3) If the platform is overloaded, the buzzer will alarm. Please reduce the platform load first.
- When the platform is lifted, the driving speed should not exceed 0.8 km/h (0.5mph).

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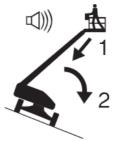
- 5) The tilt angle sensor cannot be used as a level indicator. The buzzer on the turntable will only sound when the machine is heavily tilted.
- 6) Please be very careful if the buzzer sounds when the platform is lifted. The machine's non-level indicator will light up and the drive function will not work in either direction. First determine the status of the upper boom on the slope, as shown below. Then follow the steps below to descend the boom before moving the machine to a solid and level ground. Do not rotate the boom when descending.



If the buzzer sounds when the platform goes up the slope

Lower the boom

2 Retract the boom



If the buzzer sounds when the platform goes down the slope

①Retract the boom

2 Lower the boom



- 7) Do not lift the boom when the wind speed may exceed 12.5 m/s (28mph). If the wind speed exceeds 12.5 m/s (28mph) after the boom is lifted, lower the boom and do not continue to operate the machine.
- 8) Do not operate the machine in strong winds or gusts. 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.
- 9) Do not use the upper control box to operate the machine when the platform is trapped, jammed, or other objects nearby are blocking its normal movement. If you plan to operate the machine with the lower control box, all personnel must leave the platform before you do so.



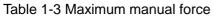
- 10) In the retracted state, please be very careful and reduce the speed when the machine is running on gravels, unstable or smooth surfaces and near the entrance of the cave or steep slopes.
- When the boom is lifted, the machine cannot run on uneven terrain, unstable surfaces, or other dangerous conditions, or run near these areas.





12) Do not push or pull anything outside the platform.

Maximum manual force	400N





- 13) Do not use the machine as a crane.
- 14) Do not place, tie or hang loads on any part of the machine.
- 15) Do not use the boom to push a machine or other objects.
- 16) Do not drive in high-speed descending any slope.

1.8 General Safety

- 1) Do not operate the machine with the hood open.
- 2) Do not allow the boom to approach or touch anything.
- Do not change or use all sensors such as length transducer, tilt angle sensor, the weighing sensor and rope-breaking detection devices.
- 4) Do not bundle the boom or platform to adjacent objects.



5) This machine shall not be modified without

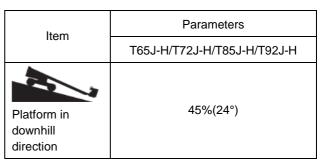
the prior written permission of the manufacturer. Additional devices installed on platforms, pedals or guardrails for placing tools or materials will increase the weight and surface area of the platform.

- 6) Do not place ladders or scaffolds in the platform or against any part of the machine.
- Only tools and materials that are evenly distributed and can be safely moved by people on the platform can be transported.
- 8) Do not use the machine on moving surfaces or vehicles.
- Do not place your hands and arms near the area where there is a risk of cutting or crushing.
- Do not alter or damage any parts that may affect the safety and stability of the machine.
- Do not replace parts that affect machine stability with parts of different specifications.
- 12) Ensure that all tires are in good condition and the nuts are properly tightened, and do not replace the original tires with tires of different specifications.
- 13) The ambient temperature of the machine is -20 ° C ~ 40 ° C.
- 14) Ensure that this manual is kept in a file box in the platform.

1.9 Danger of Operating the Machine on Slopes

Do not drive the machine on slopes exceeding the machine's maximum uphill, downhill or side slope ratings. The slope rating applies only to machines that are in the retracted state.

The maximum slope rating for when the boom is retracted is as follows





Platform in uphill direction	30%(17°)
Platform side slope	25%(14°)

Table 1-4 Maximum slope rating for when the boom is retracted



limited by ground conditions and traction. Please refer to driving on a slope in the "Operation Instructions" section of this manual.

1.10 Danger of Falling

 In the process of operation, the staff on the platform must wear safety protection equipment such as helmets, safety belts and safety shoes according to the requirements on site, and use, inspect and periodically replace the safety equipment according to the manufacturer's instructions.



must be secured to the approved rope attachment points, and only one hook can be tied to each rope attachment point.



- 2) Do not sit, stand or climb on the guardrail of the platform. Stand steadily on the platform floor at all times.
- 3) When the platform is lifted, do not climb down from the boom.
- 4) Keep the platform floor free of debris and sundries.

- 5) Please close the entrance door before operation.
- 6) Do not enter or exit the platform unless the machine is in a retracted state.

1.11 Danger of Collision

- When operating the machine on the ground, please maintain normal judgment and planning. Maintain a safe distance among the operator, the machine and objects.
- 2) When starting or operating the machine, please pay attention to the range of visibility and blind spots.



- 3) When rotating the turntable, please pay attention to the position of the boom and the tail of the turntable.
- 4) Check the work area to avoid overhead obstacles or other possible hazards.
- 5) When holding onto the platform guardrail, beware of the danger of squeezing.
- 6) Lower the boom only when there are no people or obstacles in the lower area.



- 7) Limit the machine speed according to ground conditions, congestion levels, slope, personnel location and any other factors that may cause a collision.
- 8) Do not operate the machine in the path of any cranes or moving elevated machines unless the crane controller is locked or precautions have been taken to prevent any potential collisions.
- 9) Do not drive dangerously or play while operating the machine.

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 Users must follow user rules, workplace rules and government rules for personal protective equipment.

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11) Please observe the direction of the driving and steering functions.

1.12 Dangers of Explosion and Fire

- Do not start the engine if you smell or notice a leak of liquefied petroleum gas, gasoline, diesel or other explosive materials.
- 2) Do not refuel the machine when the engine is running.
- Refuel the machine and charge the battery only in open and well-ventilated places that are away from sparks, burning cigarettes and other sources of fire.
- Do not use the machine or charge the battery in places that are dangerous or where flammable or explosive gases or dust may exist.
- 5) Do not spray ether into an engine equipped with a glow plug.

1.13 Danger of Damage to the Machine

- 1) Do not use a damaged or faulty machine.
- Do not use the machine as a ground wire during welding, and the battery anode and cathode must be disconnected during welding.
- Do not use the machine in places where strong magnetic fields, strong ionization and radioactive radiation may exist.
- 4) Do not use any battery or charger larger than 12V to start the engine.
- Prior to each shift, please strictly perform pre-operational check and test all functions. A damaged or faulty machine should be marked immediately and stop operation.
- 6) Ensure that all inspections and maintenance have been carried out in accordance with the instructions in this manual.

- 7) Ensure that all labels are properly positioned and easily identifiable.
- When cleaning the vehicle, it is forbidden to wash the electrical components directly with water.

1.14 Danger of Body Injury



- Please always operate the machine in a well-ventilated area to avoid exhaust poisoning.
- 2) Do not operate the machine when there is hydraulic oil leakage which may penetrate or burn the skin, and always wear safety goggles and protective gloves when checking for hydraulic oil leakage.
- 3) Incorrect contact with any components under the hood can result in serious injuries and only trained maintenance personnel can open the hood for maintenance. The operator may open the hood for inspection only during pre-operational checks. All hoods must remain closed during operation.

1.15 Battery Safety

- 1) Danger of burns
 - The battery is a maintenance-free lead storage battery containing acidic substances. It is forbidden to disassemble the battery case.
 - If the acid in the battery overflows, use soda water to neutralize.
 - The battery pack must be placed vertically.
 - Do not expose batteries or chargers to water or rain.
 - Disconnect the main power switch when transporting, repairing or parking the vehicle for a long time.

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2) Danger of explosion





- Sparks, flames or ignited cigarettes are prohibited from approaching the battery. The battery may release explosive gases.
- Do not touch the battery terminals or cable clamps with tools that may cause sparks.
- 3) Danger of electric shock
 - The battery charger can be connected to the grounded AC three-wire power socket.
 - Check the cable and wiring for damage daily and replace the damaged items before operation.
 - Avoid electric shock caused due to contact with battery terminals.
 - Remove all rings, watches and other accessories when checking.

1.16 Personal Fall Protection

- Personal falling protection equipment (PFPE) is required during machine operation.
- Occupants must wear a safety belt or harness in accordance with governmental regulations. Attach the lanyard to the anchor provided in the platform.
- Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment.

- **Operation and Safety Manual**
- All PFPE must comply with corresponding government regulations and must be subject to check and use in accordance with the manufacturer's instructions.

1.17 Ground Information

WARNING: Rollover and personal

injury will be caused under severe working conditions and complex and unsafe ground conditions, and stable ground conditions and good working conditions can ensure the normal operation of the machine; therefore before operation, verify that the ground in the working area is safe and strong enough to support the machine.

ANGER: Rollover and personal

injury may occur under the following conditions:

- On steep slopes or in caves;
- When there are protrusions, obstacles or debris on the ground;
- On the inclined surface;
- On the unstable or smooth surface;
- Near the mining area where the soil foundation is soft soil;
- On saturated soil or frozen soil;
- On suspended floor;
- On kerbs and road edges;
- On surface support that is not strong enough to withstand the full load of the machine;
- Under other possible unsafe situations.

The ground load bearing information of the machine is shown in the table below:

Model	Tire contact pressure (kPa)	Occupied floor pressure (Kpa)
T65J-H	670/97.2	13.6/1.97

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652/94.6	13.9/2.02
898/130.2	18.5/2.68
902/130.8	18.9/2.74
	898/130.2

Table 1-5 Ground load bearing information



bearing information given herein is for reference only, and does not consider the optional devices of the machine. Before using the machine, always verify that the ground of the working area is safe and strong enough to support the machine.

Tire specification:

Model	Drive wheel load-6km/h(kg)	Maximum static load (kg)
T65J-H	5300/11684	6800/14991
T72J-H	5300/11684	6800/14991
T85J-H	8000/17637	9000/19842
T92J-H	8000/17637	9000/19842

Table 1-6 Tire specification



Chapter 2 Legend





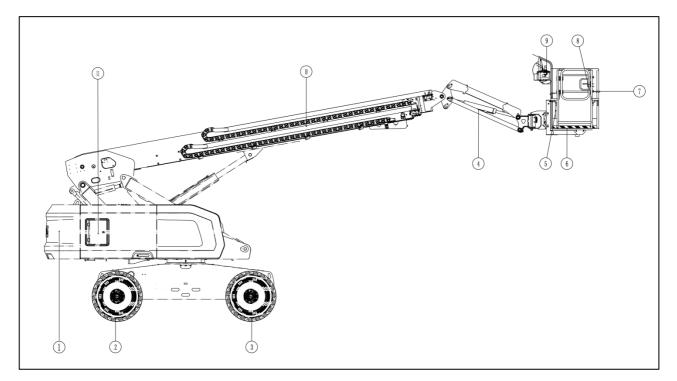


Figure 2-1 Legend of the complete machine

- 1 Counterweight
- 2 Steering Wheel
- 3 Non-steering wheel

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- 4 Jib
- 5 File box
- 6 Platform
- 7 Lifting rod
- 8 Lanyard fixed point
- 9 Upper control box
- 10 Boom
- 11 Lower control box





Chapter 3 Decals



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T65J-H/T72J-H/T85J-H/T92J-H Decals

