PRODUCT MANUAL

V2025.9.25

1100Lbs Track Dumper Self Loading

Model: LHR-T500

AFTER-SALES:

sales5@landhonor.com

preface

This manual is an essential component of your machine. It provides safety information and operational guidelines to assist you in operating and maintaining the machine in a correct and straightforward manner.

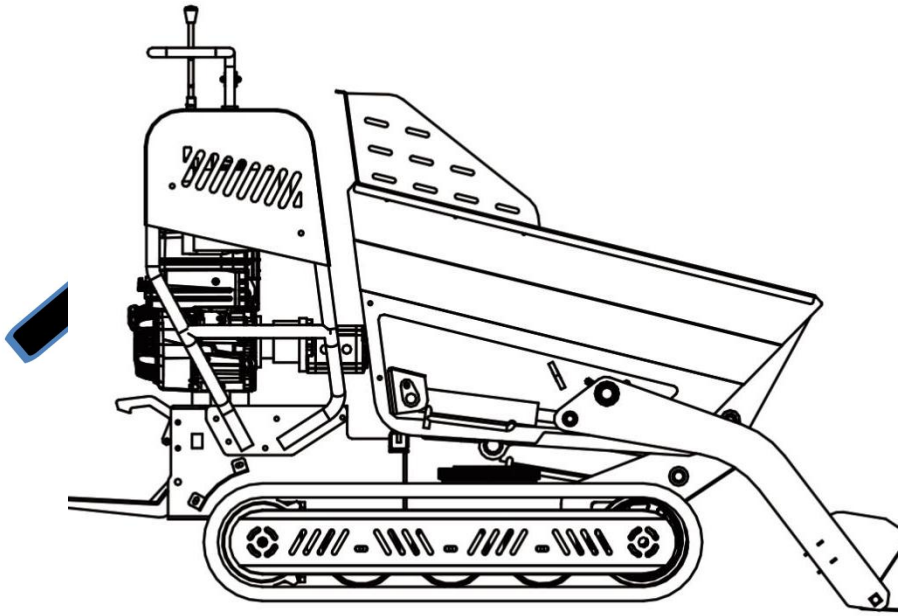
Thank you again for purchasing and using our devices.

content

Ⅰ、 identification number

Machine numbers are indicated with arrows in the lower area.

Each machine has a unique number; please fill in its information in the form below.



model	
serial number：	
engine identification number：	
date of manufacture：	
manufacturer：	

Ⅱ、 application area

The T500 is engineered for compact construction operations, featuring a powerful diesel engine and quick-connect attachments that enable seamless integration with various accessories. It excels in diverse applications ranging from small-scale building projects, ground maintenance, home renovations, landscape enhancements, agricultural work, to minor transportation tasks, effortlessly handling tight spaces or confined environments. For extreme conditions requiring specialized solutions, please consult our company or local distributors to ensure compatibility with specific applications.

The T500 should only be operated, maintained, and repaired by trained operators who are familiar with its specific characteristics and safe operating procedures.

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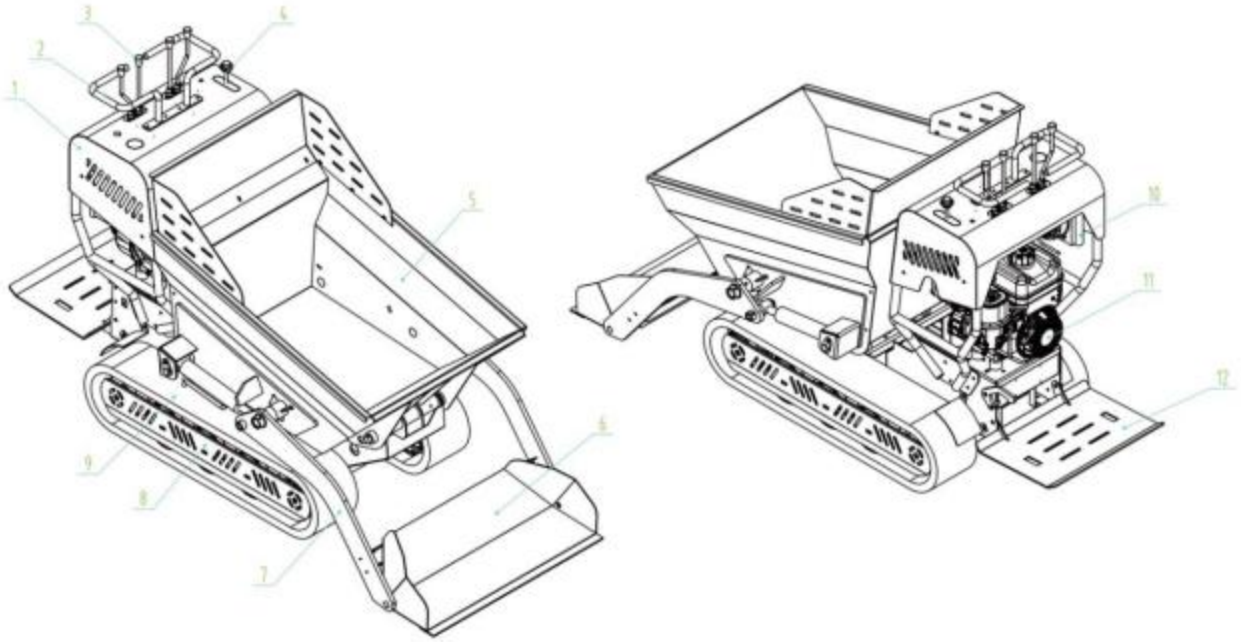
Ⅲ. Machine Components



