

TYPHON

STOMP

Use and Maintenance Instructions



MODEL:TYPH-509

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Inspection items

Before delivery

Please check the following important items :

the equipment was damaged during transportation . Inspect for dents, loose parts , or missing parts; if damaged, repair or replace the parts .

The battery is securely installed and not cracked. The battery cable connections are secure . The electrolyte level is appropriate (the battery is already filled with electrolyte when sold domestically) .

The lifting and tilting cylinders, hoses , and fittings should be free from damage , leaks, or looseness .

The filter is undamaged , leaking oil , or loose .

The radiator hoses and fittings are free from damage , leaks, or loose connections .

The wheels should be installed correctly and securely, and the tires should be properly inflated.

All joint bearings of the loader are lubricated , and there are no missing or damaged grease- lubricated parts .

The hydraulic system reservoir , engine crankcase , and drive sprocket box have been filled to the appropriate levels.

All protective components, covers, and sleeves are securely and correctly installed .

Start the loader engine, test start the machine, and check that all motion controls are correct .

The driving control lever is working properly and is not damaged or stuck .

The driver control lever is correctly set to neutral ; the loader does not move automatically when in neutral .

The engine cannot be started before the driver is seated and the safety bar is lowered , and the lifting arm can only be lowered when the driver is seated, the safety bar is lowered, and the ignition key is in the running position .

Foreword

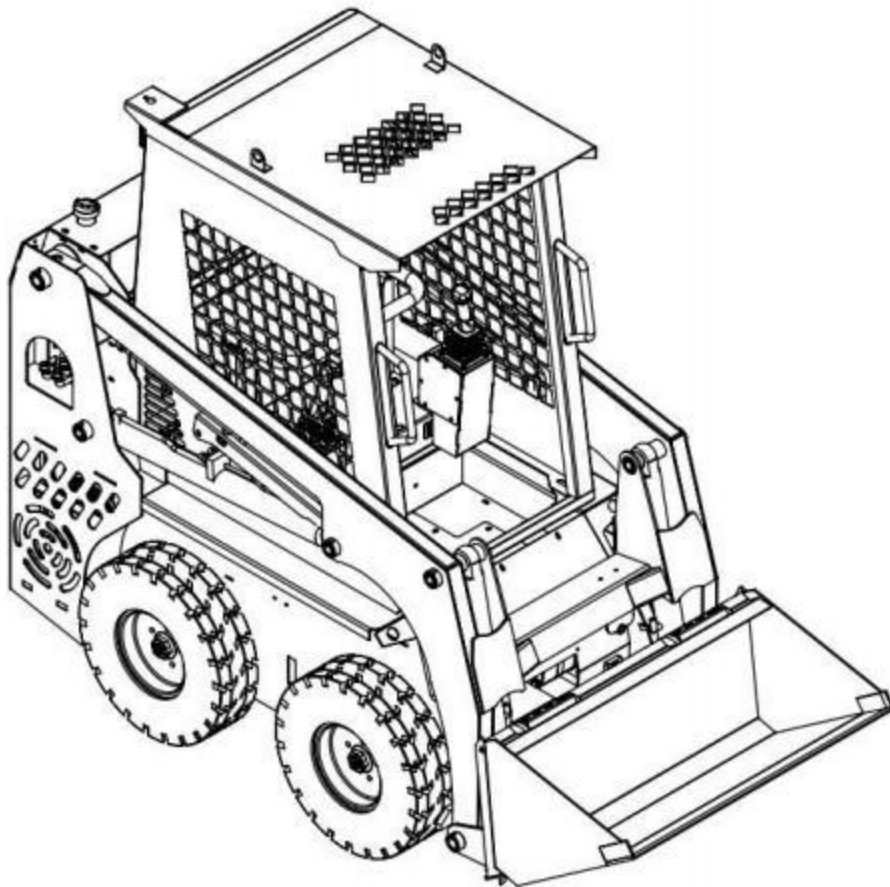
Congratulations on owning one Super monkey Skid Steer Multi-Function Loader !

This manual contains information about Super monkey Guidelines and safety recommendations for driving , operating, lubricating , maintaining and adjusting skid steer multi-purpose loaders .

This manual is designed for the safe maintenance of the machine and for enhancing its performance .

Our company continuously improves the design and manufacture of this machine . Subsequent design improvements may result in subtle changes that are not reflected in this manual. For information about your machine or questions regarding this manual , please contact Taian Luyue Modern Agricultural Equipment Co., Ltd. , or our after-sales service .

willing Super monkey Skid steer multi-purpose loaders bring you good luck !



Serial Number Table

Whole machine serial number	
Engine serial number	
Year of production	
Manufacturer address	
Sales Address	

Serial Number:

use the loader's serial number when ordering parts or seeking information services . Previous and later models (distinguished by serial number) may use different parts and require different maintenance service procedures .

1)Loader serial number

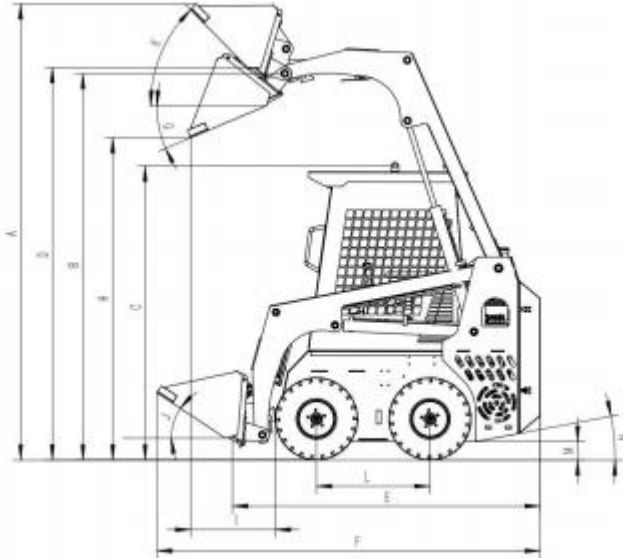


2) Generator serial number



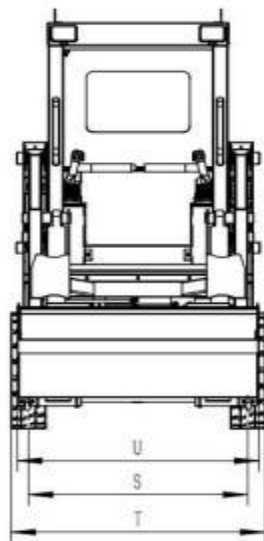
Specification

Multi-functional loader(side view)(mm)



project	STOMP
Total length (F)	2570
Total width (T)	1065
Total height (C)	1940
Front and rear track width (L)	760
Height above ground (m)	120
Total operating height (A)	3050
Hinge pin height (B)	2580
Tilting height (H)	2150
Tilting forward (I)	560
Forward tilt angle (J)	33 °
Backslope angle (K+G)	68
Bucket discharge angle (G)	twenty three
Departure angle (M)	10 °

Multi-functional loader (topview)(mm)



project	TOMP
Total length(A)	2570
Total width(B)	1065
Bucket width(C)	1010

The dimensions given are for use with standard tires and buckets; dimensions may differ when using other bucket models . All dimensions are in millimeters.
Specifications are subject to change without notice.

Specifications (continued) (Main Components)

1) Engine

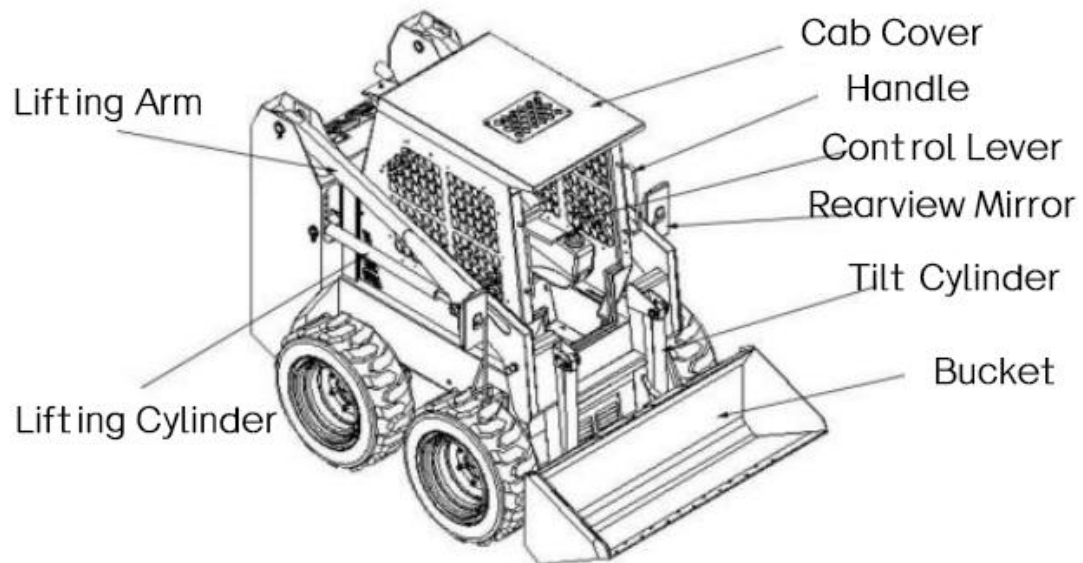
project	Specification
	STOMP
Engine Model	Kubota 1105
Type	Inline four-cylinder naturally aspirated
cylinder bore × stroke	78 × 78.4
Rated power	14.2KW/2200 rpm
Maximum torque	71.4 Nm/16000 rpm
fuel	diesel fuel
Displacement	1.105L
starter motor	12V-2kW
dynamo	12V-65A
Emission standards	

2) Main pump

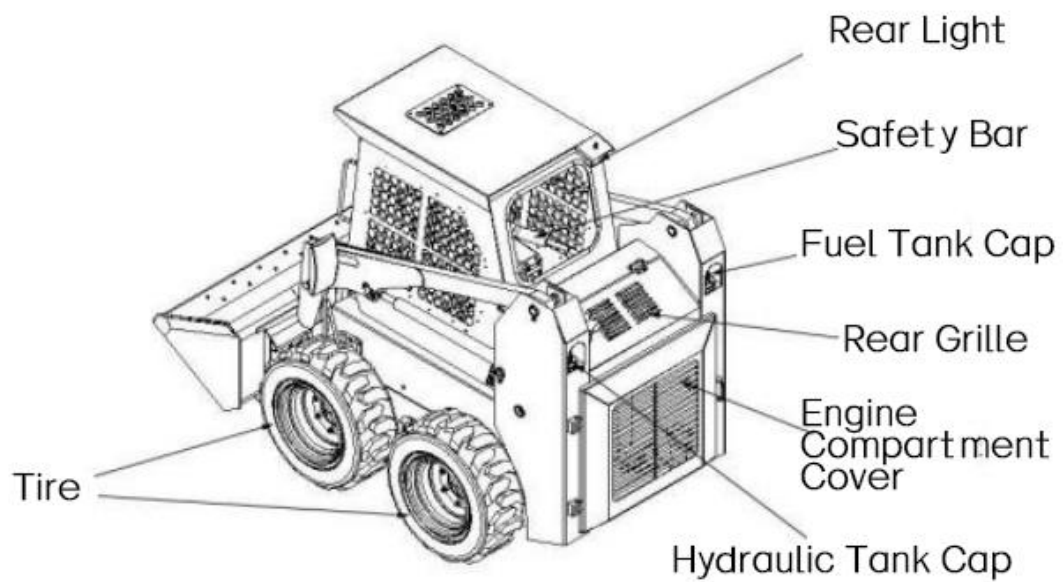
project	Specification
Type	Axial piston pump
Displacement	50cc/rpm
Maximum working pressure	28 MPa
Flow rate / rated speed	28L/2200rpm

Component identification

front



rear



Optional items and accessories

all HT The standard configuration of a loader includes the following items:

quick change device

driver's cab

seat belt

Safety bar

Lifting arm support

The following list includes parts that vary depending on the model:

tire

Tires.....

.....Standard Cab

Black seat cushions

.....Standard front/rear

lights.....

.....Standard

sunroof.....

.....Standard rear

window.....

.....Standard front

window.....

.....Standard

horn.....

.....Optional instrument panel

Instruments and indicator lights.....

.....Standard hydraulic

Automatic leveling system

Specifications are subject to change without notice.

Note: 1 Standard — refers to standard equipment.

2 Optional – refers to factory-installed optional components.

Specifications are subject to change without notice.


Safety Operating Instructions



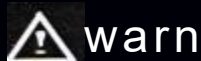
These operating instructions must be followed before using and maintaining the machine. Please read the operation and maintenance manual and the warning signs (stickers) on the machine. Follow the warnings and operating instructions in the manual during repair, adjustment, and maintenance. After adjustment, repair, or maintenance, check that the machine is working correctly. Failure to follow these operating instructions can result in personal injury.

Safety is the driver's responsibility

Most accidents occur because drivers fail to follow safety operating instructions. Accidents can be avoided if you take sufficient care to be aware of dangerous situations before they happen. Before performing maintenance, operating, or lubricating this skid steer loader, please read the safety operating instructions. Basic precautions and procedures for hazardous situations are outlined in the safety operating instructions.

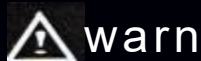
 This symbol indicates caution; please exercise caution before operating the skid steer loader.

Especially before operating a skid steer loader!



Drivers must understand all of the following operating instructions.

You are responsible for understanding the equipment operation and maintenance instructions in the user manual and for following the relevant rules.



All loader warnings are for your safety.

Improper oil filling procedures when operating a loader can sometimes lead to danger or even fatal injury.

Do not perform any operation, maintenance, or refilling of diesel or lubricating oil until you fully understand this procedure.






This symbol indicates that you must be careful, otherwise it will pose a fatal danger to the driver and bystanders. It is placed on the loader to inform you of the dangerous situation. This symbol is present on all warnings on the loader's control panel and in the operator's manual.

We hope you are fully aware of all the dangers and take precautions to avoid accidents.


Safe operating instructions (continued)


Before the loaders are delivered to the user, each piece of equipment undergoes careful testing and inspection. To ensure all parts function properly, after your purchase... 100 Special care should be taken when operating this equipment for hours. Rough or improper handling will shorten its lifespan and reduce its efficiency . For new equipment, you should pay particular attention to the following:

- I Please warm up the machine appropriately after starting. 5 minutes.
- I Please avoid operating the loader at full speed.
- I Please avoid sudden starts, accelerations, unnecessary sudden stops, and sharp turns.
- I When changing the oil filter element, please wash off the dust and debris.
- I If the operating environment is poor, please check for potential hazards before starting the loader.
- I Please check the usage time on the hourly chart.

  policetell,  important.
Danger,

These symbols are closely related to the safety of loaders and operators.

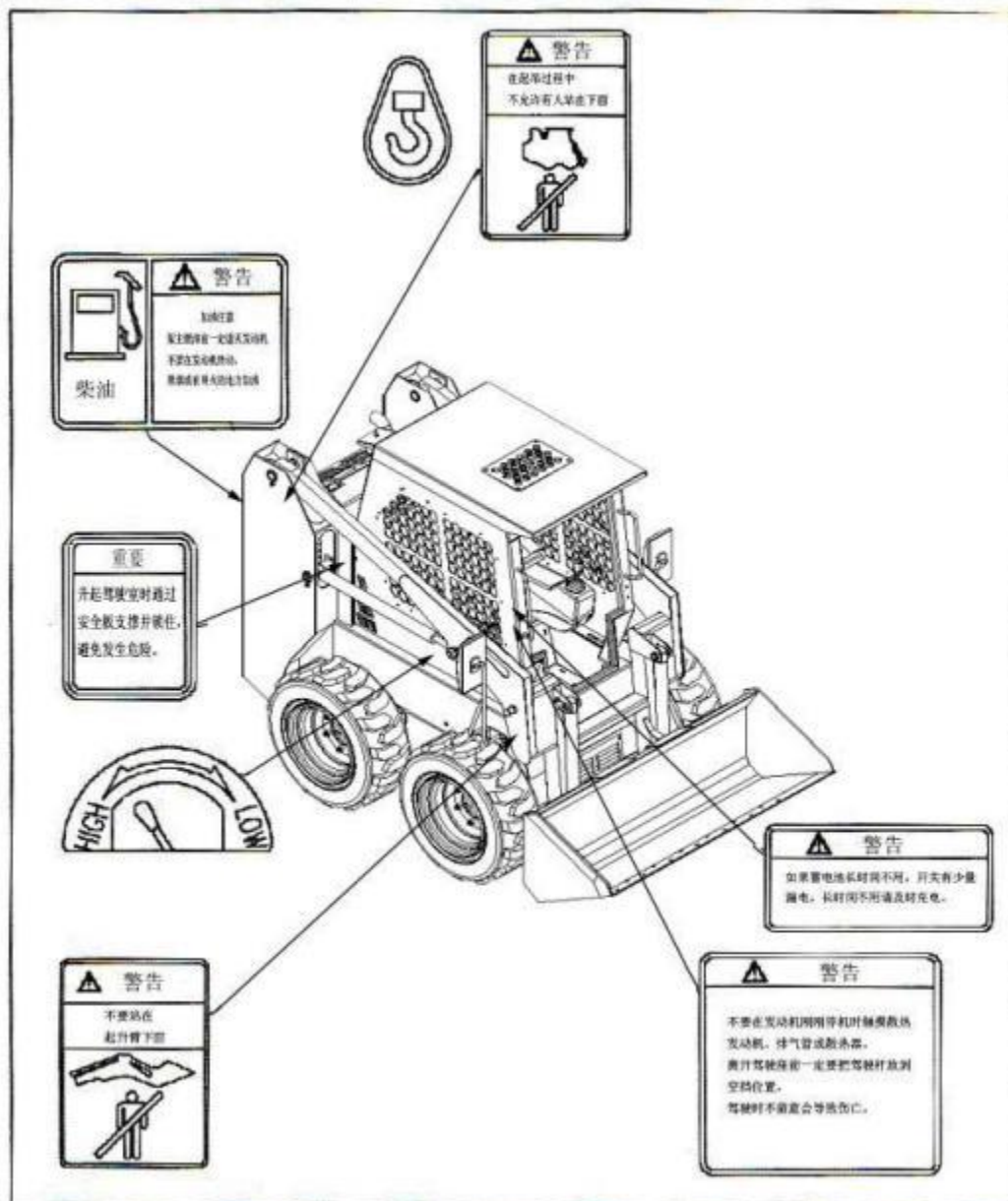
warn 
The warnings on the machine and in the manual are for your safety. Failure to follow the warnings may result in personal injury or death.

warn 
Danger symbols on machines indicate a dangerous situation near the operator or equipment . Failure to follow dangerous operating instructions can result in serious injury or death.