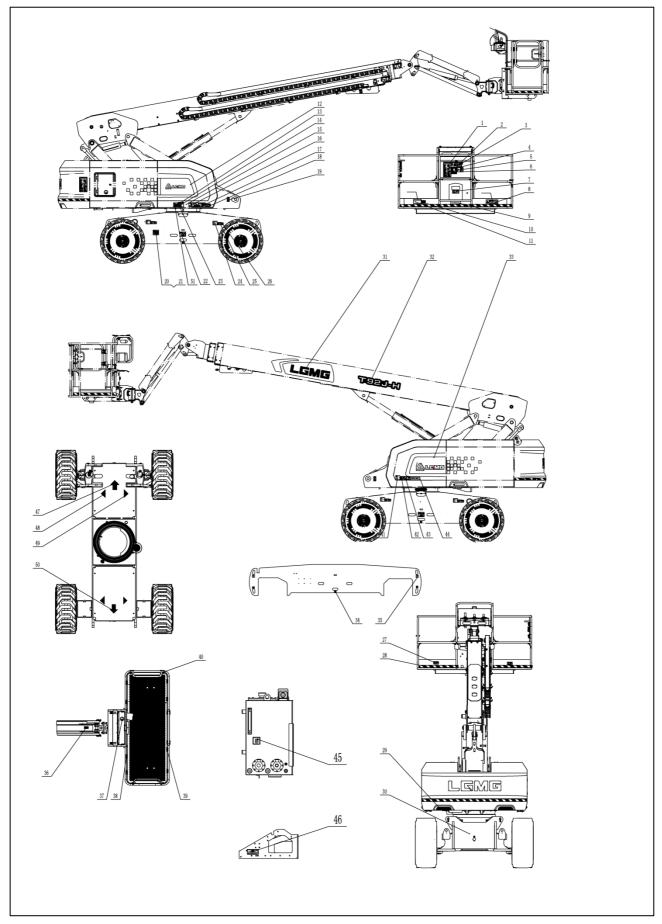


Figure 3-1 Positions of labels



T65J-H/T72J-H/T85J-H/T92J-H Decals

1-2534001540	2-2534001696	3-2534000026	4-2534001570	5-2534002550	6-2534003331/2/3/4
	University Image: Constraint of the second sec		If Safety Manual, Operator's Manual or Responsibilities Manual are missing, contact LGMG.		
7-2534001542	8-2534002443	9-2534000724	10-2534001560	11-2534001559	12-2534000194
WARNING Image: Comparison of the comparison		NON-INSULATED		NOTICE Maximum allowable side force on platform 9 lis / 400 N. Maximum allowable wind speed 12.5 m/sec (28 mph).	
13-2534000998	14-2534001558	15-2534001546	16-2534001548	17-2534000974	18-2534001080
	NOTICE Crear more of the following hyporthese metricals are used on this metrice - Gassine - Lips/Retrieve Gas (FR) - Desificit - Indian Hall - Indian Hall - Retrieve - Gassine - Lips/Retrieve - Control - Control - Control - Control	Dancer Example Example We of each part mark three set that and add hard set that the set that and add hard set that the set that and the set that the set that the set the set the set the set that the set the set the set the set that the set the set the set the set the set that the set t		WARNING With a state of the state of	The Bart Here Bart H
19-2534001543	20/21-2534001543	22-2534001178	23-2534000177	24-254001691/779	25-2534001578
Image: Warning parts Oracle Heard Use away formworkparts Description	Busing WA Rube Busing WA Rube Busing Water Busing Water			440 Feam-Filled Industrial The Same Status The Same Status Data state Melinian New Feam-Filled The Weight 4000, 1276 Toppe Wate Status Addo Status Same Addo Feam-Filled Industrial The Same Status Internan New Feam-Filled Inter Works Status Internan New Feam-Filled The Works Status Wheel Lag Toppe Status Colon	A DANCER Ty-over hazerd. Mechino tip-over will result in death or serious injury. Do not alter or disable limit switch(s).
26-2534001692/780	27-2534001544	28-2534000024	29-2534002657	30-2534000056	31-2534001775
Soliday 107526 Billing 107526 Billing 107526 Source	WARNING At the second			4 ×4	LGMG
32-2534003299/300 32-2534003301/302	33-2534000195	34-2831990027	35-2534000027	36-2534001180	37-2534001743
TEEU-H TZEU-H TEEU-H TEEU-H				Period States and Stat	



Operation and Safety Manual

38-2534000017	39-2534000248	40-2534001809	41-2534000786	42-2534001086	43-2534001545
			(107) db	Explain Real Debrate sign and strike and devident for grand strike and devident for grand strike and strike and strike and devident for grand strike and strike and strike and strike and strike strike and strike and strike strike strike and strike str	Constraints of the second
44-2534001576	45-2534001995	46-2534002026	47-2534000053	48-2534000051	49-2534000050
MADE IN CHINA		NOTICE Better disconnect works Util ff spare after herative signified to start to regrete 23g the organizer herane sub if after time music			
50-2534000052	51-2534000052				

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Decals List

No.	Number	Name	No.	Number	Name
1	2534001540	Decal-Safe rules description	Decal-Safe rules description 27 2534001544		Decal-Stay away from machine
2	2534001696	Decal-Caution of tipping up and down the slope	28 2534000024		Decal-Warning line
3	2534000026	Decal-Reading instructions	29	2534002657	Decal-Anti-scratch sticker
4	2534001570	Decal-Manual loss description	30	2534000056	Decal-Driving
5	2534002550	Decal-Driving on a slop	31	2534001775	Decal-Group LOGO
6	2534003331 2534003332 2534003333 2534003333	Decal-Range of motion	32	2534003299 2534003300 2534003301 2534003302	Decal-Model
7	2534001542	Decal-Reading instructions carefully	33	2534000195	Decal-Group LOGO
8	2534002443	Decal-Two load	34	2831990027	Decal-Lifting eye
9	2534000724	Decal-No-insulating	35	2534000027	Decal-Lifting
10	2534001560	Decal-Lifting and lowering the middle guardrail	36	2534001180	Decal-Prevention of falling
11	2534001559	Decal-Maximum hand power	37	2534001743	Decal-Ground connection
12	2534000194	Decal-Group LOGO	38	2534000017	Decal-Lanyard fixed point
13	2534000998	Decal-Spark prohibition	39	2534000248	Decal-Anti-scratch sticker
14	2534001558	Decal-Caution of hazardous materials	40	2534001809	Decal-Anti-scratch sticker
15	2534001546	Decal-Warning for explosion burn	41	2534000786	Decal-107dB
16	2534001548	Decal-Electric shock hazard	42	2534001086	Decal-Warning for explosion
17	2534000974	Decal-In-box maintenance	43	2534001545	Decal-Tilting risk
18	2534001080	Decal-Warning for fire prohibition	44	2534001576	Decal-Country of origin
19	2534001543	Decal-Anti-crush hazard sign	45	2534001995	Decal-Hydraulic oil
20	2534003418	Decal-Machine nameplate	46	2534002026	Decal-Power switch
21	4019000012	Bolt	47	2534000053	Decal-Forward arrow - blue
22	2534001178	Decal-Lanyard fixed point	48	2534000051	Decal-Left-turn arrow-blue
23	2534000177	Decal-Fuel tank	49	2534000050	Decal-Right-turn arrow-yellow
24	2534001691 2534001779	Decal-Tire description	50	2534000052	Decal-Backward arrow-yellow
25	2534001578	Decal-Caution of tilting	51	2534003337	Decal-Power switch
26	2534001692 2534001780	Decal-Wheel load			

Table 3-1 Codes and names of Decals



Chapter 4 Machine Specifications



T65J-H (T2017J1WNK4AH2000) machine Specifications

4.1 Machine Performance Specifications

Item	Parameter	Item	Parameter	
Dated load (kg/lba)	300/661	One rotation of turntable	78-86	
Rated load (kg/lbs)	2 People	(Stowed) (S)	70-00	
	450/992	One rotation of turntable	115-130	
Restricted load (kg/lbs)	3 People	(The boom extends to 12m/39.4ft) (S)		
Maximum working height (m/ft)	21.8/71.5	Main Boom ascent (S)	60-70	
Maximum platform height (m/ft)	19.8/65	Main Boom descent (S)	60-70	
Maximum horizontal extension (m/ft)	16.6/54.1	Boom extension (S)	58-66	
Driving Speed (Stowed)	4.8±0.25	Deem retraction (C)	F3 63	
(km/h/mph)	3±0.16	Boom retraction (S)	53-62	
Driving Speed (Raised or	0.8±0.05	lib been lift (C)	40-50	
extended state) (km/h/mph)	0.5 ± 0.03	Jib boom lift (S)		
Machine climbing speed	1.2≪v≪1.5	lik keen deesent (C)	20-35	
(Stowed) (km/h/mph)	0.7≪v≪0.9	Jib boom descent (S)	20-35	
Machine climbing speed (Raised or extended state) (km/h/mph)	0.3≪v≪0.8 0.2≪v≪0.5	Platform rotation (S)	13-26	
Minimum turning radius (inner wheel) (m/ft)	2.5/8.2	Maximum tilt angle allowed	5°	
Minimum turning radius (outer wheel) (m/ft)	5.5/18	Machine weight (kg/lbs)	12000/26455	
Theoretical gradeability	45%	Maximum allowable wind speed (m/s/mph)	12.5/28	
Maximum braking distance (no-load, stowed) (m/ft)	1≤S≤1.5 3.3≤S≤4.9	Maximum manual force (N) 400		
4 2 Main Dimensions	3.32024.8			

4.2 Main Dimensions

Item	Parameter	Item	Parameter
Machine length (mm/in)	10200/402	Wheelbase (front/rear) (mm/in)	2510/99
Machine width (mm/in)	2490/98	Tread (mm/in)	2130/84
Machine height (mm/in)	2775/109	Ground clearance (retracted state) (mm/in)	395/15.5
Work platform size (length × width) (mm/in)	2440×900/ 96×35	Tire specifications (Diameter×width)(mm/in)	937×360/ 36.9×14.2

4.3 Electrical System

Item		Parameter/Content
	Model	6-QW-120B
Battery	Output voltage (V)	12
	Capacity (AH)	120(20 hours)



Operation and Safety Manual

Control system Voltage (V)

4.4 Hydraulic System

Item			Parameter/Content
Driving system		Туре	Closed system
		Working pressure (Mpa)	28
		Displacement of pump(ml/r)	46
	Туре		Open system
	Displacement of pump(ml/r)		28
Function system	Lifting system(Mpa)	Working pressure (Mpa)	22
eyetem	Rotary system	Working pressure (Mpa)	9
	Steering system	Working pressure (Mpa)	18

4.5 Drive System

Item		Parameter/Content
Driving reducer	Output torque (N*m)	3390
Rotary reducer	Output torque (N*m)	3060

4.6 Engine System

ltem	Parameter	ltem	Parameter
Model	V2403-CR-E5B	Rated revolving speed (r/min)	2600
Displacement (L)	2.4	Maximum torque (N•m) revolving speed (r/min)	159.8/1600
Rated power (kW)	36	Emission standard	EPA Tier 4f

A CAUTION: Select corresponding brand of fuel oil according to the local working

environment temperature, and refer to the Kubota V2403-CR-E5B Engine User Manual for fuel recommendations and technical specifications.

4.7 Fueling/grease capacity

Item	Condition	Oil viscosity brand	Capacity	Remarks
	The lowest temperature> -25℃	L-HV32 Low temperature hydraulic oil		Recomme
Hydraulic oil (L/gal_US)	-40°C < The lowest temperature ≤ -25°C The lowest temperature ≤ -40°C	L-HS32 Ultra low temperature hydraulic oil 10# Aviation hydraulic oil	180/47.5	nded chevron brand
Driving reducer oil(× 4)(L/gal_US)	30° C <the lowest="" td="" temperature<=""><td>85W/140</td><td></td><td></td></the>	85W/140		
	-10°C <the lowest="" td="" temperature<30°c<=""><td>85W/90</td><td>0.68×4 0.18×4</td><td>API GL-5</td></the>	85W/90	0.68×4 0.18×4	API GL-5
	-30 $^{\circ}$ C $<$ The lowest	80W/90		

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Operation and Safety Manual

Rotary reducer oil	temperature<-10°C			
(L/gal_US)	The lowest temperature <	75W	1.3/0.3	
	-30° C	7500		
	Working temperature:-20℃~40℃	15W-40		
Engine oil (L/gal_US)	Working temperature:-25℃~30℃	10W-30	8/2.1	API CJ-4
	Working temperature:-30℃~30℃	5W-30	0,2.1	/
	Working temperature:-35℃~20℃	0W-20		
Antifreeze (L/gal_US)	1	50% LLC/50% clean soft water	7.5/2	/
	Ambient temperature≥4℃	0 #Diesel		ULSD
Diesel (L/gal_US)	Ambient temperature≥-5℃	-10 #Diesel	100/26.4	EN590 and ASTM D 975
Diesei (L/gai_03)	Ambient temperature≥-14℃	-20 #Diesel	100/20.4	
	Ambient temperature≥-29℃	-35 #Diesel		0 373
The inner track of gyration support	/	Lithium base grease 2#	Moderate	/
The surface of the gear	/	Lithium base grease 2#	Moderate	/

4.8 Scope of Work

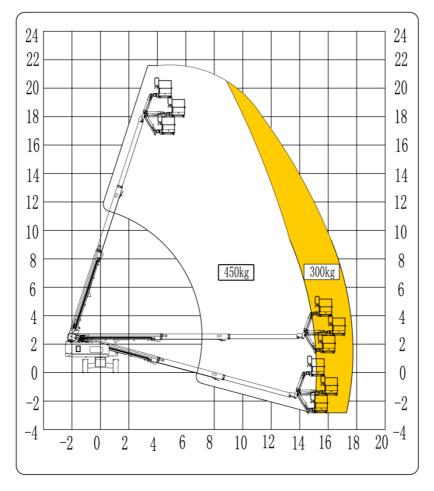


Figure 4-1 Scope of work

sequence of operation:

When operating with a ground controller: The machine motion range is automatically controlled according to the load on the platform.

