

MAXDUTY

SK403-JDT MINI SKID STEER LOADER

OPERATOR'S MANUAL

ATTENTION USERS

This manual is an important part of your mini skid steer loader. It provides safety information and operating instructions to help you use and maintain your loader properly. Read this manual before using. Keep it with you at all times and if you sell the loader please supply this manual to the new owner.

Descriptions and specifications in this manual may be updated without notice. **MAXDUTY** reserves the right to improve the equipment. There will be product improvements after this manual is printed. For the latest information, please contact your local **MAXDUTY** dealer or contact us directly.

Thank you for purchasing and using this mini skid steer loader.

To Users

This manual is an important part of your mini skid steer loader. It provides safety information and operating instructions to help you use and maintain your loaders properly.

Read this manual before using the loaders. Keep it with you at all times, and if you sell these loaders, please supply this manual to the new owner.

Descriptions and specifications in this manual can be updated without notice. The company reserves the right to improve the equipment. There will be product improvements after this manual is printed. For the latest information, please contact your local agent or contact us directly.

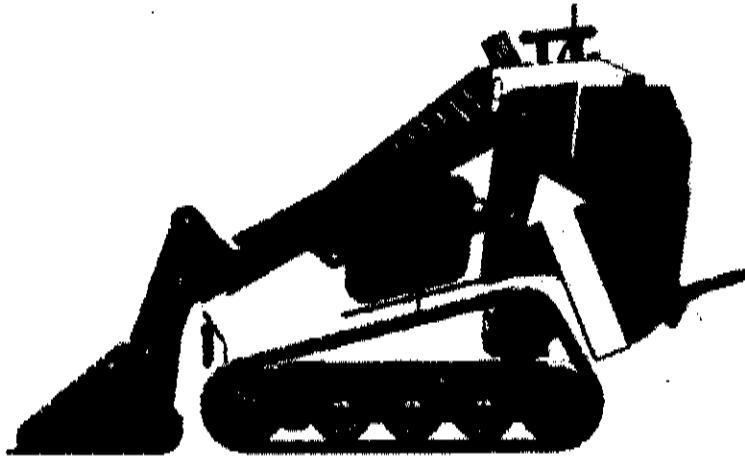
Again, thank you for purchasing and using this mini skid steer loader.

CONTENTS

To Users	1
1. Serial Number Position	3
2. Application	3
3. Components Of Machine	4
4. Operating Direction	4
5. Safe Operation Warning&Instructions	4
6. Operation Guide	7
6.1 To New Skid Steer Loaders	7
6.2 Preparation Before Starting The Loader	7
6.3 Daily Check	7
6.4 Safety Drive	8
7. Operating System	8
8. Preparation Before Working	13
9. Attachments Connection	16
9.1 Attachments plate	16
9.2 Hydraulic Hoses	16
10. Drive	18
10.1 Start Engine	18
10.2 Drive General Operation	18
10.3 Slope Operation Guidelines	18
10.4 Shut Down	19
11. Machine In Storage	19
12. Safety Service & Maintenance	20
12.1 Safety Service Precautions	20
12.2 Maintenance	21
10 Hours	22
50 Hours	25
250 hours	26
500 hours	27
1000 hours	27
Other maintenance	28
13. Solution For Emergency	33
14. Main Specification	35
15. Support	37

1. Serial Number Position

Please record the serial number and date of purchase on the form provided. The serial number is located at the position indicated by the arrow marked.



Model:	
Serial No.:	
Engine No.:	
Date of Production:	
Manufacturer:	

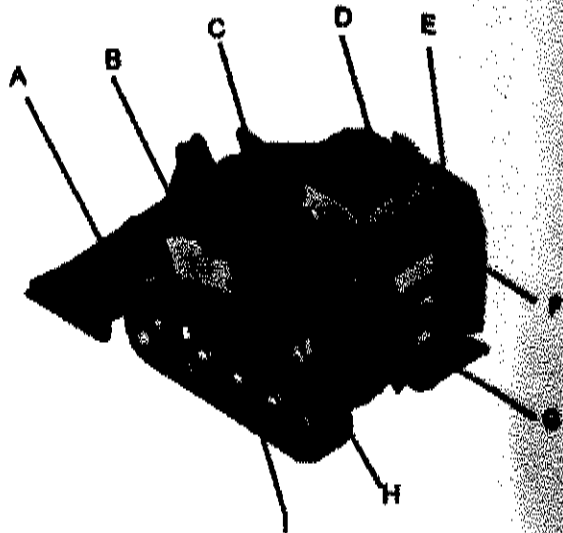
2. Application

SK403-JDT is a tracked mini skid steer loader, designed for working in narrow spaces. SK403-JDT skid steer loader has a quick attach hitch plate to facilitate the operator easily replace different attachments. It is used for normal working site, and is proficient in working in narrow lanes or low spaces, such as small construction sites, yard finishing, garden management, farm planting, etc., or transport cargo at suitable quantity. If need to operate in unusual temperatures, please contact your local distributor. Using for other purposes will be considered a violation of the applicable scope.

SK403-JDT can only be operated, serviced and maintained by whom are familiar with its particular characteristics and acquainted safety knowledge.

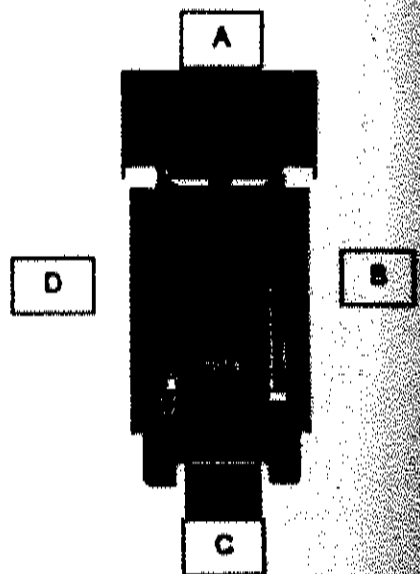
3. Components Of Machine

- A. Mount plate
- B. Lift arm
- C. Upper cover
- D. Operator station
- E. Oil tank
- F. Rear cover
- G. Foot platform
- H. Engine component
- I. Tracks system



4. Operating Direction

- A. Front side
- B. Right side
- C. Rear side
- D. Left side



5. Safe Operation Warning & Instructions



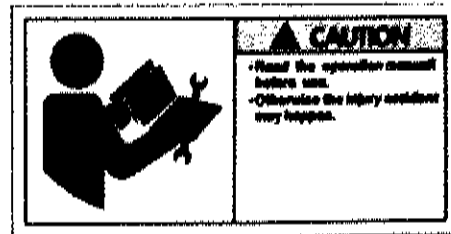
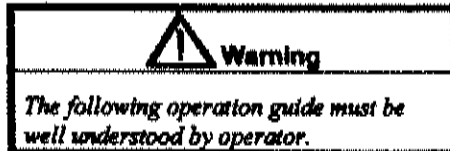
Warning

Please read the operating instructions must be executed before using and maintaining the skid steer loader. Please read the operation and maintenance manual and the warning label (poster) on the machine. Following the warnings and operating instructions in the manual when repairing, adjusting and maintaining. All the finished work of adjustment, repair or maintenance should be checked to make sure working correct. Failure to follow these operating instructions could result in personal injury.