1.Operator Console	5.Tipping Bucket	9.Rubber Track
2.Operating Handrail	6.Loader Bucket	10.Radiator
3.Control Lever	7.Boom	11.Engine
4.Throttle Leve	8.Side Beam Guard	12.Footrest

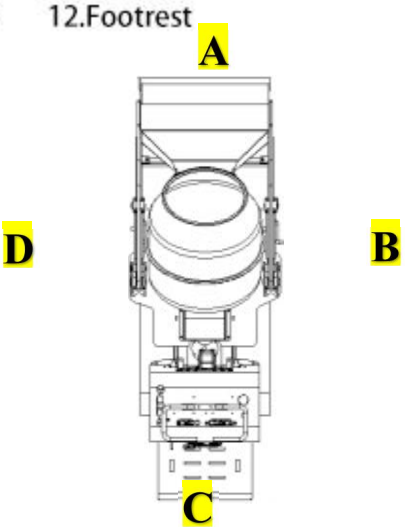
IV. Operating Direction

A. Front of the machine

B. The right side of the machine

C. Rear part of the machine

D. The left side of the machine



V、 safe operation

Safety is the responsibility of the operator.

Most accidents involving machine operation and maintenance can be avoided by adhering to basic safety rules and preventive measures. Before operating or maintaining the machine, please read and understand all safety information, safe operating procedures, and safety labels in this manual.

△ warn
Before using or maintaining the machine, follow the safety operation instructions. Read the operating manual and mark the machine accordingly. Perform repairs, adjustments, and maintenance according to the markings on the manual and instruction manual, then check for normal operation. Failure to follow the instructions may result in death or injury.

This symbol indicates caution. Ensure safety before operation.

warn
Operators must fully understand the following operational guidelines.

*All operational guidelines and regulations must be understood and complied with in accordance with maintenance provisions.

warn
All warnings are for your safety.

*When operating the machine, ensure hydraulic oil and fuel are refilled correctly to avoid potential hazards or severe injuries.

*Please read this manual carefully and ensure you understand how to control, maintain, and refuel and lubricate your vehicle.

△ This symbol indicates that you must exercise caution; otherwise, it may result in the death of the operator or bystanders. This sticker is affixed to the machine.

△Safety stickers on the machine and warnings in the manual are specifically designed to alert you to potential hazards and prevent accidents.

Every loader undergoes rigorous testing and inspection prior to delivery to users. During the first 100 hours of operation, you should handle it with care to maintain optimal condition of all components. Improper handling may shorten service life or reduce operational efficiency. For new equipment, please note the following precautions:

Run the idle machine for 5 minutes after startup.
Do not operate the loader at full speed during reading.
Avoid rapid starts, sudden acceleration, unnecessary emergency stops, or abrupt turns.
When replacing the filter cartridge, clean the dust and remove any scratches.
If reading is performed in hazardous environments, all potential risk factors should be assessed.
Check the working hours in the schedule when reading.

Security warning label

indicate： ″ matters need attention ″ ″ warn ″

″ This concerns your safety″

Safety labels indicate critical safety information about the machine; when viewed, attention should be paid to the potential for injury or fatality, and safety instructions must be followed.