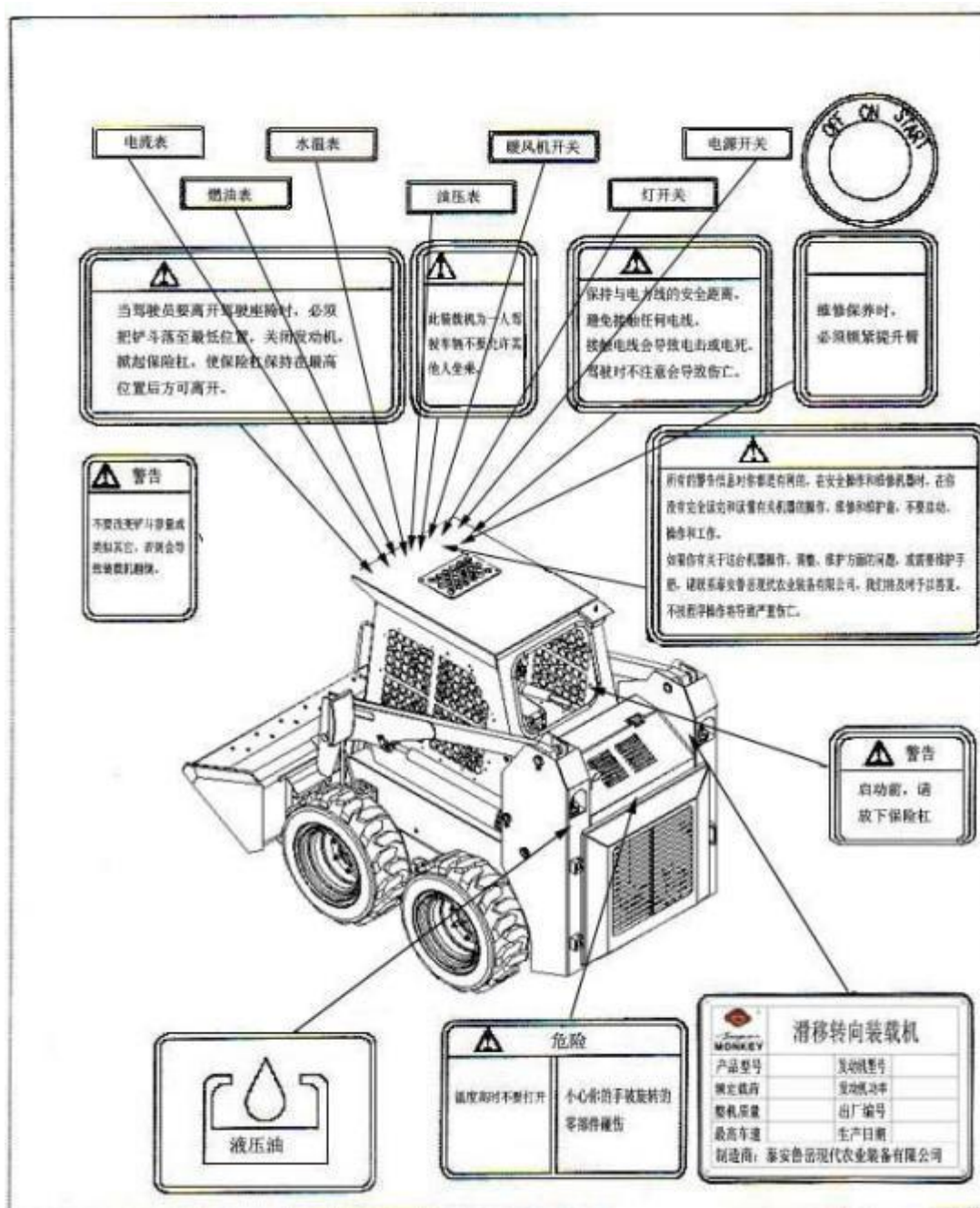
 warn
This notice indicates that this procedure must be followed to avoid damage to the machine.

Loader warning sign (sticker)

Please follow the operating instructions listed on the warning signs on all loaders. Replace any damaged warning signs and ensure they are in the correct position. Warning signs are available at the after-sales service center of Taian Luyue Modern Agricultural Equipment Co., Ltd.



Loader warning sign (sticker)



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For new loaders
Work environment and working conditions

Loader need 100 small hour
The transport Break-in period Only in this way can its design performance be fully utilized.

The new loader should be used according to the three steps shown in the table below. Overuse should be avoided during the first 100 hours.

Hours	load
Within 10 hours	Approximately 60%
Within 100 hours	Approximately 80%
100 hours later	Approximately 100%

Use with caution during the first 100 hours.

Preparations before starting the loader:
Please read the operation and maintenance manual before using the loader.

superior Down Pack load machine hour please make Use a bucket or attached steps, Grasp the key .

pass Anti-slip pedal, Anti-slip pedals are installed on loaders to prevent slipping when getting on and off the loader. The steps should be kept clean., Report if it is damaged .

Pull the seat lever to adjust the seat to a comfortable operating position.

Tighten the seatbelt and adjust the buckle so that it sits between the buttocks.

Lower the support rod.



warn

Overuse of a machine can lead to performance degradation and a reduced lifespan.



warn

Operators must receive training and guidance before operating a loader; untrained operators may be injured or killed.



warn

To avoid injury or death when operating a loader, the following should be observed: Safety bars must be lowered; seat belts must be securely fastened; and feet must be placed on the footrests.

Before you start the engine, all the control levers are in Natural position.

Daily check

The engine must be in good working order.

The following items should be checked daily:

- . Engine cooling system
- . Cab, seat belts, safety bars, lifting arm
- . Tires and tire pressure
- . Any loose or damaged parts
- . Safety signs

Dashboard

Check the fluid levels of coolant, engine oil, hydraulic fluid, and fuel, and look for any leaks.

Check and replenish the lubricating oil regularly.

Check the instruments and lights during operation.

During operation, check whether the machine is working properly.

Apply grease to the lubrication points daily.

Tighten the bolts.

Dashboard



1 Ignition switch



OFF : The normal position when the engine is off. The key should be removed when the engine is not in use .

ON : The normal position when the engine is running.

START : This position will start the engine.

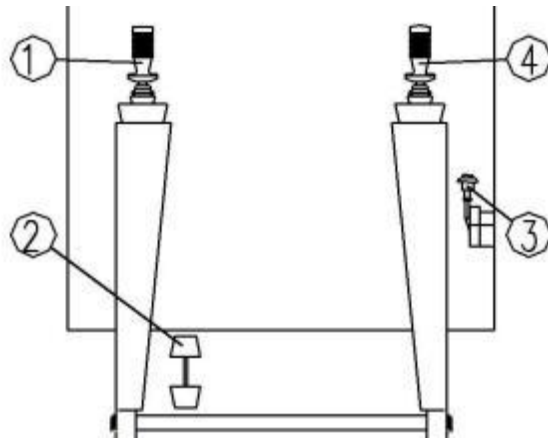
Note: The control lever should be in the neutral position when starting the engine.

2 Headlight switch

3 Warning light switch

4 LCD instrument

Operating system

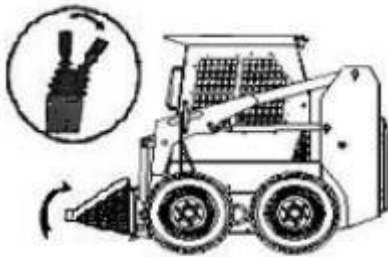


1. Left control handle 2 Right auxiliary pedal

3 Left auxiliary

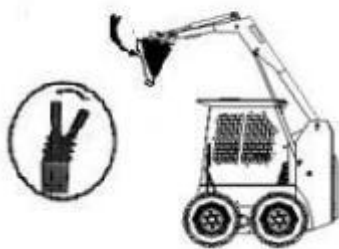
4. Right control handle 5. Accelerator
(hand throttle) control handle wiring method: standard wiring method

Bucket Operation



warn

speed of the bucket and boom is controlled by the force applied to the control handle.



- Depress the left control handle to tilt the bucket backward ;
- Goods can be loaded into the bucket.
- Raise the left control handle to tilt the bucket forward .
- Can unload goods

Lifting arm operation



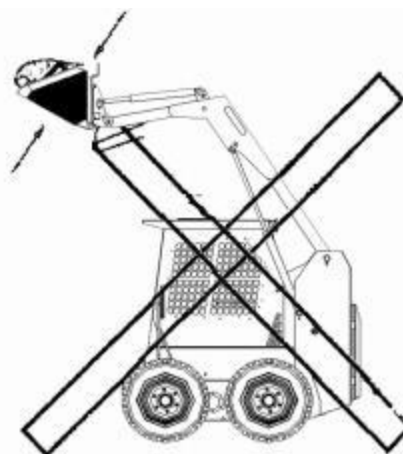
- Press down the right control handle to raise the lifting arm.
- Used to load cargo from the bucket into trucks or other vehicles .

	warn
<p>When loading and unloading goods , the hydraulic control lever should be operated slowly . Sudden operation may cause the loader to tilt forward or tip over .</p>	



- Lift the control handle to lower the lifting arm.
- Used to unload and dump loaded goods.

* Automatic balancing system (optional installation)
When the boom is raised or lowered , the bucket moves up and down simultaneously to automatically maintain a horizontal position. This prevents cargo from falling and reduces vehicle swaying .



	Danger
<p>Do not walk or turn when the lifting arm is raised , as this may cause the loaded goods to fall or the vehicle to overturn, resulting in injury or death .</p>	

	warn
<p>Do not dump cargo onto obstacles, as this may cause the cargo to enter the cab , causing the vehicle to tip backward and resulting in injury or death .</p>	

Walking control

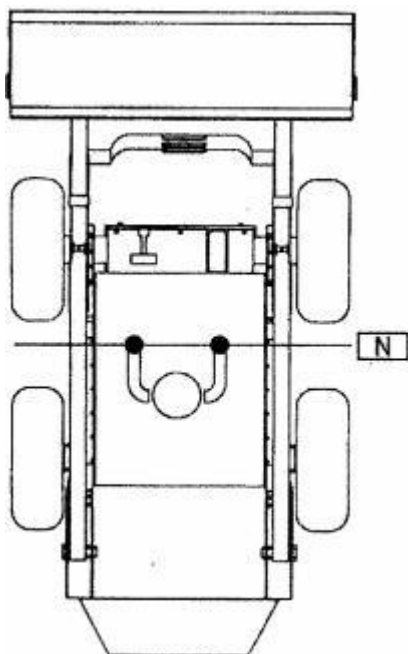
--When moving , fully lower the boom while raising the bucket to a sufficient height to avoid obstacles.



Danger

Moving the vehicle quickly or turning while the boom is raised can cause it to overturn and result in injury or death . Care must be taken and the operation must be slow and deliberate.

o1 parking



warn

When the loader is moving , lower the bumper and operate the control handle smoothly . Sudden operation of the control handle is dangerous . The vehicle cannot move without lowering the bumper .



warn

the loader stops , stop the engine and lift the bumper .

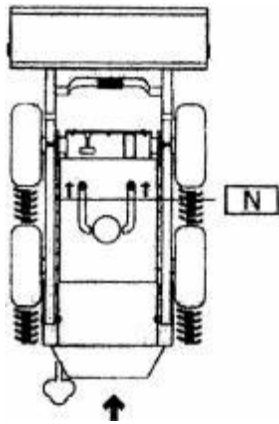


warn

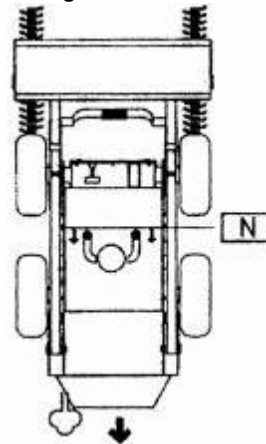
When operating the control handle , avoid sudden movements ; operate it slowly .

Walking control

⌚ Moving forward



Push both control handles forward the same distance, and the engineering machine will move forward straight.



⌚ Back

OK.

Put the two control handles distance, the engineering machine will move straight backward.

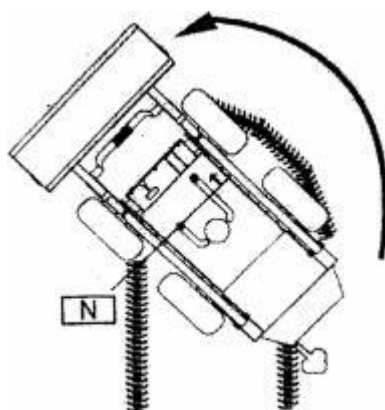
Pushing backward the same distance, the engineering machine will move straight backward.



warn

driving against traffic , please make sure there are no obstacles behind you.

⌚ Go forward and turn left



With the left control handle in its original position, push the right control handle forward, and the loader will turn to the left .
If you pull the left control handle back to its original position while driving forward , the loader will turn to the left .

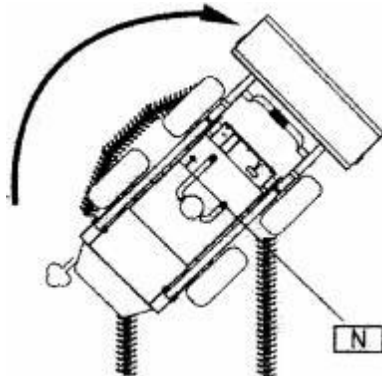


warn

If the lifting arm turns while raised, the loader may tip over and could result in injury or death .

Walking control

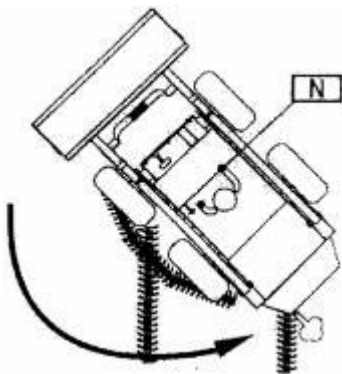
○ 5 Go forward and turn right



With the right control lever in its original position, push the left control lever forward; the loader will turn right. While moving forward, pull the right control lever back to its original position.

The carrier aircraft will also turn to the right .

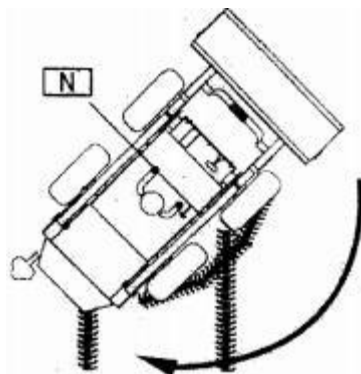
○ 6 Turn left



With the right control handle in its original position, pull the left control handle back, and the loader will turn to the left .

If you pull the right control handle back to its original position while driving backward , the loader will also turn to the left .

○ 7 Turn right

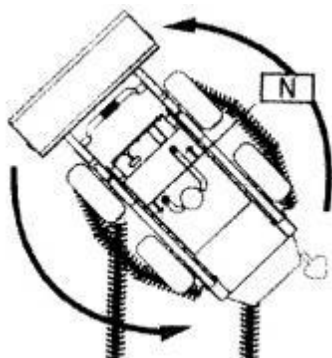


With the left control handle in its original position, pull the right control handle; the loader will then turn right. While moving backward, pull the left control handle back to its original position.

The machine will also turn right .

Walking control

○ 8 Turn left on the spot



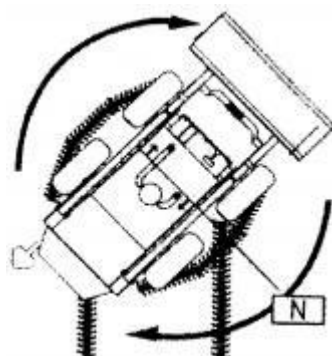
Pull the left control handle back to its full position and push the right control handle forward to its full position , and the loader will... 360 °Turn to the left .



warn

turns or stops while the boom is raised , it may overturn and cause injury or death .

○ 9 Turn right on the spot



Push the left control handle forward and the right control handle backward to rotate the loader 360 °.Turn right .



warn

suddenly moves or turns while the boom is raised and the bucket is full of cargo , it may tip over.