Safety is the responsibility of operator.


Most accidents involving machine operation and maintenance can be avoided by following basic safety rules and precautions. Read and understand all the safety messages in this manual, safety operation, and safety decals on the mini skid steer loader before you operate or maintain the machine.

 **This symbol indicates caution, pay attention to your safety before operating.**



- * Every guide and rule of operation and maintenance shall be understood and obeyed.
- * When operating the machine, make sure to refill hydraulic oil and fuel in a proper way, otherwise it may cause danger or critical injury.
- * Read this manual completely, and make sure you understand the controls, maintenance and refilling of fuel and oil.

 This symbol indicates you to be careful; otherwise it may cause death to operator or bystander. The decal is labeled on the machine.


 Safety decals on the machine and warning on the manual are indicated especially for you to realize the danger to avoid accidents.


Before delivering to the user, each loader was tested and examined thoroughly. You should operate carefully in the first 100 hours to keep all parts in good condition. Roughly operation will shortened the useful life or reduce the efficiency. For new skid steer loader, you should pay attention to the following:


- Running the machine 5 minutes in idle after started.
- Avoid operate the loader with full speed.
- Avoid rapid start, rapid accelerate, unnecessary urgent stop or turning.
- Clean the dust and scraping when you change the filter element.

- Please check all potential dangerous if working in a poor environment.
- Please check the working time of the hour meter.

 Important, these symbols are closely related to the safety of machine and operator.

 Danger
<i>A hazard symbol on the skid steer loader indicates that a hazardous situation is present for the operator or near the equipment. Failure to follow instructions for hazardous operations can cause death or serious injury.</i>

 Warning
<i>The warnings on the machine and manual are for your safety, failure to follow the warnings can result in personal injury or death.</i>

 Important
<i>Note indicates to follow the steps to avoid damage of machine.</i>

Safety Warning Labels

indicating:

"Caution"

"Warning"

"Involving your safety"

The safety warning symbol indicate many important safety information of the machine. you see these signs, you should be alert to the possibility of personal injury or death. Please follow the following safety instructions.

6. Operation Guide

6.1 To New Skid Steer Loaders

Loaders need running in for 100 hours, which will exert fully their capability and extend their useful life. New loader should be used performing these three steps, avoid excessively use in the first 100 hours.

Hours	Load
Within 10hours	About 60%
Within 100hours	About 80%
After 100hours	100%

Use it carefully within the first 100 hours.

6.2 Preparation Before Starting The Loader

Read this manual before using the machine.

6.3 Daily Check

The engine must be in good running condition, and the following items should be checked daily:

- Engine cooling system
- Tires and tire pressure
- Any loose or broken parts
- Safety symbols
- Operation panel
- Check coolant, engine oil, hydraulic oil and fuel quantity and be sure no leaking.
- Check the grease regularly and refill it if need.
- Check gauges and lights during operation.
- Check whether the machine works normally during operation.
- Grease greasing points daily.
- Check and fastening bolts.



Warning

Using machine excessively will make the machine be worsening and reduce its life.



Warning


Operate the machine without read this manual or training will result in damage of the machine or person injury.



Warning

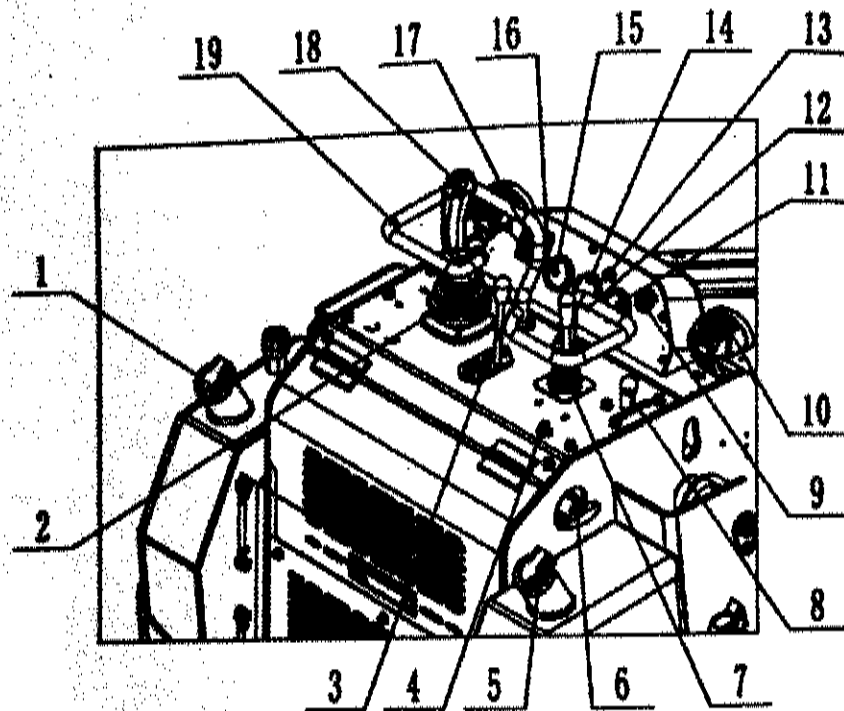
To avoid any injury, When operating the machine, keep your feet always on the pedal.

6.4 Safety Drive
WARNING Try to keep low speed working in order for max stability.
 Load center changes when lift and down, do not turn rapidly or moving on slope when lifting.
 Keep it on level ground when operating and turning.
 Put down lift arm entirely when moving, and lift bucket to proper height, to avoid obstacles.

 **Danger**

When bucket arm on high lever, high speed with rapid moving or turning of the machine may cause slipping or injury. Operating on low speed are required.

7. Operating System



- | | | |
|-----------------------|-----------------------|-----------------------------|
| 1. Hydraulic oil tank | 8. Throttle | 15. Oil temp.gauge (option) |
| 2. Single joystick | 9. Ignition switch | 16. Light switch |
| 3. Auxiliary handle | 10. LED lamp | 17. Indicator (red) battery |
| 4. Emergency stop | 11. Hour meter | 18. Engine oil PSI |
| 5. Fuel tank | 12. Right grip | 19. Left grip(with sleeve) |
| 6. Power steering | 13. Horn button | |
| 7. Right handle | 14. Water temp. gauge | |

1-Hydraulic oil tank

Filling hydraulic oil, the oil tank should be as 36L.

At least fill L-HM46 or according to your condition.

2-Single joystick

-Joystick forward:

Put the four fingers of the left hand together, lightly hold the front side of the left handgrip, gently push the joystick forward with the left thumb, and the machine will move forward.