Ⅵ、 operation manual

New loader

The loader requires 100 hours of operation to fully utilize its capabilities and extend its useful lifting capacity. New loaders should be employed to perform these three steps, avoiding overuse during the initial 100 hours.

hourage	load
Within 10 hours	About 60%
Within 100 hours	About 80%
100 hours later	100%

Use with caution during the first 100 hours.

△ warn

Excessive use of machines can degrade machine condition and reduce their lifespan.

△ warn

Operating the machine without reading the operating manual or undergoing training may result in machine or personnel injuries.

Preparations before loading machine startup

Read this manual before using the machine.

Daily check

Ensure the engine operates properly. Check the following items daily:

engine cooling systemTractor

and the tightness of the

tractor

Check the fuel level and

identify any leaks.

Any loose or damaged

components

Dashboard

Check engine oil and

hydraulic fluid.

△ warn

Always keep both feet on the pedals when operating the machine to avoid injury.

-Regularly inspect the lubricating oil and replenish it as needed.
-During operation, check the instruments and indicator lights.
-Check if the machine is working properly during runtime.
-Add lubricating oil to the lubrication points daily.

- binding bolt

Security Drive

Note: Maintain low speed operation to achieve maximum stability.

△ danger

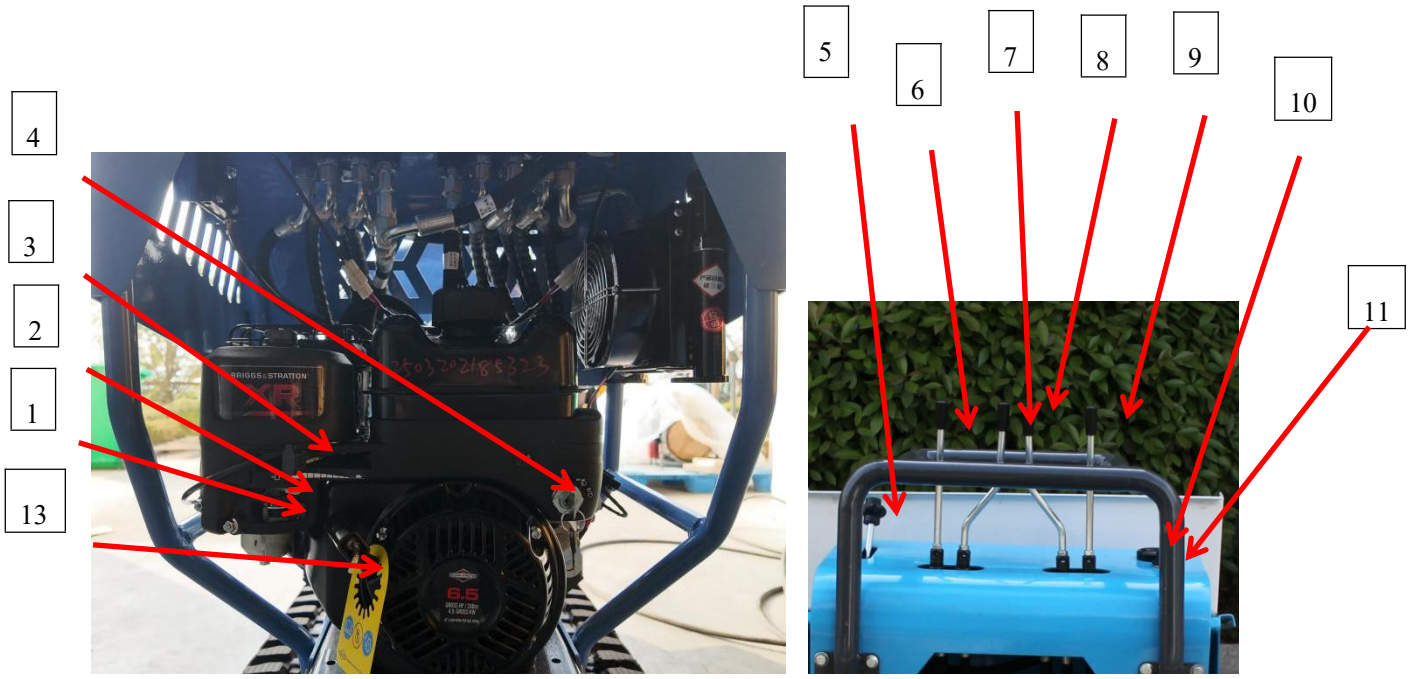
When the boom is in a high position, rapid high-speed movement or rotation of the machine may lead to overturning or injury, necessitating low-speed operation.