⑩ Walking on the slope

Be careful when working on slopes .



warn

Safety is significantly reduced when driving on slopes. Therefore, exercise caution when driving on slopes . When going uphill , consider the gradient and the vehicle 's center of gravity . Reverse uphill . (Loaders are designed with the center of gravity at the rear.)

twenty two




warn

Operating steps
 Start the engine
 Normal environment start-up
 Adjust the seat position for comfortable operation of the pedals and levers.
 Tighten the seatbelt and adjust the buckle so that it is positioned between your hips .
 Lower the bumper.
 Set the accessory pedal to the off position.
 The steering control lever is in its natural position.
 Start switch reaches the open position ,The rear warning light will illuminate .
 NoteMeaning: asfruitenginestart up backWarning lightsUnextinguishedfuse fails , immediately shut it off.

Turn the key to the start position and release it once the engine starts .
 After the engine starts, the key switch will return to the running position when you release the key.
 engineWarm-upneed5 minutes.

Notice: Other preheating systems cannot be used.
 The explosion will result in casualties.

When an engine operates in a confined environment, it is essential to circulate fresh air and prevent excessively high concentrations of exhaust gases. Engine exhaust contains odorless and colorless toxic gases that can cause poisoning and death without the driver being aware of it.


warn

Do not use the starter motor for more than 15 seconds at a time. Prolonged use may cause the starter motor to overheat and burn out. Allow the starter motor to cool down for 1 minute between uses.


warn

Do not start the engine unless you are wearing your seatbelt and have the safety bar lowered. Failing to wear a seatbelt will result in serious injury or death.

Operating steps (continued)

Start the engine

Start-up in low temperature environments

Follow the normal startup procedure.

In low-temperature environments, the loader cannot be started by directly turning the ignition switch to the start position.

If the temperature is below 0 °C, Use the following methods to make the engine easier to start.

Replace the engine oil with one of the appropriate type and viscosity for the starting temperature. (Reference)(Page 58)

Make sure the battery has a full charge.

Note: If starting fails, the switch is already in the "off" position."Location, must wait at least... " 10-3 seconds to hit "open" again." Location.

.

 warn
Loaders can have their lifespan extended by warming up their engines at medium speeds and under light loads .

Operating steps (continued)

Jump start

When the battery discharges to the point where it cannot power the starter motor, jump-starting or battery replacement is necessary.

When jump-starting, follow these steps:
During jump-starting, ensure the battery fluid level is correct and the vent cap is tightened. Place a damp cloth on the vent cap.

The aid battery must be 12V.

The vehicle used for jump-starting must be negative grounded.

Connect one end of the positive jumper cable to the positive terminal of the discharged battery. Connect the other end of the same cable to the positive terminal of the aid battery.

Connect one end of the second jumper cable to the negative terminal of the battery, and the other end to the grounding point on the engine block or the furthest point from the battery. Then start the engine following the normal startup procedure.

After starting, disconnect in the reverse order.



warn

To avoid injury when jump-starting with another vehicle , ensure that the vehicles do not come into contact. Keep sparks, flames, and lit cigarettes away from the battery. Lead-acid batteries release explosive gases when charging or when the engine is running. Wear safety glasses when working near the battery.

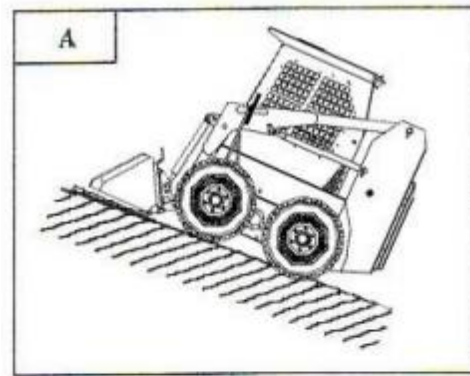
Operating steps (Continued)

Loader stop

Park the vehicle on a level surface.

Note: Avoid parking on slopes. If you must park on a slope,

The bucket should be lowered to the ground and the handbrake should be engaged. And block the tires, See Figure A.



Move the gear lever and driving control lever to the neutral position.

Lower the boom completely.

Place the edge of the bucket on the ground.

engine idle operation about 5 minutes. throttle release arrive idle position.

Turn off the main power switch.

Turn the key to "close"

Location The key was pulled out of the well.



Throttle mechanism


LW 25 oil Door assembly.

like Figure A shows a hand. Oil Door assembly.

profit with hands Oil Door Can by

Adjust all hair move machine

Rotational speed.

	warn
Suddenly stopping the engine before it has cooled down will significantly reduce its lifespan. Therefore, the engine should not be suddenly turned off unless in an emergency.	

Operating steps (Continued)

loader preservation

Save after completing the work

After completing the work, in preparation for the next work..., The following steps should be followed:

Remove mud and water from the vehicle.

Park the loader on concrete or a hard surface., If not, Park the car on the wooden floor.

Drain the water that has accumulated in the fuel system.

will decrease in low-temperature environments., At night, the battery should be covered or ... Storage Pond dismantle Down take arrive temperature warm of environment .

Long-term preservation

If the loader is to be stored for an extended period, the following precautions should be taken:

Clean all parts carefully.

Lubricate all parts that require lubrication and change the oil accordingly .

to the exposed part of the piston rod in the hydraulic cylinder .

the cooling water from the diesel engine block and radiator .

After fully charging the battery, remove it and store it in a cool, dry place.

Loaders should be stored indoors; if outdoor storage is necessary..., Wheel locking blocks should be placed and covered with waterproof tarpaulins.



warn

During long-term storage

- Start the engine.
- To make the loader move back and forth.
- Operate each pedal.

Perform the above operations at least once a month to lubricate all parts.



warn

After long-term storage

Remove the drain plugs from the fuel tank and oil tank to drain any accumulated water. After starting the engine, allow it to warm up sufficiently and carefully inspect all parts.

Operating
steps
(Continued)

Walking

Loaders must be warmed up before operation.

New loader operators should practice driving in an open area without onlookers until they can operate the machine skillfully and efficiently in any working environment .

Raise the bucket only to a height sufficient to avoid obstacles on uneven surfaces.

Working on a slope is dangerous. Avoid working on slopes exceeding 10 degrees.



警告

Warning: When working on a slope, the center of gravity shifts significantly; do not force it. Try to work on flat ground whenever possible.



警告

Warning: Operating the vehicle at moderate engine speed and light load while it is warming up can extend its lifespan.

shovel fight Full load hour, superior Downslope answer make Comparison Heavy of—end towards Towards incline slope high of square Towards.



When the bucket is fully loaded

Bucket unloaded, When going up or down a slope, the heavier end should face the direction of the higher slope.

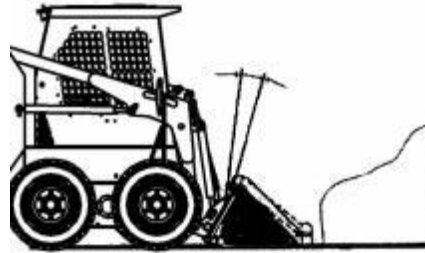


Bucket unloaded

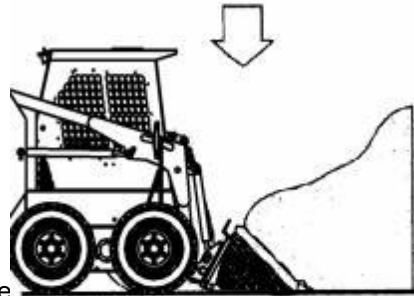
Operating steps(Continued)

Fill the bucket

Slowly drive towards the cargo, Lifting arm fully lowered This allows the sharp edge of the bucket to rest against the ground.



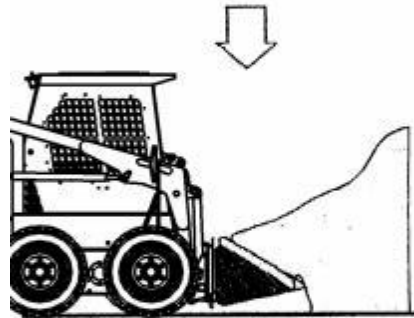
Push the driving control lever forward. Once the cargo enters the bucket, raise the front of the bucket. Operating the joysticks that control the boom and bucket. To fill the bucket with goods.



Reverse the direction to move away from the
Notice:

- Place the bucket flat on the ground, and do not exceed the rated working capacity.

- Do not make Use a loader To perform work beyond its rated capacity.



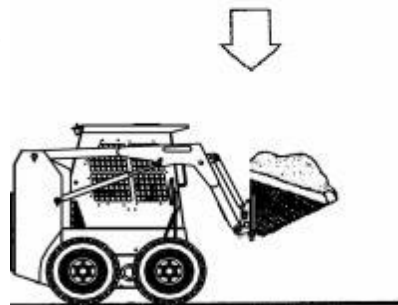
Empty the bucket

Raise the bucket to make it higher than the

Proceed slowly forward until the bucket is on top of the truck bed.

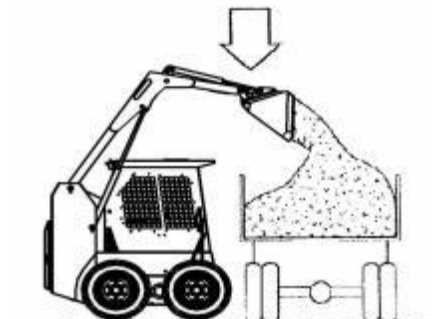
After the lifting arm is raised high enough, tilt the bucket to empty the cargo.

When loading and unloading goods, be careful not to let the vehicle or bucket hit any obstacles. Do not allow the cargo inside the bucket to fall out.



Notice:

Do not use excessive back-and-forth swinging of the bucket to remove goods stuck to the bottom of the bucket. This will damage the



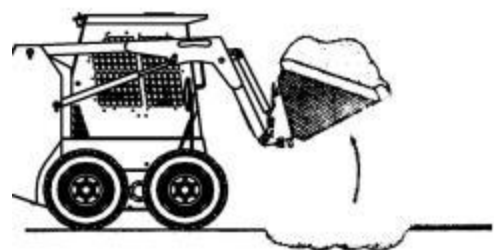
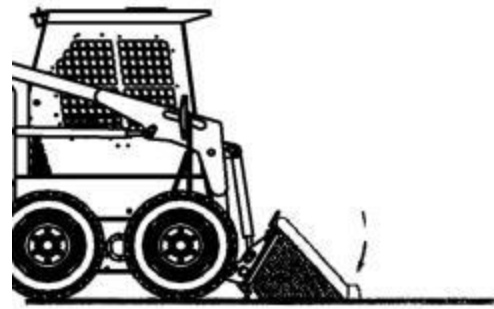
hydraulic cylinder and
reduce the lifespan of the
loader.



Hold do step sudden (Continued)
dig dig land noodle

Lower the lifting arm completely.
Use a shovel fight tip sharp
side edge stick exist ground.
Proceed slowly. continue
Towards Tilt the bucket down
until it enters the ground. .
shovel fight by Mutually right land
noodle 10-15 degrees Spend
Following Continued dig dig .

Pack Full shovel fight back, slow
speed forward OK Raise the lifting
arm. shovel fight Lean back
incline .
Notice Bucket and ground
between digging Digging
Spend No want Pass big .



Operating steps (Continued)

level ground

Lower the bucket,
Keep it at a certain
distance from the
ground, Drive forward
Spread out the materials.
The further the bucket
tilts forward, The
greater the force on
the edge of the
bucket .

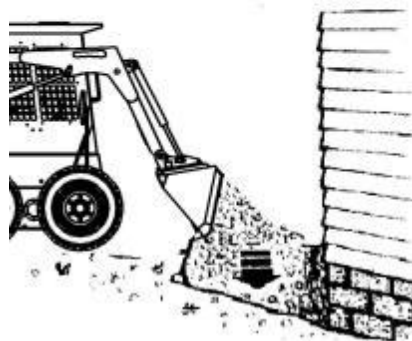
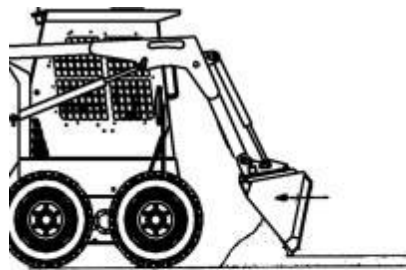
can be adjusted to
level the ground
according to the
work site conditions .
If you want to lift the
lifting arm, Try to keep
the edge of the bucket
parallel to the ground.

Notice: Do not move
forward when the
lifting arm is raised .
Backfill

Lower the lifting arm ,
The edge of the
bucket is close to the
ground.

Proceed to the edge
of the pit and push
the material into it.
bucket immediately
after it passes the
edge of the pit ., If
you need to raise the
issue

Raise arm and clear Empty bucket.



warn

To avoid injury or death, the following precautions should be taken:

- Lower the lifting arm as much as possible.

Do not drive or turn while the boom is raised.

- Turn on flat ground.
- Do not cross slopes when going up or down.
- The heavier end of the vehicle should face the direction of the

Operating steps (Continued)

steeper slope. Do not overload.
Failure to heed these warnings may
cause the vehicle to tilt or overturn,
resulting in injury or death.

Operating
steps
(Continued)
Transport
loader
step



warn

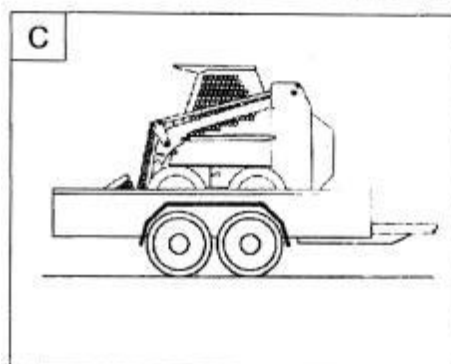
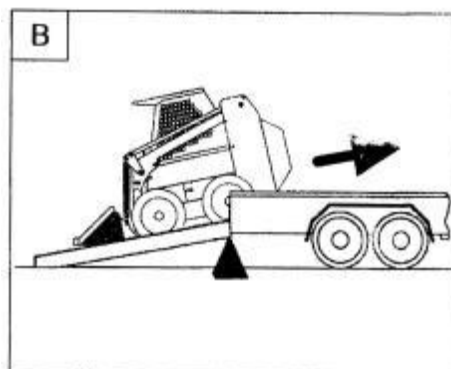
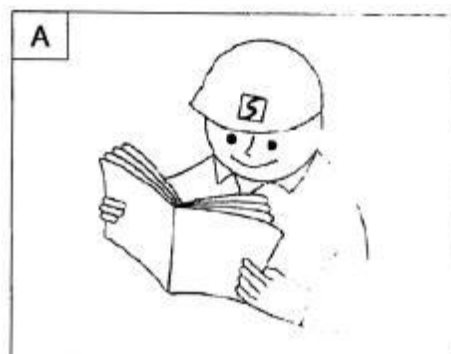
Operating or repairing this machine must be done under the guidance of an experienced person. Please read and understand the operation and maintenance manual and the labels (stickers). After repair, adjustment, or maintenance, verify that its function is correct. Otherwise, it may cause injury.

Death.(A)

Ensure that the vehicles used for transporting and towing the loaders are of sufficient size and power. The rear of the trailer must be secured or supported when loading and unloading loaders., Prevent the front of the trailer from lifting up. (B) Position the left and right ramps, ensuring they can support the weight of the loader. The left and right ramps must be at the same height. There should be no height difference. Securely fasten the ramp to the vehicle using appropriate fastening tools, and limit the ramp's slope to within 15 degrees. Before mounting the ramp, the vehicle's direction must be adjusted. Loaders without auxiliary equipment or with empty buckets must reverse onto the transport vehicle..(B)

Please follow these steps to secure the loader to the transport vehicle to prevent the loader from moving when the vehicle is going uphill, downhill, or stopping suddenly: (C)
Lower the bucket or attachment to the ground.
Turn off the engine.

Install ropes at the front and rear of the loader. Secure the ropes to the auxiliary transport vehicle.



warn

When loading a loader into a transport vehicle, a ramp with sufficient strength to support the weight of the engine must be designed. If the wooden ramp breaks, it could result in injury.

Operating steps (continued)

Towing loader

step:

Before hoisting a loader, its weight, length , width, and height should be checked .
Use appropriate chains or ropes.

Attach the chain or rope to the tow hook.

Place rubber pads on the contact surfaces between the chain or rope and the loader to prevent damage to the loader.

Note: To prevent damage to the loader's gear mechanism, the loader must be towed slowly for a short distance (e.g., moving the loader onto a transport vehicle) .
Make sure to use chains or ropes of the correct size.

Incorrect hoisting methods or improper installation of chains and ropes can damage the loader .
Do not hang yourself suddenly.

No one is allowed to stand under the crane after it has been lifted.



Accessories

Installation and replacement

Install

Different attachments

can be quickly changed using the hanger. To adapt to different

As required for homework.



warn

When changing the hanger, hold the handles at both ends firmly and lower it slowly; otherwise, the operator may be injured.

The hanger handle should always be locked during operation.

Drive the loader to a position directly behind the bucket.

Tilt the mount forward and drive the loader forward until the top edge of the mount is completely inside the connecting flange of the bucket or other attachments.

Do not use the method of tapping the handle to get the attachment connecting pin into the attachment's locking sleeve.

