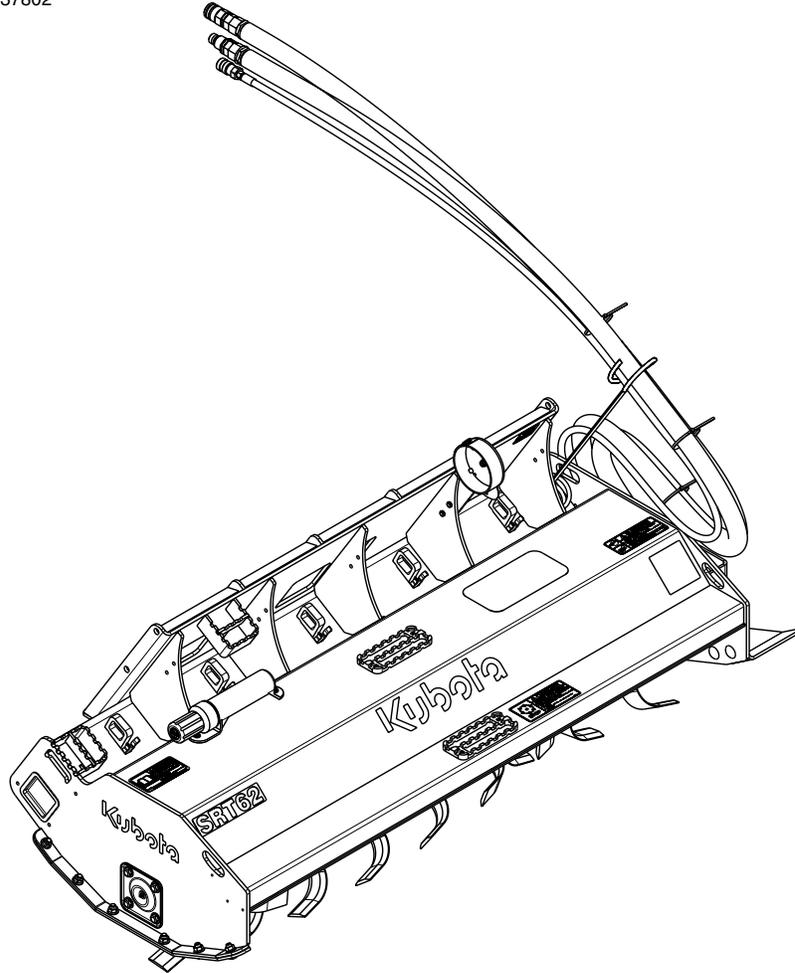


Rotary Tillers

AP-SRT62, & AP-SRT76

37802



321-095MK
Operator's Manual

Kubota®



Read the Operator's Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover photo may show optional equipment not supplied with standard unit.

For an Operator's Manual and Decal Kit in French Language, please see your Kubota dealer.

Machine Identification

Record your machine details in the log below. If you replace this manual, be sure to transfer this information to the new manual.

If you, or the dealer, have added Options not originally ordered with the machine, or removed Options that were originally ordered, the weights and measurements are no longer accurate for your machine. Update the record by adding the machine weight and measurements provided in the Specifications & Capacities Section of this manual with the Option(s) weight and measurements.

Model Number	
Serial Number	
Machine Height	
Machine Length	
Machine Width	
Machine Weight	
Delivery Date	
First Operation	
Accessories	<hr/> <hr/> <hr/>

Dealer Contact Information

Name: _____

Street: _____

City/State: _____

Telephone: _____

Email: _____

California Proposition 65

 **WARNING:** Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands. For more information see www.P65Warnings.ca.gov/motor-vehicle-parts.

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Printed in the United States of America.

See previous page for Table of contents.



Parts Manual QR Locator

The QR (Quick Reference) code on the left will take you to the Parts Manual for this equipment. Download the appropriate app on your smart phone. Scan the QR code and take a picture.



Dealer QR Locator

The QR code to the left will link you to available dealers for Kubota products. Refer to Parts Manual QR Locator on this page for detailed instructions.

Listed below are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Careful operation is your best assurance against an accident.

All operators, no matter how much experience they may have, should carefully read this manual and other related manuals before operating the power machine and this attachment.

- ▲ Thoroughly read and understand the "Safety Label" section. Read all instructions noted on them.
- ▲ Do not operate the equipment while under the influence of drugs or alcohol, as they impair your ability to safely and properly operate the equipment.
- ▲ Operator should be familiar with all functions of the skid steer / track loader and attachment and be able to handle emergencies quickly.
- ▲ Make sure all guards and shields appropriate for the operation are in place and secured before operating the attachment.
- ▲ Keep all bystanders away from equipment and work area.
- ▲ Start skid steer or track loader from the driver's seat with steering levers and hydraulic controls in neutral.
- ▲ Operate skid steer or track loader and controls from the driver's seat only.
- ▲ Never dismount from a moving skid steer / track loader or leave the machine unattended with the engine running.
- ▲ Do not allow anyone to stand between the attachment and skid steer or track loader while connecting to the attachment.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ While transporting and operating equipment, watch out for objects overhead and along the sides such as fences, trees, buildings, wires, etc.
- ▲ Store attachment in an area where children normally do not play. When needed, secure attachment against falling with support blocks.



Look for the Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety and extra precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. Hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

A signal word designates a degree or level of hazard seriousness. They are:

- ▲ **DANGER:** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- ▲ **WARNING:** Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
- ▲ **CAUTION:** Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

Be Aware of Special Notices

Special notices are intended to point out important and helpful information that should be followed. They are usually placed inside a box. They are:

- ▲ **IMPORTANT:** Indicates that equipment or property damage could result if instructions are not followed.
- ▲ **NOTE:** Indicates supplementary explanations that will be helpful when using the equipment.

Safety Precautions for Children

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to attachments and their work.

- ▲ Never assume children will remain where you last saw them.
- ▲ Keep children out of the work area and under the watchful eye of a responsible adult.
- ▲ Be alert and shut the attachment and skid steer/track loader down if children enter the work area.
- ▲ Never carry children on the power machine or attachment. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the power machine.
- ▲ Never allow children to operate the power machine, even under adult supervision.
- ▲ Never allow children to play on the power machine or attachment.
- ▲ Use extra caution when backing up. Before the power machine starts to move, look down and behind to make sure the area is clear.

Listed below are common practices that may or may not be applicable to the products described in this manual.

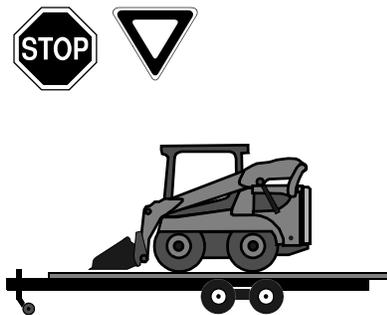
Dig Safe - Avoid Underground Utilities

- ▲ USA: Call 811
CAN:
<http://www.clickbeforeyoudig.com>
- ▲ Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- ▲ Be sure to ask how close you can work to the marks they positioned.



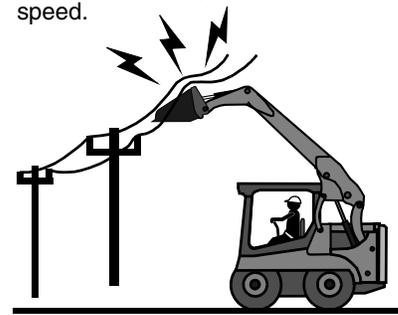
Towing Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with chocks, tie downs, and chains.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.
- ▲ Sudden braking can cause a towed trailer to swerve unexpectedly. Reduce speed if trailer is not equipped with brakes.



Transport Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Avoid contact with any overhead utility lines or electrically charged conductors.
- ▲ Always drive with attachment on the end of the loader arms low to the ground.
- ▲ Follow recommendations in the power machine Operator's Manual when driving uphill or downhill and when parking on an incline.
- ▲ Never travel at a speed which does not allow adequate control of the load, steering, and stopping. Some rough terrains require a slower speed.



Tire Safety

- ▲ Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- ▲ Always properly match the wheel size to the properly sized tire.
- ▲ Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's Manual.
- ▲ When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- ▲ Securely support the attachment when changing a wheel.
- ▲ When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- ▲ Make sure wheel bolts have been tightened to the specified torque.



Practice Safe Maintenance

- ▲ Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- ▲ Work on a level surface in a clean, dry area that is well-lit.
- ▲ Lower attachment to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- ▲ Do not work under any hydraulically supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- ▲ Use properly grounded electrical outlets and tools.
- ▲ Use correct tools and equipment for the job that are in good condition.
- ▲ Allow equipment to cool before working on it.

- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on equipment.
- ▲ Inspect all parts. Make certain that parts are in good condition & installed properly.
- ▲ Replace parts on this attachment with genuine Kubota parts only. Do not alter this attachment in a way which will adversely affect its performance.
- ▲ Do not grease or oil attachment while it is in operation.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Always make sure any material and waste products from the repair and maintenance of the attachment are properly collected and disposed of.
- ▲ Remove all tools and unused parts from the equipment before operation.



These are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital, and fire department near phone.

Wear Personal Protective Equipment (PPE)

- ▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, dust mask, and ear plugs.
- ▲ Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating a machine safely requires the operator's full attention. Avoid wearing headphones while operating equipment.

Avoid High Pressure Fluids

- ▲ Escaping fluid under pressure will penetrate the skin or eyes causing serious injury.
- ▲ Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- ▲ Make sure all hydraulic fluid connections are properly tightened/torqued and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of cardboard or wood, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ **DO NOT DELAY.** If an accident occurs, seek immediate emergency medical care or gangrene may result.

Use Safety Lights and Devices

- ▲ A slow moving power machine can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.
- ▲ For tractors and other agriculture equipment, a Slow Moving Vehicle (SMV) sign is required when traveling on public roads.

Use Seat Belt and ROPS

- ▲ Land Pride recommends the use of a CAB or roll-over-protective-structures (ROPS) and seat belt in almost all power machines. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the power machine should be upset.
- ▲ If ROPS is in the locked-up position, fasten seat belt snugly and securely to help protect the operator against serious injury or death from falling and/or machine overturn.

Keep Riders Off Machinery

- ▲ Never carry riders on the power machine or attachment.
- ▲ Riders obstruct operator's view and interfere with the control of the power machine.
- ▲ Riders can be struck by objects or thrown from the equipment.
- ▲ Never use the power machine or attachment to lift or transport riders.

Listed below are common practices that may or may not be applicable to the products described in this manual.

Avoid Crystalline Silica (Quartz) Dust

Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis).

There are guidelines which should be followed if crystalline silica (quartz) is present in the dust.



- ▲ Be aware of and follow OSHA (or other local, State, or Federal) guidelines for exposure to airborne crystalline silica.
- ▲ Know the work operations where exposure to crystalline silica may occur.
- ▲ Participate in air monitoring or training programs offered by the employer.
- ▲ Be aware of and use optional equipment controls such as water sprays, local exhaust ventilation, and enclosed cabs with positive pressure air conditioning if the machine has such equipment. Otherwise respirators shall be worn.
- ▲ Where respirators are required, wear a respirator approved for protection against crystalline silica containing dust. Do not alter respirator in any way. Workers who use tight-fitting respirators can not have beards/mustaches which interfere with the respirator seal to the face.
- ▲ If possible, change into disposable or washable work clothes at the work site; shower and change into clean clothing before leaving the work site.
- ▲ Do not eat, drink, use tobacco products, or apply cosmetics in areas where there is dust containing crystalline silica.
- ▲ Store food, drink, and personal belongings away from the work area.
- ▲ Wash hands and face before eating, drinking, smoking, or applying cosmetics after leaving the exposure area.

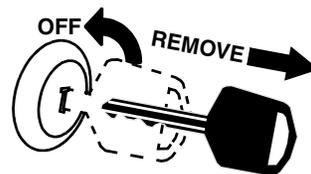
Handle Chemicals Properly

- ▲ Protective clothing should be worn.
- ▲ Handle all chemicals with care.
- ▲ Follow instructions on container label.
- ▲ Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil, and property.
- ▲ Inhaling smoke from any type of chemical fire can be a serious health hazard.
- ▲ Store or dispose of unused chemicals as specified by the chemical manufacturer.



Skid Steer / Track Loader Shutdown And Storage

- ▲ Reduce engine speed and shut-off all power to the attachment.
- ▲ Park on solid, level ground and lower attachment until it is flat on the ground or on non-concrete support blocks.
- ▲ Turn-off engine using the power-off switch or turn ignition key to stop. Do not remove key at this time.
- ▲ Relieve all hydraulic pressures.
 - If using a power-off switch, follow your machine Operator's Manual for instructions on how to release hydraulic pressure in the lines.
 - If using an ignition key, turn key to "RUN" and move joysticks to release hydraulic pressure in the lines. Finish by turning ignition key to off and removing it to prevent unauthorized starting.
- ▲ If included, raise seat bar and move controls until both lock.
- ▲ Wait for all components to stop before leaving operator's seat.
- ▲ Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer or track loader.