-Joystick backward:

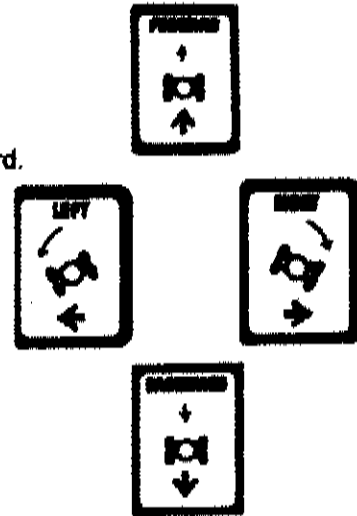
Put the thumb on the vertical pole of the left hand grip, four fingers of the left hand together and pull the joystick backward, then the machine backwards.

-To steer while moving forward, push joystick forward, then move left or right. Unit will gradually turn left or right.

-To steer while moving backward, pull joystick back, then move left or right. Unit will gradually turn left or right.

-For tight steering in low speed, move joystick to center position then to left or right side. Tracks will counter rotate and turn unit in a tight circle.

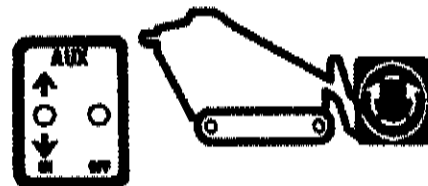
-To stop, move to neutral.



3-Auxiliary handle

To drive the accessory in reverse, push the handle bar forward.

To drive the accessory forward, pull back on the auxiliary handle bar.



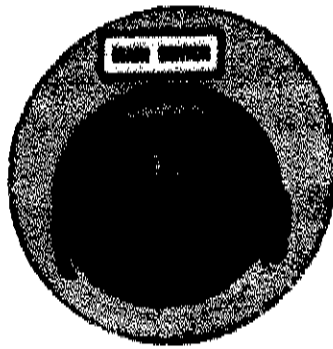
4-Emergency stop

When driving a vehicle, fasten the safety rope around your waist or wrist. In an emergency, pull down the safety rope and the engine will stop.

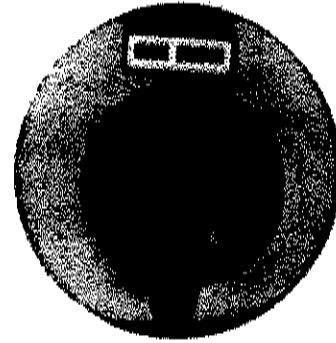
5- Fuel tank

For filling fuel diesel, the fuel tank should be as 35L. According to the label instruction.

6-Power sourcing



Parallel to the ground



Vertical to the ground

Vertical: Switch on

Parallel: Switch off



Caution: The main switch should be on the power off position when the machine stop working.



Caution: The main switch should be on the power-on position before the machine working.

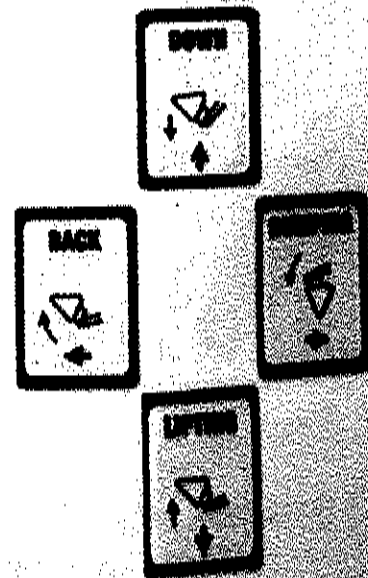
7-Right handle

Right handle bar to left:

The thumb of the right hand hold the vertical pole behind the hand grip lightly, the four fingers of the right hand hold the handle bar to move to the left, and the bucket is dumped to unload.

Right handle bar to right:

The thumb of the right hand hold the vertical pole behind the hand grip lightly, the four fingers of the right hand hold the handle bar to move to the right, and the bucket is fill up to upload.



Right handle backward:

Close the four fingers of the right hand, hold the left side of the right handgrip lightly, gently pull the right handle bar backward by the thumb, to raise the lift arm.



Right handle bar forward:

Hold the rear part of the hand grip with thumb lightly, close the four fingers of the right hand, hold the right handle bar, push forward gently, and the lift arm will drop.



WARNING: Please pay attention to other components when the engine turns off in emergency.



▲ Do not exceed the rated load when lifting!

PROHIBIT: Engine turns off in emergency, press the start button to restart, it is prohibited only the motor rotates, if the engine cannot start.

⊖-Throttle

Throttle forward: Increasing(Rabbit symbol)

Throttle backward:Decreasing(Turtle symbol)



⊖-Ignition switch



Preheat



Natural OFF



ON position

When starting the engine, go to preheat position 10-20 seconds, specially in cold winter temperature below 10°C, should be preheat in firstly, then turn the starter key clockwise; release the starter key immediately after starting to position it to the "ON" position.

If the engine does not start or stalls, turn the key counterclockwise to the "OFF" stop position, and restart after a slight pause (about 10-15 seconds).

10-LED light

Please turn on the headlights when the working environment is dark.

11-Hour meter

Displays the engine running time.

12-Right hand grip

Please hold the right handgrip with your right hand when controlling the right handle.

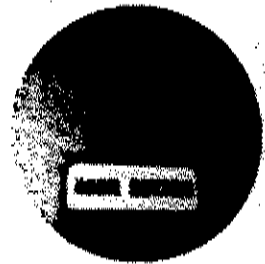


Please keep your right hand always on the right handgrip when the machine moving.

13-Horn button

Press the horn button to sound the horn.

Release it to stop the horn.



14-Water temperature gauge

Display the temperature of the coolant.

15- Hydraulic Oil Temperature gauge (option)

Displaying hydraulic oil temperature.

16-Light switch

Press the button to switch on the headlight.

17-Indicator (red) battery

The indicator get red when started, the indicator OFF when machine works well.

18-Engine oil PSI

When the engine oil pressure is too low, the indicator light on (red).

19-Left handgrip

Please hold the left handgrip with your left hand when controlling the hydraulic joystick.

2. Preparation Before Working

1-Overview

The success of working begins a planning. The first step is to review all the information relevant to the work and workplace.

2-All the working

2.1. Review work planning

Review blueprints or other work plans to examine all the planning, and proposed information on possible concurrent events.

2.2. Arrange traffic control for safety

Contact your local safety or regulatory authority if working on a public traffic area.

2.3. Emergency Services Planning

Have the phone number of the local emergency and first aid department in hand.

2.4. Penetrates the ground works, such as digging, drilling, trenching...

Familiar with public facilities telephones, call utility managers and identify and label all utility lines. If there is no public phone book, call your local security department.

2.5. Works on the ground

Marking utility poles, record the location and height of all overhead wires on the field to ensure that the machine does not touch wires at maximum lift.



2.6. Check the working site

Check the following before transporting the device:

- Elevation changing or if there are mountains or ditches.
- If there are any obstacles such as buildings, railroad crossings or pipelines .
- Public facility sign
- Transportation
- Device channel
- Soil type and condition

2.7. Hazard identification

If the equipment will penetrate the ground, identify the safety hazard and site category.