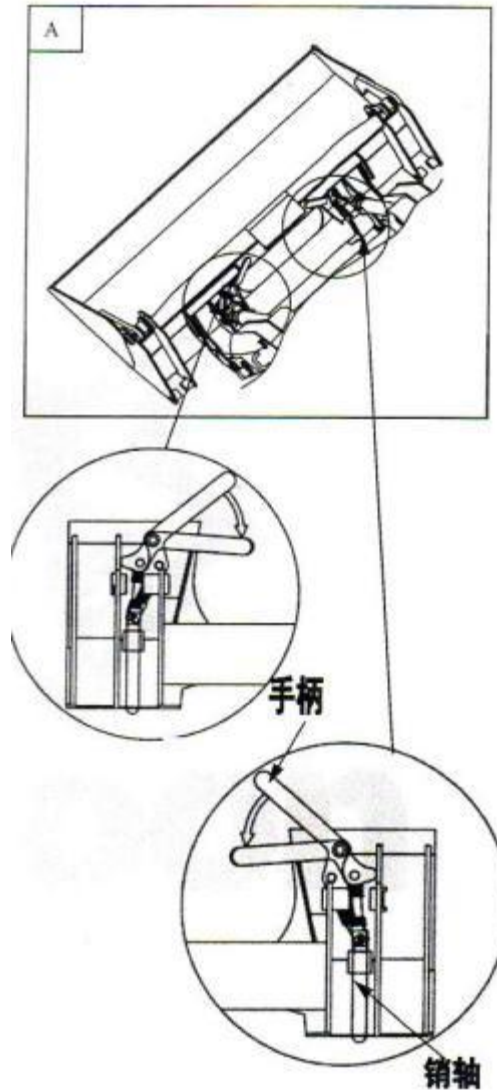
Retract the rack until the bucket leaves the ground, then stop the engine.

Slowly lower the hanger handle until the attachment connecting pin enters the attachment's locking sleeve.

The attachment connecting pin must be fully engaged in the locking sleeve of the bucket or other attachment.

The attachment connecting pin must contact the lower edge of the locking sleeve of the bucket or other attachment.

Note: If the attachment connecting pin does not contact the lower edge of



the locking sleeve of the
bucket or other attachment,
the bucket or other
attachment...
It may be loose or detach from the bracket.



warn

The attachment handle must be fully engaged in the locking sleeve of the bucket or other attachment, and the handle must be fully lowered and locked. If the attachment connecting pin cannot reliably secure the bucket or other attachment, the bucket or other attachment may loosen or detach, resulting in personal injury or death.

Accessories (continued)

Installation and Replacement (Continued)

Replacement

Place the loader underwater.

Lower the bucket to the ground and tilt the bucket forward until the hanger handle can be raised.

Grip the handle firmly and lift until the attachment is engaged.

Continue until the pin is completely disengaged from the locking sleeve.

Tilt the bracket backward so that the uppermost surface of the bracket is completely detached from the inside of the bucket connecting flange. Then move the loader backward, away from the bucket.

Accessories (Continued)
Hydraulic attachments
Device



warn

During operation, the hydraulic system connection devices of the attachments should always be kept clean and tidy.

Will Appendix Tool of liquid Pressure soft Tube Pass Pass — right quick Connect the adapter to the hydraulic system on the machine body, and simultaneously tighten the connector on the hydraulic system.

Hydraulic attachment switch when according to Step down Board 1, attached Tool of Oil cylinder stretch long When attached Tool Hydraulic cylinder stretch long, shovel fight (Group combines shovel) close Closed, phase opposite, when according to Down tread plate 2, Appendix Tool Oil cylinder Retract. when Oil cylinder Shrink return of hour Hou, shovel fight (Group joint shovel) Zhang open (suitable combine At fork shovel, Group combines shovel, Grasp Wooden fork and other accessories.)



warn

Tighten the bolts and nuts; once tightened, the attachment will not move. If the attachment is not tightened, a fall could result in serious injury or death.

Maintenance and Repair

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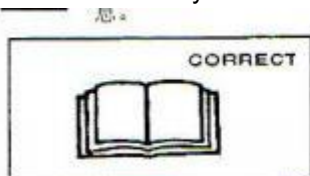
Fan belt


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warn


Before operating or repairing the machine, read the operation and maintenance manual, pay attention to the markings on the machine, and follow the warnings or instructions in the manual during the repair or debugging process, otherwise it may result in injury or death.

Full warning sign: These signs with warning statements mean "warn Be careful! Your safety is at stake." Please read this information carefully.




 Do not repair the machine without a manual.




 Always use correct steps involve raising and lowering the cab.




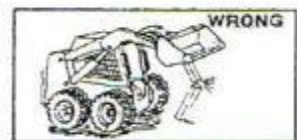
 Clean and maintain the machine daily as required.




 Welded or cut painted parts must have good Ventilation conditions are important. Wear a mask when cutting or painting parts to prevent fumes from leaking from the exhaust system. It can cause harm to people, so the exhaust system must be fully functional and unobstructed.




 Disconnect Hydraulics Piping, soft Failure of any pipe component or part may cause the lifting arm to fall. Unless there is a device in place, do not stand under the lifting arm when it is raised. If the lifting arm support device is damaged, replace it in time.



 If the lifting arm support device is damaged, it should be replaced promptly. Under no circumstances should the support device be modified, in HaotaimalemanageNo additional support devices may be added without permission.



 Before checking the fuel system, stop the



engine, allow it to cool down and clean it; do not run the



engine. Under normal circumstance

s , when repairing or adjusting the machine, unless otherwise specified in the manual, avoid contact with leaking hydraulic oil or diesel fuel under pressure, as this may cause skin or eye injury. Do not refuel while the engine is running, and do not refuel near open flames or smoking areas.



Keep your body, jewelry, and clothing away from moving machine parts, electronic components, hot parts, and exhaust vents. , When the engine is running or tools are being used Wearing eye protection devices to protect your eyes is not Acidity of the battery Damage from pressurized liquids When welding, wear the prescribed eye protection devices, and always close the engine hood unless performing maintenance.



The battery is prone to acid production. The gas from the explosion could produce sparks, flames, or other ignition sources, and the acid in the battery could burn the eyes and skin. If the acid comes into contact with the skin, rinse it off immediately with water and apply medication.

Repair Schedule

Maintenance work should be performed regularly; otherwise, it will lead to excessive wear and tear or even scrapping of parts. A maintenance schedule is essential for proper maintenance. HTInstructions for skid steer loaders.



warn

Before operating or repairing a machine, it is essential to read and understand the operation and repair manual. During repair and troubleshooting, follow the warnings and instructions in the manual . After repair and troubleshooting, properly test the machine; failure to do so may result in injury or death.

project	Maintenance requirements	Hour					
		8-10	50	100	250	500	1000
engine oil	Check the engine oil level and add oil if necessary.	√					
Air filters and intake systems	Only inspect for leaks and damaged parts when necessary.						
Engine cooling system	Clean the cooler, water radiator, and water tank of any debris. Check the water level and add coolant if necessary.	√					
tire	Check the tires for wear and inflate them to the appropriate pressure.	√					
Seat belts, safety bars, foot pedals	Check the condition of the seat belts, inspect the bumper, and wipe away any dust stuck to the parts.	√					
Scales and lights	Check the working condition of the indicators and lights.	√					
driver's cab	Check the fastening bolts, washers, and nuts; inspect the condition of the cab.	√					
Lifting arm, hydraulic cylinder, pivot pin	Lubrication with lubricating grease	√					
Diesel filter	Remove residual water	√					
Foot pedals, hand controls and steering	Check if it operates correctly and make adjustments if necessary.	√					
Wheel nuts	Check for loose wheel nuts and tighten them. 28-30 kgf.m						
control lever	Add lubricating grease	√					
Hydraulic oil, hoses and lines	Check the hydraulic oil level and add oil if necessary. Inspect for damage and leaks , and modify or replace as needed.		√				
drive box	Check the oil level		√				
Battery	Check the cables, connections, and electrolyte level; add distilled water if necessary.		√				
exhaust pipe	Clean the inside of the exhaust pipe			√			
Fan belt	Check belt tension and adjust if necessary.			√			

Engine oil and filter	and engine oil with the highest centrifugal performance.				√		
diesel filter	Replace filter element				√		
Engine drive belt	Check for wear and damage				√		
Transmission box	Check the gear lubricating oil level and add lubricating oil if necessary.				√		
Hydraulic oil tank	Change hydraulic oil						√
drive box	Change the lubricating oil						√

driver's cab

describe

HT loaders come standard with a cab that protects the driver from rollovers or falling objects. The cab is a protective structure that, for example, prevents the driver from being injured by falling bricks, small concrete blocks, and hand tools encountered during operation, such as when maintaining highways or other construction site services.

At the same time, when the loader is clearing cluttered areas, working at heights, or operating in forests, it can also prevent potential damage from falling trees, rocks, etc.



warn

Avoid casualties

when Cab configuration It is completely sealed closed driver room (Front (It's a door, with windows at the rear and top). The cab cannot be stopped in the fully raised position. Use a hinge to ensure the cab can be stopped in the fully raised position, or lower the cab until it is locked at the rear. If the control handle is not in the correct position before raising or lowering the cab, the loader, attachments, and boom may move suddenly. Place the control connection in the highest hole. To prevent the cab from hitting the handle when it is raised or lowered.



warn

Without the permission of our company's technical department Never alter the cab structure by welding, drilling, or adding auxiliary devices. Unauthorized modifications may cause the cab's rollover protection and falling object protection devices to malfunction, potentially causing injury to the operator.

Lift the driver's cab

- 1, Park the loader on a relatively flat surface.
2. The work arm is lowered to its lowest point.
3. Engine off Stop working.
- 4, when driven driver room Lift rise hour carry Lift arm also it must be raised Install the support device for the working arm .
- 5, dismantle Lose As shown in the figure of driver room solid Set bolts.
- 6, exist driven driver room forward noodle use force lift rise drive Driver's cab.



driver's cab

Lower the driver's cab

Note: Before lowering the cab, ensure the engine is stopped, the safety bars are fully raised, and use the grabs (handrails) to lower the cab.

Slowly lower the cab until its bottom touches the loader frame. Note: Keep the steering control lever in the vertical position to avoid...

The control handle is touched when the cab is

Install the left and right bolts. Tighten to the ap



EMERGENCY EXIT

The front and rear windows of the driver's cab can be used as emergency exits. When exiting through the rear window, follow these steps:

1 Remove the rubber strip from the rear window

2 Kick the back window out with your foot. (See p

3 Exit from the back of the driver's cab. (See diag

Note: You can also exit through the front door o



Safety bar

Purpose of safety bumpers:

The safety bar has a crossbar that rotates around its center. When in the lowered position, the safety bar protects the driver in the seat from rollovers and external collisions. Therefore, you must lower the safety bar and secure it.

The safety bar can protect your safety when the loader overturns.

Safety bar maintenance

Clean the dust off the moving parts.

Inspect the connection of the bolts and nuts.

If the bumper is not working properly, check the connections and wear of the components.

EvenChangeWearorThedamageof departmentItemOnly makeRepairs with our own parts.

seat belt

buckleliveinstallCompletebring hour, answerwhenConfirmSavewithouthave EntanglementInsert the metal piece on the right into the buckle on the left, and you'll hear a click.

If the seatbelt is too short, adjust it to be longer.—Some . If it's too loose, tighten the seatbelt to remove the excess length.

When unfastening your seatbelt, press the button in front of the seatbelt buckle.



warn

Before you leave your seat, please:

- Lower the boom to allow the attachments to rest on the ground;
- Stop the engine;
- Raise and secure the safety bar;
- Place the bucket and boom control levers in neutral;

If neither control lever works, repair the system;



warn

Seat belts must be fastened when operating a loader.

When leaving the operating position, ensure that the seatbelt buckle is open.

Air filter
description
as shown
in the
figure A air
intake

sequence 1

air outlet sequence2

Clean the air filter (or assembly).

A dirty air filter can reduce engine output
power , increase fuel consumption, and
increase the emission of harmful substances.
Increase black smoke.

Therefore, the air
filter needs to be
cleaned regularly .
250 Clean and
replace the air filter
every hour

The replacement cycle is every 1000 hours or 4 After the first
cleaning.

Note: When the engine is operating in a dusty
environment, shorten the cleaning interval. Do
not tap or strike the air filter when cleaning it.

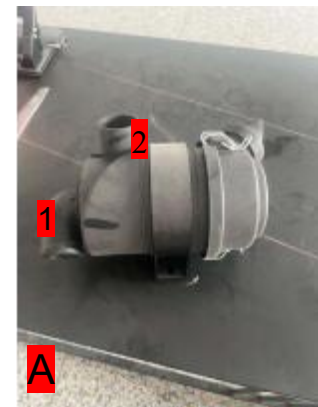
Please follow these steps to clean the air filter:

1 1. Open the cable clip that is secured to the air filter dust
cover. (See diagram)B

2 Remove the dust cover. (See picture)B

3 Remove the filter element. (See diagram)C

4 Replace the filter element.



Add
fuel to
the fuel
system

Add clean, High-quality
diesel fuel, grade
1 or grade 2.

We recommend that
engineering machinery
operators...The staff
must contact the local
supplier to ensure that
the appropriate diesel
fuel is used.



warn

must be added after the engine
has stopped running and cooled
down. Smoking is prohibited when
adding diesel fuel. , To prevent a
fire.



Open the fuel cap
Use a clean, compliant
containers according to
correct specifications
diesel fuel. And
refueling must be done in
a well-ventilated area.,
And there is no nearby
Refueling is prohibited
in areas with flames or
sparks. Note that
refueling is prohibited
during the refueling
process .

Smoking (B).

After refueling, Make sure to tighten the oil cap.

Replace the
diesel fuel filter
element and
clean the end of
the filter.

Take out the filter and clean it.
wash dense seal up Item surface
.

Replace O-ring lock up
Fill the new filter with fuel.
Apply a layer of machine oil
when installing the seals.



warn

After starting the engine, check for fuel
leaks.

If there is air in the fuel system, the
engine will not start.

Use appropriate methods to purge the air
before starting the engine.

fuel system (Continued)

RowoutAir (this exhaust method) (Only suitable for imported engines)

For exhaust methods of domestically produced engines, please refer to the engine instruction manual.

Notice:

picture Pieces A and B are air moving machine since bringing of Fuel pump.

(Installation location:)
(In the middle part of the engine)

Bleeding air from the fuel system should be done as follows: If the filter cannot filter air during operation .

diesel fuel, Need to be replaced promptly,

Otherwise, it will affect the engine's lifespan.

Loosen the plug on the filter.

Press down on the manual oil pump until it bleeds . Continue until no more bubbles come out of the mouth.

During operation, cover the exhaust port with a cloth., Prevent from exhaust mouth The discharged fuel splashed.

After purging the air mixed in with the fuel, tighten the exhaust port.

Press down until it becomes very difficult.

Finally, check for oil leaks.

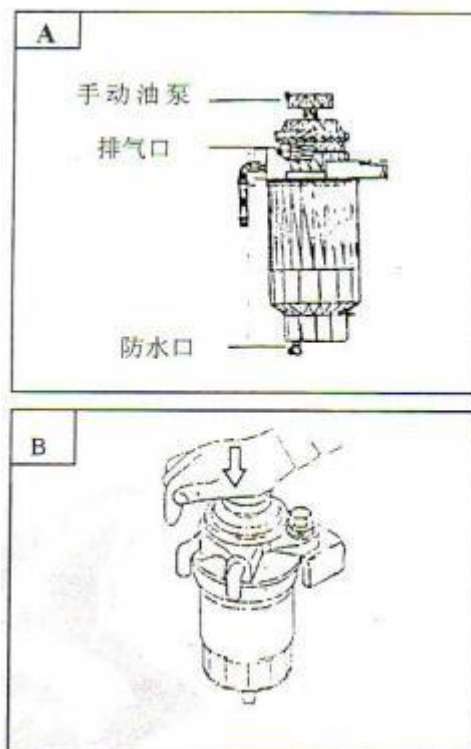
If not certain, Please contact after-sales service for assistance .

Notice:

Do not smoke while purging air from the fuel system ., don't want Nearby areas with open flames.

Thoroughly wipe away any diesel fuel that splashes out during the exhaust process., Otherwise very

It is prone to causing fires.



warn

Diesel and hydraulic oil, when under pressure, can puncture your skin and eyes, causing serious injury or death. Leaking oil is not visible under pressure; use a piece of cardboard or a wooden board to test for leaks. Never use bare hands; always wear safety gloves. If accidentally splashed into eyes, treat immediately.



warn

Wipe up any spilled oil and keep away from heat sources, open flames, sparks, and smoking areas. Improper handling may cause flammable materials to explode or cause a fire, resulting in injury or death.

Fuel System (Continued)

Water separation

The filter indicator light flashed frequently while driving. This indicates that water has accumulated in the filter. If this happens, drain the water as follows :

Loosen the drain connector at the bottom of the fi

Slowly press down on the top of the filter 6-7

Repeat until water flows out of the joint.

After the water has drained, tighten the bottom dr

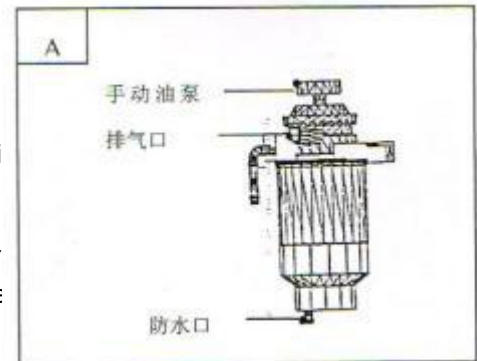
Loosen the exhaust port connector (refer to the e

no longer flashes during engine start-up or operation .

If you have any questions, please consult your nearest after-sales service personnel.

Notice:

Do not smoke or approach open flames during the entire draining process of the filter. Make sure to wipe away any water sprayed on other parts, as this water contains oil and can easily cause a fire.