When the platform load is less than 300kg/661lbs, T65J-H motion range is not restricted.

When the platform load is greater than 300kg/661lbs and less than 450kg/992lbs, T65J-H motion range is restricted.

When operating with the platform controller: The machine motion range is controlled by the load selection button switch of the platform controller.

Turn the dial button switch to 300kg/661lbs: The rated load of the machine is 300kg/, and the motion range of T65J-H is not restricted.

Turn the dial button switch to 450kg/992lbs: The restricted load of the machine is 450kg/992lbs, and the motion range of T65J-H is restricted.

T72J-H (T2217J1WNK4AH2000) machine Specifications

4.1 Machine Performance Specifications

Item	Parameter	Item	Parameter	
Pated load (kg/lbs)	300/661	One rotation of turntable	80-90	
Rated load (kg/lbs)	2 people	(Stowed) (S)	80-90	
	450/992	One rotation of turntable	135-150	
Restricted load (kg/lbs)	3 people	(The boom extends to 13.3m/43.6ft) (S)		
Maximum working height (m/ft)	23.8/78.1	Main Boom ascent (S)	60-70	
Maximum platform height (m/ft)	21.8/71.5	Main Boom descent (S)	60-70	
Maximum horizontal extension (m/ft)	17/55.8	Boom extension (S)	65-75	
Driving Speed (Stowed) (km/h/mph)	4.8±0.25/ 3±0.16	Boom retraction (S)	60-70	
Driving Speed (Raised or extended state) (km/h/mph)	0.8±0.05/ 0.5±0.03	Jib lift (S)	40-50	
Machine climbing speed (Stowed) (km/h/mph)	1.2≪v≪1.5/ 0.7≪v≪0.9	Jib descent (S)	20-35	
Machine climbing speed (Raised or extended state) (km/h/mph)	0.3≪v≪0.8/ 0.2≪v≪0.3	Platform rotation (S)	13-26	
Minimum turning radius (inner wheel) (m/ft)	2.5/8.2	Maximum tilt angle allowed	5°	
Minimum turning radius (outer wheel) (m/ft)	5.5/18	Machine weight (kg/lbs)	12300/27117	
Theoretical gradeability	45%	Maximum allowable wind speed(m/s/mph)	12.5/28	
Maximum braking distance (no-load, stowed) (m/ft)	1≤S≤1.5/ 3.3≤S≤4.9	Maximum manual force (N)	400	

4.2 Main Dimensions

Item	Parameter	Item	Parameter
Machine length (mm/in)	11000/433	Wheelbase (front/rear) (mm/in)	2510/99
Machine width (mm/in)	2490/98	Tread (mm/in)	2130/84
Machine height (mm/in)	2775/109	Ground clearance (retracted state) (mm/in)	395/15.5
Work platform size (length × width) (mm/in)	2440×900/ 96×35	Tire specifications (Diameter×width)(mm/in)	937×360/ 36.9×14.2

4.3 Electrical System

Item		Parameter/Content
	Model	6-QW-120B
Battery	Output voltage (V)	12
	Capacity (Ah)	120(20 hours)
Control system	Voltage (V)	12



4.4 Hydraulic System

Item			Parameter/Content
Driving system		Туре	Closed system
		Working pressure (Mpa)	28
		Displacement of pump(ml/r)	46
	Туре		Open system
	Displacement of pump(ml/r)		28
Function system	Lifting system(Mpa)	Working pressure (Mpa)	22
eyetem	Rotary system	Working pressure (Mpa)	9
	Steering system	Working pressure (Mpa)	18

4.5 Drive System

Item		Parameter/Content	
Driving reducer	Output torque (N*m)	3390	
Rotary reducer	Output torque (N*m)	3060	

4.6 Engine System

Item	Parameter	Item	Parameter	
Model	V2403-CR-E5B	Rated revolving speed (r/min)	d 2600	
Displacement (L)	2.4	Maximum torque (N•m) revolving speed (r/min)	159.8/1600	
Rated power (kW)	36	Emission standard	EPA Tier 4f	

AUTION: Select corresponding brand of fuel oil according to the local working

environment temperature, and refer to the Kubota V2403-CR-E5B Engine User Manual for fuel recommendations and technical specifications.

4.7 Fueling/Grease Capacity

Item	Condition	Oil viscosity brand	Capacity	Remarks
Hydraulic oil(L/gal_US)	The lowest temperature> -25℃	L-HV32 Low		
		temperature		
		hydraulic oil	400/47 5	Recomme
	-40℃ <the lowest<="" td=""><td>L-HS32 Ultra low</td><td>nded</td></the>	L-HS32 Ultra low		nded
		temperature	180/47.5	chevron
	temperature≤-25℃	hydraulic oil		brand
	The lowest temperature \leq	10# Aviation		
	-40 °C	hydraulic oil		
Driving reducer oil (X	30° C <the lowest<="" td=""><td>85W/140</td><td></td><td></td></the>	85W/140		
4) (L/gal_US)	temperature	0377/140	0.68×4	
(= 9•==••)	-10 $^{\circ}$ C <the lowest<="" td=""><td>85W/90</td><td>0.18×4</td><td></td></the>	85W/90	0.18×4	
	temperature<30°C	05///90	0.10/14	API GL-5
Rotary reducer oil(L/gal_US)	-30 $^{\circ}$ C <the lowest<="" td=""><td>80\\//00</td><td></td><td></td></the>	80\\//00		
	temperature<-10°C	80W/90	1.3/0.3	



	The lowest temperature $<$ -30 $^{\circ}$ C	75W		
Engine oil(L/gal_US)	Working temperature:-20℃~40℃	15W-40	8/8.1	API CJ-4
	Working temperature:-25℃~30℃	10W-30		
	Working temperature:-30℃~30℃	5W-30		
	Working temperature:-35℃~20℃	0W-20		
Antifreeze (L/gal_US)	/	50% LLC/50% clean soft water	7.5/8	/
Diesel (L/gal_US)	Ambient temperature≥4℃	0 #Diesel	100/26.4	ULSD
	Ambient temperature≥-5°C	-10 #Diesel		EN590 and ASTM D 975
	Ambient temperature≥-14℃	-20 Diesel		
	Ambient temperature≥-29℃	-35 Diesel		
The inner track of gyration support	/	Lithium base grease 2#	Moderate	/
The surface of the gear	/	Lithium base grease 2#	Moderate	/

4.8 Scope of Work

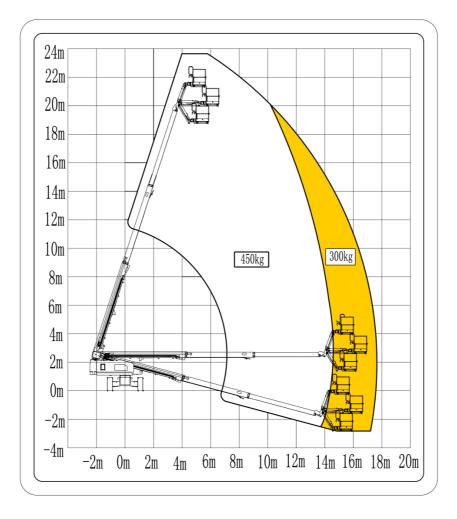


Figure 4-2 Scope of work

Sequence of operation:

When operating with a ground controller: The machine motion range is automatically controlled according to the load on the platform.

When the platform load is less than 300kg/661lbs, T72J-H motion range is not restricted.

When the platform load is greater than 300kg/661lbs and less than 450kg/992lbs, T72J-H motion range is restricted.

When operating with the platform controller: The machine motion range is controlled by the load selection button switch of the platform controller.

Turn the dial button switch to 300kg/661lbs: The rated load of the machine is 300kg/661lbs, and the motion range of T72J-H is not restricted.

Turn the dial button switch to 450kg/992lbs: The restricted load of the machine is 450kg/992lbs, and the motion range of T72J-H is restricted.

T85J-H (T2622J1WNK4AH2000) machine Specifications

4.1 Machine Performance Specifications

Item	Parameter	Item	Parameter	
Poted load (kg/lba)	300/661	One rotation of turntable	90-110	
Rated load (kg/lbs)	2 people	(Stowed) (S)		
	450/992	One rotation of turntable (The	160-175	
Restricted load (kg/lbs)	3 people	boom extends to 16.3m/53.5ft) (S)		
Maximum working height (m/ft)	27.9/91.5	Main Boom ascent (S)	70-90	
Maximum platform height (m/ft)	25.9/85	Main Boom descent (S)	70-90	
Maximum horizontal extension (m/ft)	22.3/73.2	Boom extension (S)	55-73	
Driving Speed (Stowed) (km/h/mph)	4.8±0.25/ 3±0.16	Boom retraction (S)	55-73	
Driving Speed (Raised or extended state) (km/h/mph)	0.8±0.05/ 0.5±0.03	Jib lift (S)	40-50	
Machine climbing speed (Stowed) (km/h/mph)	1.2≤v≤1.5/ 0.7≤v≤0.9	Jib descent (S)	20-35	
Machine climbing speed (Raised or extended state) (km/h/mph)	0.3≤v≤0.8/ 0.2≤v≤0.3	Platform rotation (S)	13-26	
Minimum turning radius (inner wheel) (m/ft)	3.66/12	Maximum tilt angle allowed	5°	
Minimum turning radius (outer wheel) (m/ft)	6.55/21.5	Machine weight (kg/lbs)	18300/40345	
Theoretical gradeability	45%	Maximum allowable wind speed(m/s/mph)	12.5/28	
Maximum braking distance (no-load, stowed) (m/ft)	1≤S≤1.5/ 3.3≤S≤4.9	Maximum manual force (N)	400	

4.2 Main Dimensions

Item	Parameter	Item	Parameter
Machine length (mm/in)	12720/501	Wheelbase (front/rear) (mm/in)	2850/112
Machine width (mm/in)	2500/98	Tread (mm/in)	2050/80.7
Machine height (mm/in)	2825/111	Ground clearance (retracted state) (mm/in)	425/17
Work platform size (length × width) (mm/in)	2440×900/ 96×35	Tire specifications (Diameter \times width) (mm/in)	1033×450/ 40.7×17.7

4.3 Electrical System

Item		Parameter/Content
	Model	6-QW-120B
Battery	Output voltage (V)	12
	Capacity (Ah)	120(20 hours)
Control system	Voltage (V)	12



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4.4 Hydraulic System

Item			Parameter/Content
Driving system		Туре	Closed system
		Working pressure (Mpa)	30
		Displacement of pump(ml/r)	46
Т		уре	Open system
	Displacement of pump(ml/r)		35
Function system	Lifting system(Mpa)	Working pressure (Mpa)	22
	Rotary system	Working pressure (Mpa)	9
	Steering system	Working pressure (Mpa)	18

4.5 Drive System

Item		Parameter/Content
Driving reducer Output torque (N*m)		5500
Rotary reducer	Output torque (N*m)	3060

4.6 Engine System

Item	Parameter	Item	Parameter
Model	V3307-CR-TE5AB	Rated revolving speed (r/min)	2200
Displacement (L)	3.3	Maximum torque (N•m) revolving speed (r/min)	289.3/1500
Rated power (kW)	55.4	Emission standard	EPA Tier 4f

AUTION: Select corresponding brand of fuel oil according to the local working

environment temperature, and refer to the Kubota V3307-CR-TE5AB Engine User Manual for fuel recommendations and technical specifications.