		WARNING	<i>WARNING: Worksite hazards can result in death or serious injury. Operate equipment and machinery in the correct manner and use and maintain appropriate safety equipment.</i>
---	---	----------------	--

WARNING: Worksite hazards can result in death or serious injury. Operate equipment and machinery in the correct manner and use and maintain appropriate safety equipment.

Warning:

- Wear safety protection including hard hats, goggles, earmuffs, etc.
- Do not wear jewelry or loose clothing.
- Familiar with the contact information of public facilities.
- Understand and be familiar with all construction safety precautions before operation.
- Check the location of the previous marked underground danger signs.
- Clean up the workplace and keep non-workers away.
- Attention: Danger warnings should be installed on the site, don't simply set the wires.

3-Workplace classification

3.1. Check workplace

Inspect the job site and potential hazards you may encounter, such as:

- "Construction prohibited" sign.
- Junction box for gas or tap water pipelines without overhead wires in public facilities.
- Post box.
- Street lights
- Manhole cover
- Ground subsidence

Carry out excavation work in accordance with national labor regulations or other similar regulations.

Make a phone call to utility number or public safety.

Let experienced operators clear the site and mark the previous wire and cable locations within 6 meters of each channel.

Mark the location of all buried utilities and obstructions. Classification on site.

3.2. Select category

The workplace will be divided into the followings according to different underground obstacles:

Within 3 meters (10') from buried wires	With electricity
Within 3 meters (10') from the natural gas pipeline	Natural gas
Sand, granite, or concrete	Crystal silica dust
Within 3 meters (10') of other hazards	Others

OTHERS NOTE:

If the job site classification not clear, or the job site contains unmarked hazards. Identify the hazards before working.

3.3 Precaution

Take precautions immediately once a hazard is identified.

Workplace with electricity.

Take one or all of the following ways.

3.3.1 Electric Jobsite Precautions

Use one or both of these methods.

Expose line by careful hand digging or soft excavation.

Have service shut down while work is in progress. Have electric company test lines before returning them to service.

3.3.2 Natural Gas Jobsite Precautions

In addition to positioning equipment upwind from gas lines, use one or both of these methods.

Expose lines by careful hand digging or soft excavation.

Have gas shut off while work is in progress. Have gas company test lines before returning them to service.

3.3.3 Crystalline Silica (Quartz) Dust Jobsite Precautions

Follow OSHA or other guidelines for exposure to crystalline silica when trenching, sawing or drilling through material that might produce dust containing crystalline silica (quartz).

3.3.4 Other Jobsite Precautions

You may need to use different methods to safely avoid other underground hazards. Talk with those knowledgeable about hazards present at each site to determine which precautions should be taken or if job should be attempted.

4-Check Supplies And Equipment

4.1 Supplies

Fuel diesel, Key, Lubricating oil.

Personal safety equipment, such as safety helmet and goggles, etc.

4.2 Liquid level

Fuel diesel, Hydraulic oil, Battery charging fluid, Engine oil

4.3 Conditions and Marks

Filters (Air, fuel and oil), Tracks, Pump and motor, Hose and valve Marks, warnings and shield.

4.4. Necessary

If possible, add a fire extinguisher, but keep it away from any fire; the fire extinguisher should be applicable in both oil and electric fire. It should meet legal and regulatory requirements.

3. Attachments Connection

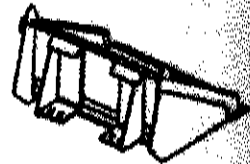
IMPORTANT: Use approved attachments only. Attachments can change the stability and operating characteristics of the machine.

3.1. Attachments plate

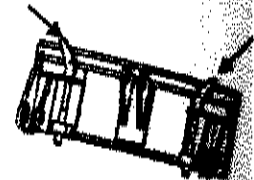
IMPORTANT:

Make sure it is free of dirt before connecting attachment.

1. Make sure the lock pin handles (shown) on mount plate are turned away from center of attachment.
2. Start engine.
3. Tilt mount plate forward.



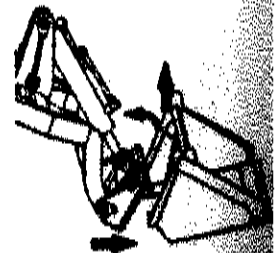
4. Put mount plate in the upper lip of receiver plate on attachment
5. Raise lift arms while tilting back mount plate.



NOTE: Attachment should be raised enough to clear the ground.

Mount plate should be tilted back fully.

6. Ensure all controls are in neutral position.
7. Turn off the switch and remove the key.
8. Rotate lock pin handles toward center of mount plate to secure attachment to lift plate.



NOTICE: To ensure proper connection, verify that bottoms of lock pins are visible under attachment receiver plate.

3.2. Hydraulic Hoses

If attachment requires hydraulic power for operation, connect hydraulic hose.



Fluid or air pressure could pierce skin and cause injury or death. Keep away.

NOTICES:

1. Escaping pressurized fluid can cause injury or pierce skin and poison.
2. Before disconnecting a hydraulic line, turn engine off and operate all controls to relieve pressure. Lower, block, or support any raised component with a hoist. Cover connection with heavy cloth and loosen connector nut slightly to relieve residual pressure. Catch all fluid in a container.
3. Before using system, check that all connections are tight and all lines are undamaged.
4. Fluid leaks can be hard to detect. Use a piece of cardboard or wood, rather than hands, to search for leaks.
5. Wear protective clothing, including gloves and eye protection.
6. If you are injured, seek immediate medical attention from a doctor familiar with this type of injury.



CAUTION: Hot parts may cause burns, do not touch until cool.

CAUTION: Hydraulic couplers, hoses and fluid may be hot. Wear gloves when connecting and disconnecting hydraulic hoses and wait until unit has cooled before touching hydraulic components.

1. Cycle attachment drive control to relieve residual pressure at hydraulic couplers.
2. Ensure that all controls are in neutral position.
3. Remove dirt and debris from hydraulic couplers.
4. Connect male coupler on attachment to female coupler on unit.
5. Connect female coupler on attachment to male coupler on unit.
6. Connect female coupler on case drain hose to case drain coupler on unit, if attachment requires it.
7. Ensure that connections are secure by pulling on hoses.



18. Drive

18.1 Start Engine

- 1.1 Turn on main power/fuel
- 1.2 Ensure all controls are in neutral.
- 1.3 Move throttle to half open.
- 1.4 Preheat 10-20 seconds.
- 1.5 Turn ignition switch to start position and release when engine starts.

Emergency shutdown: Turn ignition switch to STOP.

18.2 Drive General Operation

- 2.1 Pull lift arm control to raise mount plate (and attachment) off ground.
- 2.2 Move joystick back and forth to control the machine forward or reverse.
- 2.3 Move joystick left and right to control the machine left and right steering.
- 2.4 Adjust throttle as needed.
- 2.5 See the attachments operating manual for proper operating instructions of the attachments.

18.3 Slope Operation Guidelines

3.1 **NOTE:** Keep attachment/load low when operating on a slope. Drive slowly and cautiously at all times.