Check engine
lubrication
system oil

Before starting the engine
Check the engine oil level .


Open the engine hood
Remove the cursor
As shown in Figure 1

Keep the engine oil level
between the maximum and
minimum marks on the dipstick

Use engine oil that
meets the required
quality standards. All
oil specifications are
listed below .



type	capacity	Ambient temperature °C
		-20 -10 0 10 20 30 40 -4 14 32 50 63 86 104
diesel engine oil	5.4	SAE 30 SAE 10W SAE 10W
hydraulic oil	45	ISO VG46 ISO VG32 ISO VG 68
diesel fuel	50	ASTM D975 ASTM D975 NO. 2
coolant	Antifreeze and water 50:50 Proportional mixing	Ethylene glycol base permanent type
		NLGI NO. 1


warn

Refilling or changing the engine oil requires waiting at least 15 minutes after the engine has stopped running.

If the engine oil is contaminated or diluted, the refill interval may need to be changed.

grease	As needed	NLGI NO. 1
Gear oil	33	Castrol aSPI50

Use only the specifications listed above or equivalent. Do not mix oils from different brands.

Engine Lubrication System (Continued)

Change the engine oil and oil filter.

After the engine is turned off, open the engine hood to allow it to cool.

Remove as shown in the picture. The drain plug shown in Figure A.

Collect the discharged engine oil to prevent it

Use a filter wrench to remove the filter and clean the surface of the seals.

Apply a layer of oil when assembling new filter

Tighten the screws after installing the new filter.

Note: Tightening mechanically may damage the threads or filter components.

Tighten the drain plug after installation.

Remove the fuel filler cap from the top of the engine.

After adding the engine oil, let the engine run for a few minutes. Then stop the engine.

Check the oil filter for leaks and check its level. Pull out the oil level indicator and wipe it clean with a cloth.

After fully inserting and removing the gauge, check the oil level. The oil level should be between the highest and lowest marks on the gauge .



cold but Tie Unification
 every day Inspection check hair
 move machine of cold However,
 the system Defend Pass hot
 damage Harmful hair motivation.

warn

If the water tank overheats due to twisting or damaged fins , it must be replaced .,Then it must be replaced according to the manufacturer's licensing procedure.

Components of the cooling system

The cooling system consists of two parts: an oil cooler and a water cooler .

Oil cooler/
 water cooler
 description
 on thermostat and water pump
 overflow pipe
 Radiator cover
 water inlet pipe
 water outlet pipe

Cleaning water coolers and oil coolers

Inspect the outer surface of the water-oil radiatorIf neededClean and wipe the surface of the water-oil radiator. It operates in a dirty environment, Water radiators should be cleaned more frequently , following these steps:

1. Open the engine cover.
2. Inspect the water radiator and oil radiator.
3. Use high-pressure airflow to blow away dust and dirt from the surface of the heatsink.At this timeThe airflow should be directed in the opposite direction to the



direction the fan is positioned.,
To prevent dirt from entering the
interior;

4. Check the heat sink for
any twists or breaks .

5. Check the cooling system
for leaks .

Cooling system



1. Open the engine hood.
 2. Unscrew the filler cap.
 3. Open the drain valve and pour the coolant into a container.
 4. After all the coolant has drained, tighten the drain valve.
 5. Mix the coolant in another container.
- Note: Winter loaders are pre-filled with single-component glycerol coolant before leaving the factory.

Do not mix glycerol with single-component glycerol.

If the coolant level is too low, add mixed coolant in a ratio of 50% water and 50% single-component glycerol.

The correct ratio is 1 gallon of single-component glycerol to 1 gallon of water, which will prevent freezing at -37.3°C .

Check the mixing ratio by measuring the refractive index of the single-component glycerol and water mixture in the cooling system with a folding ruler. Add the mixed coolant to the water-oil radiator.

The water-oil radiator should not be more than 1/3 full of coolant.

Tighten the cap of the water-oil radiator.

Start the engine. After the engine has run and reached a suitable operating temperature, turn it off.

Check the coolant level and add coolant to the water-oil radiator if necessary.

Typical data

Color		Green
Freezing temperature ($^{\circ}\text{C}$)	50V% 30V%	-37.3 -16.5
PH		9.5
Density		1.123
Water volume (%)		30

Important Note: To avoid engine damage, the correct antifreeze ratio must be used.

Too much antifreeze will impair the cooling system's efficiency and cause premature engine damage.

Too little antifreeze will affect the engine, failing to adequately protect engine components and lowering the boiling point, potentially damaging the entire system.

Continuously adding a highly concentrated coolant mixture will also prematurely damage the engine.

Fan belt

Fan belt

tension stops

the engine

Open the engine compartment cover.

Check if the fan belt needs tension by pressing the middle of the belt with your thumb (10 kgf) .

The fan belt is pressed down by a displacement dis

If the belt is stretched too tight, it may break prematurely.

The fan belt can be adjusted by tightening or loosening the generator bolts. Do not drip oil onto the fan belt, as this may cause it to slip or stretch.

After replacing the fan belt, close the rear engine compartment cover.



hydraulic oil

Clean hydraulic oil filter

Lower the hydraulic arm and place the attachment on the ground.

Turn off the engine after parking 5 minutes.

As shown in the figure Remove the filter as shown in the figure.

Clean the surfaces that come into contact with the filter.

Clean the filter with a cleaning agent or replace it.

Install and use O Type-seated sealing ring.

Add some oil to the filter components and gasket seal.

Change hydraulic oil

If the loader has undergone major repairs or the hydraulic oil is contaminated, then the hydraulic oil must be replaced with new oil.

Notice:

If the hydraulic oil tank is not clean, it may damage the hydraulic system. Please follow these steps to change the hydraulic oil in the hydraulic oil tank:

1 Park the machine on a level surface.

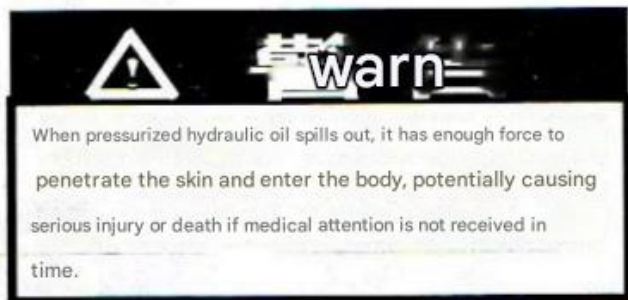
2 Lower the boom and tilt the bucket completely back.

3 Turn off the engine 5 minute.

4 Remove the drain plug (1) Drain all the hydraulic oil from the hydraulic oil tank .

After the hydraulic oil has been completely drained, tighten the screws.

Oil drain plug.



Hydraulic oil (continued)

Hydraulic oil change (continued)

Remove the hydraulic oil filler cap.

Add hydraulic oil until the hydraulic oil level reaches the gauge.

Tighten the oil filler cap again.

Start the machine and check if the hydraulic system is

Stop the machine, check for oil leaks, and add oil to the gauge.



Lubrication on system m steps

To keep the machine in optimal working condition, please follow the maintenance schedule.

Lubrication should be performed at the specified intervals.

Add lubricant until grease comes out.

Record the working time after each lubrication.

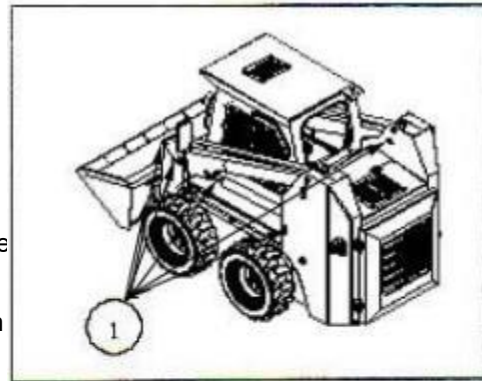
Please use a high-quality lubricant, such as SPHEEROL. EPL -2 or CASTROL .

Every 8-10 hours The hourly lubrication (1)(A) shows :

Simultaneously lubricate other rotating shaft joints.

Some important locations include the boom pins (both ends) , the upper part of the lifting cylinder ,

The lower part of the lifting cylinder, the bucket



Lubrication system (continued)

Lubrication of lifting arm

Lubricate the following areas before operation.

To avoid contamination, remove dust from the connecting parts before lubrication. Replace any missing or damaged parts promptly. To avoid excessive lubrication, minimize dust accumulation.

The two connecting pins of the working arm.
(See figure)A.

The rear connecting pin of the lifting cylinder.
(See figure)B.

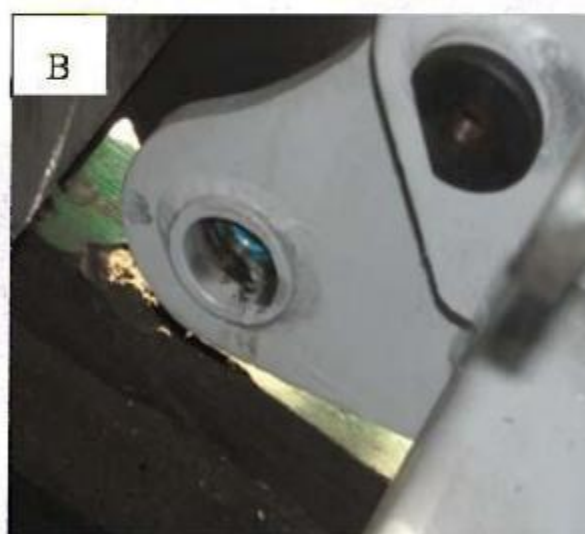


Lubrication system (continued)

Lubrication of lifting arm

The front connecting pin of the bucket

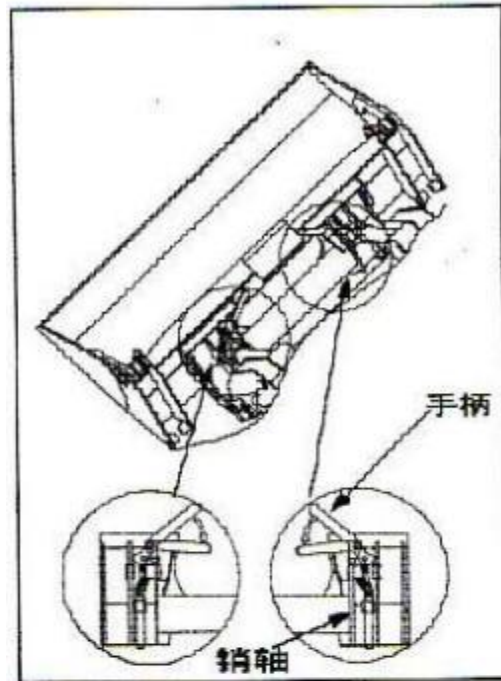
The connecting pin at the front of



Quick-connect device inspection and maintenance

Move the handle to align the attachment with the connecting device. The connecting pin to the fixture must be able to move since movement caused by the earth.

The attachment connecting pin must pass through the positioning hole of the attachment connecting structure.



warn

The attachment connecting pin of the quick-connect device must pass through the positioning hole in the attachment, and the handle must be lowered and locked. If the attachment connecting pin is not properly inserted, the attachment may fall off, potentially causing injury.



Appendix Tooleven catch pin Axis (1) must Must catch touch arrive Appendix The device with positioning holes.

If the fitting connecting pin does not contact the lower edge of the hole, Attached It will not be secure, And it will detach from

Regularly inspect the rims and quick-connect devices of the attachments. ,Connections and attachments

Connecting pin, Avoid excessive wear

If parts are worn Bending and Loss Please replace it promptly. ,and maintain

All connections are securely fastened.

If repairs or replacement parts are needed, please contact your dealer .

Lubrication attachment connecting pin.

Electrical system

Wiring and Instrumentation

Regularly inspect the gauges and repair any loose connections or malfunctions.

Battery

Battery storage and disposal

Note: This machine is equipped with a wet-charged battery.

Store the battery in a cool, well-ventilated place.

Do not expose the battery directly to sunlight, and also avoid moisture .

Do not use metal tools to strike the object during installation.

Do not place metal tools on top of the battery.

If the connector is contaminated, wash it with hot water and apply grease to the connector after washing.

Check the electrolyte.

Disconnect the battery wiring.

Loosen the vent plug.

Inspect the electrolyte in each unit.

If the liquid level is below the minimum limit, please add distilled water.

Safety Guidelines

When handling the battery, please wear safety equipment (safety glasses, rubber gloves, etc.) as required by the work or environment. . . .

Because the battery contains sulfuric acid, it must be handled with care.

If sulfuric acid splashes onto your skin or clothing, it must be washed off immediately , otherwise it can cause serious injury or death.

Keep the battery away from fire and heat.

The battery should only be used to start the engine; otherwise, it may be damaged or cause a fire due to hydrogen gas produced by the battery.

Electrical system(Continued)

Battery (continued)

Disassembly and installation

Stop the engine, Remove the start key.

Disassemble first Lower negative line Then disconnect the positive wire. Loosen.

Fixing bolts Remove the battery.

Make sure the battery is on The electrodes.

Install Battery hour, order With demolition Remove battery hour The opposite.

Notice: Make sure you do not reverse the p screw tight M5 Wire catch head arrive 20-30 (kgf - cm) torque The M6 wire connector has a torque of 40-60 (kgf - cm).

winter Battery Special uses:

when Battery need More than now high voltage and more sufficient The power supply environment is Able to start the engine hour Especially in winter More than other seasons obvious Caused by low temperature electrolyte The loss will lead to Battery Current power supply ability decline This is why it starts up more easily in winter than in summer . difficulty.

Don't let the battery leak . electricity .

when you start up one Second-rate No able hair move machine instrument of when , Also need to establish Right now Again start up . it need 1 minute to restock Voltage .



warn

Do not start the machine using another vehicle's battery to prevent electrical leakage or freezing of the electrolyte.



warn

Do not connect the negative terminal to the positive terminal. After bridging the two batteries with a cable, the negative terminal of one battery must be connected to the engine. (Grounding)

muffler

Muffler repair

Do not operate the engineering machine if the muffler is malfunctioning.

Stop the machine, Open the engine cover and radiator of the machine.

Intuitive Inspection—Down muffler, If there are holes or cracks appear on the sound device, A new muffler must be replaced .

Put down the heat sink, And close the engine cover.

Notice: When the machine is running, The driving control lever must be in the middle position. , Otherwise, it could lead to injury or even death.



warn

When a machine operates in a closed environment, fresh air must be added to prevent the exhaust gas from becoming too concentrated. When the engine is stationary, it discharges exhaust gas. The exhaust gas contains colorless and odorless gases that can cause death .

Before stopping the engine and inspecting the muffler, allow it to cool down and wear protective goggles and a mask. Otherwise, injury may result. Do not use the machine in environments containing flammable or explosive gases or flammable materials, as this may cause injury or death.

tire

Tire pressure

Inspect the tires at room temperature and when the machine is unloaded .

Improper tire pressure is a major cause of tire damage. because Insufficient pressure This can cause tire damage. Excessive pressure can cause tires to burst.

Continuous use of the machine will generate heat, causing the tire pressure to increase, but this is a factor considered in the tire design. Under this normal pressure increase...Do not deflate the tires. This can easily lead to tire punctures.

Three main reasons that cause tires to overheat :
Insufficient tire pressure
Excessive load and excessive speed .

To protect the tires Please do not overload or drive too fast. Required tire pressure (at normal temperature)

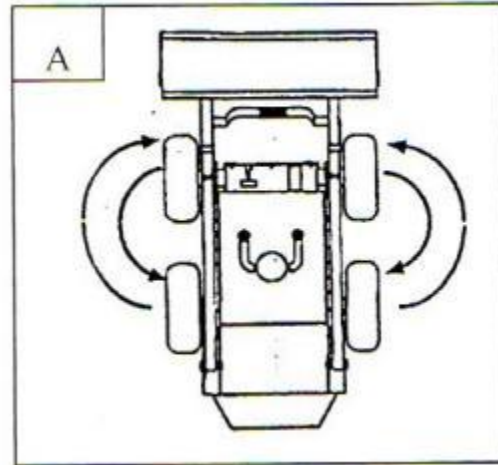
Tire specifications	pressure
287x8. 25-15	3.1bar (45psi)

Tire rotation

Regularly check tire wear and pressure .

The rear tires wear out faster than the front tires . Already Let it Wear phase when , answer Should Rotate the front and rear tires periodically .

The tires on each side should be the same size . one point very Heavy want , like If not Same, The tire speed is different This leads to



warn

The air pressure in a pneumatic tire should not be too high. Failure to follow the correct installation steps can result in an explosion, causing personal injury.



warn

The maximum inflation pressure of a pneumatic tire is displayed on the tire sidewall. Do not install tires of different brands on the same loader.

excessive wear and tear
.. The spokes of a tire
should all point in the
same direction.

To avoid additional wear
Please maintain the
recommended tire
pressure. , The tire
pressure should be
checked before
operation .

tire

Wheel nuts

Check the torque of all tire nuts.,
To prevent shear stress from
damaging tire bolts and tires.

When changing tires:

this individual allow Confirm off force
Rectangle answer Should exist 28-
Between 30 kgf.m.

Tire maintenance and repairs
must be performed only by
designated personnel using safe
equipment and precise methods.
Before installing the tires, check
the accurate dimensions of the
tires and rims .Check the rims
and tire bead for damage.
The edges of the wheel rims must
be cleaned and free of rust. The
tire bead and rim edge are
lubricated with rubber lubricant
before installation .To avoid tire
rupture and injury caused by high
pressure. During the entire
inflation process Continuously
check tire pressure to avoid over-
inflating.