4.7 Fueling/Grease Capacity

Item	Condition	Oil viscosity brand	Capacity	Remarks
	The lowest temperature $>$ -25 $^\circ\!\mathbb{C}$	L-HV32 Low temperature hydraulic oil		Recomme
Hydraulic oil(L/gal_US)	-40℃ <the lowest="" temperature≤<br="">-25℃</the>	L-HS32 Ultra low temperature hydraulic oil	180/47.5	nded chevron brand
	The lowest temperature \leqslant -40 $^\circ\!\mathrm{C}$	10# Aviation hydraulic oil		
Driving reducer oil	30° C <the lowest="" td="" temperature<=""><td>85W/140</td><td></td><td></td></the>	85W/140		
(×4) (L/gal_US)	-10° C <the <30°="" c<="" lowest="" td="" temperature=""><td>85W/90</td><td>1.5×4/ 0.4×4</td><td>API GL-5</td></the>	85W/90	1.5×4/ 0.4×4	API GL-5
Rotary reducer	-30° C <the lowest="" temperature<br=""><-10° C</the>	80W/90		

LGMG North America Inc.		Оре	ration and Saf	ety Manual
oil(L/gal_US)	The lowest temperature ${<}{-}30^\circ$ C	75W	1.3/0.3	
	Working temperature:-20°C~40°C	15W-40		
Engine	Working temperature:-25°C~30°C	10W-30	9.5/2.5	
oil(L/gal_US)	Working temperature:-30°C~30°C	5W-30	9.3/2.3	API CJ-4
	Working temperature:-35℃~20℃	0W-20		
Antifreeze	/	50% LLC/50%	9.3/2.5	/
(L/gal_US)	7	clean soft water	0.0/2.0	/
	Ambient temperature≥4°C	0 #Diesel		ULSD
Diesel (L/gal_US)	Ambient temperature≥-5℃	-10 #Diesel	100/26.4	EN590 and ASTM D 975
Diesei (L/gai_00)	Ambient temperature≥-14°C	-20 Diesel		
	Ambient temperature≥-29℃	-35 Diesel		0 373
The inner track of	1	Lithium base	Moderate	/
gyration support	,	grease 2#	Moderate	/
The surface of the	/	Lithium base	Moderate	/
gear	,	grease 2#	moderate	/

4.8 Scope of Work

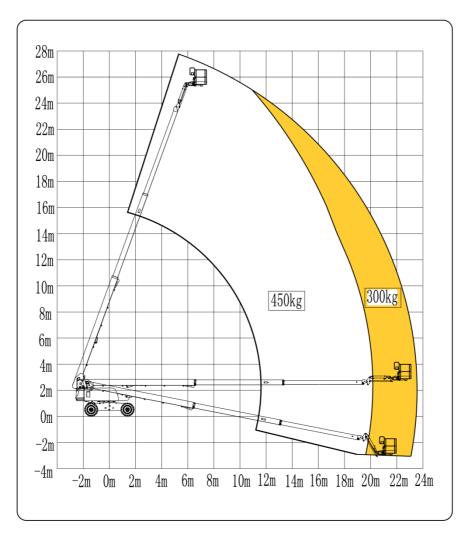


Figure 4-3 Scope of work

Operation and Safety Manual

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sequence of operation:

When operating with a ground controller: The machine motion range is automatically controlled according to the load on the platform.

When the platform load is less than 300kg/661lbs, T85J-H motion range is not restricted.

When the platform load is greater than 300kg/661lbs and less than 450kg/992lbs, T85J-H motion range is restricted.

When operating with the platform controller: The machine motion range is controlled by the load selection button switch of the platform controller.

Turn the dial button switch to 300kg/661lbs: The rated load of the machine is 300kg/661lbs, and the motion range of T85J-H is not restricted.

Turn the dial button switch to 450kg/992lbs: The restricted load of the machine is 450kg/992lbs, and the motion range of T85J-H is restricted.

T85J-H (T2622J1WND4AH2000) machine Specifications

4.1 Machine Performance Specifications

Item	Parameter	Item	Parameter	
Poted load (kg/lba)	300/661	One rotation of turntable	90-110	
Rated load (kg/lbs)	2 people	(Stowed) (S)		
	450/992	One rotation of turntable (The		
Restricted load (kg/lbs)	3 people	boom extends to 16.3m/53.5ft) (S)	160-175	
Maximum working height (m/ft)	27.9/91.5	Main Boom ascent (S)	70-90	
Maximum platform height (m/ft)	25.9/85	Main Boom descent (S)	70-90	
Maximum horizontal extension (m/ft)	22.3/73.2	Boom extension (S)	55-73	
Driving Speed (Stowed) (km/h/mph)	4.8±0.25/ 3±0.16	Boom retraction (S)	55-73	
Driving Speed (Raised or extended state) (km/h/mph)	0.8±0.05/ 0.5±0.03	Jib lift (S)	40-50	
Machine climbing speed (Stowed) (km/h/mph)	1.2≪v≪1.5/ 0.7≪v≪0.9	Jib descent (S)	20-35	
Machine climbing speed (Raised or extended state) (km/h/mph)	0.3≪v≪0.8/ 0.2≪v≪0.3	Platform rotation (S)	13-26	
Minimum turning radius (inner wheel) (m/ft)	3.66/12	Maximum tilt angle allowed	5°	
Minimum turning radius (outer wheel) (m/ft)	6.55/21.5	Machine weight (kg/lbs)	18300/40345	
Theoretical gradeability	45%	Maximum allowable wind speed(m/s/mph)	12.5/28	
Maximum braking distance (no-load, stowed) (m/ft)	1≤S≤1.5/ 3.3≤S≤4.9	Maximum manual force (N)	400	

4.2 Main Dimensions

Item	Parameter	Item	Parameter
Machine length (mm/in)	12720/501	Wheelbase (front/rear) (mm/in)	2850/112
Machine width (mm/in)	2500/98	Tread (mm/in)	2050/80.7
Machine height (mm/in)	2825/111	Ground clearance (retracted state) (mm/in)	425/17
Work platform size (length × width) (mm/in)	2440×900/ 96×35	Tire specifications (Diameter \times width) (mm/in)	1033×450/ 40.7×17.7

4.3 Electrical System

Item		Parameter/Content
	Model	6-QW-120B
Battery	Output voltage (V)	12
	Capacity (Ah)	120(20 hours)
Control system	Voltage (V)	12



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4.4 Hydraulic System

Item			Parameter/Content
Driving system		Туре	Closed system
		Working pressure (Mpa)	30
		Displacement of pump(ml/r)	46
Г		Гуре	Open system
	Displacement of pump(ml/r)		35
Function system	Lifting system(Mpa)	Working pressure (Mpa)	22
	Rotary system	Working pressure (Mpa)	9
	Steering system	Working pressure (Mpa)	18

4.5 Drive System

Item		Parameter/Content
Driving reducer	Output torque (N*m)	5500
Rotary reducer	Output torque (N*m)	3060

4.6 Engine System

Item	Parameter	Item	Parameter
Model	TD2.9L4	Rated revolving speed (r/min)	2600
Displacement (L)	2.925	Maximum torque (N•m) revolving speed (r/min)	260/1800
Rated power (kW)	55.4	Emission standard	EPA Tier 4f

AUTION: Select corresponding brand of fuel oil according to the local working

environment temperature, and refer to the Deutz TD2.9L4 Engine User Manual for fuel recommendations and technical specifications.

4.7 Fueling/Grease Capacity

Item	Condition	Oil viscosity brand	Capacity	Remarks
	The lowest temperature $>$ -25 $^\circ\!\mathbb{C}$	L-HV32 Low temperature hydraulic oil		Recomme
Hydraulic oil(L/gal_US)	-40℃ <the lowest="" temperature≤<br="">-25℃</the>	L-HS32 Ultra low temperature hydraulic oil	180/47.5	nded chevron brand
	The lowest temperature \leqslant -40 $^\circ\!\mathrm{C}$	10# Aviation hydraulic oil		
Driving reducer oil	30° C <the lowest="" td="" temperature<=""><td>85W/140</td><td></td><td></td></the>	85W/140		
(×4) (L/gal_US)	-10° C <the <30°="" c<="" lowest="" td="" temperature=""><td>85W/90</td><td>1.5×4/ 0.4×4</td><td>API GL-5</td></the>	85W/90	1.5×4/ 0.4×4	API GL-5
Rotary reducer	-30° C <the lowest="" temperature<br=""><-10° C</the>	80W/90		

	LGMG North America Inc.	Оре	ration and Saf	ety Manual
oil(L/gal_US)	The lowest temperature ${<}{-}30^\circ$ C	75W	1.3/0.3	
	Working temperature:-20°C~40°C	15W-40		
Engine	Working temperature:-25°C~30°C	10W-30	95/22	API CH-4
oil(L/gal_US)	Working temperature:-30°C~30°C	5W-30	8.5/2.2	API CH-4
	Working temperature:-35℃~20℃	0W-20		
Antifreeze	1	50% LLC/50%	9.3/2.5	/
(L/gal_US)	,	clean soft water	0.0/2.0	,
	Ambient temperature≥4°C	0 #Diesel		ULSD
Diesel (L/gal_US)	Ambient temperature≥-5℃	-10 #Diesel	100/26.4	EN590
Diesei (L/gai_03)	Ambient temperature≥-14℃	-20 Diesel	100/20.4	and ASTM D 975
	Ambient temperature≥-29℃	-35 Diesel		0 975
The inner track of	/	Lithium base	Moderate	/
gyration support	7	grease 2#	moderate	/
The surface of the	/	Lithium base	Moderate	/
gear	,	grease 2#	moderate	,

4.8 Scope of Work

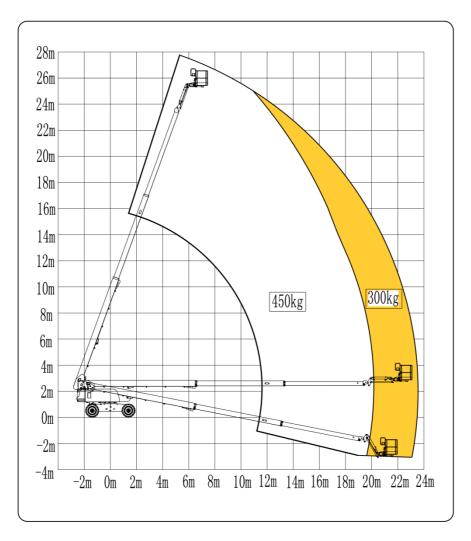


Figure 4-3 Scope of work

sequence of operation:

When operating with a ground controller: The machine motion range is automatically controlled according to the load on the platform.

When the platform load is less than 300kg/661lbs, T85J-H motion range is not restricted.

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When the platform load is greater than 300kg/661lbs and less than 450kg/992lbs, T85J-H motion range is restricted.

When operating with the platform controller: The machine motion range is controlled by the load selection button switch of the platform controller.

Turn the dial button switch to 300kg/661lbs: The rated load of the machine is 300kg/661lbs, and the motion range of T85J-H is not restricted.

Turn the dial button switch to 450kg/992lbs: The restricted load of the machine is 450kg/992lbs, and the motion range of T85J-H is restricted.

T92J-H (T2823J1WNK4AH2000) machine Specifications

4.1 Machine Performance Specifications

Item	Parameter	Item	Parameter	
Poted load (kg/lba)	300/661	One rotation of turntable	95-110	
Rated load (kg/lbs)	2 people	(Stowed) (S)	95-110	
	450/992	One rotation of turntable (The	170-190	
Restricted load (kg/lbs)	3 people	boom extends to 17.5m/57.4ft) (S)		
Maximum working height (m/ft)	29.8/97.8	Main Boom ascent (S)	80-100	
Maximum platform height (m/ft)	27.8/91.2	Main Boom descent (S)	80-100	
Maximum horizontal extension (m/ft)	22.5/73.8	Boom extension (S)	64-77	
Driving Speed (Stowed) (km/h/mph)	4.8±0.25/ 3±0.16	Boom retraction (S)	62-75	
Driving Speed (Raised or extended state) (km/h/mph)	0.8±0.05/ 0.5±0.03	Jib lift (S)	40-50	
Machine climbing speed (Stowed) (km/h/mph)	1.2≪v≪1.5/ 0.7≪v≪0.9	Jib descent (S)	20-35	
Machine climbing speed (Raised or extended state) (km/h/mph)	0.3≤v≤0.8/ 0.2≤v≤0.3	Platform rotation (S)	13-26	
Minimum turning radius (inner wheel) (m/ft)	3.66/12	Maximum tilt angle allowed	5°	
Minimum turning radius (outer wheel) (m/ft)	6.55/21.5	Machine weight (kg/lbs)	18800/41447	
Theoretical gradeability	45%	Maximum allowable wind speed(m/s/mph)	12.5/28	
Maximum braking distance (no-load, stowed) (m/ft)	1≤S≤1.5/ 3.3≤S≤4.9	Maximum manual force (N)	400	

4.2 Main Dimensions

Item	Parameter	Item	Parameter
Machine length (mm/in)	13400/528	Wheelbase (front/rear) (mm/in)	2850/112
Machine width (mm/in)	2500/98	Tread (mm/in)	2050/80.7
Machine height (mm/in)	2825/111	Ground clearance (retracted state) (mm/in)	425/17
Work platform size (length × width) (mm/in)	2440×900/ 96×35	Tire specifications (Diameter \times width) (mm/in)	1033×450 40.7×17.7

4.3 Electrical System

Item		Parameter/Content
	Model	6-QW-120B
Battery	Output voltage (V)	12
	Capacity (Ah)	120(20 hours)
Control system	Voltage (V)	12



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4.4 Hydraulic System

Item			Parameter/Content
Driving system		Туре	Closed system
		Working pressure (Mpa)	30
		Displacement of pump(ml/r)	46
	Туре		Open system
	Displacement of pump(ml/r)		35
Function system	Lifting system(Mpa)	Working pressure (Mpa)	22
eyetetti	Rotary system	Working pressure (Mpa)	9
	Steering system	Working pressure (Mpa)	18

4.5 Drive System

Item		Parameter/Content
Driving reducer	Output torque (N*m)	5500
Rotary reducer	Output torque (N*m)	3060

4.6 Engine System

Item	Parameter	Item	Parameter
Model	V3307-CR-TE5AB	Rated revolving speed (r/min)	2200
Displacement (L)	3.3	Maximum torque (N•m) revolving speed (r/min)	289.3/1500
Rated power (kW)	55.4	Emission standard	EPA Tier 4f

AUTION: Select corresponding brand of fuel oil according to the local working

environment temperature, and refer to the Kubota V3307-CR-TE5AB Engine User Manual for fuel recommendations and technical specifications.