3.2 Operate up and down slopes with heavy end of unit uphill. Weight distribution changes based on attachments and load. For example, an empty bucket makes the rear of the unit the heavy end while a full bucket makes the front of the unit the heavy end. Most Hi Tech-approved attachments make the front of the unit the heavy end.

-Avoid starting, stopping, or turning on slopes. If you must turn, keep the heavy end of the unit uphill.

-Do not park unit on slope without lowering attachment to the ground, returning all controls to neutral position, turning ignition switch to STOP.

CAUTION:

Unit should not be parking on a slope unless parking brake is engaged.

Move all controls to neutral position when stopped.



Warning

On slope, the angle of inclination should be no more than 12°; Otherwise fuel will be leak.

10.4 Shut Down

- 4.1 Lower lift arms to ground.
- 4.2 Move all controls to neutral position.
- 4.3 Run engine at low idle for three minutes to cool.
- 4.4 Turn ignition switch to STOP.
- 4.5 Remove key.
- 4.6 Cut off the main power.

11. Machine in Storage

1. Rinse Equipment



- 1.1 Spray water onto equipment to remove dirt and mud, especially at undercarriage.

CAUTION: Do not spray water onto operator's console. Electrical components could be damaged. Wipe down instead.

- 1.2 Open hood and remove debris from inside of unit.
- 1.3 Remove mud from tracks and rollers.

2. Disconnect Attachments

- 2.1 Lower attachment to the ground.
- 2.2 Ensure that all controls are in neutral.
- 2.3 Turn off engine.
- 2.4 Disengage lock pins by turning handles away from center of attachment.
- 2.5 Cycle attachment drive control and disconnect hydraulic hoses, if used.
- 2.6 Start engine.
- 2.7 Tilt mount plate forward and back unit away from attachment.

3. Stow Tools

Make sure all tools and accessories are loaded on trailer.

12. Safety Service & Maintenance

12.1 Safety Service Precautions

1. Before Maintenance



Read operator's manual. Know how to use all controls. Your safety is at stake.

CAUTION:

Unless otherwise instructed, all maintenance should be performed with engine off.

Stop engine before opening hood for inspection or service.

Allow engine to cool before performing any maintenance.

Refer to engine manufacturer's manual for engine maintenance instructions.

Before servicing equipment, lower unstowed attachments to ground.



Hot parts may cause burns. Do not touch until cool.

NOTICE: Allow engine to cool before touching parts or performing any service.



Moving parts could cut off hand or foot. Stay away.

NOTICE: Do open hood for inspection or service with engine running.

2. Working Under Raised Lift Arms



Crushing weight could cause death or serious injury. Use proper procedures and equipment or stay away.

CAUTION: Support both lift arms before working under raised lift arms.

3. Welding Precautions



Explosion possible. Serious injury or equipment damage could occur. Follow directions carefully.

- Disconnect battery to prevent damage to battery. Do not turn off battery disconnect switch with engine running, or alternator and other electronic devices may be damaged.
- Connect welder ground clamp close to welding point and make sure no electronic components are in the ground path.

CAUTION:

Always disconnect the Engine Control Unit ground connection from the frame, harness connections to the ECU, and other electronic components prior to welding on machine or attachments.

12.2 Maintenance

1. Lubricants



Proper lubrication and maintenance protect equipment from damage and failure. Service intervals listed are for minimum requirements. In extreme conditions, service machine more frequently. Use only recommended lubricants.

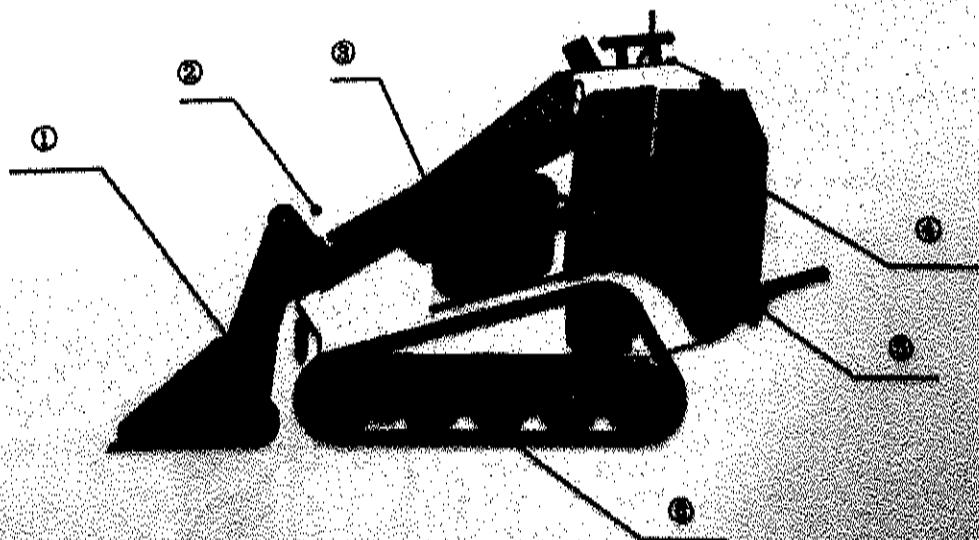
Lubrication Area

Lubricating grease below areas before work.

Clean before lubricating to avoid any dust or dirt.

Replace the parts if it is lost or damaged.

Avoid immoderate lubrication and try to reduce accumulation of dust.



2. Maintenance

1. Use only genuine parts, filters, and approved lubricants to maintain warranty.
2. Use the "Service Record" to record all required service to your machine.
3. Check engine operation manual for engine lubrication and maintenance information.

10 Hours

	Check engine oil level	
	Check hydraulic fluid level	
	Check hydraulic hoses	
	Check rubber crawler lug nut torque	
	Check rubber crawler's tension	
	Check coolant level	

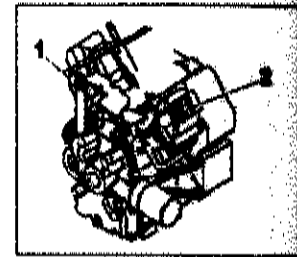
Check Engine Oil Level

Check engine oil level at dipstick opening every 10 hours.

Oil level should be at top of marking, if low, add 10W30.

Check with unit on level surface and at least 15 minutes after stopping engine.

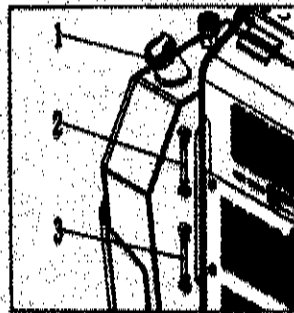
IMPORTANT: Use oil specified in "Engine Oil Temperature Chart".