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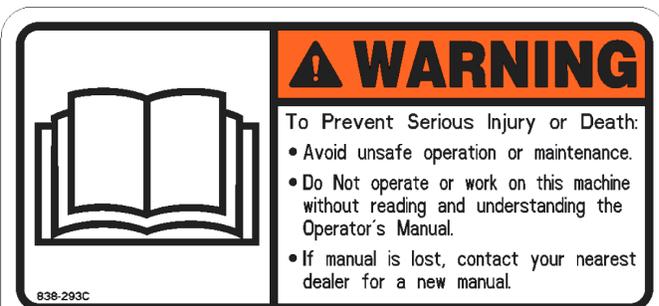
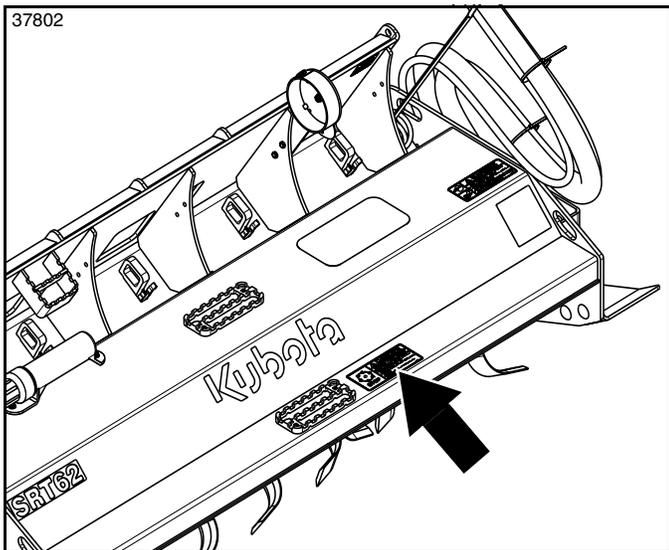
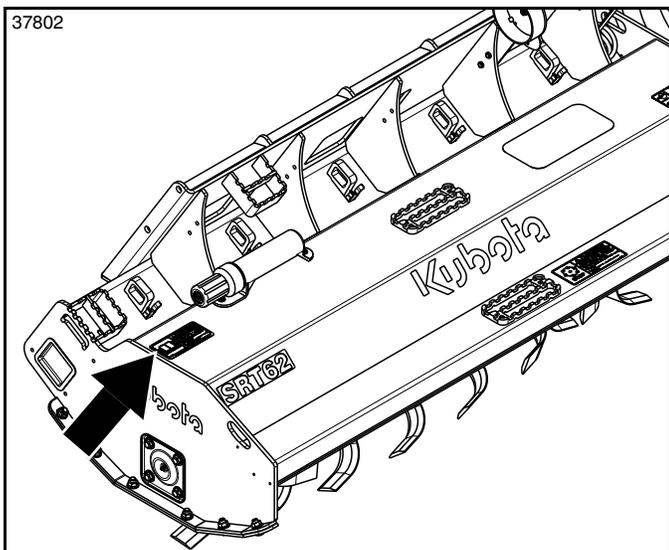
Safety Labels

Your Rotary Tiller comes equipped with all safety labels in place. They are designed to help you safely operate your attachment. Read and follow their directions.

1. Keep all safety labels clean and legible.
2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Kubota dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as

specified by Kubota. When ordering new components make sure the correct safety labels are included in the request.

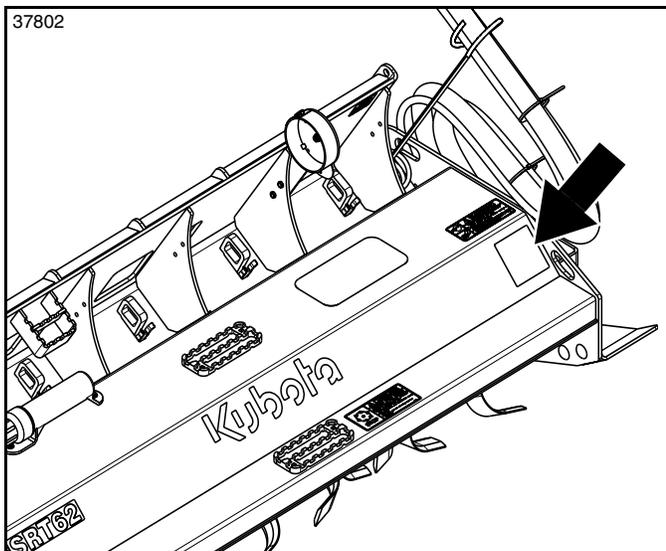
4. Refer to this section for proper label placement. To install new labels:
 - a. Clean surface area where label is to be placed.
 - b. Spray soapy water onto the cleaned area.
 - c. Peel backing from label and press label firmly onto the surface.
 - d. Squeeze out air bubbles with edge of a credit card or a similar type of straight edge.



838-293C
Warning: Read Operator's Manual
1 Place



858-772C
Danger: Rotating Parts Hazard
1 Place

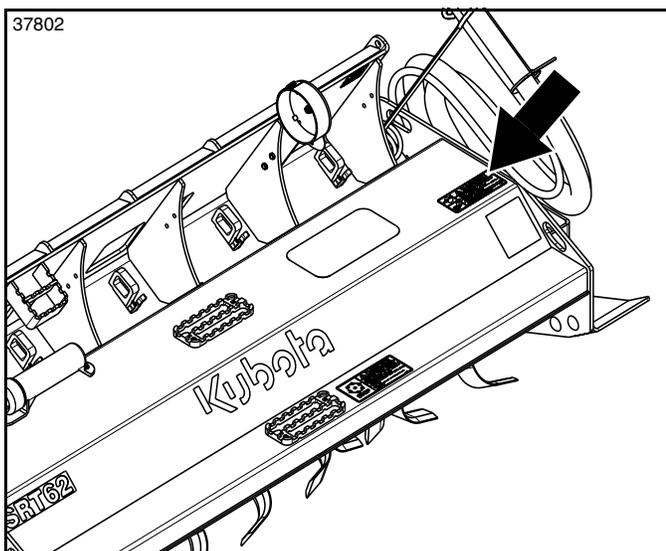


72926

838-107C

Warning: Thrown Object Hazard

1 Place

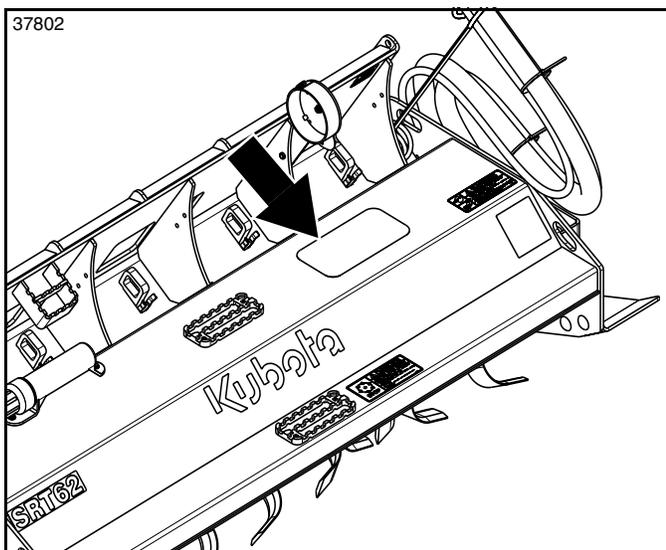


70245

838-094C

Warning: High Pressure Fluid Hazard

1 Place



840-107c

840-107C

Anti-slip: 10" x 5"

1 Place

Introduction

Kubota welcomes you to the growing family of new product owners. This Rotary Tiller has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this attachment.

Application

Kubota's Skid Steer Rotary Tillers (SRT) allow you to transform your skid steer into a versatile tillage tool for landscaping, preparing seedbeds, and ripping virgin soil with uses in municipal and commercial applications. The Kubota SRT is available in 62" (157 cm) and 76" (193 cm) widths and can be offset 6" (15 cm) to the right for tilling next to fences, buildings, and sidewalks.

The Kubota SRT features a bi-direction rotor that can spin up to 245 rpm.

The unique patent-pending depth indicator provides for the operator a clear, visible indication of 2", 4" & 5 1/2" (5, 10, & 14 cm) tine depth. The C-shaped tilling tines, manufactured from forged and hardened steel, feature bi-directional cutting edges. Replaceable skid shoes protect end panel against wear. Steel ripper-shanks, mounted in a 3/8" (10 mm) thick channel, assist with breaking virgin ground.

See "**Specifications & Capacities**" on page 27 and "**Features & Benefits**" on page 28 for additional information and performance enhancing options.

Using This Manual

- This Operator's Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

Terminology

"Right" or "Left" as used in this manual is determined by the direction the operator faces while sitting in the operator's seat looking forward unless otherwise stated.

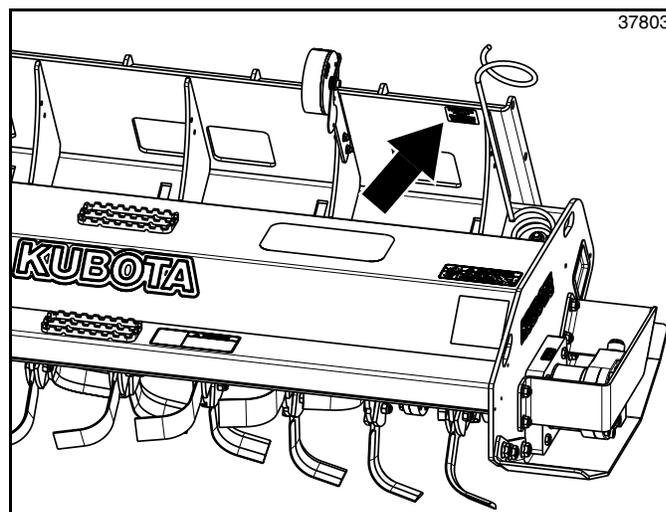
Owner Assistance

The dealer should complete the Online Warranty Registration at the time of purchase. This information is necessary to provide you with quality customer service.

The parts on your Rotary Tiller have been specially designed by Kubota/Land Pride and should only be replaced with genuine Kubota parts. Contact a Kubota dealer if customer service or repair parts are required. Your Kubota dealer has trained personnel, repair parts, and equipment needed to service the attachment.

Serial Number

For quick reference and prompt service, record model and serial number on the inside cover page and again on the warranty page. Always provide model number and serial number when ordering parts and in all correspondence with your Kubota dealer. For location of your serial number plate, see Figure 1.



Serial Number Plate Location
Figure 1

Further Assistance

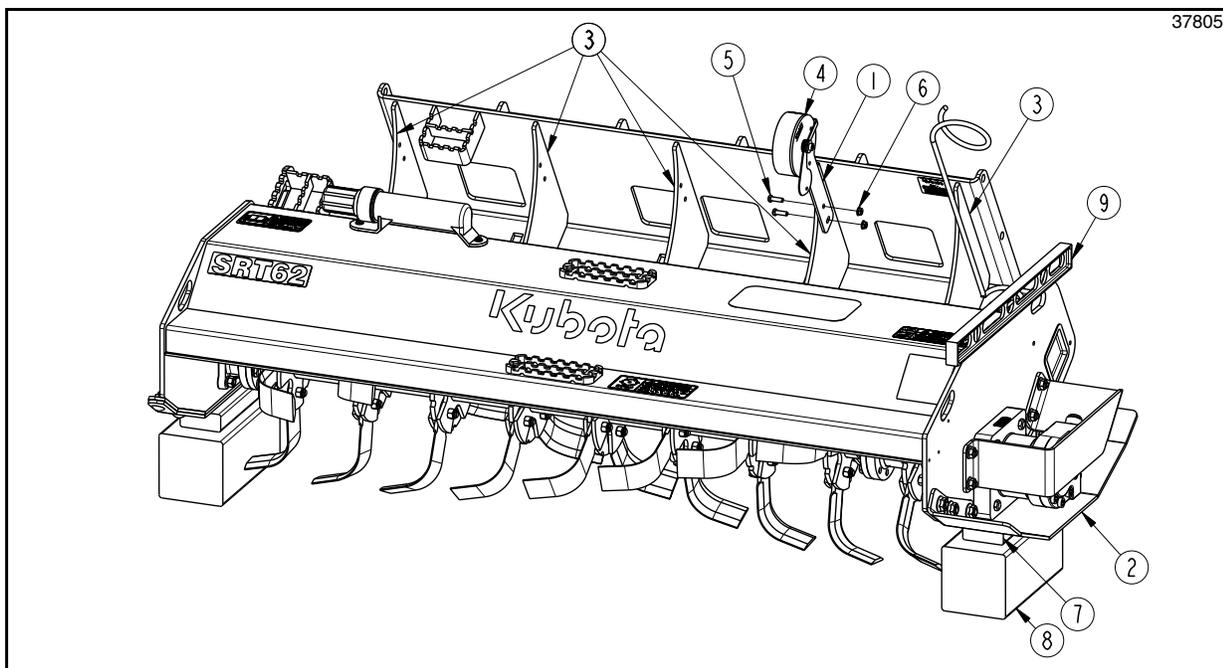
Your Kubota dealer wants you to be satisfied with your new attachment. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss any problems you have with your attachment with your dealership service personnel so they can address the problem.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the question/problem, and request assistance.
3. For further assistance write to:

**Kubota by Land Pride
Service Department**

**1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060**

E-mail address
lpSERVICE@landpride.com



Depth Indicator Assembly
Figure 1-2

Depth Indicator Assembly

Refer to Figure 1-2:

IMPORTANT: In order for the depth indicator to be accurately adjusted, the Rotary Tiller must be parked on ground that is flat and level and resting on a 7" (18 cm) or taller support at both ends as shown.