The most basic common sense
about tire storage is to store
tires in a warehouse that
outsiders cannot enter. If the
tires are stored outdoors Fences
should be erected around the
tires, etc. ,And label "No entry" Wait
until the child is easy to understand"
White sign.

Secure the tire upright on the
ground to prevent it from rolling
or falling over.

If the tire is about to fall to the
ground You should get out of the
way quickly. Construction
equipment tires are very heavy
Lifting the tire by hand could
result in injury.



warn

Pneumatic tires must not be placed near flammable gases or ethanol, as this could easily cause an explosion and personal injury.

The required tire pressure is clearly stated in the instruction manual; check tire pressure and wear regularly.

When changing pneumatic tires, do not place them near sources of ignition.

Specifications of all oils

type	capacity	Ambient temperature °C
		-20 -10 0 10 20 30 40 -4 14 32 50 63 86 104
Diesel engine oil	5.4	SAE 30 SAE 10W SAE 10W-30
hydraulic oil	45	ISO VG32 ISO VG46 ISO VG 68
diesel fuel	50	ASTM D975 No. 1 ASTM D975 NO. 2
coolant	Antifreeze and water 50:50 Proportional mixing	Ethylene glycol base permanent type
grease	As needed	NLGI NO. 1 NLGI NO. 1
Gear oil	33	Castrol aSPI50

Oils of different brands or with specifications listed above or equivalent should not be mixed.

Troubleshooting Table 1: Engine

This troubleshooting table does not cover all the situations used. However, it lists common possible scenarios.

Fault	repair	Remark
The oil warning light does not immediately turn off after the engine is started.	Add engine oil to the specified level. Replace the oil filter. Check the pipes and joints for oil leaks.	
from the top of the radiator (pressure valve)	Add coolant and check for leaks. <ul style="list-style-type: none"> • Adjust the fan belt tension. • Clean the outer surfaces of the cooling system. • Clean or repair the radiator fins. • Check the thermostat. • Check the engine coolant temperature gauge. • Tighten the radiator cap or replace the gasket inside. 	
The starter motor turns but the engine does not start.	<ul style="list-style-type: none"> • Check for air entering the fuel system. Repair the air intake. • Inspect the fuel injectors or fuel injection pump. 	
The exhaust is white or blue.	<ul style="list-style-type: none"> • Check valve clearance. 	
Sometimes black exhaust is emitted.	<ul style="list-style-type: none"> • Adjust the engine oil level to the specified position. • Change the fuel.' • Clean or repair the air filter element. • Inspect the fuel injectors. 	
There was a panting sound in the burning noise.	Check for compression pressure.	
Abnormal combustion noise or mechanical noise	<ul style="list-style-type: none"> • Inspect the fuel injectors. Check the fuel injection pump. • Change the fuel; • Check if the engine is overheating. • Inspect the muffler. • Check valve clearance. 	

Troubleshooting Checklist - Electrical System

Fault	repair	Remark
The motor does not turn when the starter switch is turned on.	<ul style="list-style-type: none"> • Inspect and repair the coil. • Charge the battery. • Check the starter switch. 	
After the starter motor rotates, it drives the engine to rotate slowly.	<ul style="list-style-type: none"> • Charge the battery. • Inspect the starter motor. 	
stops working before the engine starts.	<ul style="list-style-type: none"> • Inspect and repair the coil. • Charge the battery. 	
The main switch cannot be turned on, and the engine stops. Engine oil warning light not lit	Check the alarm lights.	
When the main switch is on, the engine will start when it is stopped. The charging alarm light is not on.	Check the alarm lights. <ul style="list-style-type: none"> • Inspect and repair the coil. 	

Hydraulic Discharge Table — Hydraulic System

Fault	repair	Remark
Slow bucket lifting speed	<ul style="list-style-type: none"> • Check the hydraulic fluid level and add hydraulic fluid if necessary. 	
The bucket lacks lifting power .	<ul style="list-style-type: none"> • Replace the rear filter 	
There are air bubbles in the oil	<ul style="list-style-type: none"> • Replace hydraulic oil • Add hydraulic oil if necessary. 	
Low oil pressure	<ul style="list-style-type: none"> • Purge air from the hydraulic lines, add hydraulic oil, and purge air completely. 	

The hydraulic cylinder vibrates during operation.	<ul style="list-style-type: none"> • Keep it up! 	
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Table of contents

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Please follow the following safety guidelines	3
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Safe start machine	9
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Test your knowledge	26
Conclusion	27

Safety warning signs

安 Full The sign means:
 police "
 Notice "
 Warn Your safety "
 Involvi ng

install Full police tell
 Standard knowledge
 The machine was
 marked instrument
 Many important
 security
 information
 When you look
 arrive this some logo ,
 Be wary of
 personal injury
 or die Dead possibility
 Please follow
 the following
 safety
 instructions.

Safety Manual

The safety manual points out many aspects of normal operation and maintenance. ZhongkeCan meet Basic security situation

additional measures
 to handle these
 situations Prevention
 is also necessary of
 domain situation. Man
 ufacturers cannot
 maintain, therefore In
 these aspects



on Use, Workplace and
 special locations

ine use, operate, examine,
 Lubrication and

make Those who are aware of
 safety should have good safety
 awareness and habits.

Safety Manual The text mentions Some information
 supplements the manufacturer's user manual. middle Some
 specific information about the machine.

Important Note: If your machine has no manufacturer
 manual Please request these accompanying manuals from
 the distributor or the manufacturer. . Also, be sure to keep
 the safety manual and use it.
 advice:

Before using this machine Please be careful. Read and
 understand the safety manual and user manual, The safety
 manual will teach you how to work.

Safety advice

When reading the manual, you will find many illustrations depicting steps in unsafe situations, or illustrations labeled "error". "or " X" Each illustration is labeled with a number, and the same number is listed in the parenthetical text below it; these numbers are indicated below the text accompanying the illustration.

Please remember that the key to safety lies with the operator. Good safety habits not only protect you but also those around you.

Studying the safety manual and the manufacturer's user manual should be part of your safety routine. Furthermore, this safety manual applies only to this model of machine, and most importantly: "Safety depends on the operator; the operator can prevent injury or death."".

**Remembering safety guidelines can help you
avoid injuries and fatalities !**

Please follow the following safety guide
Wear appropriate personal protective clothing and safety equipment according to the work environment, since you may need:

Safety helmet and safety boots
Safety glasses, goggles or a face mask
Protective gloves and heat-resistant clothing
breathing mask
Please wear what you actually need and do not take chances.
(1)



RIGHT

WRONG



warn:

Notice:
people For because white guide
To May many mistake Carefully
crafted ,fatigue ,overload
Distracted , Unfamiliar
with operation , Drinking
alcohol or being under the
influence of drugs . If
the machine is
damaged ,short hour Inside
CanTo repaircomplexHowever ,
if the body is injured, it will have
long-term effects. Therefore,
for your safety and the
safety of others,
operators must operate
safely.

Do not wear loose
clothing or any
unnecessary ties, silk
scarf, or
Jewelry, Watches and
other items that may be
caught on moving parts
(2).

Warning;
You need to know where to get help.
Know how to use assistive tools
box, Fire extinguishers
or fire suppression
systems. Note:
Make good use of the training
process,

Please follow the following safety guidelines

Safe Operation

To ensure safe operation of the machine You must be a qualified driver..to this end You need to understand the instruction manual provided by the manufacturer. It is necessary to accept, including the machine of Reality Actual operation training Training, learn Safe Operation rules Certainly (3).

Understand the principles

Most employers are aware of the rules for operation and equipment maintenance . Before you start working in a new place, consult your supervisor or safety coordinator about the regulations you need to follow.



RIGHT



Warning: If you are under the influence of alcohol or drugs ... , No want drive driving machine , Because they affect your alertness and coordination. In this case , You need medical advice to determine if you can safely operate the machine.

You must abide by many rules:

- Understand the machine's working capabilities and operating characteristics

- Do not modify or remove any parts of the machine .

- (Unless it is pre-work repair and reinstallation).

- Fasten your seatbelt before starting the engine .

- Keep away from others while operating.

- Check behind you before reversing.

- Keep it lower when transporting heavy objects.

- When you leave the machine, lower the lifting arm. Bundle Bucket or The appendix Tool fall arrive On the ground, Or use a lifting arm Limit device locks lifting arm. Engine off, Hydraulic control system pressure reduction, Pull before afternoon Car key (See (Page 17) Confirm you understand the work location. Traffic rules, same Confirm and understand all

Please follow the following safety guidelines
The markZhi,flag, and
markers .

Safety Operation Preparation: Understanding Your Machine

First, you need to understand your skid steering machine. Know how to operate it and understand the control system, Instruments and Indicators. Understand the loading weight of the engineering machine, walking speed, Braking system, Turning radius and handling coefficient. Be aware of rainy days, Snowy day, loose sandy land, soft ground, etc. The operating method should be changed if necessary.

Pay attention to the danger warning signs on the construction machinery.

Read the operating instructions carefully before operating the engineering machine. If there is anything you don't understand, You can ask the engineering machine manager or distributor.business (4).

Notice:

This manual includes skid steer loader buckets, ~~instructions~~ for using the forklift attachment. If your machine is equipped with other attachments, you must carefully read the operating instructions provided by the manufacturer before use.

Safety Operation Preparation: Check Safety Equipment

For your safety and the safety of others Engineering machines must be installed The following security systems:

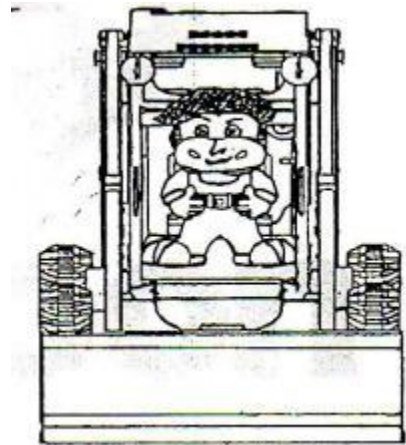
Falling object protection structure

Anti-rollover structure seat belt

Safety bar

Control handle

boom lifting device



5
RIGHT
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4
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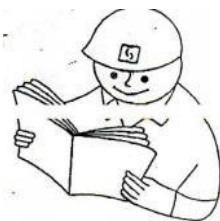


Figure 5
Fasten your seatbelt.



Notice: Without protective devices Do not move the driver's cab

Safety Operation Preparation

Check the machine

Before work Each system of the machine must be checked. Ensure that every system is in good working order. Ensure that the protective devices are also in good working order before operating the machine.

Check for damage to components.

Check if the tires are working properly.

Check the brake system

Perform the following inspections and maintenance as appropriate.

Check the hydraulic system. Is there any air leakage?



Caution: Diesel and hydraulic fluid, under high pressure, can puncture skin or eyes, causing serious injury. Casualties .leakage The oil is invisible under pressure. , Do not touch it with bare hands. , Used for thin sheets or cardboard, Wear an eye mask or face shield to prevent injury.

If oil is accidentally splashed onto the skin, Please seek medical attention immediately.

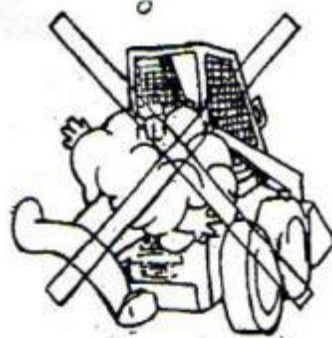
clean Note: When entering Cleaning of construction machinery Time to put Lower the boom and stop the construction machine from operating. Clean the windshield, lights, and safety signs.

near the operator , Such as a joystick ,armrest, pedal, foot tread plate wait must Must Save hold clear clean (7) In this some thing body Grease on, rainwater, ice and snow, Soil and metal fragments can cause people to slip or machines to tip over.

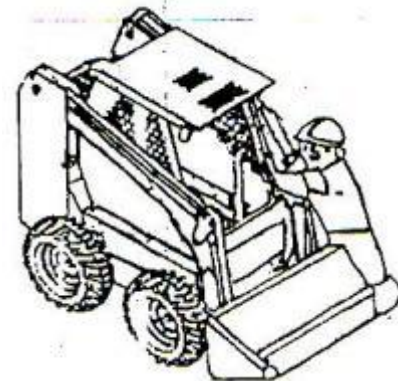
When restarting the machine , Make sure to bring all your personal tools, Pack these tools into the toolbox.

Inspection check cold but Tie Unification Inspection check cold liquid of high Spend .like fruit ring territory temperature low degree , examine null gas flow move Smooth none Obstruction.

6
WRONG



7
RIGHT



preparing to
refuel.



add fuel to the tank while the engine is running, and do not smoke near the construction machine or stand on the boom. Down.

Don't add too much fuel and cause it to overflow. If fuel spills, wipe it clean quickly.

Please use with engineering machines. fuel

If the fuel tank or fuel injector is faulty, causing fuel to leak. Please replace the fuel tank.

WorkArea Notes:

existWorkareaWorkforward, pleaseLearn more knowledge.

Check the road surface;

Check if the road surface is level. Check the road surface for rocks. Gravel.

Check if the road surface is muddy. Is the ground soft, etc. Minimize

The construction machine shook violently. To prevent loss of control of the engineering machine.

During the operation of the engineering machine, Please understand the engineering machine.

Technical parameters;

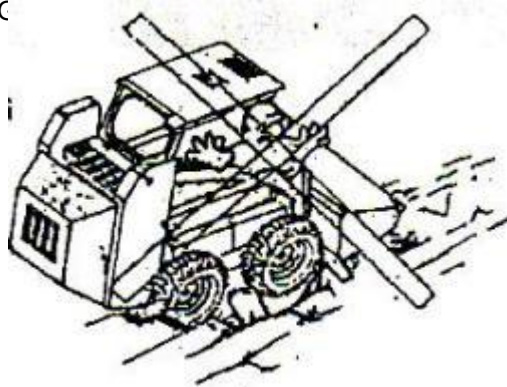
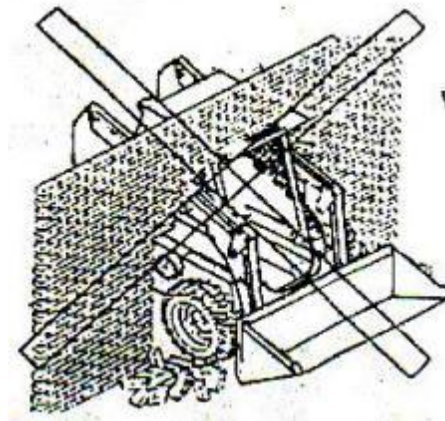
Maximum load capacity of the engineering machine, etc. 9

WRONG

8
WRONG



10
WRONG



Working inside buildings You must know the height of the entrance. path,

Working area We also need to be clear about the carrying capacity of the work area.

Safety Operation Preparation

Work Regional Precautions

The road surface should be carefully inspected in the work area., To prevent harm to bystanders, Prevent foreign

A puncture in the tire (11)
Before starting work, carefully check where the engineering machine is located.

Lift, Which turn?, and its loaded parameters. Do not disassemble the engineering machine.

What components, Don't let the engineering machine ... Wires and Engineering Machines bucket section

Partial contact, Carefully inspect all wiring in the work area before use .

Notice: Any part of the loader

Do not approach electric wire, ~~Over~~ safety accident will occur.. Special care must be taken.



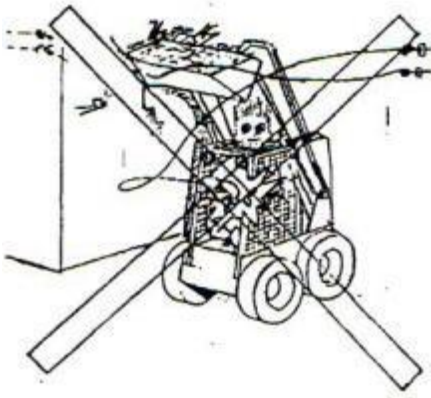
Note: For prevention Anti-touch Electrocutation must not cause any part of the machine to be connected. Touch or Depend on Near Electricity Wire or Power supply . Engineering equipment should have indicator lights and warning signs. , There should be behind the car "Slow driving "mark" Zhi When the construction machine is traveling in maleroad hour, want Note meaning make Use your finger indicator lights , Return the bucket to the appropriate position.

Pay attention to your driving speed, lights, and signs; avoid... waived sudden However brake car and sudden However Turn bend (12) If the rear indicator light remains on This allows the car behind to proceed first. If

parked by the roadside, you can press... Loudspeaker Or use a reflector If driving at night Suitable When the light is on (13).

12

RIGHT ,



11
WRONG

Inspection
check land noodle ,
bright Confirm
Know Authentic
Down electricity
cable , sky However
gas Pipes and
various
water pipes

traffic lights . , Avoid sudden braking due to panic. . If there are vehicles behind , put slow speed Spend Depend on edge, let That pass When crossing the road Stop and look both ways before driving. If you must stop at night, turn on your hazard lights after parking. When driving at night You may turn on the headlights as needed.

13
RIGHT



When driving on public roads, follow the traffic regulations for equipment such as loaders . most end like need That it car vehicles Transportation involves placing the bucket on the transport vehicle . , near Crossroads Small mouth Be careful, pay attention to your speed and watch out for

Safety Start-up Instructions:
Safely climb the construction machine:

15
WRO
NG

It is not allowed before the boom is lowered or the boom is locked.

Climbing onto the construction machine

When the operator enters or leaves the engineering machine, it is essential to ...