The load center changes during lifting and lowering operations. Avoid rapid turns or movement on slopes during these operations.

Keep on a level surface when operating and turning.

During movement, fully lower the boom and raise the bucket to an appropriate height to avoid obstacles.

Ⅶ、 navar



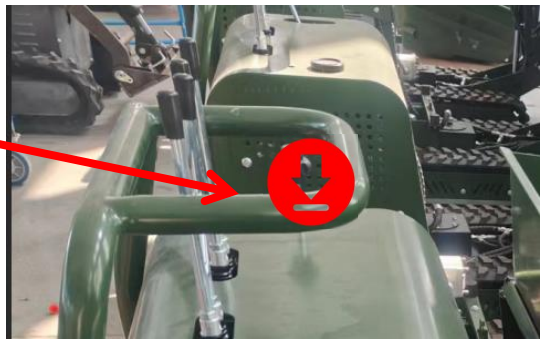
1、 fuel cock
2. Air valve
3、 Throttle 1
4、 mains switch
5. Throttle
6. Feeding hopper
7、 Left crawler
8. Right track
9. Material hopper
10. Timer
11. High and low speeds
13. Timer

1. Hydraulic oil filling port

Add hydraulic oil (L-HM46) here

2. Handle

Ensure the operator's hands remain on the handrails.

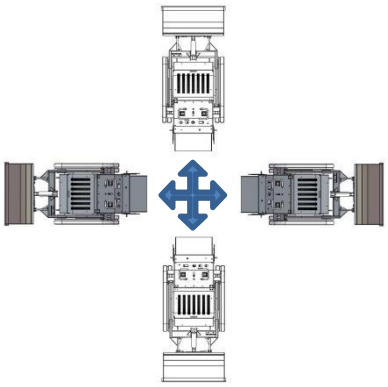


3. Front and rear operating handles

-To move forward, push both the left and right control sticks simultaneously.

-To move backward, pull both left and right levers simultaneously.

-To stop walking, simultaneously slow down the left and right control levers.



-Turn left and push the right joystick forward.

-Turn right and push the left control lever forward.

-Perform a turn-in-place maneuver by pushing the left and right control levers forward and pulling them backward respectively.

5. Engine throttle valve

-Counterclockwise rotation of the throttle reduces engine speed, while clockwise rotation increases it.
The engine speed increases.

-Press the red button and floor the accelerator to increase engine RPM.

-Press the red button and accelerate to reduce engine RPM.

-Release the lock button to automatically engage throttle lock.

6. Engine start switch

OFF: Engine stopped

Power on: Turn on the power supply

Start-up procedure: Rotate the key clockwise to start the engine, then release it to the "on" position after startup. If the engine fails to start, turn the key to the "off" position, wait for a period of time (10−15 seconds), and restart the engine.

7. Power supply

Turn off power On power

Turn off power On power

Warning: Turn off the power when the machine stops working!

Warning: Turn on the power before starting the machine!

VIII. Pre-work Preparation

1.Overview

A successful project begins before its official commencement. The first step involves reviewing all relevant information pertaining to the work and construction site.

2. All assignments

2.1 Review Work Plan

Review blueprints or other work plans; examine any potential issues in current or planned processes.

2.2 Traffic Control Arrangements

When working on roads or other traffic areas, contact your local safety or regulatory authorities.

2.3 Emergency Service Plan

Check the telephone number of the local emergency medical services department and save it.

2.4 Grounding Work

Notification call service

Call Area One-a call or similar service with existing line location and markings. Make a call to any utility company in your area that does not offer one -time call services.

2.5 Above-ground Operations

Positioning overhead line

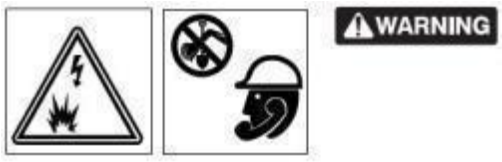
Pay attention to the location and height of all overhead lines at the construction site, and ensure that fully raised accessories and/or loads do not come into contact with the lines.

2.6 Inspection Site

Before transporting equipment, inspect the work site. Check the following items: changes in altitude, such as hills or other open valleys; obstacles like buildings, railway crossings, or streams; public facility signs; congested intersections; soil type and conditions.

2.7 Hazard Identification

If ground excavation drilling is performed, identify safety hazards and classify the construction site. Refer to "Classified Work Sites"



Hazards at construction sites may result in death or severe injury. Use appropriate equipment and work methods. Employ and maintain proper safety equipment.