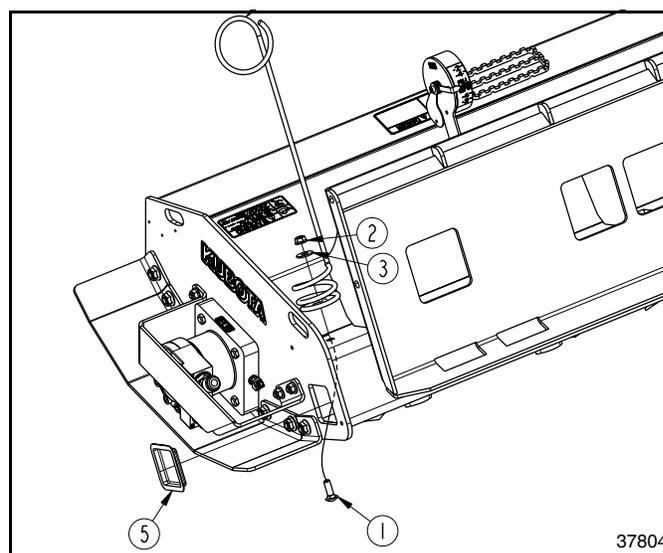
IMPORTANT: Depth indicator is shipped mounted to the far left gusset (#3) and can be moved to any of the other gussets (#3) to suit operator preference.

1. Support tiller on a level surface with minimum 7" (18 cm) tall supports (#7 & #8) under skid shoes (#2) at both ends of unit. Supports at both ends should be of equal height.
2. Verify tiller is level by placing a level (#9) across the top of the unit as shown.
3. Attach depth indicator (#1) to one of the gussets (#3) with 5/16"-18 x 1" GR5 bolts (#5) and whiz nuts (#6). Gusset location is operator preference. Draw whiz nuts (#6) up snug, do not tighten at this time.
4. Rotate depth indicator (#1) about upper bolt until indicator arrow (#4) points to "FULL DEPTH."
5. Hold depth indicator in this position and tighten hex whiz nuts (#6) to the correct torque.

Spring Hose Loop Assembly

Refer to Figure 1-3:

1. Insert 1/2"-13 x 1 1/2" GR5 carriage bolt (#1) through opening in end of tiller frame and up through square hole as shown.
2. Attach spring hose loop (#4) to tiller frame with flat washer (#3) and whiz nut (#2).
3. Tighten whiz nut (#2) to the correct torque.
4. Apply silicone caulk around end cap (#5) and press end cap over hole in end of frame.



Spring Hose Loop Assembly
Figure 1-3

Hydraulic Hoses & Couplings

Refer to Figure 1-4:

NOTE: Quick couplers (#3 & #4) are optional and can be purchased from Kubota in one of two sizes. Options include small flat face couplers (#3 & #4) with adapters (#6) or large flat face couplers (#3 & #4) without adapters (#6).

1. If attaching small flat face couplers, screw adapters (#6) to hydraulic hoses (#7 & #8) until tight.
2. Screw male coupler (#3) to hydraulic hose (#8) until tight.
3. Screw female coupler (#4) to hydraulic hose (#7) until tight.

NOTE: A 3/8" quick disconnect coupler (#5) is included with case drain line (#9). If skid steer is not equipped to receive this coupler, the customer will need to supply any fittings required to complete the connection between the 3/8" MNPT threads on case drain line (#9) and the skid steer sump.

4. If using case drain coupler (#5), wrap Teflon tape around pipe threads on end of hydraulic hose (#9) and screw coupler (#5) to that hose until tight. If coupler (#5) is not used, customer must supply all fittings to complete the connection between the skid steer sump and hydraulic hose (#9).
5. Thread hydraulic hoses (#7, #8, & #9) through spring hose loop (#2).
6. Bundle hoses (#7, #8, & #9) together in three places as shown with cable ties (#1).

Skid Steer Hook-up

Refer to Figure 1-5:

DANGER

To avoid serious injury or death:

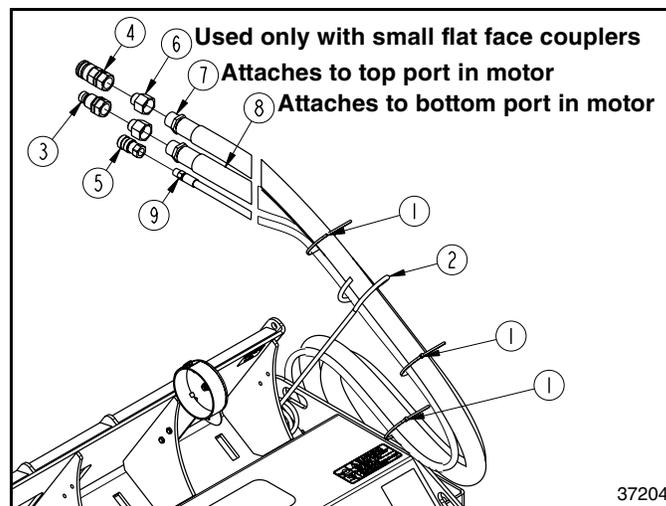
A crushing hazard exists when connecting and disconnecting the attachment. Do not allow anyone to stand between attachment and power machine while approaching or backing away from the attachment. Do not operate hydraulic controls while someone is near the power machine and/or attachment.

WARNING

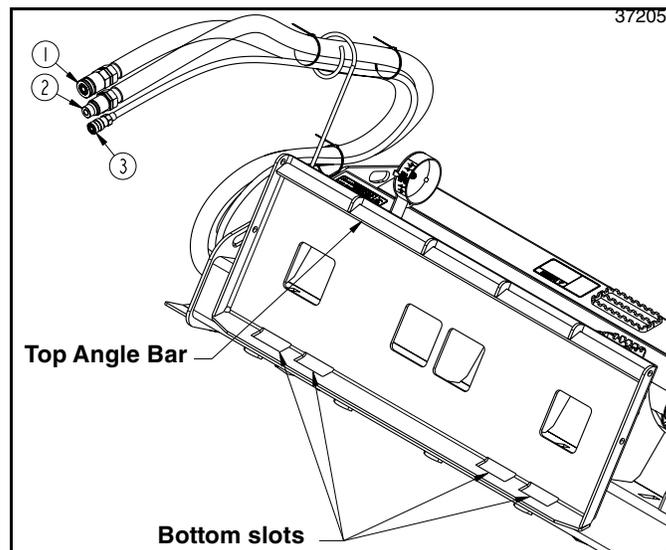
To prevent serious injury or death:

Check hitch fit-up frequently to make sure the loader hitch is properly positioned under the attachment's top angle bar(s), and the lock pins are locked fully seated in the attachment's bottom slots. An improper fit-up can cause the equipment to come loose from the loader hitch plate and fall.

NOTE: Hooking up against the far right side of the tiller hitch will center the tiller on the skid steer. Hooking up against the far left side of the tiller hitch will side shift the tiller to the right 6".



Hydraulic Hose & Couplings
Figure 1-4



Skid Steer Hook-up
Figure 1-5

1. Check for and remove all debris in the skid steer and tiller hitch point areas.
2. Raise lock pins on skid steer hitch for hook-up.
3. **See note-in-box above step #1.** Drive skid steer slowly to the far right or far left side of the tiller hitch making sure the skid steer hitch plate is parallel with the tiller's top angle bar.
4. Rotate top of skid steer tilt arms slightly forward.
5. Position top of skid steer hitch plate under the top angled bar and slowly raise loader arms up until its hitch plate is seated under the top angle bar.
6. Rotate top of skid steer tilt arms back until skid steer hitch plate makes full contact with tiller hitch plate.
7. Lower lock pins on skid steer hitch. Make sure lock pins go through bottom slots in tiller hitch and are in lock down position.

Hydraulic Hose Hook-ups

WARNING

To prevent serious injury or death:

Hydraulic fluid under high pressure will penetrate the skin or eyes causing serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulics. Use a piece of cardboard or wood, rather than hands, when searching for leaks. If an accident occurs, seek immediate emergency medical care or gangrene may result. **DO NOT DELAY.**

IMPORTANT: Collect and dispose of all oil spills and leaks in a safe manner that meets the local environmental regulations.

IMPORTANT: Hose routing is the responsibility of the owner/operator. Pinched and/or stretched hoses are not covered under the warranty.

IMPORTANT: Make sure coupler fittings are clean before making connections. Dirt can quickly damage the hydraulic system. Inspect couplers for corrosion, cracks and excessive wear. Replace couplers if any

Refer to Figure 1-6:

1. Route hydraulic hoses (#7, #8, & #9) along the most convenient path to access your skid steer couplings and sump.

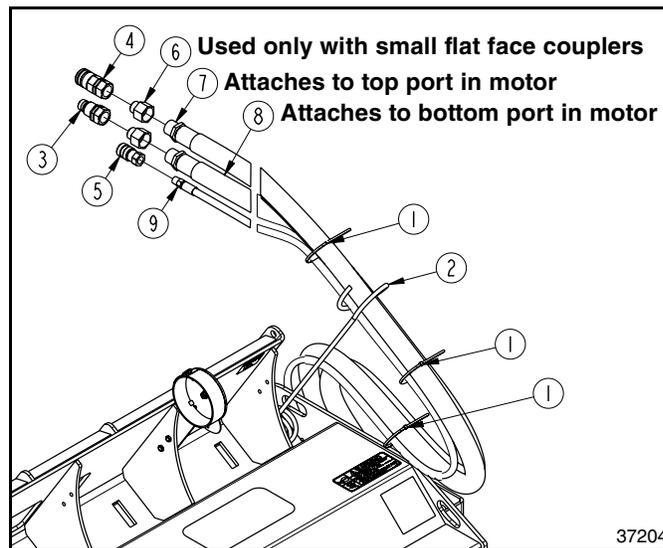
NOTE: If attaching to a Kubota compact track loader or skid steer loader, route hydraulic hoses as shown in Figure 1-7. Be sure to thread hoses through spring hose loop (#2). Do not use Kubota's SVL or SSV Hose Stay.

2. Clean quick connect couplers of dirt and then connect hoses (#7 & #8) to the skid steer couplers.
3. Make sure quick connect couplers have fully engaged. If not, check couplers to see if they are same size and type. Also, make sure all hydraulic pressure to the couplers has been released.
4. Connect case drain line (#9) to sump as follows:
 - a. If case drain line is fitted with a coupler, connect case drain line to the sump coupler.
 - b. If case drain line is not fitted with a coupler:
 - Wrap Teflon tape around 3/8" MNPT threads on end of case drain line.
 - Screw any customer supplied fittings to case drain line (#9) and to sump port until tight.

Skid Steer Primary & Secondary Ports

Refer to Figure 1-6:

Hydraulic flow and pressure from the skid steer primary and secondary ports may vary. The primary port usually delivers more power than the secondary port. This means the bi-directional tines will have more power when driven by the primary port. If operator prefers to mainly turn tines in one direction, then couplings (#3 & #4) should be attached to the hydraulic hoses so that the primary port on the skid steer is driving the tines in that direction. Consult your skid steer Operator's Manual to know which port is the primary port.



Hydraulic Hose & Couplings
Figure 1-6



Kubota Compact Track Loader or skid Steer Loader
(Kubota SVL Shown)
Figure 1-7

Section 2: Adjustments

Tiller Depth

The operator can set the tiller to one of its three tilling depths by rotate the tiller level, forward, or backward.