Follow these steps:

1. ~~Make~~ contact at three points: the operator's hands and feet. (14).
2. Facing the engineering machine.
3. Do not jump onto or off the construction machine, and do not climb onto or down the construction machine while it is moving. When entering or leaving the engineering machine, the control lever must not be used as a handrail.

14
RIGHT

Before starting the construction machine to move forward It is essential to ensure that no one is under or around the engineering machine . , Let other staff or people around you know you are starting the machine. , ~~Before~~ others know you are starting the machine , Unable to rise move machine instrument (15).

Start the engine



Warning: The driver must start the engine only from the driver's seat. No Can start the engine next to the driver's seat . If the machine is operating in an uncontrolled state , It may injure or even kill others during its journey . . You must clearly know the steps to start the machine. . ~~Before~~ starting the machine, be sure to read the start-up section of the instruction manual.

1. Sitting in the driver's seat Adjust the seat so that you can

16
RIGHT

comfortably operate
the various parts of
the machine.

2. DeducttightSafetybring (likeFruit pairing(Preparation)
(16).

3,CookedXieachkindpolicetell
PackPlace,scale,joystick.

Safety

Starting
Instructions:

Start
the
engine

4. Lower the control stick.

5. Press the brake
and turn all control
instruments to neutral.

6. Let the surroundings of people
leave.

7. According to the explanation in the book, refer to make
Start the engine.

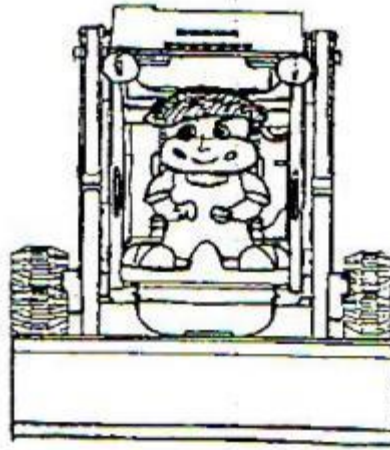
start or run the
engine in an enclosed
space

must have certificate of
enough ventilation.

Assisted Start

warn: Improper
boost start procedures
may lead to battery
explosion or machine
malfunction.

warn: Do not use
ether. If the engine is
equipped with a
preheater for the
spark plugs that emit
light, or other types of
preheaters can cause
serious personal injury
or even death.



16
RIGHT

After starting the engine:

Observe various scales,
instrument, and police
lamp with Confirm Save
he They achievement
table normal, And
as a operating normally.
Fan Within the enclosure.

Perform operational checks

like fruit machine
instrument Place
exist No combine
Suitable state,
Do not use the machine.

The operator is obligated
to check the condition of
all machine systems . ,
And in a safe

The location was used to inspect the
machine.

Test Control System

Ensure the machine is
operated correctly, Use
the control lever, gap,
Test if the machine's
speed control is normal. .

Operate each control
pedal, control lever, make
sure Lift rise arm, turn
fight All able
just Make sure you get the job
done .

Safety Start-up Instructions Test try controlSystem Unification



Note: Ensure you can control the speed and direction before moving .

Master the motion control lever to ensure forward movement. ,Retreating sideTowards (picture18).

Move slowly in a clean and safe place. .Test turn,Move forward, backward, left, and right .

Safe Operation

Keep the following rules in mind:

Do not overload the bucket or attachments, or loads that can be removed from the bucket or attachments. ofthing (picture19).

Different attachments can alter the weight distribution of the engineering machine, affecting its stability and operational performance. It is crucial to ensure complete control over the engineering machine.



Note: Do not replace the "rolling protection structure" on the engineering machine."In order to cause serious casualties.

When changing buckets or attaching accessories ,Ensure have even catch Place over Complete even catch close . Tighten all bolts ,The nut and screw ensure

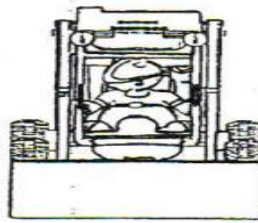
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rained or unqualified personnel are strictly prohibited from operating the machines. To avoid serious casualties (20).

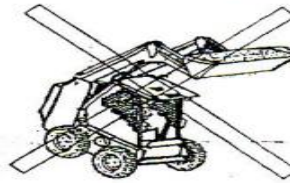


Note meaning : Should work Procedure machine It is single people Hold do machine instrument . banend Multiple people Hold do (picture twenty one) . banend shovel Douyong At work do flat tower or Manned loaders .

18 WRONG



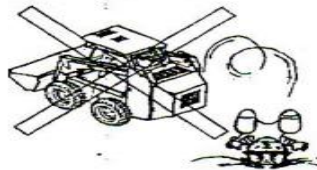
19
WRONG



20 WRONG



twenty one WRONG



Safe Operation

Keep the following rules in mind:

Always check your surroundings before loading or swinging attachments. Make sure everything is clear before operating the machine.. Understand the clamping and rotating components of the construction machine. Knowing these components helps prevent accidents. Never overload the bucket to avoid injury from splashing material. Keep the bucket level when moving the boom and when the construction machine is moving up and down slopes.



Note meaning : ban end The engineering machine rises above the people. , swing or move

Hold do hour please That the people Far Leave on site .

Comply with safe operating procedures

Do not leave after raising the safety bar.

Driver's seat.

Lower the boom or After the boom is restricted

Stop the engine.

Balanced operation control system.

Do not pull the steering lever suddenly.

The load should be low.

Avoid sudden stops

Starting and steering.

Careful use and good judgment.

No correct Secure since Self body time Do not attempt to operate the control system.



Notice: When operating an engineering machine, the body should be inside the driver's cab.

he driver's cab.
. WorkTime
shouldAlways
remain vigilant
. If a rupture
occurs in any
part of the
body..., Loose
or inoperable
phenomena
Stop operation
immediately.
Lower the
boom, Stop the
engine, Then
check the
machine.

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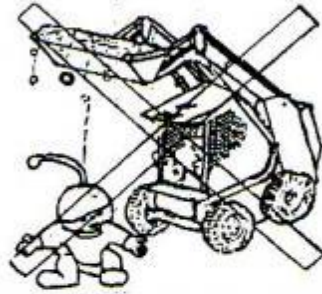
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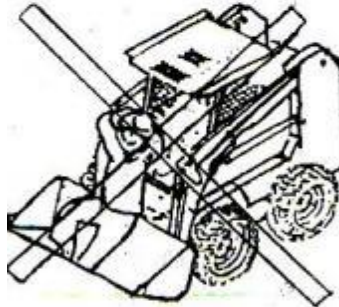
twenty two
RIGHT



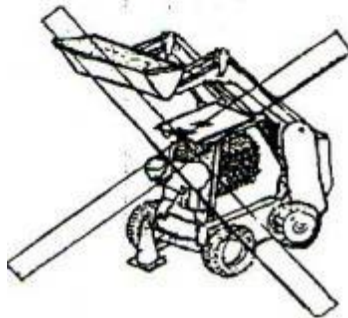
twenty three WRONG



twenty four
WRONG



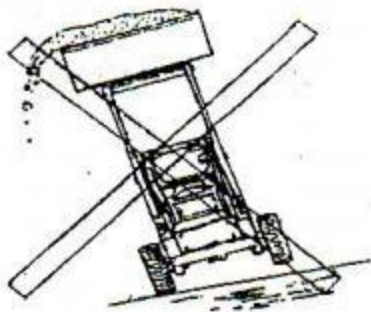
25
WRONG



Safe work and safe operation
 When walking and turning Always keep the lifting arm in the lower position. , Save Loading , unloading, and turning operations on a level surface Do not use the bucket to ram the material pile. Because most loaders have greater thrust at low speeds. force When running on rough terrain, Reduce speed to avoid losing control Increase the load at a steady rate and even during periods of instability. Be prepared to quickly reduce the load at any time. Avoid steep slopes or unstable surfaces. If you must walk on a slope, reduce your load and be extra careful. , exist steep slopes under any circumstances. of slope (Figure 26) in superior Down slope When doing this , you must go straight up and down. Note: Follow the methods below to ascend and descend the slope. When going up or down a slope, always ensure that the heavier end of the loader is pointing in the uphill direction. Loaded bucket: The bucket is pointing uphill; the empty bucket. , The bucket is pointing downhill. Do not tip over materials when raising the lifting arm. . If tilted

If , This will cause the lifting arm to fall (Figure 27). The following are the manufacturer's recommended pouring steps:
 1. Raise the lifting arm;
 2. Place the control handle in neutral;
 3. Pour:
 When you dump the rising material It must be done carefully, step by step.

The tipping over. 26
 Moving at the work site WRONG
 slow down
 when
 passing
 through
 congested
 areas .,
 Civilized
 driving .
 correct drive
 drivePackFull
 goodsmaterial 27
 Packcarrier WRONG
 aircraft,
 Maintain a
 safe
 distance
 from other
 passing
 vehicles..Do
~~not~~ drive
 while
 walking or
 working. Keep
~~the~~ ~~load~~ ~~in~~ ~~low~~
 position as
 much
 as
 possible
 to
 maintain
 maximum
 stability
 and a clear
 field of
 vision..
 During
 operation ,
 minimize
 the speed
 to ensure
 complete
 control of
 the
 machine at
 all times,
 even in
 rough
 conditions.,
 Smooth, Or
 when
 walking
 on a
 hillside,
 be sure to
 slow down.



Safe Operation

According to the manufacturer's recommendations, Most loaders have a portion of the weight on the rear axle when unloaded., Front axle weight when fully loaded.

When you work on a slope, ~~The loader~~ should always be kept in a flat rotation area., This allows you to turn safely., Loading and unloading.



Note: Keep the load as low as possible to ensure maximum efficiency. stability The loader's center of gravity is on the load .Dutch quilt Lift rise and decline hour Changes Do not try to lift under load .rise hour Turn bend or The exist incline Walk up the slope .



Note: Make sure you can see where you are walking, and don't let others carry you. Walking under load when materials obstruct your view .

exist Danger risk of work do stripltem Small Heart Operation

Always know your location and pay attention to intersections. , Cables and door . When at the dock , track , shore , When working on a slope, be careful not to get close to the edge. , To prevent falling.

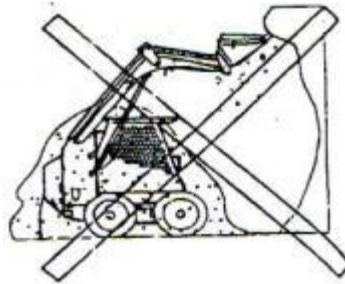
when exist Suspended hang thing Down noodle work do Pay attention at all times .



Note: Do not cut below a high bank.

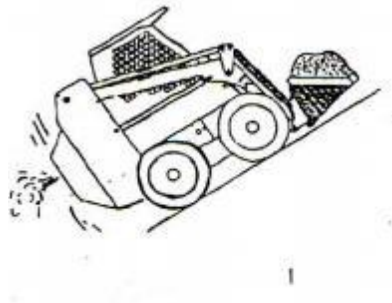
When working on the top of a bank or slope, be especially careful to stay away from the edge.

30
WRONG



Safe Operation

28
RIGHT



2
9
WRONG



Caution: Do not work near hanging objects or the edge of the valley floor, as the edge may collapse or landslide, causing death.

Safe Operation

The following precautions should be taken during the loading operation:

Do not get too close to the ditch wall.,

Machines and negative Loaded Heavy quantity meeting

guide To ditch Wall collapse

Collapse (picture)31),Packfill

forward,Please refer to

the manufacturer's

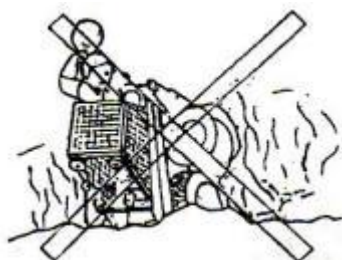
operating

instructions first .



31
WRO
NG

Operating in
flammable and



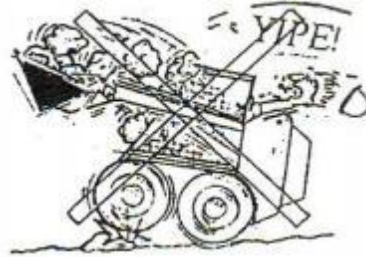
Because the loader emits colorless gas during operation . , Odorless gas,This gas contains a large number of components that are harmful to the human body. , it is very harmful to the human body .

Warning: Engine exhaust fumes can be very harmful to human health (Figure 33).

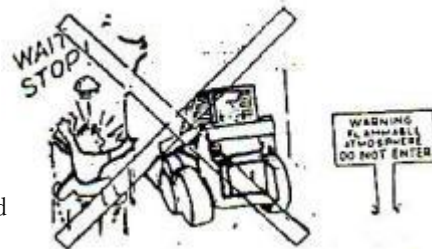
33
WRONG

32
WRONG

When working in hazardous conditions, another person must be present to avoid danger. They should not get too close to the load. Extra caution must be taken when handling special materials such as buckets, gas canisters, and barrels. Lifting too high or tilting the bucket too far back can cause these materials to fall into the cab (Figure 32). Therefore, special guardrails and attachments can be used together. Please consult your dealer for details.



In flammable and explosive environments, only approved special models of loaders can be used. Ordinary loaders or loaders equipped with spark arresters (to prevent sparks from being emitted from the exhaust pipe) cannot operate in these environments. Using these machines will cause fires or explosions, resulting in serious casualties (Figure 34).



Safe Operation

Beware of obstacles

Adjust your speed according to the work environment and be careful of obstacles. , Avoid rocks or tree stumps ,roadsideOr railway tracks (picture36). If the obstacle cannot be avoided. ,slow downIt can lift the bucket or attachments a short distance and pass at a certain angle. If the loader is used to scrape the road surface, check for hidden obstacles to avoid collisions. When crossing railway tracks ... Stop first. Remove the earplugsIf necessary , check and listen before proceeding to see if the train has arrived.

install Complete land Pack unloading Procedure machine when Pack Always used when unloading a loader. Follow the manufacturer's recommended loading and unloading procedures when transporting a loader. Several steps apply to the loading and unloading of all construction machinery:

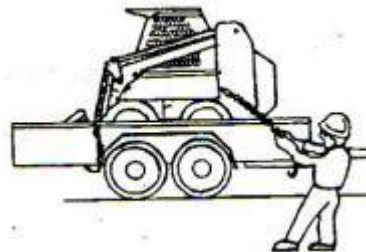


37
RIGHT

36
WRONG



hour carve Save hold Pack load machine exist control system Among , Entering the underground passage , hinto the tunnel or coal bunker, Please pay attention to traffic conditions .conditionand barrierhinderthing (picture36). w hen When visibility decreases to a certain level , Please turn the speed down to the minimum.



38
RIGHT

Loading and unloading on a horizontal surface.

The transport vehicle should be secured during loading and unloading. To prevent it from moving.

Use with sufficient size ,strength, Ade with a suitable gradient and height .

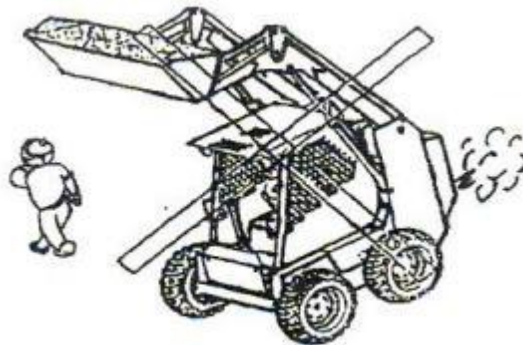
Keep the tow truck clean ,No clay .,Oil,
Ice and snow and other contents Easily
leads to slipping thing.

Reverse the loader onto the
transport vehicle via the ramp
(unloading)carhourdirectTowardsFront
Down(slope) (Figure)37). ~~See~~the
equipment with chains and timber to
increase safety during transport (Figure
38).

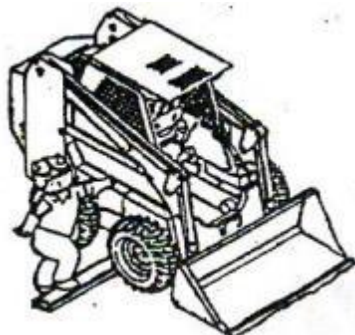
Safe Parking Location Selection

Choose a flat surface if possible. If you have to stop on the slope Stop at the correct angle on the slope Manipulation PackPlace live middle . Will shovel fight (or other Appendix Tool)put Low arrive land noodle , and Block wheel (picture 39).

39
RIGHT



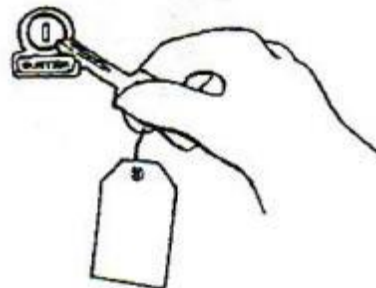
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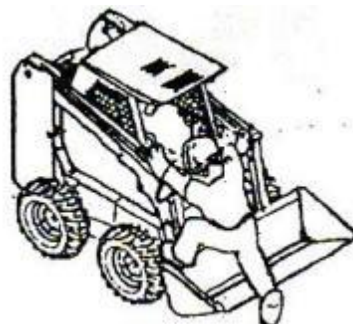
accessories) lower c
tered; 42
ne cool down; RIGHT



5. Parking;
6. Raise the operating handle;
7. Check if the control device is locked and cer
8. Unfasten your seatbelt;
9. Remove the ignition key (Figure 37);
10. Turn off the control power switch;
- 11, Leave the machine hour, Pass

Grasp the handles to ensure three points of contact between your body and the machine. Do not jump off the machine (Figure 42);

12. When leaving the machine Be careful of your foot
13. If parking on a slope, please block the wheels. . .



Safety
maintenance
routine
procedures

Do not perform any
operations on the
machine unless you
are permitted or
qualified to do so.