4.7 Fueling/Grease Capacity

Item	Condition	Oil viscosity brand	Capacity	Remarks
	The lowest temperature $>$ -25 $^\circ \!$	L-HV32 Low temperature hydraulic oil		Recomme
Hydraulic oil(L/gal_US)	-40℃ <the lowest="" temperature≤<br="">-25℃</the>	L-HS32 Ultra low temperature hydraulic oil	180	nded chevron brand
	The lowest temperature \leqslant -40 $^\circ\!\mathrm{C}$	10# Aviation hydraulic oil		
Driving reducer	30° C <the lowest="" td="" temperature<=""><td>85W/140</td><td></td><td></td></the>	85W/140		
oil(×4) (L/gal_US)	-10° C <the <30°="" c<="" lowest="" td="" temperature=""><td>85W/90</td><td>1.5×4 0.4×4</td><td>API GL-5</td></the>	85W/90	1.5×4 0.4×4	API GL-5
	-30° C <the lowest="" temperature<br=""><-10° C</the>	80W/90		

	LGMG North America Inc.	Оре	eration and Saf	ety Manual
Rotary reducer oil(L/gal_US)	The lowest temperature $<$ -30 $^\circ$ C	75W	1.3/0.3	
	Working temperature:-20℃~40℃	15W-40		
Engine	Working temperature:-25°C~30°C	10W-30	0 5/0 5	
oil(L/gal_US)	Working temperature:-30°C~30°C	5W-30	9.5/2.5	API CJ-4
	Working temperature:-35℃~20℃	0W-20		
Antifreeze	/	50% LLC/50%	9.3/2.5	/
(L/gal_US)	,	clean soft water		
	Ambient temperature≥4℃	0 #Diesel		ULSD
Diesel	Ambient temperature≥-5℃	-10 #Diesel	100/26.4	EN590
(L/gal_US)	Ambient temperature≥-14℃	-20 Diesel	100/20.4	and ASTM D 975
	Ambient temperature≥-29℃	-35 Diesel		0 975
The inner track of	/	Lithium base	Moderate	/
gyration support	/	grease 2#	woderate	/
The surface of	/	Lithium base	Moderate	/
the gear	1	grease 2#	moderate	,

4.8 Scope of Work

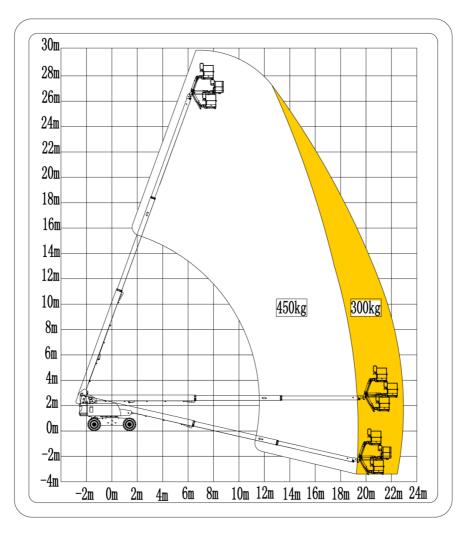


Figure 4-4 Scope of work

Sequence of operation:

When operating with a ground controller: The machine motion range is automatically controlled according to the load on the platform.

When the platform load is less than 300kg/661lbs, T92J-H motion range is not restricted.

When the platform load is greater than 300kg/661lbs and less than 450kg/992lbs, T92J-H motion range is restricted.

When operating with the platform controller: The machine motion range is controlled by the load selection button switch of the platform controller.

Turn the dial button switch to 300kg/661lbs: The rated load of the machine is 300kg/661lbs, and the motion range of T92J-H is not restricted.

Turn the dial button switch to 450kg/992lbs: The restricted load of the machine is 450kg/992lbs, and the motion range of T92J-H is restricted.



Chapter 5 Control Box



5.1 Lower Control Box

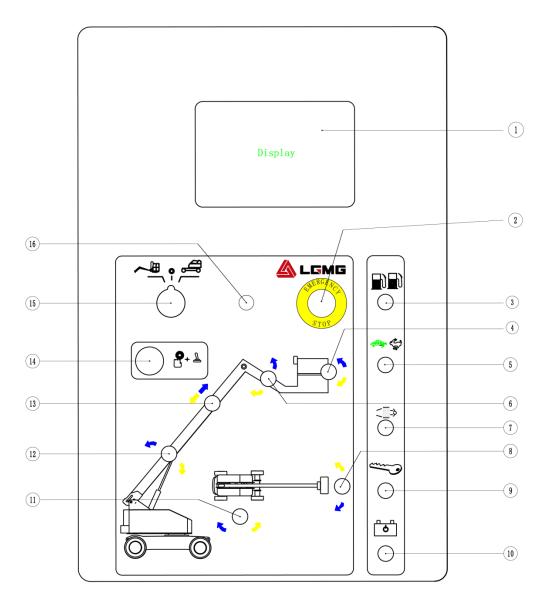


Figure 5-1 Panel of the lower control box

No.	Name	No.	Name
1	Display	9	Engine start switch
2	Emergency stop switch	10	Emergency power unit switch
3	Gasoline/LPG model: Fuel selector switch (Reserve)	11	Turntable rotary switch
4	Platform leveling switch	12	Boom up/down switch
5	Engine idle speed (rpm) selector switch (Reserve)	13	Boom extension/retraction switch
6	Jib up/down switch	14	Function enable button
7	Manual DPF regeneration switch	15	Key switch
8	Platform rotary switch	16	10A self-resetting fuse for controlling circuit

Table 5-1 Names of the functions of the lower control panel

The table below describes the functions of the button/toggle switches:

ltem	Button/Toggle Switch	Function Description		
	Key switch	Turn the key switch to the platform position, and the upper control box will work. Turn the key switch to the off position, and the machine will be turned off. Turn the key switch to the chassis position, and the lower control box will work.		
	Engine start switch	Move the engine start switch to one side for 2-3S to start the engine.		
	Emergency stop switch	Push the red "emergency stop" button inward to the off position to stop all functions; Rotate the red "emergency stop" button to the on position to operate the machine and the warning light flashes.		
	Function enable button	If you do not press and hold the function enable button, all boom and platform functions will not work. Press and hold the function enable button and start each boom and platform function toggle switch to run all boom and platform functions.		
Lower c	Emergency power switch	If the main power source (engine) fails, please use the emergency power unit. Start the required function while keeping the emergency power unit switch on.		
Lower control box	 Turn the key toggle switch to the lower control box. Rotate the red "emergency stop" button outward to the on position. 			
X	3. Press the function enable button.			
	Platform rotary switch	Move the platform rotary switch upward, the platform will rotate to the right; move the platform rotary switch downward, the platform will rotate to the left.		
	Turntable rotary switch	Move the toggle switch to the right, the turntable will rotate to the right; move the toggle switch to the left, the turntable will rotate to the left.		
	Boom up/down switch	Move the toggle switch up, the boom will rise; move the toggle switch down, the boom will descend. When the boom descends, the buzzer should sound; When the boom is swung to the maximum and minimum positions, the buzzer will sound.		
	Boom extension/retraction switch	Move the toggle switch up, the boom will extend; move the toggle switch down, the boom will retracted. When the boom extends and retracts to the maximum position, the buzzer will sound.		
	Jib up/down switch	Move the toggle switch up, the Jib will rise; move the toggle switch down, the Jib will descend.		
	Platform leveling switch	Move the platform leveling switch up, the platform level will rise; move the platform leveling switch down, the platform level will descend.		

Table 5-2 Description of functions of the toggle switches on the lower control box panel

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5.2 Upper Control Box

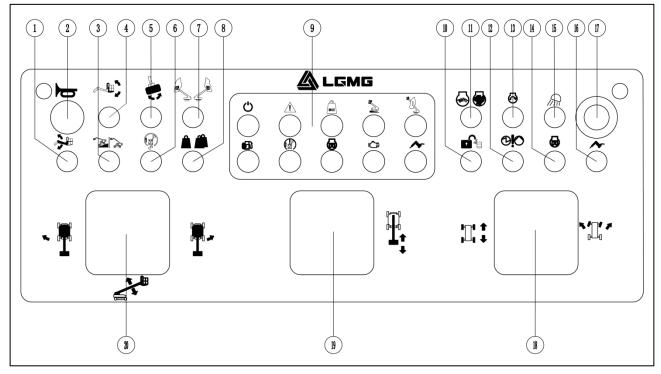


Figure 5-2 Panel of the upper control box

Number	Name	Number	Name
1	Jib up/down switch	11	Engine idle speed selector switch
2	Horn switch	12	Emergency power unit switch
3	Drive speed selector switch	13	Engine start switch
4	Platform leveling switch	14	Engine warm up switch(If equipped)
5	Platform rotary switch	15	Boom lamp(If equipped)
6	Drive enable switch	16	Generator switch(If equipped)
7	reserve	17	Emergency stop switch
8	Load selection switch	18	Drive/steering control handle
9	Indicator light	19	Boom extension and retraction control handle
10	Override switch (Reserve)	20	Boom up/down and turntable rotary control handle

Table 5-3 Names of the functions of the upper control box panel

The table below describes the functions of the button/toggle switches on the upper control box.

Item	Button/Toggle Switch	Function Description		
	Engine start switch	0	Move the engine start switch to one side for 2-3S to start the engine.	
	Engine warm up switch (If equipped)	00	When starting at a low temperature, turn the toggle switch to upper side to warm up the engine, and then pull back the toggle switch to stop warming up.	
	Emergency stop switch	STOP	Push the red "emergency stop" button inward to the off position, you can stop all upper control functions and shut down the engine without any impact on the lower control box. Rotate the red "emergency stop" button to the on position, you can operate the machine on the upper control box.	
	1. Turn the key toggle sw	itch to the upp	er control box.	
	 Pull the red "emergenc Step on the foot switch 		outward to the on position.	
	Platform rotary switch		Move the platform rotary switch to the right, the platform will rotate to the right. Move the platform rotary switch to the left, the platform will rotate to the left.	
Upper control box	Boom up/down and turntable rotary handle		Move the control handle to the right, the turntable will move to the right. Move the control handle to the left, the turntable will move to the left.	
			Move the control handle up, the boom will rise; Move the control handle down, the boom will descend. When the boom descends, the buzzer should sound; When the boom is swung to the maximum and minimum positions, the buzzer will sound.	
	Boom extension/retraction handle		Move the control handle down, the boom will extend; move the control handle up, the boom will retract. When the boom extends and retracts to the maximum position, the buzzer will sound.	
	Jib up/down switch	省	Move the switch up, the Jib will rise; move the switch down, the Jib will descend.	
	Platform leveling switch	~ " ;	Move the platform leveling switch up, the platform level will rise; move the platform leveling switch down, the platform level will descend.	
	Drive/steering control handle	↓	Move the control handle up, the machine will drive forward; Move the control handle down, the machine will drive backward. Press the left side of the thumb stick, the machine will	
			turn to the left; Press the right side of the thumb stick, the machine will turn to the right.	



Dri	ive speed selector switch		When the machine is on the slope symbol, it is used for driving the operation in the low speed range. At this time, the engine automatically switches to the high idle speed; When the machine is in the horizontal plane symbol, it is used for driving the high speed operating range.
Driv	ve enabling switch	(18,	When the turntable is rotated to a certain angle, the drive function cannot be operated and the drive enabling indicator alarms. Move the drive enabling toggle switch to one side and release it, and then slowly move the drive controller handle, the drive function will operate.
	ingine idle speed selector switch		Move the idle speed selector switch to the turtle position, the engine starts the low idle speed; move the idle speed selector switch to the rabbit position, step on the foot switch and turn the handle, then the engine starts the high idle speed. After releasing the handle, the engine enters the low idle speed.
Eme	ergency power unit switch	0 ! 0	If the main power source (engine) fails, please use the emergency power unit. Step on the foot switch to start the required functions while keeping the emergency power switch on.
G	Generator switch (If equipped)	\Diamond	To operate the generator, move the generator toggle switch to the on position. To stop the generator, move the generator toggle switch to the off position.
Loa	ad selection switch		Move the switch to the left side,the paltform rated load is 300kg; move the switch to the right side,the paltform maximun load is 450kg.(The working range is show in Figure 4-8).
В	oom lamp switch (If equipped)	Move the toggle switch to turn on or turn off the lamp.	