Tiller Rotated Positions	Tilling Depth
Level	5 1/2" (14 cm)
1st position forward or backward	4" (10 cm)
2nd position forward or backward	2" (5 cm)

Definitions:

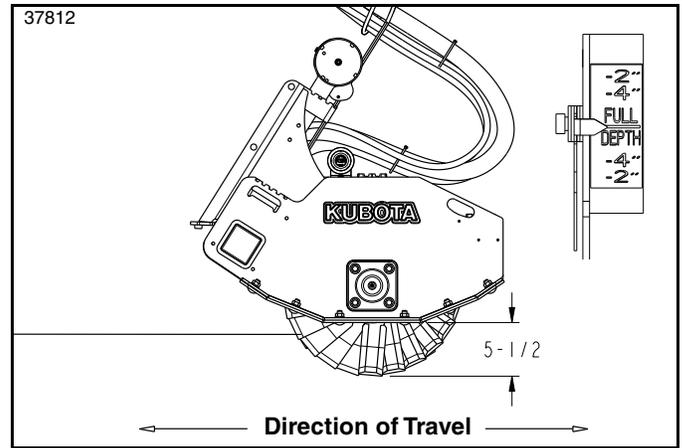
- **Standard Rotation:** Operating the rotor turning in the same direction as the skid steer wheels turn.
- **Reverse Rotation:** Operating the rotor turning in the opposite directions the skid steer wheels turn.

Tilling 5 1/2" (14 cm) Deep, Rotated Level

Refer to Figure 2-1:

Retract or extend hydraulic cylinders at the front of the skid steer loader arms until arrow on depth indicator points to "FULL DEPTH" as shown in upper right corner of illustration.

When using this depth setting, the tiller can be operated in standard rotation or reverse rotation while traveling forward or backing up.



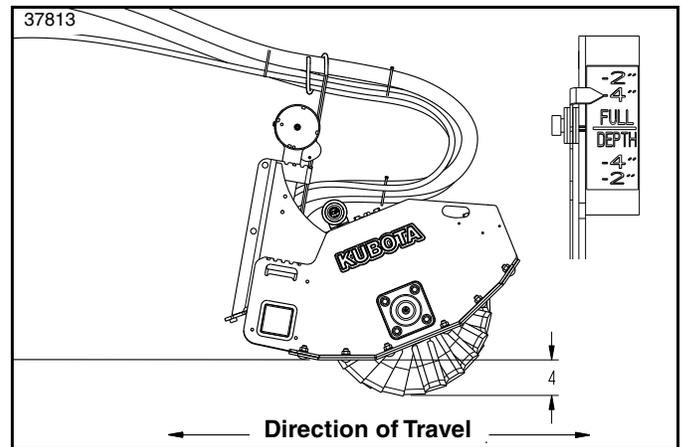
Tiller Rotated Level to Full Depth
Figure 2-1

Tilling 4" (10 cm) Deep, Rotated Back

Refer to Figure 2-2:

From level position, retract hydraulic cylinders at the front of the skid steer loader arms until arrow on depth indicator points to the 4" (10 cm) mark above "FULL DEPTH" as shown in upper right corner of illustration.

When using this depth setting, the tiller can be operated in standard rotation or reverse rotation while traveling forward or backing up.



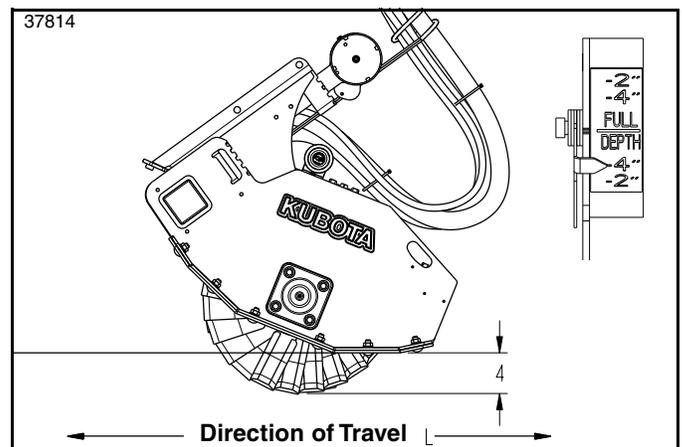
Tiller Rotated Back to 4" Depth
Figure 2-2

Tilling 4" (10 cm) Deep, Rotated Forward

Refer to Figure 2-3:

From level position, extend hydraulic cylinders at the front of the skid steer loader arms until arrow on depth indicator points to the 4" (10 cm) mark below "FULL DEPTH" as shown in upper right corner of illustration.

When using this depth setting, the tiller can be operated in standard rotation or reverse rotation while traveling forward or backing up.



Tiller Rotated Forward to 4" Depth
Figure 2-3

Section 2: Adjustments

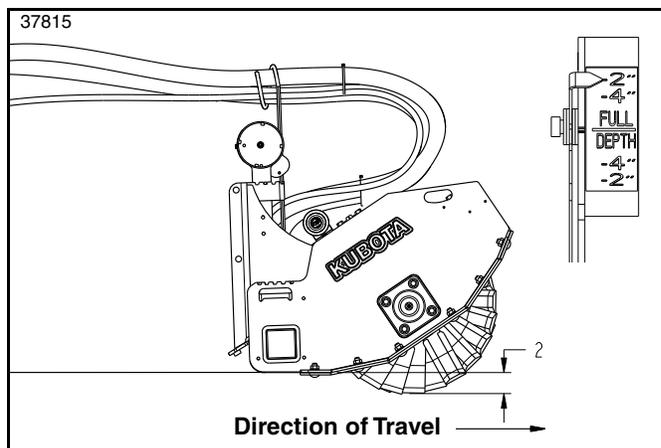
Tilling 2" (5 cm) Deep, Rotated Back

Refer to Figure 2-4:

From level position, retract hydraulic cylinders at the front of the skid steer loader arms until arrow on depth indicator points to the 2" (5 cm) mark above "FULL DEPTH" as shown in upper right corner of illustration.

IMPORTANT: Do not till backing up when tiller is rotated back to till 2" deep. The skid shoes can dig into the ground causing damage to the tiller..

When using this depth setting, the tiller can be operated in standard rotation or reverse rotation while traveling forward only.



Tiller Rotated Back to 2" Depth
Figure 2-4

Tilling 2" (5 cm) Deep, Rotated Forward

Refer to Figure 2-5:

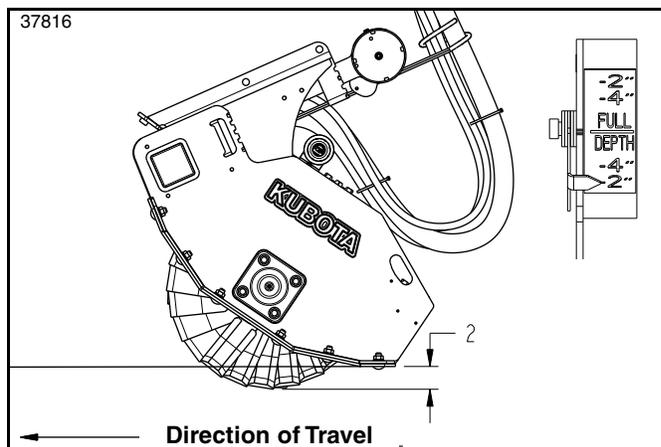
From level position, retract hydraulic cylinders at the front of the skid steer loader arms until arrow on depth indicator points to the 2" mark below "FULL DEPTH" as shown in upper right corner of illustration.

CAUTION

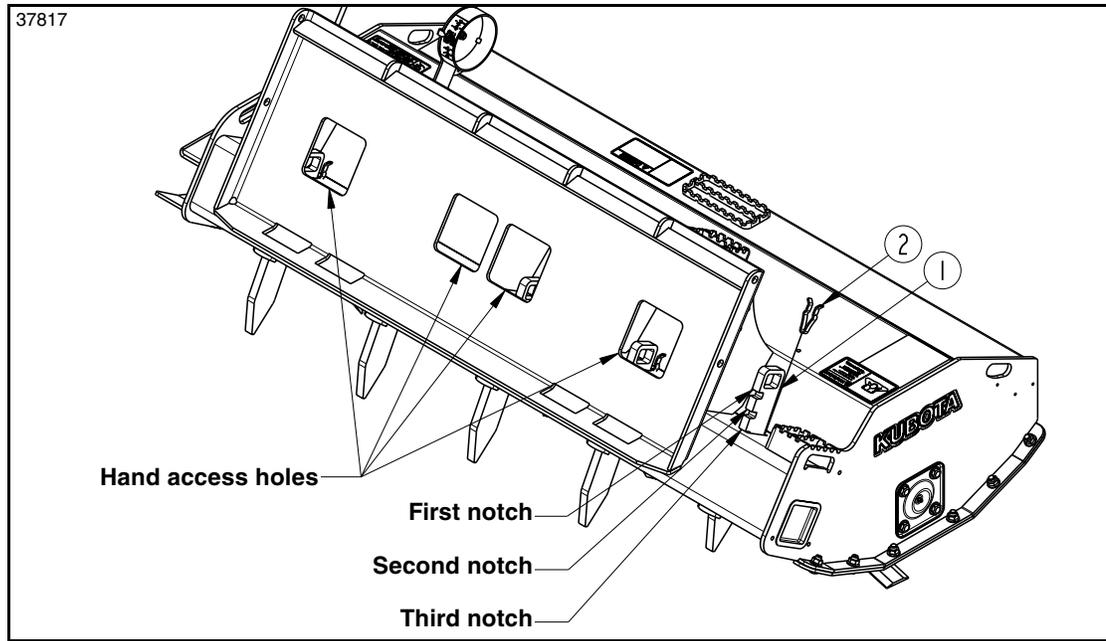
*To avoid serious injury:
Always keep your feet and legs out from under the shanks while adjusting them. It is possible for the shanks to fall causing injury to your feet and/or legs.*

IMPORTANT: Do not till traveling forward when tiller is rotated forward to till 2" deep. The skid shoes can dig into the ground causing damage to the tiller.

When using this depth setting, the tiller should be operated in standard rotation only while backing up.



Tiller Forward Level to 2" Depth
Figure 2-5



Shank Adjustment
Figure 2-6

Shank Adjustments

DANGER

To prevent serious injury or death:

Make adjustments to the attachment after it has been properly attached to a power machine and secured with solid supports in the up position. Never work around or under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated or if hydraulic lines burst even when power to hydraulics is shut off.

CAUTION

To prevent serious injury:

Always keep your feet and legs out from under the shanks while adjusting them. It is possible for the shanks to fall causing injury to your feet and/or legs.

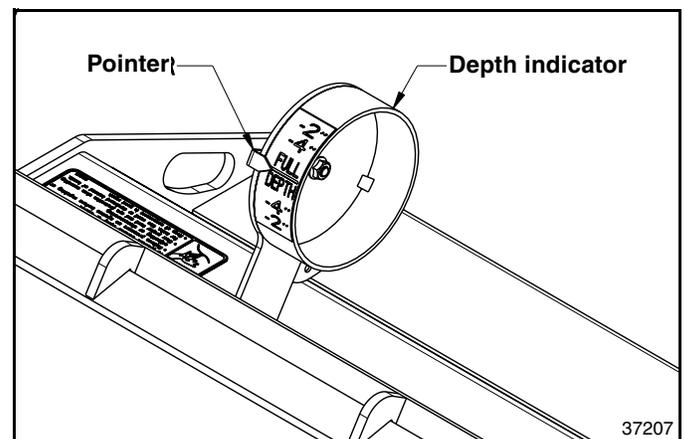
1. Park on level ground and engage park brake.

Refer to Figure 2-7:

2. Operate hydraulic cylinders at the front of the loader arms to tilt top of skid steer hitch plate until pointer on depth indicator points to "FULL DEPTH" as shown.
3. Lower tiller until tines are resting on the ground, turn off engine, and remove ignition key to prevent unauthorized starting.
4. If included, raise seat bar and move controls until both are locked.
5. Use steps, grab-handles, and anti-slip surfaces when stepping on and off the skid steer. See Figure 3-1 on page 18.

Refer to Figure 2-6:

6. Press top of shank spring retainer together with a pair of pliers and pull retainer up out of the shank tube slot. Be sure to keep shank notch caught in the tube slot to keep it from falling while removing the spring retainer.
7. Manually raise or lower shank as needed until one of the three notches in the shank is seated in the top slot. Refer to "Shank Settings" on page 16 for detailed instructions.
8. Fasten shank in place with spring retainer clip by inserting clip into the tube slot behind the shank until it snaps into place.



Depth Indicator Function
Figure 2-7

Section 2: Adjustments

Shank Settings

The shanks can only be used with pointer on depth indicator pointing at the 4" (10 cm) and 2" (5 cm) depths **above** "FULL DEPTH". Set shanks to dig in the ground as follows:

NOTE: The shanks can be operated at a different depth than noted below by raising the tiller off the ground with the loader arms. This will also change how deep the tiller is running. Know that the depth indicator will not give an accurate reading with skid shoes off the ground.