Check Hydraulic Fluid Level

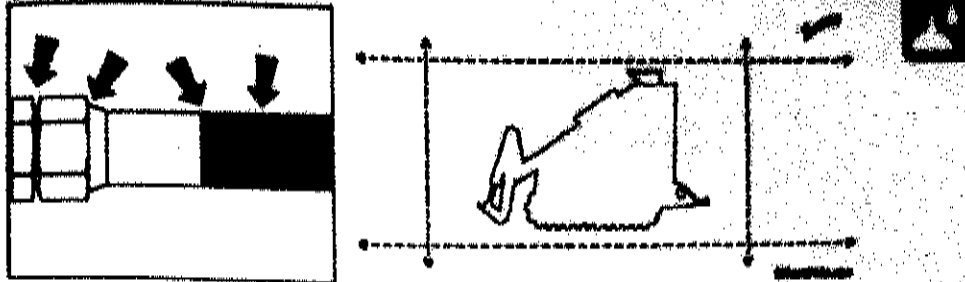
Check hydraulic fluid level every 10 hours.

Maintain fluid level at halfway point on gauge (2) and (3) when engine is off and fluid is cool. If low (3), add hydraulic oil from the hydraulic oil filling port (1).



Check Hydraulic Hoses

Check Hydraulic Hoses



Check hydraulic hoses for leaks every 10 hours.



WARNING: Fluid or air pressure could pierce skin and cause injury or death. Keep away.

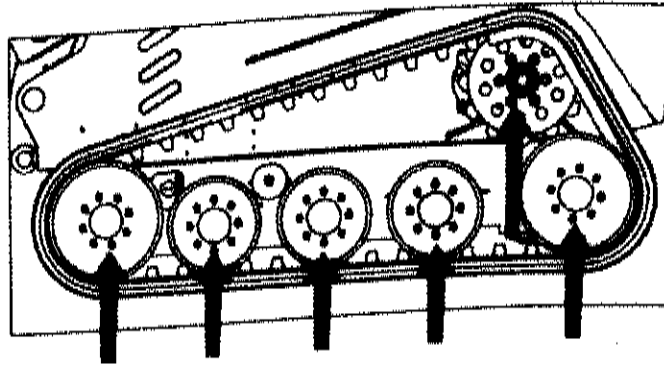
NOTICE:

1. Escaping pressurized fluid can cause injury or pierce skin and poison.
2. Before disconnecting a hydraulic line, turn engine off and operate all controls to relieve pressure. Lower, block, or support any raised component with a hoist. Cover connection with heavy cloth and loosen connector nut slightly to relieve residual pressure. Catch all fluid in a container.
3. Before using system, check that all connections are tight and all lines are undamaged.
4. Fluid leaks can be hard to detect. Use a piece of cardboard or wood, rather than hands, to search for leaks.
5. Wear protective clothing, including gloves and eye protection.
6. If you are injured, seek immediate medical attention from a doctor familiar with this type of injury.

Check Rubber Crawler Lug Nut Torque

Check lug nut torque at 10 hours, 50 hours and every 200 hours thereafter.

Tighten to 85-95 ft (105-130 Nm) as per needed.



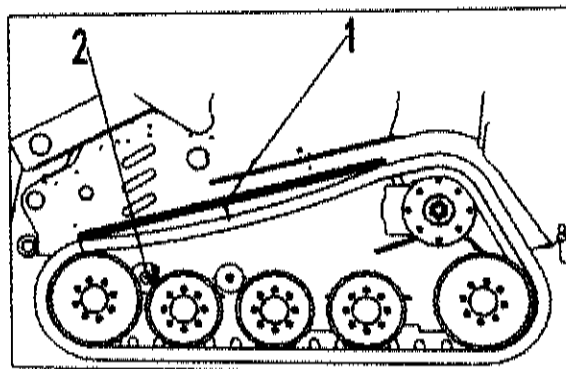
Check Rubber Crawler's Tension

Check the rubber crawler tension at startup and every 10 hours and adjust as needed.

The track stretches correctly when the measurement between the track and the straight edge (1) is 10-15mm.

Track Tension Adjustment

- 1, Park the machine on a smooth, flat surface.
- 2, Inject grease through the grease injection valve (2) and tighten the track until the distance between the track and the straight edge (1) is 10-15mm.
- 3, Test: Drive forward some distance and check again.

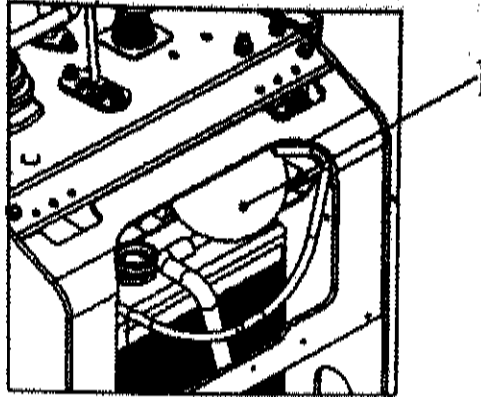


If the tension is too loose, repeat the steps above.

If the tension is too tight, drain small grease from the cylinder through the grease injection valve and test again.

Check Coolant Level

Check coolant level at overflow coolant bottle, with engine cool, at startup and every 10 hours.
Maintain coolant level at 1/3 point on overflow tank. If low, add approved coolant.



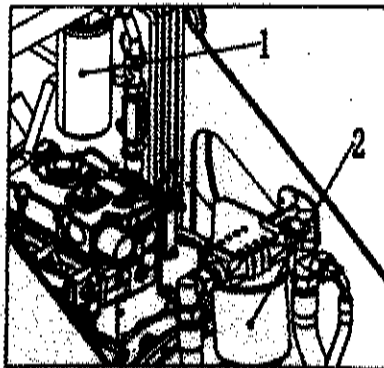
50 Hours



	Check hydraulic fluid filter	
	Clean radiator	

Check Hydraulic Fluid Filter

Replace the hydraulic fluid filter after the first 50 hours.

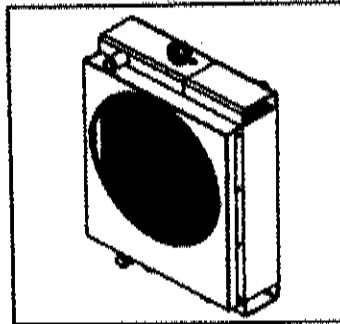


Clean Radiator

Clean radiator every 50 hours.

If used in a dusty environment, it needs to be cleaned more frequently. Clean with pressurized air or low pressure water.

NOTICE: Be careful not to damage cooler fins.



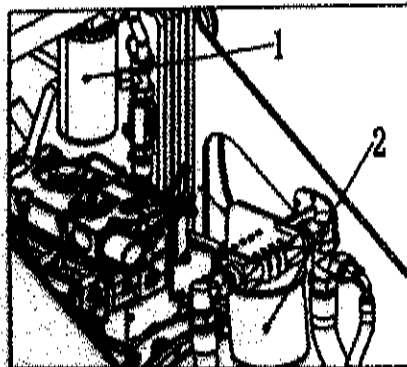
250 hours



	Change hydraulic fluid filter	
	Check rubber crawler lug nut torque	

Change Hydraulic Fluid Filter

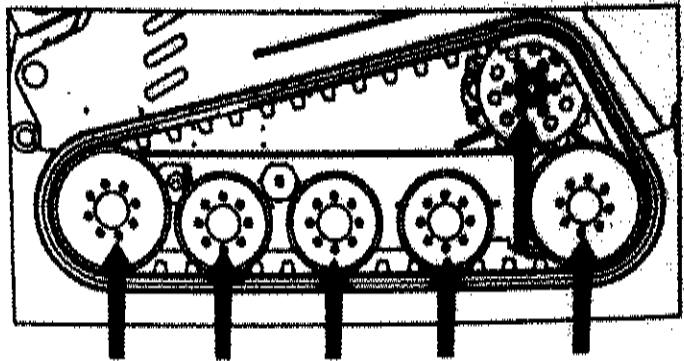
Change hydraulic fluid filter every 250 hours.