Table 5-4 Description of the functions of the toggle switches on the upper control box panel

The table below describes the functions of the LED display panel and indicators:

	Platform overweight alarm		Minimum fuel level alarm
	Drive enabling alarm		System failure alarm
(A)	Machine tilt alarm		Engine failure alarm
\land	Generator is in use	চত	Glow plugs are on

Table 5-5 Description of the functions of the LED display panel





Chapter 6 Pre-Operational Check



6.1 Before Operating the Machine, Please Ensure that:

- You are equipped with full-body protective equipment such as helmets, safety belts, safety shoes, goggles and protective gloves, and are in good physical condition.
- 2) You have understood and practiced the rules for safe operation of the machine in this operation manual.
- To avoid dangerous situations, you know and understand the safety rules before moving to the next step.
- To check the workplace, please refer to the workplace inspection section of this manual.
- 5) You read, understand and abide by all applicable government laws and regulations.
- 6) You are properly trained and qualified to operate the machine safely.
- Only qualified maintenance technicians can repair the machine according to our company's regulations.

6.2 Basic Principles

- 1) It is the operator's responsibility to conduct pre-operational check and routine maintenance.
- 2) Pre-operational check is an intuitive inspection process that is performed by the operator before each shift. The purpose of inspection is to find out whether there is a significant problem with the machine before the operator performs a functional test.
- Pre-operational checks can also be used to determine whether a routine maintenance procedure is required. The operator can only perform routine maintenance items as specified in this manual.
- 4) Please refer to the list on the next page and check each item.
- 5) If damage or any unauthorized changes different from the factory state are found, mark the machine and stop using it.
- 6) Only qualified maintenance technicians can

repair the machine. After the repair is completed, the operator must perform a pre-operational check before continuing the functional test.

Regular maintenance inspections shall be 7) performed qualified bv maintenance technicians in accordance with the manufacturer's specifications and the requirements listed in the manual.

6.3 Pre-Operational Check

- Ensure that the manual is complete, easy to read and kept in a file box in the platform. If you need to replace the manual, please contact the service personnel from LGMG.
- Ensure that all labels are clear, legible and in the right place. Please refer to the "labels" section. If you need to replace the labels, please contact the service personnel from LGMG.
- 3) Check whether the two ball valves at the oil suction port at the bottom of the hydraulic oil tank are open. They must be kept open if there are no any special circumstances, and they must be in an open state when the engine starts. Failure to open the valve before starting the engine will cause complete damage to the oil pump.
- 4) Please refer to the "maintenance" section to check whether the hydraulic oil is leaking and whether the oil level is appropriate.
- 5) Check whether the battery fluid leaks and the wiring is firm.
- 6) Please refer to the "Maintenance" section to check whether the engine oil is leaking and whether the oil level is appropriate.
- 7) Check whether the engine fuel leaks and the oil level is appropriate. When the fuel indicator lights up, please refuel in time.
- 8) Check the engine indicator. If the indicator is on, immediately ensure that the engine is off, mark the machine and check the engine thoroughly with reference to the maintenance manual.
- Check for engine coolant leaks and proper level of coolant. Add coolant if needed. See Maintenance section.

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- 10) Check for engine oil leaks and proper oil level. Add oil if needed. See Maintenance section.
- 11) Check the following parts for damage, improper installation, loose or missing parts and unauthorized changes:
- Electrical plugs, wiring and cables
- Platform controller, ground controller
- Platform control handle

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- Tilt angle sensor, long angle sensor and weighing sensor
- Display, alarm indicator, flashing light, horn, buzzer, broken rope limit switch and drive enabling limit switch
- Valve block, hose, hydraulic joint, cylinder, motor and reducer
- Fuel tank and hydraulic oil tank, hydraulic oil cooler
- Wear pad, tire and slewing bearing
- Nuts, bolts and other fasteners
- Platform entrance lift
- 12) Check the complete machine to find:
- Crack in a weld or structural member
- Dent or damage to the machine
- Severe rust, corrosion or oxidation

Ensure that all structural members and other critical components are complete and that all relevant fasteners and pins are in the correct position and tightened. After completing the inspection, ensure that the hood is properly positioned and locked.



Chapter 7 Workplace Inspection



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7.1 Basic Principles

- Workplace inspection helps the operator to determine whether the workplace is safe for operation. The operator should do this work before moving the machine to the workplace.
- It is the operator's responsibility to understand and remember the hazards in the workplace so that he/she can be aware of and avoid these problems when moving, installing and operating the machine.

7.2 Workplace Inspection

Beware of and avoid the following dangerous situations:

- Steep slope or cave
- Protruding objects, ground obstacle or debris
- Inclined surface
- Insecure or smooth surface
- Aerial obstacles and high voltage wires
- A surface support that is not sufficient to withstand the full load exerted by the machine
- The instantaneous wind speed exceeds 12.5m/s/28mph
- If the ambient temperature and humidity exceed the required temperature and humidity requirements
- The presence of unauthorized personnel
- Other possible unsafe situations





Chapter 8 Functional Test



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8.1 Basic Principles

- 1) You have understood and practiced the rules for safe operation of the machine in this operation manual.
- According to on-site needs, you have been equipped with full-body protective equipment such as helmets, safety belts, safety shoes and goggles, and are in good physical condition.
- 3) Choose a test area that is solid, level and free of obstructions.
- To avoid dangerous situations, you know and understand the safety rules before moving to the next step.
- 5) Functional tests are used for detecting faults before starting to use the machine.
- 6) The operator must follow the procedure to test all the functions of the machine.
- It's forbidden to use a malfunctioning machine. If a fault is found, the machine must be marked and stopped.
- 8) Only qualified maintenance technicians can repair the machine according to our company's regulations.
- After the repair, the operator must perform the pre-operational check and functional test again before starting to use the machine.

8.2 At the Ground Controller

- 1) Turn the key switch to the position of the lower control box.
- Rotate the red "emergency stop" button to the "ON" position, and the warning light will begin to flash.
- Please refer to the "Operation Instructions" section to start the engine.
- 4) Test emergency stop
- Rotate the red "emergency stop" button inward to the off position.

Result: The engine is off and none of the functions work.

• Pull the red emergency stop button to the "on" position to restart the engine.

- 5) Test the machine function
- Do not press and hold the function enable button. Try to enable each boom and platform function toggle switch.

Result: All boom and platform functions are not operational.

• Press and hold the function enable button and start each boom and platform function toggle switch.

Result: All boom and platform functions run for a full cycle. When the main boom descends, the buzzer sounds.

6) Test emergency power unit

CAUTION: Perform this step

when the engine is off. In order to save battery energy, test each function in half a cycle.

- Turn the key switch to the ground control and rotate the red emergency stop button to the "on" position.
- At the same time, press the emergency power unit switch to the on position and start each arm function switch.

Result: All boom functions are operational.

7) Inspect the automatic leveling of the work platform

- Start the engine from the ground.
- Press the function enable switch and use the platform leveling switch to adjust the work platform to the horizontal position.
- Raise and descend the boom through a full cycle.

Result: The work platform is always level.

8.3 On the Platform

- 1) Test emergency stop
- Turn the key switch to the platform controller.
- Enter the platform to pull out the red "emergency stop" button and start the engine.

Result: The engine is off and no function can be operated.

- 2) Test the horn
- Press the horn button.

Result: The horn sounds.

- 3) Test the foot switch
- Push the red "emergency stop" button of the platform to the off position.
- Rotate the red "emergency stop" button to the on position and do not start the engine.
- Press down the foot switch and try to start the engine by pulling the start toggle switch to upper side.

Result: The engine should not start.

• Do not press the foot switch and restart the engine.

Result: The engine should start.

• Do not press the foot switch and test the machine's actions.

Result: No functions should operate.

- 4) Test machine functions
- Press down the foot switch.
- Start each machine function control handle or toggle switch.

Result: All boom/platform actions work properly in one full cycle.

5) Test emergency power unit

CAUTION: Perform this step

when the engine is off. In order to save battery energy, test each function in half a cycle.

- Turn the key switch to platform control.
- Rotate the red emergency stop button to the "on" position on the platform control.
- Press down the foot switch.
- Simultaneously hold the emergency power unit switch to the "on" position and active each function control handle or toggle

switch.

Result: All boom and steer functions should operate.

Drive function should not operate with emergency power unit.

- 6) Test the steering
- Press down the foot switch.
- Press the left side of the thumb stick switch on the top of the drive control handle.

Result: The steering wheel rotates in the direction indicated by the blue arrow on the drive chassis.

• Press the right side of the thumb stick switch on the top of the drive control handle.

Result: The steering wheel rotates in the direction indicated by the yellow arrow on the drive chassis.

- 7) Test the drive and brake function
- Press down the foot switch.
- Slowly move the drive control handle forward until the machine begins to move, and then return the handle to the center position.

Result: The machine should move in the direction indicated by the blue arrow on the drive chassis and then stop suddenly.

 Slowly move the drive control handle backward until the machine begins to move, and then return the handle to the center position.

Result: The machine should move in the direction indicated by the yellow arrow on the drive chassis and then stop suddenly.

$\underline{\bigwedge}$ CAUTION: The brakes must be

able to stop the machine on any slope that it can climb.

- 8) Test the tilt angle sensor
- Start the engine and drive the machine to a certain slope, then make the turntable tilt 5° along the direction of the boom, which has an upward variable amplitude of 5° or an

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extension of 0.6m/2ft.

Result: The alarm on the platform sounds.

• Drive the machine to a certain slope, and then make the turntable tilt 5° along the vertical direction of the main arm, which has an upward variable amplitude of 5° or an extension of 0.6m/2ft.

Result: The alarm on the platform sounds.

- Drive the machine to a certain slope to make the buzzer sound.
- Start all boom functions in succession.
- Operate the handle to start the turntable rotary function.

Result: The upward variable amplitude of the boom cannot continue after reaching the position of 5° above the horizontal plane. The boom cannot continue to extend after an extension of 0.6m/2ft. Some boom functions can be used normally, the turntable cannot be rotated and the drive function cannot be used.

CAUTION: If the turntable tilts 5°

along the direction of the boom or 5° along the vertical direction of the boom, the boom can rise to 5° above the horizontal plane or the boom can extend more than 0.6 m/2ft. The machine should be marked immediately and stopped using.

- 9) Test the floating cylinder
- Start the engine on the platform.
- Drive the right steering wheel to a 0.1m/0.33ft high obstacle or curb.

Result: The other three tires are in close contact with the ground.

• Drive the left steering wheel to a 0.1m/0.33ft high obstacle or curb.

Result: The other three tires are in close contact with the ground.

• Drive the left rear wheel to a 0.1m/0.33ft high obstacle or curb.

Result: The other three tires are in close contact with the ground.

• Drive the right rear wheel to a 0.1m/0.33ft high obstacle or curb.

Result: The other three tires are in close contact with the ground.

10) Test the drive enabling system



Figure 8-1 Drive enabling

- Press down the foot switch and descend the boom to the retracted state.
- Rotate the turntable until the boom is turned to a certain angle, as shown in Figure 8-1.

Result: The drive enabling indicator should be flashed when the boom is at any position within the range shown.

• Move the drive control handle away from the center position.

Result: The drive function should not operate.

- Toggle up the drive enable switch and release it, then the indicator light keeping on.
- Remove the handle of drive controller slowly to get it away from the center position.

Result: The drive function shall be enabled.

CAUTION: When using the drive

enabling system, the machine may travel in the opposite direction of travel and steering control handle movement. Use the color-coded direction arrows on the drive chassis to determine the direction of movement.

11) Test the limited drive speed



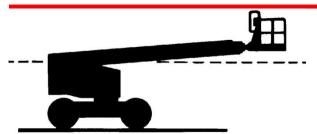


Figure 8-2 Drive limit

- Press down the foot switch.
- Raise the boom to 5° above the horizontal plane.
- Slowly move the drive control handle to the full drive position.

Result: When the boom is lifted, the maximum drive speed that can be achieved does not exceed 0.8km/h (0.5mph).