Shank Settings When Tilling Full Depth

Refer to Figure 2-8:

The shanks cannot be used when pointer on depth indicator is pointing at "FULL DEPTH". The same is true if the pointer is pointing to 4" (10 cm) and 2" (5 cm) depths **below** "FULL DEPTH". The shanks are not long enough to penetrate the ground at these settings.

Shanks Settings When Tilling 4" Deep

Refer to Figure 2-9:

With tiller rotated back and pointer on depth indicator pointing at the 4" (10 cm) depth **above** "FULL DEPTH", the shanks will penetrate the ground 4 7/8" (12.4 cm) when set in the first notch, 3 1/8" (7.9 cm) when set in the second notch, and 1 3/8" (3.5 cm) when set in the third notch.

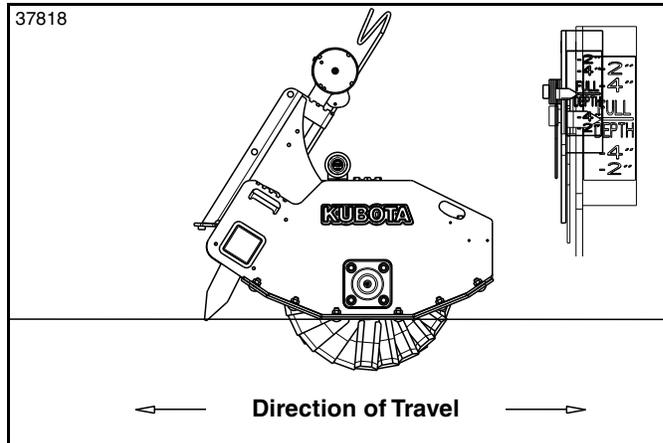
The skid steer can travel forward or backward when tiller is rotated back or forward to till 4" (10 cm) deep.

Shanks Settings When Tilling 2" Deep

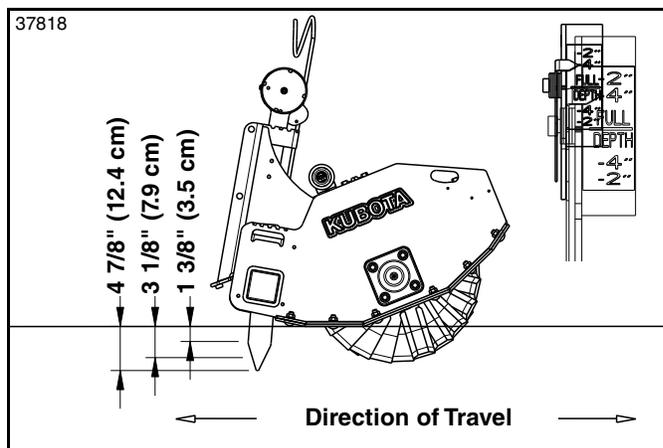
Refer to Figure 2-10:

With tiller rotated back and pointer on depth indicator pointing at the 2" (5 cm) depth **above** "FULL DEPTH", the shanks will penetrate the ground 5 3/4" (14.6 cm) when set in the third notch, 4 1/8" (10.5 cm) when set in the second notch, and 2 3/8" (6 cm) when set in the first notch.

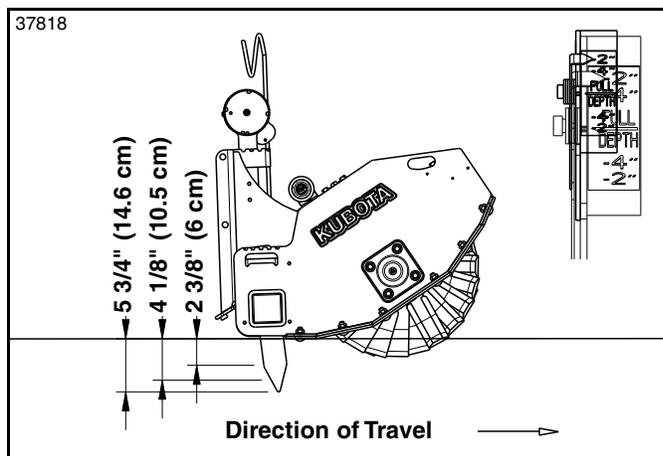
The skid steer should only travel forward when tiller is rotated back to till 2" (5 cm) deep. If one was to travel backwards while tilling, the skid shoes would dig into the ground.



Shank Depths With Tiller Set to till Full Depth
Figure 2-8



Shank Depths With Tiller Set to till 4" (10 cm) Deep
Figure 2-9



Shank Depths With Tiller Set to till 2" (5 cm) Deep
Figure 2-10

Section 3: Operating Procedures

Pre-Start Checklist

Hazard control and accident prevention are dependent on the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Rotary Tiller. Therefore, it is essential that no one operates the Rotary Tiller unless they have read, fully understood, and are totally familiar with the Operator’s Manual. Make sure the operator has completed the checklist below.

Operating Checklist

✓	Check	Ref.
	Inspect skid steer safety equipment to make sure it is in good working condition.	Skid Steer Manual
	Read and follow all safety information and decals. Refer to “Important Safety Information.”	1
	Make sure all guards and shields are secured and in good working condition. Refer to “Important Safety Information.”	1
	Read and follow hook-up instructions. Refer to “Skid Steer Hook-up”.	11
	Read and make all required adjustments. Refer to “Section 2: Adjustments”.	13
	Read and follow all operating procedures. Refer to “Section 3: Operating Procedures”.	17
	Read and follow all maintenance Instructions. Refer to “Section 5: Maintenance & Lubrication”.	23
	Read and follow all lubrication instructions. Refer to “Lubrication Points”.	26
	Check tiller initially and periodically for loose bolts and pins. Refer to “Torque Values Chart”.	30

General Safety Information

DANGER

To avoid serious injury or death:

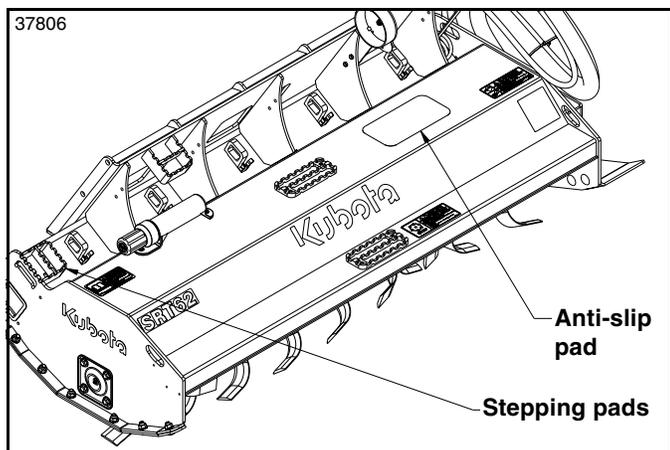
- Do not go near or under raised loader arms without first securing loader arms in the raised position with an approved lift-arm support.
- Keep your head, arms, and legs inside the cab while operating the power machine. Any extremity extended outside the cab can be crushed by the loader arms and attachment.
- Keep yourself and all others away from rotating tines and drive train. Always disengage power take-off and lockout power source before making adjustments or servicing the tiller. A person’s body, hair, or clothing can become entangled in rotating components.
- Never operate equipment from outside the cab.
- Use the skid steer’s alternate emergency exit when exit passage through the front is blocked.
- Do not use hand or foot controls for handholds or steps. Using them for handholds or steps can activate the controls.
- Keep mud, snow, ice, and debris out of foot controls.
- If included, raise restraint bar and move controls until both are locked and interlock system is activated.

- Inspect interlock control system regularly and perform required maintenance to keep it operating properly.
- Never bypass or modify a safety device.
- Do not allow bystanders or animals to be near the attachment, loader arms, or power machine during operation. Stop operation if bystanders are too close. They can be hit by thrown or falling objects, become entangled, crushed, ran over, etc.
- Tine impact on objects can throw projectiles resulting in bodily injury or death. Do not point discharge toward people, animals, or buildings and keep people and animals away from tiller during operation.
- Keep yourself and all others away from rotating tines and drive train. Always disengage power take-off and lockout power source before making adjustments or servicing the tiller. A person’s body, hair, or clothing can become entangled in rotating components.
- Keep attachment, loader arms, and/or load away from overhead electrical power lines. Place an orange warning sign under overhead lines indicating type of danger above.

WARNING

To prevent serious injury or death:

- Operate only power machines equipped with a certified Roll-Over Protective Structure (ROPS) and seat belt. Fasten seat belt snugly and securely to help protect against serious injury or death from machine overturn.
- Be careful when working areas where obstructions can be hidden. Always mark potential hazards with a visible flag. Travel slowly through high risk areas and be prepared to stop immediately should implement make contact with a solid object.
- Always shut power machine down following the “Shutdown Procedure” provided in this manual before leaving the operator’s station.
- Always stop hydraulics to tiller immediately after lifting tiller above ground level. Never operate tiller in the raised position. The tiller can discharge objects at high speeds resulting in injury or death.
- Do not travel across an incline where equipment could slip or roll-over. Consult the Operator’s Manual for acceptable inclines the power machine is capable of crossing.
- Allow only persons to operate this attachment who have fully read and comprehended this manual, and who have been properly trained in the safe operation of this attachment. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Never make contact with underground utilities such as electrical power lines, gas lines, phone lines, etc. They can cause serious injury or death from electrocution, explosion, or fire. Always call 811 (USA) or local utility companies before digging so that they can mark the location of underground services in the area. For contact information, see Dig Safe in the “Important Safety Information” starting on page 1.



Rotary Tiller Stepping Pads & Anti-slip Pad
Figure 3-1

WARNING

To avoid serious injury or death:

- Refer to Figure 3-1: Use steps, grab-handles, and anti-slip surfaces on the power machine and attachment to get on and off the power machine. Using unapproved stepping surfaces and/or handholds can result in a falling hazard.
- Operate only power machines equipped with a certified Roll-Over Protective Structure (ROPS) and seat belt. Keep folding ROPS in the “locked up” position when appropriate. If ROPS is in the locked up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.
- Do not till after dark without sufficient lighting on the power machine. The tiller can hit objects. Other vehicles can run into the power machine and/or tiller.
- Do not use this attachment to pull and/or pry fence posts, stumps, roots, rocks, or other objects out of the ground. It is not properly designed or guarded for this use.
- Do not use this attachment as a lifting device for people or as a work platform. It is not properly designed or guarded for this use.
- Do not use this attachment to lift, carry, push or tow other equipment or objects. It is not properly designed or guarded for this use. The operator could lose control resulting in equipment damage and/or tipping hazard.
- Never carry riders on the attachment or power machine. Riders can obstruct the operator’s view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.
- Check hitch fit-up frequently. An improper fit-up can result in the attachment falling from the loader hitch plate.
- Avoid hitting solid objects with this attachment. Solid objects can damage equipment and throw the operator forward causing loss of control, bodily injury, or death.

- Make sure safety labels are installed in their proper location and are in good condition before operating the attachment. Read and obey all instructions on the labels.
- Do not use this attachment as a lifting device for people or as a work platform. It is not properly designed or guarded for this use.
- Backup alarm must be in good working order to warn others. When traveling in reverse, drive the power machine at a slower speed to compensate for blind spots.
- Avoid exposure to dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis). Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica.

IMPORTANT: This tiller is designed to work in soil only. Using tiller to grind up stumps, break-up concrete/pavement, or till anything except soil can damage the tines, deck, and drive components.

IMPORTANT: Stay clear of objects that can snag and pull on the hydraulic hoses causing them to stretch and break connections.

Skid Steer Shutdown Procedure

The following are basic skid steer shutdown procedures. Follow these procedures and any additional shutdown procedures provided in your skid steer Operator’s Manual before leaving the operator’s seat.

1. Reduce engine speed and shut-off all power to the attachment.
2. Park on solid, level ground and lower attachment until it is flat on the ground or on non-concrete support blocks.
3. Turn off engine. Do not remove ignition key at this time.
4. Turn ignition key to the “RUN” position and relieve all hydraulic pressure by moving both joysticks.
5. Turn ignition key off and remove to prevent unauthorized starting.
6. If included, raise seat bar and move controls until both lock.
7. Wait for all components to come to a complete stop before leaving the operator’s seat.
8. Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer or attachment.