Check Rubber Crawler Lug Nut Torque

Check lug nut torque at 10 hours, 50 hours and every 200 hours thereafter.

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



500 hours

Change Hydraulic Fluid

Change hydraulic fluid every 500 hours.

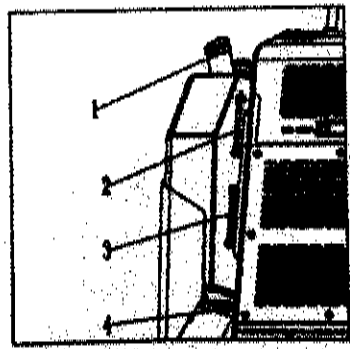
Step:

Drain fluid at drain plug (4).

Change filter.

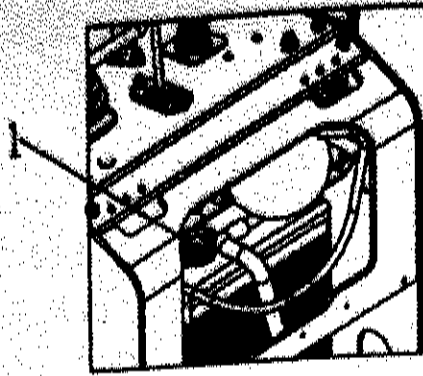
Fill oil in (1) until fluid level is at halfway point on sight glass (2).

Then start engine, running idle for 2 minutes, then check the gauge and make sure the level is in the middle of gauge (2).



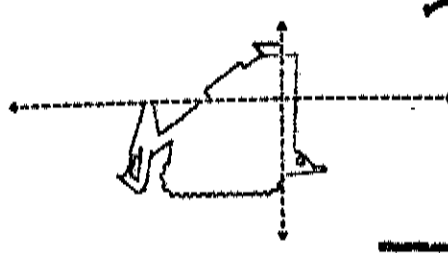
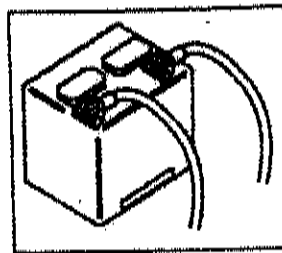
1000 hours

Every 1000 hours, drain the engine coolant through the radiator drain. Then add approved coolant via (1).



Other maintenance

Check Battery



(1) Ordinary Battery: Check electrolyte when drive 10d~15d(d is day) in Winter and 5d~6d in Summer.

Disconnect its wires, open the cover and check electrolyte of each unit.

Fill in distilled water if it is below bottom level.

Maintenance-free Battery: Check the battery every 50 hours, keep battery and terminals clean and free of corrosion.

Check the hydrometer regularly, as it will change color along with electrolyte capacity, and it shows battery electricity condition and height of electrolyte level. When it shows green, battery is full of electricity and works well; if it is lack of green or shows dark, battery needs to be recharged; when it shows light yellow, indicating battery has internal fault, and it shall be repaired or replaced.

(2) Battery Storage & Service: Put the battery in shady and cool place, never put it directly in the sun exposure, and avoid moisture.

Do not knock battery with metal tools during installation, and do not put metal tools on the battery either.

(3) Install and Dismount Battery: Turn off engine, remove key.

Disconnect cathode wire first and then anode wire.

Loosen the bolt, and take out battery.

Confirm the electrode on battery.

Procedure of install battery is contrary to dismount.

NOTICE: Make sure connect with the right wire.

(4) Battery Operating Considerations:

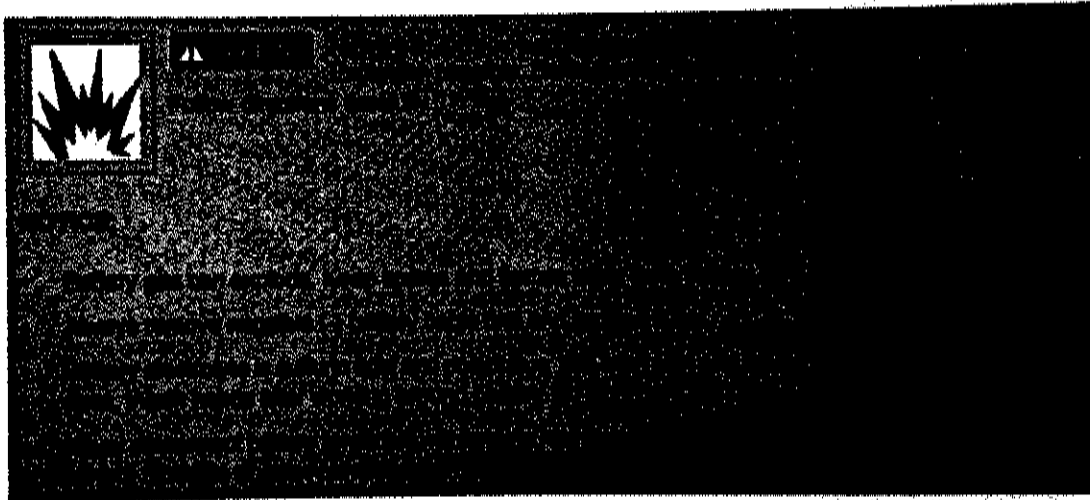
1. Wear safety appliance (protective glasses, rubber gloves) when operating battery.
2. Do it carefully, as acid inside battery.
3. Clean it up immediately when drops acid on your skin or clothes; otherwise it will result in bad injury or death.
4. Keep the battery away from fire and heat sources.
5. Battery is used for starting engine only; otherwise it may cause battery damage or fire due to hydrogen out from the battery.

(5) Battery in Winter:

Do not let battery electricity leakage.

Do not restart when you failed once to start engine; Wait a minute to supply voltage.

NOTICE: Check and maintain the battery wires especially in Winter.



Hot parts may cause burns. Do not touch until cool.

NOTICE: Allow engine to cool before touching parts or performing any service.

- 1 Stop engine and allow to cool before attempting service
- 2 Remove key from ignition switch.
- 3 Adjust belt tension.



Moving parts could cut off hand or foot. Stay away.

NOTICE: Do not open hood for inspection or service with engine running.



Runaway possible. Machine could run over you or others. Learn how to use all controls. Start and operate only from operator's

position.

NOTICE: Do not leave operator station with engine running.