- Descend the boom to the retracted state.
- Extend the boom by about 0.6m/2ft.
- Slowly move the drive control handle to the full drive position.

Result: When the boom is in the extended state, the maximum drive speed that can be achieved does not exceed 0.8km/h (0.5mph).

CAUTION: If the drive speed of

the boom when it is raised or extended exceeds 0.8km/h (0.5mph), the machine should be marked immediately and stopped.

- 12) Test the limited rotary speed of the turntable
- Descend the boom to the retracted state.
- Extend the boom a certain length. The length of each model is shown in the following table
- Slowly move the rotary table control handle to the full drive position.

Result: it takes no less than a certain time for the boom to rotate for one circle in the extended state. The time of each model is shown in the following table.

		-
Model	Length (m/ft)	Time (S)
T65J-H	12/39.4	115
T72J-H	13.3/43.6	135
T85J-H	16.3/53.5	160
T92J-H	17.5/57.4	170

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NOTE: If it takes less than a

certain time for the boom to rotate for one circle in the extended state, the machine shall be marked immediately and stopped.

- 13) Test the platform overload
- Load more than 300kg/661lbs (under the mode that the range of motion of the boom is not restricted) or 450kg/992lbs (under the mode that the range of motion of the boom is restricted) weight on the platform.

Result: The indicator lamp is ON, the buzzer sounds, and the machine can't operate.

• Remove the load on the platform until the indicator lamp goes out.

Result: The machine can be operated.

- 14) Test the drive/boom function
- Press down the foot switch.
- Move the drive control handle away from the center position and start a boom function handle or toggle switch.

Result: The machine moves in the direction indicated on the control panel.

Most boom functions should be operational.



Chapter 9 Operation Instructions



9.1 Basic Principles

- This machine is hydraulically-driven aerial work equipment that is equipped with a work platform on a straight arm mechanism. This machine can be used to load workers and their portable tools to a certain height from the ground, or to reach a certain work area above the machine or equipment.
- 2) The operation instructions section provides specific instructions for all aspects of the operation of the machine. It is the operator's responsibility to follow all safety rules and instructions in the operation manual.
- It is unsafe and even dangerous to use this machine for any purpose other than lifting people and their tools and materials to the aerial workplace.



strictly prohibited from carrying goods or using as a crane.

4) Only trained and authorized personnel can operate the machine. If more than one operator uses the same machine at different times during the same shift, they must all be qualified operators and follow all safety rules and instructions in the operation manual. This means that every new operator should perform pre-operational checks, functional tests and workplace inspections before operating the machine.

9.2 Starting Up the Engine

- 1) On the lower control box, turn the key switch to the required position.
- 2) Turn the red "Emergency Shutdown" buttons on the lower control box to the ON position.
- 3) Models with glow plug button:

Before starting the engine at 10° C and lower temperatures, press and hold the glow plug for 5 to 10 seconds. The continuous use of the glow plug is limited to 20 seconds.

Models with automatic preheating function:

The engine can be automatically preheated at low temperatures when the whole vehicle is powered on.

- 4) Turn the startup toggle switch of the engine to either side for 2s to 3s. In the case of failure to startup or halt for the engine, disenable the startup switch for 30s during startup.
- In the case of failure to startup of the engine upon 15s, please find out the reason and repair the fault. Prior to retry of startup, wait for 60s.
- After starting the engine, keep the engine at idle speed for 5 min prior to operation to prevent damage to the lubrication system for the engine.
- 7) At temperature lower than -18℃, try to start up the engine, and boosting battery may be used.

CAUTION: Upon the normal

running of the engine, do not start up again.

9.3 Emergency Stop

- Push the red emergency stop switch on the ground or upper control box to the "OFF" position to stop all functions and shut down the engine.
- Repair any function that operates when either red emergency Stop switch is pushed in.
- Selecting and operating the ground controls will override the platform red Emergency Stop switch.
- Allow the engine to idle for 5 minutes before shutting it off after a full load operation. Failure to do so may lead to turbo-charger trouble.

9.4 Emergency Power

Where there is a fault in primary power source (engine), please use emergency power.

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1) Turn the key switch to ground or platform control.

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- 2) Pull out the red "Emergency stop" switch to the "ON" position.
- Start up the required function while keeping turning on the emergency power unit switch, and step down the pedal switch when operating on the platform.
- 4) Disenable the driving function when using emergency power, and enable steering and all boom functions.
- 5) The continuous use time of emergency power shall not exceed 7.5min.

9.5 Operating the Machine on Ground

- 1) Turn the key switch to ground control.
- 2) Turn the red "Emergency stop" button on the lower control box to the "ON" position.
- Turn the startup toggle switch of the engine to upper side for 2s to 3s, followed by starting up the engine.
- 4) Adjust platform position
- Press and hold the function enable button.
- Move the proper toggle switch according to the mark on the control panel, and adjust the platform to the suitable position. Driving and steering functions cannot be used on the ground.

9.6 Operating the Machine on the Platform

- 1) Turn the key switch to platform control.
- Turn the red "Emergency stop" buttons on the ground and the platform to the "ON" position.
- Turn the startup toggle switch of the engine to the upper side for 2s to 3s, followed by starting up the engine. Do not press down the foot switch when starting up the engine.
- 4) Adjust platform position
- Press down the foot switch.
- Slowly move the appropriate function

control handle or the toggle switch as per the mark on the control panel.

- 5) Steering
- Press down the foot switch.
- Turn the steering wheel by press the thumb rocker button on the top of the control handle. Press the button on the left side of the thumb rocker, the steering wheel of the machine will turn left; and press the button on the right side of the thumb rocker, the steering wheel of the machine will turn right.

CAUTION: Determine the steering

direction of wheel using color label direction arrows on the upper control box and the driving chassis.

- 6) Driving
- Press down the foot switch.
- Increase the speed: Slowly move the driving controller handle off center.
- Decrease the speed: Slowly move the driving controller handle toward center.
- Stop: Make the driving control handle return to the center or release the foot switch.
- When boom rises to the horizontal plane by more than 5° or extends out of 0.6m, the moving speed of machine doesn't exceed 0.8km/h.

CAUTION: Determine the

direction of driving the machine using color label direction arrows on the upper control box and the driving chassis.

- 7) Drive the machine on a slope
- Determine the rated values of machine on up-slope, down-slope and side slope.





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Maximum slope rated value, down-slope of platform (gradeability): 45% (24°)



Maximum slope rated value, up-slope of platform: 30% (17 $^\circ)$



Maximum slope rated value: 25% (14°)



limited by state of ground and tractive force. The term "gradeability" is only used in the down-slope of platform.

• Determine that the boom is located between non-steering wheels, and that the boom is lowered to below 5° of horizontal plane and is in the shrinkage state. When the turret inclines by 5° along the direction of the boom, the driving function and boom function are not limited. The driving speed selector switch can be turned to the slope sign to get larger driving force.

CAUTION: When the boom is

located above 5° of horizontal plane, the driving function will be limited, at which the boom shall be lowered to below 5°.

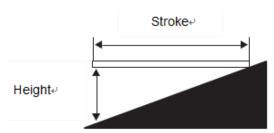
Determine slope

Measure the slope by using a digital inclinometer or as per the following steps.

- ✓ Required tools: Carpenters rule, straight wood block (with length of at least 1m), tape measure and other tools.
- Place the wood block on the slope, place the carpenters rule on the upper limb of the wood block at the end of down-slope, and lift the end of the wood block until it is

horizontal.

- Keep the wood block in the horizontal state, and measure vertical height from the bottom of the wood block to the ground.
- ✓ Height is divided by the length of wood block (stroke), i.e.,



Stroke=3.6m

lifting height=0.3m

0.3÷3.6=0.083=8.3%

<u>CAUTION:</u> If slope exceeds the

maximum rated value of up-slope, down-slope or side slope, it is necessary to lift or transport the machine up and down along the slope. Please refer to "Transport and Lift" section.

- 8) Drive enable
- The boom has removed between the two non-steering wheels if the indicator flashes, otherwise, the drive function shall be restricted.
- To drive, toggle up the drive switch and release it, while slowly moving the driving control handle off center.

$\underline{\bigwedge}$ Caution that the machine may

move in the direction opposite to the driving and steering control handle, so it is necessary to stop driving, i.e., releasing the handle or foot switch.

9) Selection of driving speed



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- The machine is located at sign on the slope: To acquire larger driving force, please select the slope sign on the inclined or rough ground.
- The machine is located at the sign on the horizontal plane: For operation of maximum driving speed.
- 10) Selection of engine idle speed
- Select engine idle speed with the sign on the control panel.
- In the case of failure to stepdown of pedal switch or toggling of handle, the engine will keep idle speed at the lowest revolution.

Turtle sign: Step down the pedal switch to activate low idle speed.

Rabbit sign: Step down the pedal switch, and toggle the handle to activate high idle speed.

11) Generator (if equipped)

Toggle up the generator button to "on" position, the indicator light is on, then the generator is started.

Toggle up the generator button to "off" position, the indicator light s off, then the generator is closed.

9.7 Platform Overload

The platform overload indicating lamp is ON, and the buzzer gives an alarm. Unload from the platform until the indicating lamp is OFF before continuing to operate.

9.8 Non-Level State of the Machine

If the platform is lifted (the boom is located above 5° of horizontal plane or extends out of more than 0.6m/2ft), the inclination alarm sounds, the non-level indicating lamp of the machine is ON, and the driving function is not activated in two directions. Determine the state of the boom on slope, shown as below. Before moving the machine to the solid and horizontal ground, lower the arm lever as per the following steps. Before lowering the arm lever, do not rotate the arm lever.



If the inclination alarm sounds on the up-slope of platform:

- 1. Lower the boom.
- 2. Retract the boom.



If the inclination alarm sounds on the down-slope of platform:

- 1. Retract the boom.
- 2. Lower the boom.

9.9 System Fault

The buzzer gives an alarm, and the system fault indicating lamp is ON, indicating that the control system goes wrong. The liquid crystal display will display the corresponding fault code, and the corresponding functions of the machine will be shut down, shown as Table 9-1.

When the system indicating lamp is ON, operate as per the following steps:

- 1) Lower and retract the boom.
- Move the machine to the storage position, shut down the engine, mark the machine and shut down.
- The machine can be used again only after relevant qualified personnel maintain, troubleshoot and conduct complete inspection.
- 4) System fault code is shown as the following figure:

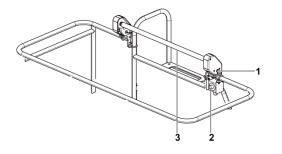
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error code	Description	Limit action	
1	Controller output power supply 1 open circuit	Main boom upper luffing	
2	Controller output power supply 2 open circuit	Main boom upper luffing	
3	Controller output power supply 3, 4 open circuit	Main boom upper luffing	
4	The CAN bus of the expansion module of the platform electric box is disconnected	Equivalent to the limit logic of all three handle failures and load cell failures	
5	The display bus of the lower control box is disconnected	No data on display	
7	Turntable tilt sensor failure	Main boom upper luffing, main boom lower luffing, main boom extended, main boom retracted, turntable rotation, walking	
8	Load cell 1 failure	Main boom upper luffing	
9	Load cell 2 failure	Main boom upper luffing	
10	Load cell 3 failure	Main boom upper luffing	
11	Load cell 4 failure	Main boom upper luffing	
12	Left handle failure	Main boom upper luffing 、 main boom lower luffing (platform operation), turntable rotation (platform operation)	
13	Right handle failure	Main boom upper luffing、walking、steering	
14	Middle handle failure	Main boom upper luffing, main boom extended, main boom retracted (platform operation)	
15	Wire rope disconnect	Main boom upper luffing, main boom lower luffing, main boom extended, main boom retracted、turntable rotation, walking	
16	Main boom angle sensor 1 failure	Main boom upper luffing	
17	Main boom angle sensor 2 failure	Main boom upper luffing	
18	Main boom angle sensor calibration failure	Main boom upper luffing	
19	Boom length sensor 1 failure	Main boom upper luffing、main boom extended	
20	Boom length sensor 2 failure	Main boom upper luffing、main boom extended	
21	Main arm length sensor calibration failure	Main boom upper luffing、main boom extended	
22	Load cell calibration failure	Main boom upper luffing	
23	Main boom retraction approach switch 1 failure	Main boom upper luffing	
24	Main boom retraction approach switch 2 failure	Main boom upper luffing	
25	Main boom extension approach switch 3 failure	Main boom upper luffing	
26	Main boom extension approach switch 4 failure	Main boom upper luffing	
27	Engine ECU communication failure	Engine start up failure	
101	The maximum angle of the boom is limited upward	Main boom upper luffing	
102	The minimum angle of the main boom is limited downward	main boom lower luffing	
103	Maximum boom extension limit	main boom extended	
104	The minimum length of the main boom retracts limit	main boom retracted	
105	Turntable tilt		