Section 3: Operating Procedures

Transporting

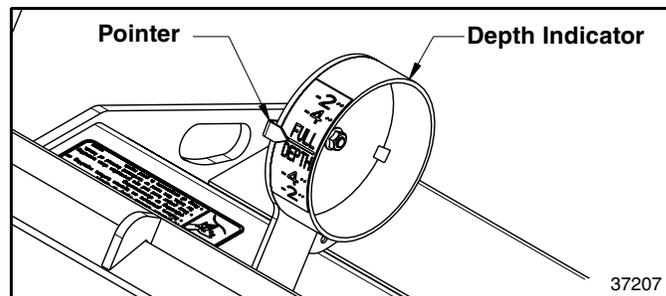
WARNING

To avoid serious injury or death:

- When traveling on public roads, use hazard lights, slow moving vehicle sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. If implement blocks visibility of slow moving vehicle sign, relocate sign so it is visible from the back at all times. Always comply with all federal, state, and local laws.
 - Slow down when traveling over rough or hilly terrain that can cause equipment to bounce, or hit obstacles that are close by. Either situation can cause damage and/or the operator to lose control.
1. Select a safe ground travel speed when transporting from one area to another.
 2. Transport with Rotary Tiller low to the ground to maintain stability of the skid steer. Transport tiller at a height that does not block your view.
 3. Set hydraulic flow to off or neutral to prevent accidental lowering of the Rotary Tiller. Never adjust the Rotary Tiller while traveling.
 4. Reduce skid steer ground speed when turning; and leave enough room to clear obstacles such as buildings, trees, and fences.
 5. Keep away from electrical power lines. Place an orange warning sign under overhead power lines indicating type of danger above.
 6. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
 7. Reduce transport speed when traveling over rough or hilly terrain.

Inspection

1. Clear area to be tilled of rocks, branches, and other foreign objects.
2. Cut tall grass and weeds before tilling.
3. Allow wet soil and vegetation to dry before tilling. Wet conditions causes soil and vegetation to stick to tines.
4. With skid steer properly shut down, Visually inspect tiller for loose hardware, structural cracks, broken parts, missing parts, and high wear. Replace components with genuine Kubota parts.
5. Inspect all hydraulic connections for leaks. Tighten any connections that are loose. See **Danger Alert** under “**Hydraulic Hose Hook-ups**” on page 12.
6. Inspect hydraulic hoses for pinch points, lengths, and clearances. Readjust hoses if needed.
7. Check all guards and shields to make sure they are in place and secure.
8. Start skid steer and check all controls and operating functions of the skid steer.



Depth Indicator
Figure 3-2

Adjust Shanks

Refer to Figure 3-2:

See “**Shank Settings**” on page 16 for detailed instructions on how to adjust them.

Shanks should be adjusted fully up or removed when not in use. Tiller depth should be operated with the pointer on 2" (5 cm) or 4" (10.2 cm) depth marks located **below** “FULL DEPTH”:

When shanks are in use, the tiller depth must operate with the pointer on the 2" or 4" 2" (5 cm) or 4" (10.2 cm) depth marks located **above** “FULL DEPTH”.

Direction of Travel

WARNING

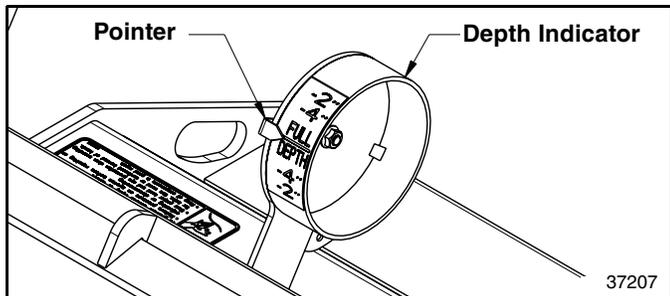
To avoid serious injury or death:

Backup alarm must be in good working order to warn others. When traveling in reverse, drive the power machine at a slower speed to compensate for blind spots.

Tilling can be accomplished traveling forward or backwards. It is the operator’s choice. Backing up while tilling does not leave tracks, but requires the operator to be vigilant about looking back to make sure the skid steer does not back into any objects or people.

Direction of Tine Rotation

The rotor and tines are bi-directional, meaning they can be operated clockwise or counterclockwise. It is the operator’s choice. Operating the rotor turning the same direction as the skid steer travels, known as standard rotation, requires less horsepower and leaves larger particles. Rotating the rotor against the direction of travel, known as reverse rotation, tends to bury more trash, breaks clods into finer particles, and tines dig into the ground more aggressively. See “**Hydraulic Hose Hook-ups**” on page 12 for additional information.



Depth Indicator
Figure 3-3

Operating the Rotary Tiller

1. Park skid steer and tiller on level ground, engage park brake, and raise or lower loader arms until tiller is approximately 6" (15 cm) above the ground.

Refer to Figure 3-3:

2. While watching the pointer on the depth indicator, operating cylinders at the front of the skid steer loader arms to tilt the top of the skid steer hitch forward or backward until depth indicator points to desired tilling depth.

! WARNING

To avoid serious injury or death:

Do not engage hydraulics or operate tiller at high speeds with tiller more than 2" (5 cm) off the ground. Objects inside the rotor housing can be thrown from the tiller causing serious injury to the operator and others near-by.

3. Lower tiller down to within 2" (5 cm) of the ground.
4. With engine speed set at an idle, engage hydraulics to start tiller tines rotating.
5. Disengage park brake, increase engine rpm to full speed, and lower tiller down onto its skid shoes.

IMPORTANT: Making turns with tines in the ground can damage the tiller. Also, moving forward or backward with tines in the ground and rotor stopped can damage the tiller.

NOTE: Tines can be noisy when not engaged in the ground.

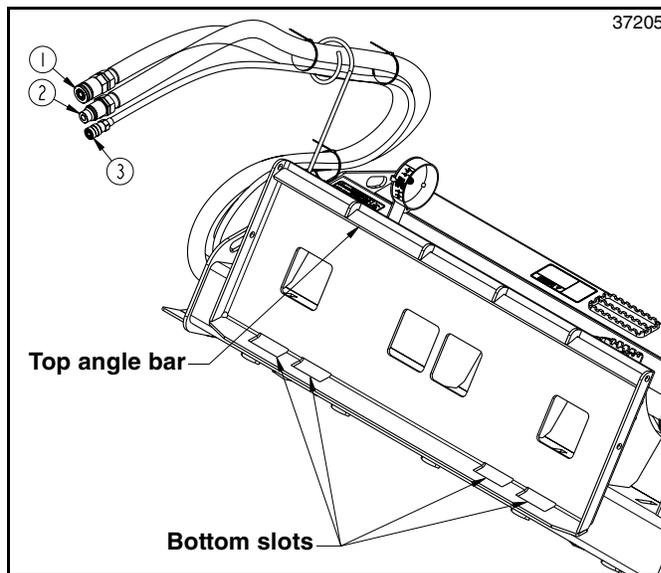
6. Begin tilling straight at a slow ground speed. Ground speed can be increased as conditions warrant.
7. Decrease ground speed if tiller is operating roughly or is walking on top of the ground. If the tiller continues to operate rough, stop tilling and investigate cause. Make necessary repairs before resuming tilling operations.
8. When needed, adjust tilling depth by extending or retracting cylinders at the front of the skid steer loader arms to tilt the hitch to the desired depth shown on the depth indicator.

! WARNING

To avoid serious injury or death:

Tilling with indicator pointer on the 2" mark located below "FULL DEPTH" (front of tiller tipped all the way down) can cause debris to be thrown at the operator. Adjust tiller to the opposite 2" mark located above "FULL DEPTH" or reverse rotor rotation to prevent serious injury or death

9. If tilling 2" deep and debris is being thrown at the operator, reverse rotor rotation or retract cylinders at the front of skid steer loader arms to tilt back of tiller down to the 2" mark located above "FULL DEPTH".
10. After tilling straight for the first 50 feet (15 m), stop tilling operations, turn off engine, engage park brake, raise seat bar if included, move control until seat bar and controls lock, remove ignition key, and dismount to check shank depth and tiller depth.
11. Also, periodically stop skid steer to check for foreign objects wrapped around the rotor shaft. Follow "**Skid Steer Shutdown Procedure**" on page 18 before dismounting skid steer to check for foreign objects.
12. Remove any objects wrapped around the rotor shaft before resuming tilling operations.



Unhook Rotary Tiller
Figure 3-4

Unhook Rotary Tiller

Refer to Figure 3-4:

1. See "**Long-Term Storage**" on page 25 before parking Rotary Tiller for a long period.
2. Park skid steer on a flat, level, solid surface, and lower Rotary Tiller onto the surface.
3. Engage park brake, turn off engine, and remove key to prevent unauthorized starting.
4. If included, raise seat bar and move controls until both are locked.

Section 3: Operating Procedures

5. Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer.
6. With Rotary Tiller resting on the ground, release all hydraulic system pressure before disconnecting hydraulic hoses from the skid steer. See Skid Steer Operator's Manual for instructions on how to release skid steer hydraulic system pressure.
7. Disconnect hydraulic hoses (#1, #2, & #3) from skid steer. Store hoses on the Rotary Tiller frame to keep dirt away from the couplings.
8. Disengage lock pins to clear bottom slots in hitch plate.
9. Start skid steer engine and tilt top of skid steer quick hitch slightly forward toward the Rotary Tiller.
10. Slowly lower skid steer quick hitch until hitch and Rotary Tiller's top angle bar have separated.
11. Back skid steer slowly away while making sure the skid steer quick hitch does not interfere with the tiller.
12. Shut skid steer down and check overturn stability of the unhooked Rotary Tiller. Refer to "**Skid Steer Shutdown Procedure**" on page 18. Make sure the unit will not tip over. If needed, add bracing to keep unit from overturning.

General Operating Instructions

NOTE: Tines can be noisy when not engaged in the ground.

First completely familiarize yourself with the Operator's Manual! Then complete the Operator's checklist, properly attach the tiller to your skid steer, and extend or retract cylinders at the front of the loader arms to set the tiller to till "FULL DEPTH" to level the tiller.

It's now time for a running operational safety check. Make certain that the skid steer park brake is engaged, auxiliary hydraulics are disengaged, and the Rotary Tiller is resting on the ground. Back off engine rpm to approximately one-quarter throttle. Never engage auxiliary hydraulics at full engine rpm. Damage to the unit could occur. Using the hydraulic lift control, lift the Rotary Tiller about 2" (5 cm) off the ground and then engage auxiliary hydraulics. Increase throttle speed if everything is running smoothly until you have reached full operating speed. Immediately shut the tiller down if unit vibrates excessively or makes an unacceptable noise. If everything is running fine, disengage skid steer auxiliary hydraulics to stop the tiller.

Now that you have properly prepared yourself and your tiller, it's time to travel to your work site. **You should have already cleaned this site of any large limbs, rocks, trash, metal or other debris.** Raise the Rotary Tiller off the ground, release the park brake, and travel to your work site starting point. Travel speed should be between 3 and 5 mph and the tiller height should be positioned for best road view.

Once at the site, idle the skid steer engine, lower tiller until tines are close to the ground but not on the ground, rotate skid steer hitch to preferred depth setting, engage auxiliary hydraulics, and then increase engine speed until loader is at full operating speed. Begin traveling forward or backward while gently lowering the Rotary Tiller into the ground. Make slight changes to the loader's ground speed as you travel to determine the desired ground finish. Generally, a slower speed results in a finer finish, while a higher speed results in a coarser finish. Excessive ground speed may cause the tines to stop rotating. Rotary Tillers do not perform well in wet sticky soil and tall grass. Tilling should be done traveling straight. Raise tiller just above ground level and disengage hydraulics to the tiller to make turns.

Travel about 50 ft. and then stop to check your results. When stopping, remember to lift the tiller out of the ground, stop the skid steer, reduce engine speed, turn hydraulics to the tiller off, set the park brake, shut off the skid steer, and remove the key. Inspect the finish and determine what, if any, additional adjustments need to be made. Check for any foreign objects that may be wrapped around the tines.

If soil texture is too coarse, reduce your ground speed or increase ground speed if soil texture is too fine. If tines are not digging into the ground as expected, you can increase tine aggression by switching hydraulics to reverse rotor rotation. This will also allow the tiller to cover more trash. Switch hydraulics to forward rotor rotation will consume less power and leave more trash on top to help slow down moisture evaporation.

Keep in mind, you can travel forward or backward while tilling. Traveling forward will give you a better view of your work but will leave tracks in the fresh tilled soil. Traveling backward will cover your tracks but make it harder to see where you are going. When backing up, make sure the safety back-up alarm is working. Also, it is good to install a rear view mirror or back-up camera. Maintain cleanliness of lens or mirror.

For other problems that may arise, you will want to refer to the "**Troubleshooting Chart**" on page 29.

When you are done tilling for the day, make sure you use proper skid steer shut down procedures before you get off of the skid steer. If you are detaching your tiller, make sure you park it on a dry and level surface leaving it clean and ready for the next use. When you put your tiller away for the season, make sure you refer to the "**Long-Term Storage**" on page 25.