Notice：

Wear personal protective equipment, including safety helmets, safety goggles, and hearing protection.

Avoid wearing jewelry or loose clothing.

All utility notification requirements must be complied with prior to excavation or drilling.

Confirm the location of previously marked underground hazardous materials.

Clearly mark the construction site to keep the audience away from the area.

Construction sites are classified based on hazard categories, not on installed wiring systems.

3. Classification of work sites

3.1 Inspection of the work site

Inspect the construction site and surrounding areas for underground hazards, such as: – "buried public utilities" notifications

Public facilities without overhead lines

-gas meter or water meter

-Network cable box

- postbox

- lamppost

Manhole cover, fire hydrant

-Subsiding ground

Comply with labor regulations for excavation and trench digging, as well as similar provisions.

Within a 6-meter radius on both sides of the work path, experienced positioning equipment operators shall conduct area cleaning. Verify the locations of previously marked lines and cables.

Mark the locations of all underground utilities and obstacles. Classify the work site.

3.2 Select Classification

The construction site is classified based on the presence of underground hazards.

If the work...	Then classify the construction site as...
Within a 10-inch (3-meter) range of buried electrical wires	electric
Within a 10-inch (3-meter) section of a natural gas pipeline	natural gas
In sand, conglomerate rock, or concrete that can generate crystalline silicon (quartz) dust	Crystalline silica (quartz) dust
Other hazards within 10 inches (3 meters)	else

Note: If you have any questions regarding site classification, or if the site may contain unmarked hazards, take the steps outlined above to identify hazards and classify the site before work begins.

3.3 Application Precautions

Once classified, appropriate preventive measures must be implemented for the construction site.

3.3.1 Precautions for Electrical Work Sites

Use one or both of these methods.

Exercise caution when manually excavating or soft excavation exposes the line.

3.3.2 Precautions for Natural Gas Operation Sites

In addition to positioning the equipment upwind of the natural gas pipeline, one or both of the following methods can be employed: exposing the pipeline through careful manual excavation or soft excavation, with gas shut-off during operation.

3.3.3 Dust Prevention Measures

When digging trenches, sawing, or drilling may generate dust, sprinkle water to suppress dust.

3.3.4 Other Site Precautions

You may need to employ different methods to safely avoid other underground hazards. Communicate with personnel who are aware of the hazards present at each site to determine appropriate preventive measures to be implemented or whether work attempts should be undertaken.

4. Inspect consumables and equipment

4.1 4.1 Consumables

Fuel, engine oil, lubricants, personal protective equipment (PPE) such as safety helmets and goggles.

4.2 Liquid Level

fuel
Hydraulic oil Battery
Engine oil

4.3 Conditions and Markings

Filter (air, fuel, and oil) Fatigue
Pump and Motor
Hoses and Valves
Mark, warn, and block

4.4 Appendices

Fire extinguishers should be provided as much as possible and kept away from fire sources; the extinguishers must be suitable for both oil fires and electrical fires. They should comply with legal and regulatory requirements.

hydraulic hose

If the attachment requires hydraulic power to operate, connect the hydraulic hose.

Warning: Liquid or air pressure may penetrate the skin, causing injury or death. Keep away.

1. Leaked pressurized fluids may cause injury, skin perforation, or poisoning.

2. Before disconnecting the hydraulic lines, shut down the engine and operate all control devices to release pressure. Use a crane to lower, block, or support any elevated components. Gently loosen the connector nuts with thick cloth to release residual pressure.

3. Before using the system, check that all connections are secure and the wiring is undamaged.

4. Liquid leakage may be difficult to detect. Use cardboard or wood instead of your hands to locate leaks.

5. Wear protective clothing, including gloves and goggles.

6. If you sustain an injury, seek immediate medical attention from a physician experienced in treating such injuries.

The high-temperature parts may cause burns and should not be touched until cooled.

Pay attention to potential overheating of hydraulic quick connectors, hoses, and fluids. When connecting or disconnecting hydraulic hoses, wear gloves and wait until the unit has cooled before contacting hydraulic components.