<u></u> ▲L	LGMG North America Inc.	Operation and Safety Manual
106	The turntable is tilted, the main boom angle is greater than positive 5 degrees, the main boom is up and the main boom is extended	Main boom upper luffing, main boom extended turntable rotation, walking
107	The turntable is tilted, the extension length of the main boom exceeds 60cm, the main boom is in the upward range, and the main boom extension is limited	Main boom upper luffing, main boom extended turntable rotation, walking
109	Drive does not enable travel function limit	Walking
110	Platform overload	Limit all actions
111	Long angle sensor bus disconnected	Main boom upper luffing, main boom extended
112	Long angle sensor failure	Main boom upper luffing, main boom extended
113	Low fuel level alarm	
114	Operating range exceeds the safety zone limit	Main boom lower luffing, main boom extended
115	Manual lock reminder	Main boom upper luffing, main boom extended
116	Manually lock the car	Main boom upper luffing, main boom extended、 walking
117	GPS and ECU do not match	
118	GPS is removed	Main boom upper luffing, main boom extended
119	The platform load is less than 100kg	Boom luffing down, boom extension, boom retraction, rotary table slewing, fly jib luffing, platform leveling
120	Operation sequence warning	
121	Enable Timeout	
122	Wrong selection of superstructure and chassis	

Table 9-1 System fault codes and limit actions

9.10 SkyGuard Instructions



- 1. Flashing alarm
- 2. Override switch
- 3. Safety pole
- The SkyGuard protective system aims to create safe and convenient operating environment for operators on the basis of ensuring operation convenience, the loading capacity of the platform and the operators' field of view.
- 2) The SkyGuard protective device is disposed above the control panel of the platform. If the safety pole is stressed, the protective system will be activated instantly, and the device will stop all actions immediately, thereby preventing operators from suffering from secondary injury.
- In the extreme case, the safety pole in the 3) protective device will slip to the bottom to ensure operators have sufficient space for buffering and operation. Upon the activation of the SkyGuard protective system, the device will give an alarm prompt tone immediately while the blue alarm light flickers. Through the above two approaches, other site operators are reminded, and the safety awareness of neighboring personnel is improved. In addition, the SkyGuard protective system also provides the safety overriding switch for operators, facilitating operators to remove dangers. Benefiting from rigid components of the SkyGuard protective system, the reliability of the system is improved greatly, and regular or additional maintenance is reduced.

9.11 DPF Instructions

DPF is a closed system for filtering soot particulate emissions.

Automatic regeneration: The vehicle will automatically enable regeneration function during operation.

Manual regeneration: When the DPF alarm indicator of the lower control box is on, and the vehicle has no engine /system failure & alarm, the machine can be manually regenerated at the stowed state.

Park the machine in a safe and reliable position. (There are no barriers, vehicles, inflammable materials and explosive gases.)

Before performing the manual regeneration operation, run the engine at idle speed for several minutes to ensure that the engine water temperature has exceeded 50° C.

Operation Instruction:

Alarm code:	Warning code:	SPN:	FMI:
	Machine	Mode:	
	MB Angl	e:	
	Cage loa	ad:	
	X: Y:		
Working Hour:			
Fuel level:			
	1 001 201	01.	
1/0	SET Home	Engine	ESC
\bigcirc (\bigcirc	\bigcirc	\bigcirc

1. Find and press "SET" button.

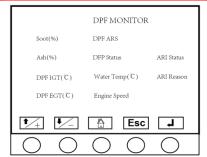
1/0	DPF Monitor
Basic Parameter	PRG Verion
Advanced Parameter Setting	Alarm Info
Set Language	Time&Date
Alarm Code	Drive Model
Parameter Saving	Level Model
	Esc 4
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2. Select "DPF Monitor ", press Enter.

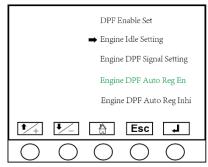
Input password				
1	2	3		
4	5	6	С	
7	8	9	0	
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3. Enter the administrator password and press enter.

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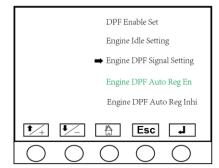


4. Press "Enter" button.



5. Select "Engine Idle Setting", press Enter, toggle the engine regeneration button, and the engine speed will be reduced.

6. Select "Engine Idle Setting" again and press Enter to cancel the Setting.



7. Select "Engine DPF Signal Setting", press Enter and toggle the engine regeneration button. Enable DPF regeneration.

8. Select "Engine DPF Signal Setting" again, press Enter to cancel the Setting.

NOTICE: During manual DPF

regeneration, the exhaust gas becomes hotter than usual and its quantity increases. Check to see if there is nothing flammable around and the place is well ventilated.



engines, part of the fuel may get mixed with engine oil during the regenerating

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process. This may dilute the oil and increase its quantity. If the oil rises above the oil level gauge upper limit, it means the oil has been diluted too much, resulting in a trouble. In such case, immediately change the oil for new one.

If the interval of DPF regeneration becomes 5 hours or less, be sure to change the oil for new one.

Note: Be sure to inspect the engine, locating it on a level place. If placed on gradients accurately, oil quantity may not be measured.

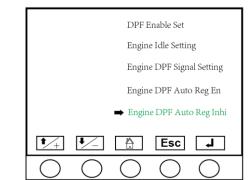
If the machine have DPF cleaning alarm system.

- Clean the DPF in case of an alarm or every 6000 DPF operating hours whichever comes earlier.
- DPF cleaning interval is depending on engine operating conditions.

If the machine does not have DPF cleaning alarm system, clean the DPF every 3000 operating hours.

The automatic regeneration

needs to be disabled in some workplace (If equipped).



1. Select "Engine DPF Auto Reg Inhi" in the above image, press Enter to disable automatic DPF regeneration.

9.12 Low temperature start kit (If Equipped)



to touch the heated heaters.

Risk of fire: It is prohibited to

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place inflammables and explosives around the heaters.

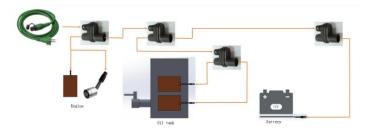
 $\underline{\bigwedge}$ Risk of electric shock: It is

prohibited to wash the heaters directly with water. It is only allowed to connect the heater power line to a grounded AC three-wire outlet with a leakage protector.

The low temperature start kit is prohibited to use, when the ambient temperature is above 0° .

The low temperature start kit aims to start the machine normally and have it run smoothly at low temperature through heating of related devices by the externally powered heaters installed on the engine, battery and hydraulic oil tank.

Connection example:



Recommended heating duration:

Model	Ambient temperature above -20°C	Ambient temperature below -20°C
T65J-H	<2h	2h <heating duration<4h</heating
T72J-H	<2h	2h <heating duration<4h</heating
T85J-H	<2h	2h <heating duration<4h</heating
T92J-H	<2h	2h <heating duration<4h</heating

9.13 Upon Every Use

1) Select a solid, horizontal and safe position

where it is moisture-proof, high-temperature resistant, open flame resistant, free from corrosive gas and well-ventilated.

- 2) Retract and lower the boom to the stowed state.
- 3) Close and lock all enclosures and box doors.
- 4) Wipe up dust and oil dirt on the machine body, and keep the machine body clean.
- 5) Turn the turntable to make the boom located between non-steering wheels.
- Turn the key toggle switch to the "OFF" position, and unplug the key to avoid unauthorized use.
- 7) During long-term storage
 - Break positive and negative electrodes of battery, discharge fuel completely, and prior to use, clean and conduct overall cleaning and maintenance on the complete machine.
 - When storage period exceeds three months, it is necessary to run for not less than one hour every three months, and conduct cleaning and maintenance.





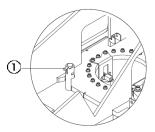
Chapter 10 Transport Description



10.1 Compliance and Obedience

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- The driver shall be responsible for ensuring the machine has been fixed correctly and select proper trailers according to local traffic laws.
- 2) Only personnel with hoisting work aptitude at heights can hoist the machine.
- 3) Transport tractors must stop on the horizontal ground.
- 4) During machine loading, transport vehicles must be fixed to prevent movement.
- Ensure vehicle loads, loading surface, chains, belts, etc. can be sufficient to support the weight of the machine. Please refer to "Nameplate" to understand the weight of the machine.





- Ensure the turret has been fixed using the turret rotary lock prior to transport, as shown in Figure 10-1. Ensure turret is unlocked during operation.
- 7) Do not drive the machine on the slope exceeding the rated value of up-slope, down-slope or slope. Please refer to "Drive the machine on a slope" in "Operation Instructions" section.
- If the slope of the transport vehicle exceeds the maximum slope rated value, it is necessary to use the capstan, and load and unload the machine as per the brake release instructions.
- 9) The vehicle is equipped with a sophisticated weighting system. It is forbidden to place heavy goods on the platform, when the vehicle is transporting, otherwise the weighting system may be damaged.

10.2 Brake Release When Using the Capstan

1) Cushion wheels with wedges to prevent machine movement.

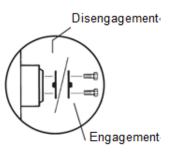


Figure 10-2 Brake release

- 2) Turn over all four driving wheel hub separating covers to release wheel brakes, as shown in Figure 10-2.
- It is necessary to ensure that the capstan cable has been fixed to the fastening location of the driving chassis correctly, and that there are no obstacles in the channel
- 4) Execute the above procedures in the inverted sequence to reengage the brake.

$\underline{\bigwedge}$ CAUTION: The driving valve shall

always be kept in the off state.

10.3 Ensuring Transport Safety

- When transporting the machine every time, it is necessary to lock the turret using the turntable rotary lock pin, as shown in Figure 10-1.
- Prior to transport, turn the key switch to the "OFF" position, followed by taking down the key.
- Conduct the complete inspection of the machine to prevent loosened or unfixed components.
- 4) Fix the chassis.

Ensure that chains or belts have sufficient load strength, and use at least 5 chains. Adjust the rigging to prevent damage to

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chains, as shown in Figure 10-3.

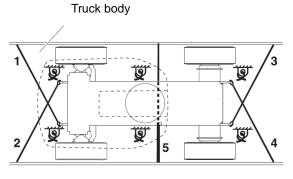


Figure 10-3 Schematic diagram of chassis fixing

5) Fix the platform.

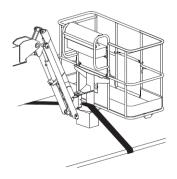


Figure 10-4 Schematic diagram of platform fixing

Place the cushion block below the platform rotary connection, and do not make the cushion block contact the platform oil cylinder. Make the nylon strap run through the platform support to fix the platform. Do not apply downward force excessively when protecting arm lever components, as shown in Figure 10-4.

10.4 Guidance on Lifting the Machine

- Only qualified jack-up and rigging assembly workers can assemble the rigging and lift the machine.
- Ensure the lifting ability of crane, belts or ropes can be sufficient to support the weight of the machine. Please refer to "Nameplate" to understand the weight of the machine.
- Completely lower and retract arm lever, and disassemble all loosened components on the machine.
- 4) Fix the turntable using the turntable rotary

lock. Determine the center of gravity of the machine using data in Figure 10-5.

- 5) Only connect the rigging to the designated lifting point of the machine.
- Adjust the rigging to avoid damage to the machine and keep the machine level.

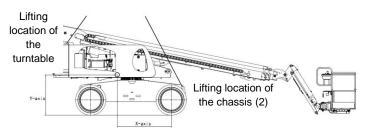


Figure 10-5 Schematic diagram of connection during machine lifting

Model	X-Axis (mm/in)	Y- Axis (mm/in)
T65J-H	1650/65	1290/50.8
T72J-H	1680/66.1	1270/50
T85J-H	1960/77.2	1350/53.1
T92J-H	1950/76.7	1380/54.3

California Proposition 65

Operating, servicing and maintaining this 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. These chemicals can be emitted from or contained in other various parts and systems, fluids and some component wear by-products. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment and vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment or vehicle and after operation. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

 Always start and operate the engine in a well-ventilated area.

 If in an enclosed area, vent the exhaust to the outside.

Do not modify or tamper with the exhaust system.

• Do not idle the engine except as necessary. For more information go to

www.P65warnings.ca.gov/diesel.

T65J-H/T72J-H/T85J-H/T92J-H Telescopic Boom Mobile Elevating Work Platform Operation and Safety Manual

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