With a little practice and a few adjustments, you will soon be achieving the results you want with your Kubota Rotary Tiller. See "**Specifications & Capacities**" on page 27 and "**Features & Benefits**" on page 28 for additional information and performance enhancing options.

Flat Face Couplers

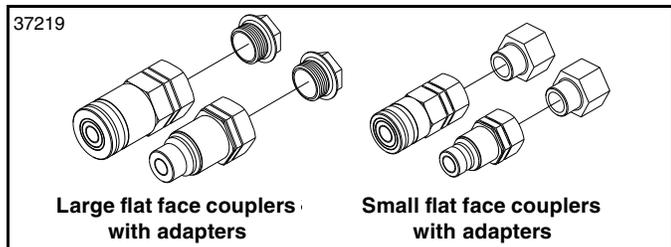
Refer to Figure 4-1:

LARGE FLAT FACE COUPLERS LP-316-289A

Large flat face couplers consist of one large flat face male coupler, one large flat face female coupler, and two adapters.

SMALL FLAT FACE COUPLERS LP-316-290A

Small flat face couplers consist of one small flat face male coupler, one small flat face female coupler, and two adapters.



Quick Release Couplers Shown
Figure 4-1

Operator Protective Door (Optional)

Refer to Figure 4-2:

WARNING

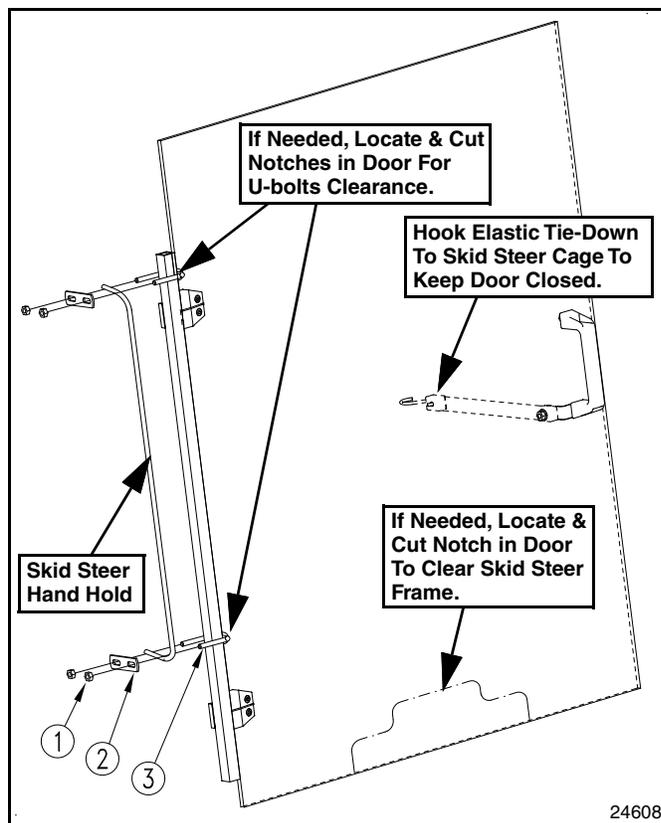
To avoid serious injury or death:

Do not drill holes in the ROPS (Roll Over Protection System) to attach this Operator Protective Door. Drilling unapproved holes in the ROPS can weaken the structure.

Protective Door Assembly LP-326-024A

Instructions below are for installing Kubota's optional Operator Protective Door. See your skid steer Operator's Manual for installation instructions of their Operator Protective Door.

1. Cut notches in protective door as needed to provide clearance around u-bolts and skid steer frame.
2. Install Protective Door to the skid steer's hand hold with two u-bolts (#3), flat bars (#2), and four nuts (#1) as shown. Tighten nuts to correct torque.



Operator Protective Door
Figure 4-2

Section 5: Maintenance & Lubrication

Maintenance

Proper servicing and adjustment are key to the long life of any attachment. With careful inspection and routine maintenance, you can avoid costly downtime and repair.

The parts on your Rotary Tiller have been specially designed and should only be replaced with genuine Kubota parts. Do not alter the tiller in a way which will adversely affect its performance.

Replace worn, damaged or illegible safety labels by obtaining new labels from your Kubota dealer.

DANGER

To prevent serious injury or death:

- Do not go near or under raised loader arms without first securing loader arms in the raised position with an approved lift-arm support.
- Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to the hydraulics is off.

WARNING

To avoid serious injury or death:

- Make sure controls are all in the neutral position or park before starting the power machine.
- Check hitch fit-up frequently. An improper fit-up can result in the attachment falling from the loader hitch plate.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not alter attachment or replace parts on the attachment with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the attachment. Replace parts only with genuine OEM parts.

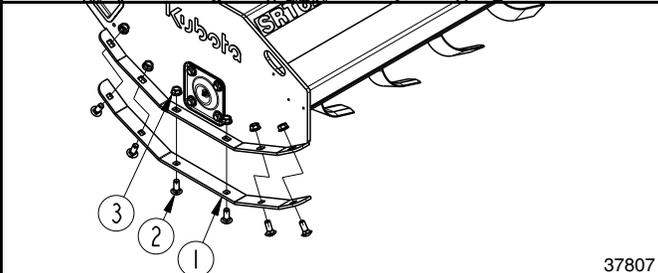
Skid Shoes

Inspect skid shoes for wear and replace as needed:

1. Disengage hydraulics to Rotary Tiller, park skid steer on a level solid surface, and set park brake.
2. With tiller 6" above ground, rotate hitch until pointer on depth indicator points to "FULL DEPTH"
3. Lower tiller until tines are resting on solid ground. Turn off engine and remove ignition key. If included, raise seat bar and move controls until both are locked.
4. Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer.

Refer to Figure 5-1:

5. Replace non drive skid shoe as follows:
 - a. Remove hex flange nuts (#3), carriage bolts (#2), and non drive skid shoe (#1). Discard skid shoe. inspect carriage bolts and replace if worn excessively. Save hex flange nuts for reattachment of new skid shoe.
 - b. Attach non drive skid shoe (#1) to the right side with new/existing 1/2"-13 x 1 1/4" GR5 carriage bolts (#2) and hex flange nuts (#3).
 - c. Tighten flange nuts (#3) to the correct torque.

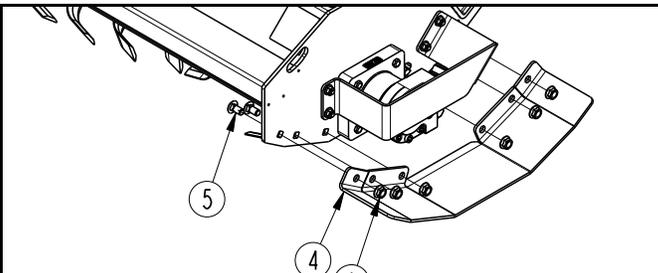


Item	Part No.	Part Description	37807
1	321-122D	NON DRIVE SKID SHOE	
2	802-214C	1/2" CARRIAGE BOLT	
3	803-293C	1/2" HEX WHIZ NUT	

**Non Drive Skid Shoe
Figure 5-1**

Refer to Figure 5-2:

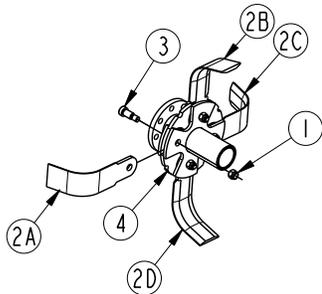
6. Replace motor protected skid shoe as follows:
 - a. Remove hex flange nuts (#6), carriage bolts (#5), and motor protected skid shoe (#4). Discard skid shoe. inspect carriage bolts and replace if worn excessively. Save hex flange nuts for reattachment of new skid shoe.
 - b. Attach motor protected skid shoe (#4) to the left side with new/existing 5/8"-11 x 1 1/4" GR5 carriage bolts (#5) and hex flange nuts (#6).
 - c. Tighten flange nuts (#6) to the correct torque.



Item	Part No.	Part Description	37807
4	321-217D	MTR SKID SN_+	
4	321-117D	MOTOR PROTECTED SKID SHOE SN_-	
5	802-306C	5/8" CARRIAGE BOLT	
6	803-196C	5/8" HEX WHIZ NUT	

**Motor Protected Skid Shoe
Figure 5-2**

37209



Item	Part No.	Part Description
1	803-147C	NUT HEX NYLOCK 1/2-13
2	820-537C	TINE, BI-DIRECTIONAL TILLER
3	842-233C	SHLDR BLT 5/8DX1L 1/2-13

Tine Replacement
Figure 5-3

Tiller Tines

Refer to Figure 5-3:

WARNING

To avoid serious injury or death:

Used tines can be very sharp. Always wear gloves when handling tines to protect against cuts.

IMPORTANT: When ordering tines, be sure to order genuine Kubota replacement tines only.

Inspect tiller tines (#2A to #2D) on all flanges (#4) frequently for wear and loose shoulder bolts (#3). Tighten loose shoulder bolts and replace tines that are worn out.

Tines that rotate primarily in one direction and still have a good cutting edge on the opposite side and can be taken off and turned around to increase that tine's life.

Follow instructions for "**Replacing Tiller Tines**" below when replacing used tines with new tines.

Follow instructions for "**Reversing Tiller Tines**" on the right side of this page when turning used tines around.

Replacing Tiller Tines

Refer to Figure 5-3:

IMPORTANT: Remove and install one tine at a time to ensure they are oriented correctly when installed.

1. Remove one nylock nut (#1), shoulder bolt (#3), and used tine (#2A).
2. Replace shoulder bolt (#3) if it shows any wear.
3. Attach new tine (#2A) to mounting flange (#4) making certain it is positioned so that the bent end is oriented in the same direction as the removed tine.
4. Replace 1/2"-13 shoulder bolt (#3) and hex nylock nut (#1). Tighten nylock nut to the correct torque.
5. Repeat steps 1-4 until all used tines have been replaced with new tines.

Reversing Tiller Tines

Instructions for reversing tines are different depending on whether tines are reversed only on some flanges or if all the tines on the rotor are being reversed. Follow the set of instructions below that apply.

Reverse All Tines on The Rotor

Refer to Figure 5-3:

IMPORTANT: Remove and install one tine at a time to ensure they are oriented correctly when installed.

1. Remove one nylock nut (#1), shoulder bolt (#3), and tine (#2A).
2. Replace shoulder bolt (#3) if it shows any wear.
3. Rotate bent end of tine (#2A) 180° and reattach to same slot in flange (#4). Make certain it is positioned so that the bent end is oriented in the opposite direction it was before removing it.
4. Replace 1/2"-13 shoulder bolt (#3) and nylock nut (#1). Tighten nylock nut to the correct torque.
5. Repeat steps 1-4 until all tines on the rotor have been replaced.

Reverse Tines on a Single Flange

Refer to Figure 5-3:

IMPORTANT: Never have more than two tines removed at a time to ensure tines are reinstalled pointing alternating left and right correctly and to maintain the correct rotary tine spiral pattern.

Always start with a tine that is oriented with the bent end pointing in the same direction as tine (#2A) and work your way around flange (#4) clockwise as follows:

1. Remove nylock nut (#1), shoulder bolt (#3), and tine (#2A). Lay tine (#2A) aside as it will be the last tine installed on flange (#4).
2. Replace shoulder bolt (#3) if it shows any wear.
3. Remove tine (#2B) and attach it where tine (#2A) was with bent end oriented in the same direction as removed tine (#2A). Tighten nylock nut (#1) to the correct torque.
4. Remove tine (#2C) and attach it where tine (#2B) was with bent end oriented in the same direction as removed tine (#2B). Tighten nylock nut (#1) to the correct torque.
5. Remove tine (#2D) and attach it where tine (#2C) was with bent end oriented in the same direction as removed tine (#2C). Tighten nylock nut (#1) to the correct torque.
6. Attach tine (#2A) where tine (#2D) was with bent end oriented in the same direction as removed tine (#2D). Tighten nylock nut (#1) to the correct torque.
7. Repeat steps 1-6 for remaining flanges to be reworked.

Section 5: Maintenance & Lubrication

Long-Term Storage

Clean, inspect, service, and make necessary repairs to the implement when storing it for long periods and at the end of the season. This will help ensure the unit is ready for field use the next time you hook-up to it.

 **DANGER**

To avoid serious injury or death:

Make adjustments to the attachment after it has been properly attached to a power machine and secured with solid supports in the up position. Never work around or under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated or if hydraulic lines burst even when power to hydraulics is shut off.