- 1 Start engine and check operation.
- 2 Stop engine open hood, and re-check belt alignment.
- 3 Close hood.

Jump Start Unit



Incorrect procedures could result in death, injury, or property damage.

Use equipment correctly.

NOTICES:

- 1 Park on level area
- 2 Put all drive controls in neutral
- 3 Fall all attachments onto ground
- 4 Turn off all electrical loads

5 Turn off engine and remove key from ignition

6 Block wheels or tracks



Explosion possible. Serious injury or equipment damage could occur.

Follow instructions to operate carefully.

CAUTIONS:

- 1 Lead-acid batteries vent explosive hydrogen gas when charging.
- 2 Do not smoke, create sparks, or use flames around batteries.
- 3 Never lean over battery when making connections.
- 4 Do not allow vehicles to touch when jump starting.
- 5 Wear eye protection and remove metal jewelry and watches.
- 6 Do not attempt to jump start a battery that is leaking, bulging, heavily corroded, frozen, or otherwise damaged.
- 7 Never short-circuit battery terminals for any reason.
- 8 Never hammer on battery posts or cable terminals.

Before You Start

Electronic components can be easily damaged by electrical surges. Jump starting can damage electronics and electrical systems, and is not recommended except in extreme circumstances. Use quality large diameter jumper cables capable of carrying high currents (400 amps or more). Cheap cables may not allow enough current flow to start a dead/discharged battery.

Read all steps thoroughly and review illustration before performing procedure.

3. Decals



Moving digging teeth will kill you or cut off arm or leg. Stay away.



Turning shaft will kill you or crush arm or leg. Stay away.



Electric shock. Contacting electric lines will cause death or serious injury. Know location of lines and stay away.



Deadly gases. Lack of oxygen or presence of gas will cause sickness or death, provide ventilation.



WARNING

Jobsite hazards could cause death or serious injury. Use correct equipment and work methods. Use and maintain proper safety equipment.



WARNING

Crushing weight could cause death or serious injury. Use proper procedures and equipment or stay away.



WARNING

Moving parts could cut off hand or foot. Stay away.



WARNING

Explosion possible. Serious injury or equipment damage could occur. Follow directions carefully.



WARNING

Incorrect procedures could result in death, injury, or property damage. Learn to use equipment correctly.



WARNING

Improper control function could cause death or serious injury. If control does not work as described in instructions, stop machine and have it serviced.



WARNING

Looking into fiber optic cable could result in permanent vision damage. Do not look into ends of fiber optic or unidentified cable.



WARNING

Fluid or air pressure could pierce skin and cause injury or death. Stay away.



WARNING

Runaway possible. Machine could run over you or others. Learn how to use all controls. Start and operate only from operator's position.



WARNING

Fire or explosion possible. Fumes could ignite and cause burns. No smoking, no flame, no spark.



⚠ WARNING

Moving traffic - hazardous situation. Death or serious injury could result. Avoid moving vehicles, wear high visibility clothing, post appropriate warning signs.



⚠ WARNING

Flying objects may cause injury. Wear hard hat and safety glasses.



⚠ WARNING

Hot parts may cause burns. Do not touch until cool.



⚠ WARNING

Exposure to high noise levels may cause hearing loss. Wear hearing protection.



⚠ WARNING

Fall possible. Slips or trips may result in injury. Keep area clean.



⚠ WARNING

Battery acid may cause burns. Avoid contact.



⚠ WARNING

Improper handling or use of chemicals may result in illness, injury, or equipment damage. Follow instructions on labels and in material safety data sheets (MSDS).

13. Solution For Emergency

Before operating any equipment, review emergency procedures and check that all safety precautions have been taken.

EMERGENCY SHUTDOWN - Turn ignition switch to STOP.

Electric Strike Description

When working near electric cables, remember the following:

Electricity follows all paths to ground, not just path of least resistance.

Pipes, hoses, and cables will conduct electricity back to all equipment.

Low voltage current can injure or kill. Almost one-third of work-related electrocutions result from contact with less than 440 volts.

Most electric strikes are not noticeable, but indications of a strike include:

power outage

smoke

explosion

popping noises

arcing electricity

If any of these occur, assume an electric strike has occurred.

If An Electric Line Is Damaged

If you suspect an electric line has been damaged and you are on loader, **DO NOT MOVE.**

Remain on it and take the following actions. The order and degree of action will depend upon the situation.

Warn people nearby that an electric strike has occurred. Instruct them to leave the area and contact utility.

Raise attachments and drive from immediate area.

Contact utility company to shut off power.

Do not return to job site or allow anyone into area until given permission by utility company.

If you suspect an electric line has been damaged and you are off loader, **DO NOT TOUCH LOADER.** Take the following actions.

LEAVE AREA. The ground surface may be electrified, so take small steps with feet close together to reduce the hazard of being shocked from one foot to the other. For more information, contact your dealer.

Contact utility company to shut off power.

Do not return to job site or allow anyone into area until given permission by utility company.

If A Gas Line Is Damaged

If you suspect a gas line has been damaged, take the following actions. The order and degree of action will depend on the situation.

Immediately shut off engine(s), if this can be done safely and quickly.

Remove any ignition source(s), if this can be done safely and quickly.

Warn others that a gas line has been cut and that they should leave the area.

Leave job site as quickly as possible.

Immediately call your local emergency phone number and utility company.

If job site is along street, stop traffic from driving near job site.

Do not return to job site until given permission by emergency personnel and utility company.

SK403-JDT MAIN SPECIFICATION SHEET

Item	Model	SK403-JDT
Max operating height (mm)		2695
Height to bucket pin(mm)		1926
Height to top(mm)		1496
Length without bucket(mm)		2075
Length with bucket(mm)		2694
Max. Dumping angle (°)		30
Max dumping height (mm)		1625
Dumping reach (mm)		710
Rolling angle at the bottom (°)		26
Rolling angle at the top (°)		114
wheelbase (mm)		1080
Ground clearance (mm)		120
Diperture angle (°)		23
Track Tread width (mm)		840
Total width (mm)		1070 (option)
Bucket width (mm)		1160 (option)

Engine type	According to your option
Rated power	25HP
Rated speed	As per option
Noise	≤95dB
Hydraulic system	
Pressure	180Bar as basic
Circle time	
lifting	5.6s
bucket	3s
Down	3.6s
Rated loading capacity	400kgs as basic
Bucket capacity	0.2m3 as basic
Operating weight	1450kgs as basic

15. Support

1. Notify your dealer or contact us immediately if any malfunction or failure of your mini skid steer loader.

2. Always give model, serial number, and approximate date of your equipment purchase.

This information should be recorded and placed on file by the owner at the time of purchase.

3. Return the damaged parts to dealer for inspection and warranty consideration if in warranty period.

4. Order genuine replacement or repair parts from authorized dealer. Use of another manufacturer's parts may void warranty.

5. Contact with your dealer for publications and videos covering safety, operation, maintenance and repair of your equipment.

6. For other information on web and operator training, please contact with your dealer or contact us.

7. Specifications are subject to change without notice.