1. Circulating accessory drive control to release residual pressure on the hydraulic coupling.

2. Ensure all control devices are in neutral position.

3. Remove dirt and debris from the hydraulic quick connector.

4. Connect the male connector on the attachment to the female connector on the unit.

5. Connect the connector on the attachment to the male connector on the unit.

6. Pull the hose to verify the connection is secure

IX、DRIVE

1. Start the engine

1.1 Ensure all control devices are in neutral position. 1.2 If necessary, the throttle ring may be the engine.

1.3 Move the throttle to a half-open position.

1.4 Rotate the ignition switch to the start position and release it when the engine starts. 1.5 After engine preheating, insert the throttle ring.

Perform an emergency shutdown and switch the ignition switch to the stop position.

2. General operation of the drive unit

2.1 Pull the lifting arm control device to elevate the mounting plate (and assistive device) off the ground.

2.2 Move the two-wheel drive controllers forward or backward. 2.3 Adjust the throttle as needed.

3. Ramp operation

3.1 Note: When operating on slopes, maintain low load/horsepower. Drive slowly and cautiously.

3.2 Upward and downward slope operations. The weight distribution varies depending on auxiliary equipment and loads. For example, an empty bucket makes the rear end of the machine the heaviest point, whereas a fully loaded bucket makes the front end of the unit the heaviest point. Most nationally approved attachments position the front end of the unit as the heaviest point.

Avoid starting, stopping, or turning on slopes. If turning is necessary, maintain the heavier end of the unit when ascending a slope.

Do not park the device on a slope, shift to neutral, turn the ignition switch to park, or apply the parking brake until the assistive device is lowered to the ground and all control devices are returned.

4. Close

4.1 Lower the lifting arm to the ground.

4.2 Move all control devices to neutral position.

4.3 Run the engine at low idle for 3 minutes to allow cooling. 4.4 Set the ignition switch to the off position.

4.5 Remove the key.

prudent

The unit shall not be parked on slopes unless the parking brake is engaged. When stopping, all control devices must be shifted to neutral position.

△ warn
The slope inclination angle should not exceed 20°; otherwise, fuel leakage may occur.

X. Machine storage

1. Rinse equipment

1.1 Spray water onto the equipment to remove dirt and mud, particularly at the landing gear area.

Warning: Do not spray water on the operator console. Electrical components may be damaged. Use a cloth instead.

1.2 Open the engine hood and remove debris from inside the unit.

1.3 Remove mud from the wheels.

2. Disconnect the connected assistive device

2.1 Reduce the height of connectors from the ground.

2.2 Ensure all control devices are in neutral position. 2.3 Shut off the engine.

2.4 Loosen the locking pin by moving the handle away from the attachment center.

2.5 If applicable, rotate the attachment drive control device and disconnect the hydraulic hose. 2.6 Release the parking brake.

2.7 Start the engine.

2.8 The front and rear units of the inclined mounting plate are separated from accessories.

3. Storage Tools

Ensure all tools and accessories are loaded in the trailer.

XI. Security Services and Maintenance

(1) Safety Service Precautions

1. WARNING Incorrect procedures may lead to death, injury, or property damage. Learn to use the equipment correctly.

warn：

Unless otherwise specified, all maintenance tasks must be performed with the engine off. Before opening the engine hood for inspection or repairs, stop the engine and engage the parking brake. Allow the engine to cool down before performing any maintenance. For engine maintenance instructions, refer to the manufacturer's manual. Prior to servicing equipment, place any loose attachments on the ground.

2. Work under the lifting arm

Excessive pressure may lead to death or severe injury. Use appropriate procedures and equipment, or stay away from the equipment.

Note that two lifting arms must be supported before working under the lifting arms.

Explosion may occur. Severe injury or equipment damage may happen. Follow instructions carefully.

Warning: 1. Sparks may cause battery explosion. 2. Electronic components are highly susceptible to damage.

(2) Maintenance

1. Lubricant

Proper lubrication and maintenance can protect equipment from damage and failure. The listed service intervals represent minimum requirements. In extreme cases, machines should be maintained more frequently. Only recommended lubricants should be used.

warn：

1. Only use genuine parts, filters, and approved lubricants to maintain the warranty period.

2. Use the "Service History" feature to log all required services applied to your machine.

Lubrication zone

Lubricating oil beneath the lubrication area before operation

Clean the parts before lubrication to remove any dust or dirt. Replace any missing or damaged parts.

Avoid improper lubrication and minimize dust accumulation as much as possible.

Engine oil and engine coolant (antifreeze)

The engine oil is compatible with the sulfur content of the fuel used. The engine coolant can withstand temperatures down to-40°C.