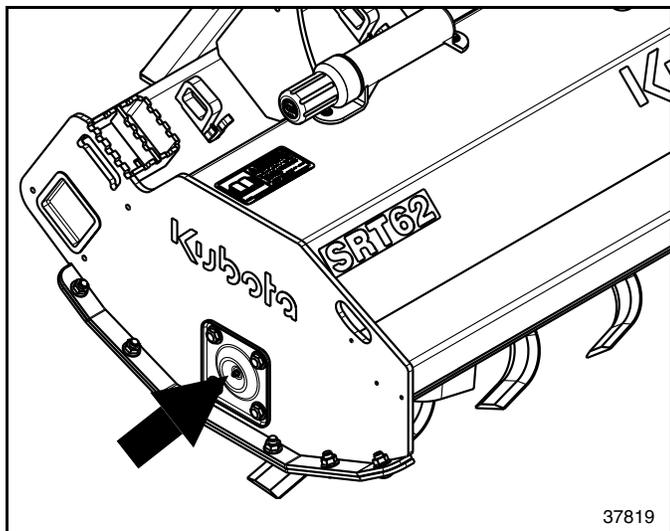
1. Clean off any dirt and grease that may have accumulated on the tiller and moving parts. Scrape off compacted dirt from bottom of tiller and then wash surface thoroughly with a garden hose.
2. Check tines and tine bolts for wear. Replace if necessary. Refer to “**Tiller Tines**” on page 24.
3. Inspect tiller for loose, worn, or damaged parts and adjust or replace as needed.

Touch-Up Paint	
Part No.	Part Description
821-070C	Gloss black enamel spray can
821-070CTU	Gloss black enamel bottle with brush
821-070CQT	Gloss black enamel quart
821-070CGL	Gloss black enamel gallon

4. A coating of oil may be applied to worn surfaces in lieu of painting to minimize oxidation.
5. Replace all damaged or missing decals.
6. Lubricate as noted under “**Lubrication Points**” below.
7. Store tiller on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer tiller life.
8. Follow all “**Unhook Rotary Tiller**” instructions on page 20 when unhooking the tiller from the skid steer.

Lubrication Points

Lubrication Legend	 Multi-purpose spray lube	 Multi-purpose grease lube	 Multi-purpose oil lube	 50 Hrs	Intervals in hours at which lubrication is required



	 8 Hours
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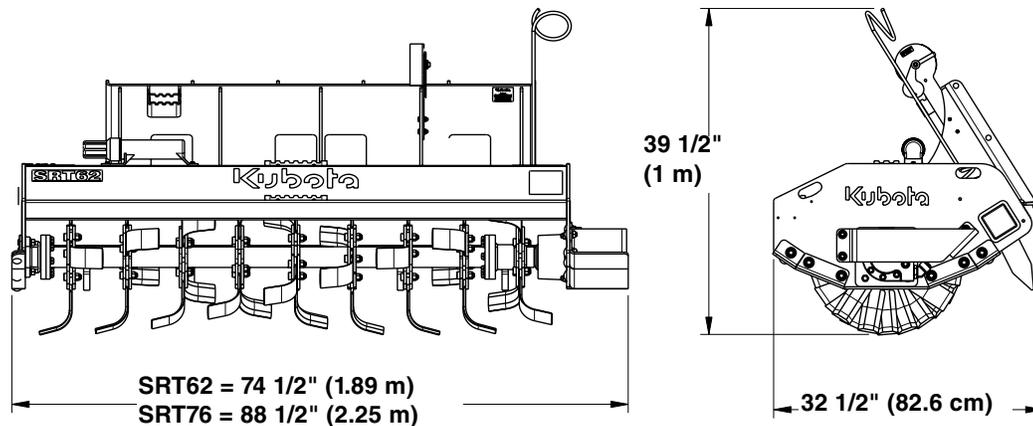
Bearing On Right End Of Rotor Shaft

Type of Lubrication: Multi-Purpose

Quantity = As Required

SRT62 & SRT76

Specifications & Capacities			
		SRT62	SRT76
Weight	lbs (kg)	785 (356)	880 (399)
Tilling width	in (m)	62 (1.57)	76 (1.93)
Overall width	in (m)	74 1/2 (1.89)	88 1/2 (2.25)
Tilling depth	in (cm)	2, 4, & 5.6 (5.1, 10.2, & 14.2)	2, 4, & 5.6 (5.1, 10.2, & 14.2)
Depth indicator (Patent-pending)		Depth indicator (Viewable from operator seat)	
Hydraulic requirements	gpm(Lpm)	14-23 (53-87)	
Hydraulic pressure range	psi (mPa)	2800 (19.3) min. / 4500 (31) max.	
Motor rpm (Depending on skid steer flow and pressure)		143 to 245 rpm	
Motor case drain		Standard	Standard
Number of rotor flanges		9	11
Number of tines per flange		4	4
Tine construction		Bi-directional forged hardened "C" shaped	
Direction of travel		Bi-directional (forward and reverse)	
Hitch type		Universal Quick Attach Hitch	
Side shift capabilities	in (cm)	6 (15.2) To the right	
Skid shoes		Replaceable	
Rotor swing diameter	in (cm)	18.3 (46.5)	
Number of shanks		5	6
Shank retainers		Spring loaded retaining clips 2	
Shank construction	in (mm)	3/4 x 2 1/2 x 16 (19 x 64 x 406) Adjustable hardened steel with 3 adjustable depths	
Construction	Deck plate End plates	1/4 (6) steel plate 3/8 (10) steel plate	



SRT62 & SRT76

Features	Benefits
6" (15 cm) Offset capability	Offset allows operator to till closer to fences, buildings, sidewalks, and other objects. Hook skid steer hitch to the left side of tiller hitch plate to side shift tiller 6" to the right. Hook skid steer hitch to the right side of tiller hitch plate to center tiller on the skid steer.
Depth indicator	Operator can tell how deep the tiller is working in the soil without leaving the seat.
Hydraulic depth control	Operator can rotate skid steer hitch on the tiller skid shoes to any depth indicated on the depth indicator. Operator does not have to adjust skid shoes to set tiller depth.
Rotor can be operated forward or reverse	Allows operator to choose forward or reverse tilling by reversing hydraulic flow. Reverse tilling is good for breaking up hard ground and covering trash.
Case drain hose	Reduces back pressure on motor which increases power for tilling and protects outer seal.
Heavy duty deck and end plates	1/4" (6 mm) Deck and 3/8" (10 mm) end plates are built tough.
Replaceable skid shoes	Keep bottom of end plates from wearing.
Bolt in spiral design rotor	Reduces bouncing of tiller.
Bolt-on tiller tines designed to attach with one bolt per tine	Makes replacing tines fast and easy.
Bi-directional hardened boron steel tines	Tiller tines are built tough to last. Tines are sharpened on both edges to cut into the soil while operating forward or reverse. If bi-directional tines are used primarily rotating in one direction, they can be reversed (turned around) to extend their life.
Motor guard	Protects motor, fittings, and hydraulic hoses from damage caused by bumping into objects around the motor.
Adjustable scarifier shanks constructed of hardened steel	These shanks are built tough to rip up hard soil. They make tilling easier in hard soil.
Optional small flat face couplers or large flat face couplers	Fits a wider variety of skid steers.

Troubleshooting Chart

Problem	Cause	Solution
Machine makes intermittent clicking noise	Normal noise if rotor is turning with tines out of the ground.	Normal
Rotor stalls (will not turn)	Quick couplings did not engage.	Reconnect quick couplings to skid steer.
	Skid steer hydraulic flow is not engaged.	Engage skid steer hydraulics.
	Traveling too fast for tilling conditions.	Slow down ground speed.
	Hydraulic flow from skid steer is inadequate	Check hydraulic flow at the tiller.
	Skid steer is low on hydraulic oil.	Add hydraulic oil to skid steer.
	Hydraulic hose has a break.	Replace hydraulic hose.
	Hydraulic hose has an obstruction.	Remove obstruction or replace hose.
	Hydraulic motor is damaged.	Repair hydraulic motor.
	Hydraulic line is pinched	Fix pinched line.
	Hydraulic lines have air in them.	Engage hydraulics to tiller until air is purged from hydraulic lines.
Tiller makes excessive noises or vibrates excessively	Obstacles are entangled in tines and/or rotor.	Reverse tines for 2 seconds and then switch back to original direction may clear obstacles. If required, manually clear rotor and/or tines of obstacles.
	Obstacles are entangled in tines and/or rotor.	Clear rotor and/or tines of obstacles.
Tillage depth is insufficient	End bearing is worn or damaged.	Replace end bearing.
	Tines are bent or broken.	Replace damaged tines.
	Tiller is carried by skid steer.	Lower skid steer arms.
	Skid steer has insufficient power.	Increase skid steer engine speed.
	Tine cutting edges are not sharp.	Replace or reverse tines.
	Tines are bent.	Replace tines.
	Tines are incorrectly installed.	Check tine placement.
Soil texture too coarse	Shanks are set too deep.	Raise or remove shanks.
	Obstacles are entangled in tines and/or rotor.	See last solution for "Rotor stalls"
Soil texture too fine	Motor speed is too slow. Ground speed is too fast.	Increase skid steer engine to full speed. Decrease ground speed.
Soil texture too fine	Ground speed is too slow.	Increase ground speed.
Machine skips or leaves crop residue	Tines are badly worn or broken.	Replace worn tines.
	Ground speed is too fast for conditions.	Reduce ground speed.
	Rotor speed is too slow.	Increase engine speed.
	Direction of rotor rotation is not efficient.	Reverse rotor direction.
Tines operating behind skid steer tires show increased wear	Skid steer tires can compact soil causing tines that operate in the compacted soil to have increased wear.	Considered as normal wear. Replace worn tines.
Tines balling up with soil	Tines are worn or bent.	Replace tines.
	Tines are incorrectly installed.	Install tines correctly.
	Skid steer ground speed is too fast.	Decrease skid steer ground speed.
	Soil is too wet.	Wait until soil dries.
Tiller bumping on ground	Obstacles are entangled in tines and/or rotor.	See last solution for "Rotor stalls"
	Tines are not installed correctly.	Install tines correctly.
	Tines are worn or bent.	Replace tines.

Torque Values Chart for Common Bolt Sizes													
Bolt Size (inches)	Bolt Head Identification						Bolt Size (Metric)	Bolt Head Identification					
	Grade 2		Grade 5		Grade 8			Class 5.8		Class 8.8		Class 10.9	
in-tpi ¹	N · m ²	ft-lb ³	N · m	ft-lb	N · m	ft-lb	mm x pitch ⁴	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12	M 5 X 0.8	4	3	6	5	9	7
1/4" - 28	8.5	6	13	10	18	14	M 6 X 1	7	5	11	8	15	11
5/16" - 18	15	11	24	17	33	25	M 8 X 1.25	17	12	26	19	36	27
5/16" - 24	17	13	26	19	37	27	M 8 X 1	18	13	28	21	39	29
3/8" - 16	27	20	42	31	59	44	M10 X 1.5	33	24	52	38	72	53
3/8" - 24	31	22	47	35	67	49	M10 X 1.25	35	26	53	39	76	56
7/16" - 14	43	32	67	49	95	70	M12 X 1.75	58	42	91	67	125	93
7/16" - 20	49	36	75	55	105	78	M12 X 1.5	60	44	95	70	130	97
1/2" - 13	66	49	105	76	145	105	M12 X 1	90	66	105	77	145	105
1/2" - 20	75	55	115	85	165	120	M14 X 2	92	68	145	105	200	150
9/16" - 12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	215	160
9/16" - 18	105	79	165	120	235	170	M16 X 2	145	105	225	165	315	230
5/8" - 11	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245
5/8" - 18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" - 10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" - 16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" - 9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" - 14	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780
1" - 8	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845
1" - 12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1-1/8" - 7	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710
1-1/8" - 12	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700
1-1/4" - 7	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220
1-1/4" - 12	750	555	1680	1240	2730	2010	¹ in-tpi = nominal thread diameter in inches-threads per inch ² N · m = newton-meters ³ ft-lb= foot pounds ⁴ mm x pitch = nominal thread diameter in millimeters x thread pitch						
1-3/8" - 6	890	655	1990	1470	3230	2380							
1-3/8" - 12	1010	745	2270	1670	3680	2710							
1-1/2" - 6	1180	870	2640	1950	4290	3160							
1-1/2" - 12	1330	980	2970	2190	4820	3560							

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
 All locknuts or lubricated fasteners: Use 75% of torque value. (i.e. 1/2"-13 GR5 = 76 ft-lb; 75% of 76 or .75 x 76 = 57 ft-lb)

Warranty

Land Pride warrants to the original purchaser that this Land Pride product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Hydraulic Motor: Two years Parts and Labor.

Tines: Considered wear items.

Rental or Commercial Use: 90 days on overall unit and hydraulic components.

This Warranty is limited to the repair or replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Land Pride's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized Land Pride dealer. Land Pride reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Land Pride within 30 days from the date of original purchase.

IMPORTANT: The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

Model Number _____

Serial Number _____

Legal Disclaimer

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