If you are
authorized to perform
machine maintenance...,
Please read the
instructions.

Make a manual. Learn.
Operation Instructions;
check the lubrication oil
gauge; Check all the
instructions on the
machine. If the
operation is incorrect...,
Maintenance can be
dangerous.

The operator must
possess proficient
skills and a
thorough
understanding of
the machine's
information, and
have appropriate tools
or equipment readily
available. This is
necessary to operate
the machine. maintain
(Figure 43).



43
RIGHT

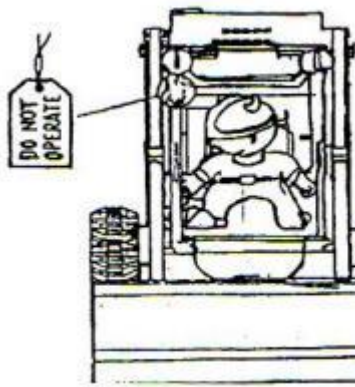
T Preparation
work area

Choose a clean, flat
work area, ensuring
there is sufficient space.
Inspect and clean the
work area, ensuring
adequate lighting and
air circulation. Before

maintaining the machine, clean the
surfaces of all moving and
working parts.

Remove oil and water. At the
same time, wipe away any dirt from
the slippery, wet floor. Ensure that
maintenance work is carried out
on a clean and tidy surface.
(Figure 40).





46
RIGHT



4
4
R
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45
RIGHT

right work
Procedure
machine Enter
OK dimension
Protect Save
Post- care exist
rise move open
close or The
Hold Affix " t
o the
longitudinal bar"
Operation
prohibited "
or similar
warning
signs" If the
machine is
not started
Remove the
ignition key.

Maintenance
personnel's own
preparation
Wear all the
protective clothing
required for the
job. (Figure 46)
catchtouchroteclipsesex
ofthingWhen trespassing,
you must bring [the
following].
oak glue Encirclement
skirt and oak glue Gloves
. Handling wood
blocks or sharp
edgesBenefitgoldgenus
hour,bringsuperiorGloves,
Put on protective
shoes.

Safety
maintenance
and
preparation
when machine instrument
transport change or The make use
work Time , Protective
glasses must be worn.. To
avoid waived Eye eye by To the
electric arc, high pressure Oil
and splattered metal
fragments
harm.

disassembling spring
accessories or
contacting battery
solution, Protective face
shields must be worn.
When welding or ignition
cutting, Wear a helmet
or protective goggles.
When welding is
required on the machine,
Please refer to the
manufacturer's user
manual or

The customer should
consult the equipment
dealer for the correct
procedure.

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else
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47 RIGHT

48
WRONG

49
WRONG

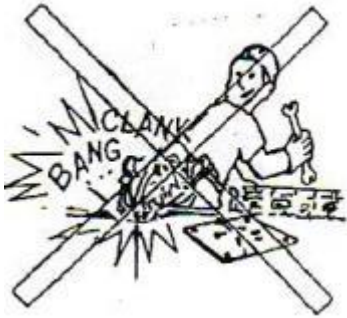
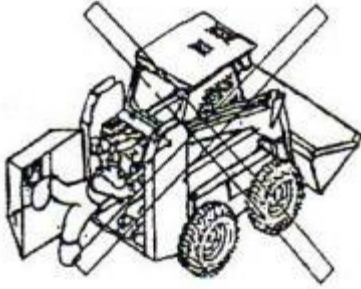


Warning: All rotating
objects must be kept clean
and properly packaged.
material material or
Entanglement Around exist
superior noodle of thing body Can
Could guide To strict Heavy by
hurt or The die Death (Figure
48).


same, operate people Staff
members should keep
their hands and clothing
away from rotating
parts.


tie Loose sleeves
Earrings or long hair All have
Can able Entanglement Around
arrive On a high-speed
rotating object This
could lead to accidental
injury.


in addition Do not carry anything
in your pocket. Could
Falling into the machine In
small things
Item (Figure 49) Moving work
Tool or Work heavy parts, it



Safe maintenance and preparation of the machine

 Warning: The machine may only be started after you are seated in the driver's seat ; otherwise, The machine may lose control , This is a serious injury or death to people at the scene . Moving machinery on a smooth road surface Then stop , Reduce the pressure of all hydraulic devices. . Secure the boom or lock all hydraulic attachments or Accessories Lower to the ground . Keep the handle of the control device in the closed position.

 policetell:whenhairmove machinetransportDo not turn right machine instrument Enter OK Operation . removeNosystemmakebusinessof HoldOperator booksuperior ListbrightAlreadyofneedwant Specially maintained projects.

 warn: whenAir circulationDo not operate the machine if it is malfunctioning. , Testadmes from the machine can be suffocating. . If it is necessary to start the machine in a closed placeIt is necessary to extend the exhaust pipe to expel the exhaust gas from the confined space . . Witho ut an extended exhaust pipe,Please open the door to ensure fresh air can enter..If necessary righttransportTransitofmachine

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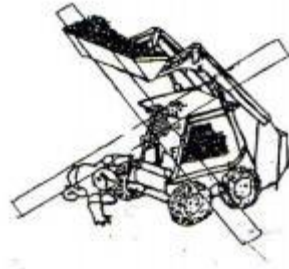
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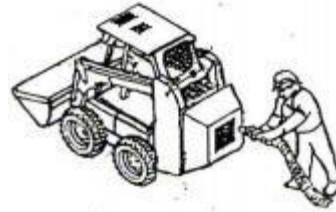
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ple to work together:
A person was sitting in the driver's seat,Other
A person operates the machine (Figure 51).
Impeding the wheels: to operateVertical device
Disconnect the power and remove the ignition key .Open the protective back cover ., Wipe away excess grease and oil.. Don't take over when the machine is unattended . . If the back cover is open, keep onlookers away. Ensure all protective devices are in place .,The dashboard and safety warnings have been reset to the positions specified by the manufacturer.

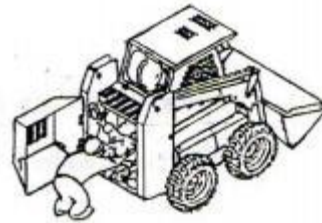
50
WRONG



51
RIGHT




52
RIGHT



Safely maintain and service the machine

Use jacks and cranes carefully if you must work under raised equipment., Must use wooden blocks, Jacks or other rigid, Stable supports firmly support the machine., And when using jacks and cranes, Please ensure they have sufficient support .



 policetell: No Can be used Concrete blocks as supports, Because of the concrete block It can easily collapse even under very light pressure .picture53)




53
WRONG

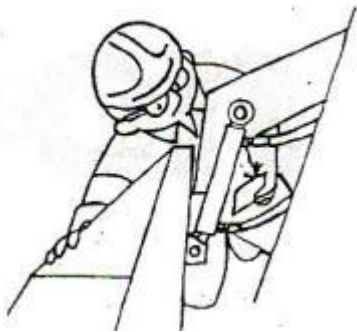
Avoid damage to electrical systems

Before dealing with the electrical system, Disconnect the battery ., First remove the wires, Connect the wires again when reconnecting the battery. .Unless you are very familiar with circuits, Understand the processing methods, Otherwise, please do not attempt to troubleshoot electrical circuits or appliances yourself (see diagram).54).

54
RIGHT

Note the fluid pressure.
liquidPressureTieUnificationAllyeshave
Pressureforce,noneArgumentWhen the
engine is running or off.
Installation promptsLiftarmlimitBitPack
Place (Oilcylinderrodbodyof(Head). orThe
InstallHydraulicsTieUnificationSafety
protection devices .No open
flames or flames are allowed
near the hydraulic system..If
hydraulic oil leaks,It must be
wiped clean immediately.

 police Notice: Chai Oil or The
HydraulicsOil under pressureA forceful
impact could puncture the skin
or eyes, potentially causing
serious injury. , Blindness or
death . Liquid leakage under
pressure may not be noticeable..
You can use a piece of
cardboard or wood to check
for leaks . Never use bare
hands. Wear a face mask or
goggles to protect your eyes.,If
liquid splashes onto the skin,We
must let professionals medical born
Placereason (picture55).

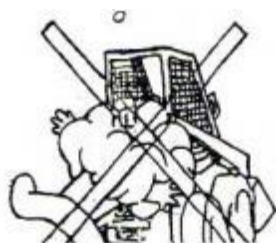


55
RIGHT

Pay attention to the cooling system when safely maintaining the machine.
 warn: When the engine gets hot The liquid cooling system will generate a certain amount of pressure, so before unscrewing the radiator cap..., First, turn off the engine and let the system...

System cooling, Wait until the cooling water cools down before Open the scattered Heater cover (picture 56)

When the cooling system has an overflow tank, the coolant level can be checked without removing the radiator cap .



56
WRONG



57
WRONG

To prevent fire or explosion.

when Pack load machine add
 When oiling, answer stop Stop the engine from running, The electrical equipment was switched off and there were no backups.
 When refueling a very hot engine, Be extra vigilant.. It should be Oil nozzle stick exist filter clear instrument neck superior To avoid generating sparks.

warn: Do not smoke while refueling or handling fuel lines., Using fireworks to smother an empty fuel tank can cause it to explode.. also No want cut cut or The weld catch oil pipe, Fuel tanks and other containers for holding oil (picture 57).
 just Confirm of square Law yes Available Dissolve sex Alternatively, dry chemicals can be used to treat the fuel tank according to the prescribed steps., And they need to work in a well-ventilated environment .

Remove debris or fragments from the machine, Make sure there are no residues in the machine . wipe cloth or The That He Yi Burn thing. Check diesel fuel, ~~Adrenaline~~ in the engine oil and hydraulic sleeve?, Leaks must be repaired before work begins., At the same time, wipe the machine surface clean .

Ether is highly flammable., Never smoke when using ether., Please follow the steps in the manufacturer's manual ., If the

engine is equipped with hot-wire ignition plugs or other preheating devices also Do not use ether.

When cleaning parts, non-flammable solvents should be selected.,

Please do not use gasoline., Diesel fuel or other flammable liquids.

Store all flammable liquids and materials.

To far distance from your workplace Point of view.

Know where fire extinguishers are located, How to use and what types of fires it is applicable to. Check the readiness of the fire suppression system and fire detectors.

Safely maintain and care for the machine to avoid battery damage.
 policetell: acidsex Battery
 Sulfuric acid in it can damage the eyes or skin. ,
 Therefore , you should wear a face mask to avoid injury to your eyes or skin .
 .If sulfuric acid comes into contact with the eyes... , Rinse immediately with clean water , And timely drug treatment is necessary. ,
 Additionally, rubber gloves and protective clothing should be worn to protect the skin from contact with sulfuric acid. . If skin comes into contact with sulfuric acid , Rinse immediately with plenty of clean water.
 . Acid batteries Can Produce born easy Burn easy burstgas, Stay away from Mars , Flames, etc.
 (Figure 58)

58

WRONG

Correct . square
 Law yes First Bundle
 temperature Spend
 heating Up to 15°C ,
 Enter againOKHold
 do.

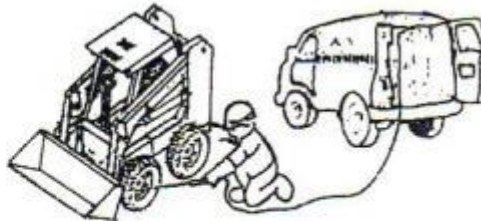
use flashlight cylinder
 Inspection check electricity
 Electrolyte in the bottle
 The power supply must be turned off during the inspection. move
 machine(picture 59) For
 example Fruit Electric When the
 bottle freezes Do not
 charge the battery or
 boost the engine.

Tire maintenance
 warn: Subseparation of tires or
 rims LeavemeetingguideTostrictHeavy
 ofpeoplemembercasualties.Use in
 accordance with the
 manufac
 ofestablis
 Consultati
 supplier
 EvenChar
 fetalneed
 procedu
 safety r
 replacer
 correctly
 operate
 in the tire repair manual step by
 step .. At the same time, more
 Changewheel fetal most Goodyou of wheel
 Tire repair company Maintain
 proper tire pressure. Do not
 inflate tires to the
 recommended pressure.
 charge gas hour want shift open machine
 instruments superior Pack The tire is carried .



59
RIGHT

please 參 Test born Produce
 business right wheel fetal charge
 The regulations of air. C
 heck tires daily and
 wheel hub Do not use
 the tires when they are
 flat or the rims are
 damaged ., Missing bolts
 Nut working Please
 tighten the wheel nuts
 according to the
 manufacturer's
 instructions. . operate
 Pass Procedure middle wheel
 fetal Pressure On force Lift It's
 normal. , Do not deflate.
 When inflating the tire
 People should keep a
 certain distance from
 the tires. . Use with self-
 linking
 The long flexible tube
 of the chuck Adjust tire
 pressure Stand behind
 the tires. (picture
 60).



60
RIGHT
T

Safely maintain and service the machine

Tire maintenance

Nowantuse easyBurngasbody
orTheInflate tires using an
ethanol nozzle system.

wheelhubsuperiorinstallPack

WearingchargegasofTireDo

not cut or weld the
wheel hub..This can
cause the tire to burst.

Tire repair;

buildreasonwheelfatalneed
wantoneindivualhavethrough

Thepersonduring the test used
safety equipment to
properly

Steps to proceed New
tires and rims , or tires
and rims to be replaced,
are...

Check the dimensions before
installation.

Notice: When repairing

tiresCage-shaped

Equipment or ropeSo to
limit

The system expands again, causing
harm to people.

rollturn DefendProtectKnot

Structurefallthing Defend

Protective Structure

NoToappointwhatsquareMode
changePackrollOverturn

protection structure and
falling object protection

structureManufacturers
do not allow things like
welding ~~Stutessuch~~drilling ,

cutting, and adding
fixtures, such asfruitthis

SampleDo AlreadyWillmeeting

cutweakReduced strength

and enhanced safety
protection functions.

likefruitexistturncarPass

Proceduremiddledamagebad

Rolloverprotection
structure and falling
object prevention
structure

Structural replacement
required ~~Replaced~~the

machine repair manual
provided by the
manufacturer.,

Inspection results

The
various
compon
ents of
the
structur
e, So
that it
can be
replaced.

61

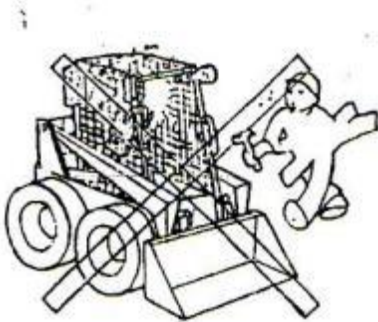
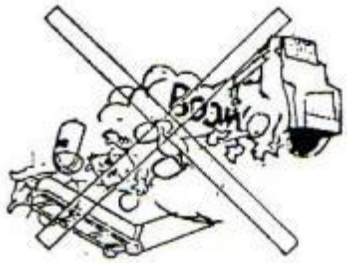
WRONG

62

RIGHT

63

WRONG



Safely maintain and service the machine

Tighten all bolts

,AccessoriesTo achieve
the torque specified by
the manufacturer.

After maintenance,
install all protective
measures, including
the machine cover and
shroud.,Repair or
replacement

Replace damaged parts

According to the
manufacturer 's
recommendations,Adjust
the pressure system.

Start the engine to
check for leaksOperate
all control mechanisms
to ensure the
machine...

Working normally Testthe
machine on the highway if
necessary..After testing,
turn off

Turn off the engine.

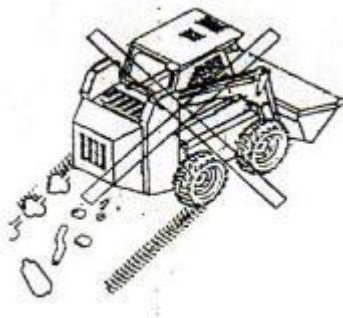
Inspectioncheckmachine
instrument (appointwhatloose
moveofopen Sales ,liner,
Locking nuts, etc. (picture
64).existmachineinstrumentjust
oftenHolddo

First, check all the
oil surfaces.

Placehave ofdepartmentItemAll
answerShouldquiltInspection

Check for wear or
damage.Excessive wear
or damage can lead to
injury or death.Anydamages
must be replaced
promptly.
Item.

64
WRONG



Now test your knowledge.

You've read the safety manual, so do you understand your safety concerns ?

Your machine's manufacturer's manual

Proper clothing and personal safety equipment

How to properly check, install, and start your machine's controls, warning signs, devices, and safety equipment.

How to check if your machine is operating normally

Your workplace and any potential hazards ; correct operating procedures.

Maximum load capacity of bucket and attachments; correct stopping, shutting down, and disassembly procedures; correct maintenance procedures.

Correct loading, unloading and transportation procedures

Under what circumstances can you not operate your machine? Other local regulations that affect the use of your machine.

Conclusion

Hello, you have finished studying the safety operation manual for skid steer loaders. This manual basically covers all the dangerous situations you may encounter during work. However, only by having a correct understanding of various working environments and conditions can you properly handle various emergencies. Therefore, our goal is to help you develop good and standardized work habits and become an excellent skid steer loader operator.



Finally, please remember that safety always comes first; it is your responsibility and obligation.