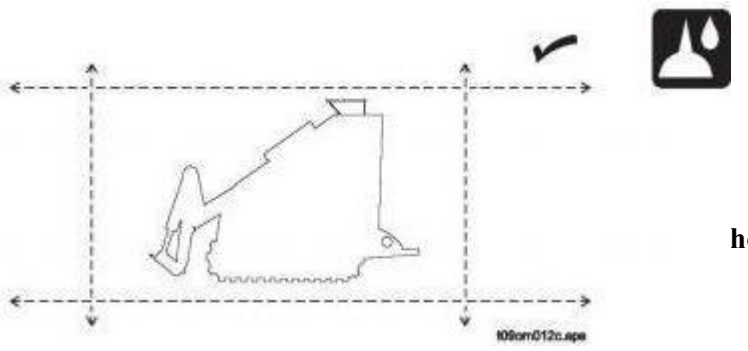
For more information on engine lubrication and maintenance, refer to your engine manual.

2. Maintenance

Check hydraulic fluid level photo 1

Check the hydraulic fluid level (Figure 1) every 10 hours of operation. Maintain the level at the midpoint of the gauge.

When the engine is shut down, the liquid cools down. If the temperature is low, add hydraulic oil L-HM46 to the hydraulic system.



Check the hydraulic hose

Check the hydraulic hose for leaks every 10 hours.

1. Escape from pressurized liquids may result in skin injury or perforation, as well as exposure to toxic substances.

2. Before disconnecting the hydraulic lines, shut down the engine and operate all control devices to release pressure. Lower, block, or support any elevated components. Wrap with thick cloth and slightly loosen the joint nuts to release residual pressure. Collect all liquid in containers.

3. Before using the system, check that all connections are secure and all wiring is undamaged.

4. Liquid leakage may be difficult to detect. Use cardboard or wood instead of hands

to locate leaks. 5. Wear protective clothing, including gloves and goggles.

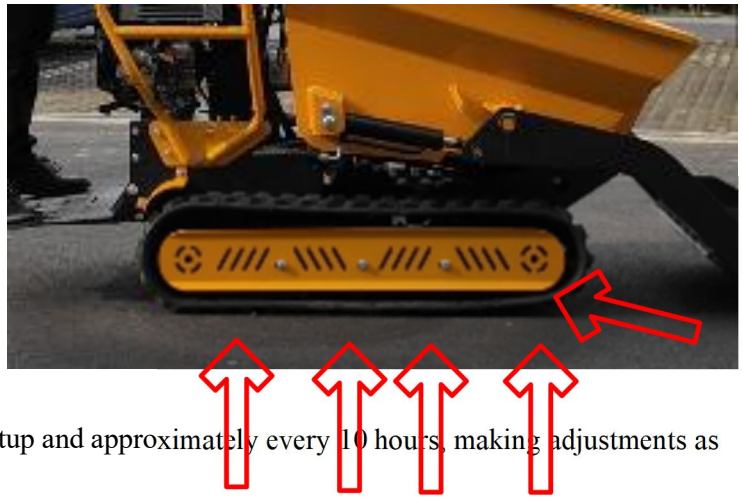
6. If you sustain an injury, seek immediate medical attention from a physician experienced in treating such injuries.

Check the torque of the rubber crawler belt ear nut

Check the torque of the convex ear nut at 10 hours.

Every 50 hours of work, followed by every 200 hours of work thereafter.

Tighten to 88-95 ft-lb (108-130 NM) as required.



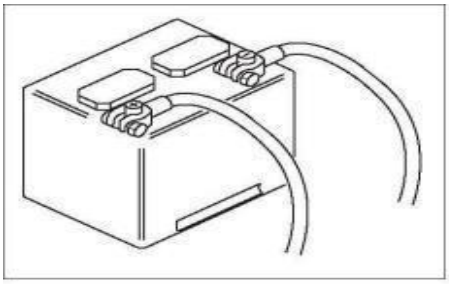
Check the tension of the rubber track

Check the tension of the rubber tracks at startup and approximately every 10 hours, making adjustments as needed.

50 hours

position	assignment	remarks：
drive	Check the battery	
	Check the transmission belt	
	Check the air filter	
	Check engine coolant cooler	
	Check the hydraulic filter	

Check the battery



(1) Maintenance-free batteries should be inspected every 50 hours, with attention to maintaining cleanliness and absence of corrosion in both the battery and terminals.

Regularly inspect the liquid hydrometer, as its color changes in response to variations in electrolyte volume while displaying battery charge levels and electrolyte level height. When it shows green, the battery is fully charged and functioning properly; if green is absent or the color turns dark, battery charging is required. A pale yellow indicator signifies internal battery failure, necessitating repair or replacement.

(2) Battery storage and maintenance: Store batteries in a cool and shaded place, avoid direct sunlight exposure, and prevent moisture ingress.

During installation, do not strike the battery with metal tools, nor place metal tools on the battery.

(3) Install and remove the battery, shut off the engine, and remove the key.

First disconnect the negative terminal wire, then disconnect the positive terminal wire. Loosen the bolts and remove the battery. Verify the battery electrodes. The installation process for the battery is the reverse of the disassembly process.

Note: Ensure correct wiring connections.

(4) Precautions during battery operation

Inspect the radiator

Inspect the radiator every 50 hours. Check for leaks or blockages.

Be careful not to damage the radiator fins of the cooler.

Replace hydraulic oil filter (only for insertion)

Replace the hydraulic oil filter every 50 hours, followed by a replacement every 250 hours.

Replace engine oil every 100 hours

Replace engine oil every 100 hours. Drain oil through the drain plug and add oil at the fuel filler port.

position	assignment	remarks：
pulling device	Replace hydraulic oil filter	
	Replace the air filter and inspect internal components	

Replace hydraulic oil filter (2)

Replace the hydraulic oil filter every 250 hours.

500 hours

Replace hydraulic oil

Replace hydraulic oil every 500 hours. Drain the oil through the drain plug and refill it at the filler port. Start the engine, idle for 2 minutes, then check the instrument panel to ensure the oil level is in the middle range.

Note: Before contacting components or performing any maintenance, allow the engine to cool down before making contact.

1 Stop the engine and allow it to
cool down before attempting repairs.
2 Remove the key from the ignition
switch.
3 Adjust belt tension.

Moving parts can cut your hand or foot.



Note: Do not open the engine hood while the en

Note: Do not leave the operator station
while the engine is running.
1 Start the engine and check its operation.
2 Stop the engine and open the cover,
then recheck the belt alignment. 3
Close the engine hood.


Incorrect operation may result in death, injury, or property damage. Use the equipment correctly.

matters need attention：

1. Park the machine on flat ground
2. Set all drive control devices to neutral position
3. Reduce all unused assistive devices
4. Turn off all electrical loads
5. Turn off the engine and remove the key from the ignition switch

Prevent explosions. Serious personal injuries or equipment damage may occur.

Operate with caution as instructed.

matters need attention：

1. Lead-acid batteries release explosive hydrogen gas during charging.
2. Do not smoke, generate sparks, or use flames around batteries.
3. Do not rely on batteries during connection.
4. Wear eye shields and remove metal jewelry and watches.

XII、 main specifications

Machine weight	881 lbs	
Maximum Load	1102 lbs	
Engine parameters	Brand	RATO
	Model	130G
	Displacement(cc)	208
	Total power（HP）*@3600rpm	6.5（4.8KW/3600)
	Fuel capacity	3.1
	Engine oil capacity	0.6
	Net weight	16
Integrated valve block	Brand	Northern Hydraulics
	Composition	Valve body, back pressure check valve, hydraulically controlled directional valve, direct-acting relief valve, electrically controlled directional valve, etc...
	Function	Control the vehicle to operate stably and achieve high-speed and low-speed switching
Travel motor	Brand	Lik Hydraulic
	Displacement(cc)	200cc
	Maximum work pressure	20MPa
	Maximum torque	805Nm

Walking speed	1.7/3.5（km/h）
Minimum turning radius	0.95m
Track center distance	509mm
Minimum ground clearance	85mm
Climbing ability	20°
Hydraulic oil tank capacity	7L
Hydraulic oil grade	46# Anti-Wear Hydraulic Oil
Cargo volume（m^3）	0.22

XIII. Technical Support

1. If your device experiences any malfunction or failure, immediately notify your dealer.

2. Please provide the model number, serial number, and approximate purchase date of the device. This information should be recorded and archived at the time of purchase.

3. If the damaged parts are returned to the dealer for inspection and warranty consideration during the warranty period.

4. Order genuine puma replacement or repair parts from authorized puma dealers. Using parts from other manufacturers may void the warranty.

5. Contact your distributor to obtain publications and videos regarding the safety, operation, maintenance, and repair of the equipment.

6. For additional information regarding network and operator training, please contact your dealer.

7. No separate notice will be given for any changes in specifications.