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Rotary Tillers
SRT62 & SRT76

321-095M
Operator’s Manual

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.

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Printed in the United States of America.
These are common practices that may or may not be applicable to the products described in this manual.

**Safety at All Times**

Thoroughly read and understand the instructions given in this manual before operation. Refer to the “Safety Label” section, read all instructions noted on them.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

▲ The operator must not use drugs or alcohol as they can change the alertness or coordination of that person while operating equipment. The operator should, if taking over-the-counter drugs, seek medical advice on whether he/she can safely operate the equipment.

▲ Operator should be familiar with all functions of the unit.

▲ Make sure all guards and shields are in place and secured before operating implement.

▲ Keep all persons away from equipment and work area.

▲ Start skid steer with steering levers and hydraulic controls in neutral.

▲ Operate implement and loader arms from the driver’s seat only.

▲ Dismounting from a moving unit can cause serious injury or death.

▲ Do not allow anyone to stand between skid steer and implement while hooking-up to implement.

▲ Keep hands, feet, and clothing away from power-driven parts.

▲ Watch out for objects overhead and along side such as fences, buildings, wires, trees, limbs, etc., while transporting and operating attached implement.

▲ Detach and store implement in an area where children normally do not play. Secure implement by using blocks and supports.

**Look For The Safety Alert Symbol**

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, 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. The signal words are:

▲ **DANGER**

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

▲ **WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

▲ **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**For Your Protection**

▲ Thoroughly read and understand the “Safety Label” section, read all instructions noted on them.

**Avoid Underground Utilities**

▲ Dig Safe, Call 811.

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.

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**Parts Manual QR Locator**

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

**Dealer QR Locator**

The QR code on the left will link you to available dealers for Land Pride products. Refer to Parts Manual QR Locator on this page for detailed instructions.
These are common practices that may or may not be applicable to the products described in this manual.

**Shutdown and Storage**

**Before leaving operator’s seat:**
- Lower lift arms and put attachment flat on the ground.
- Turn off engine and engage parking brake.
- If included, raise seat bar and move controls until both lock.
- Remove key to prevent unauthorized starting.
- Use steps, grab-handles and anti-slip surfaces when getting on or off the loader.
- Detach and store implements in an area where children normally do not play. Secure implement by using blocks and supports.

**Transport Safely**

- Comply with state and local laws.
- Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- Avoid contact with any over head utility lines or electrically charged conductors.
- Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down ramps with load on “uphill” side of skid steer.
- Engage parking brake when stopped on an incline.

**Practice Safe Maintenance**

- Understand procedure before doing work. Use proper tools and equipment, refer to Operator’s Manual for additional information.
- Work in a clean dry area.
- Lower attached implement to the ground and follow all shutdown procedures before leaving the operator’s seat to perform maintenance.
- Allow implement to cool completely before working on it.

**Use Safety Lights and Devices**

- Slow moving self-propelled equipment, and towed implements 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.

**IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.

- Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if towed trailer is not equipped with brakes.

- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.

- Do not grease or oil implement while it is in operation.

- Inspect all parts. Make sure parts are in good condition & installed properly.

- Remove buildup of grease, oil, or debris.

- Remove all tools and unused parts from implement 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 Protective Equipment**
- Wear protective clothing and equipment appropriate for the job. Clothing should be snug fitting 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 equipment safely requires the operator's full attention. Avoid wearing radio headphones while operating machinery.

**Avoid High Pressure Fluids Hazard**
- Escaping fluid under pressure can penetrate the skin causing serious injury.  
- Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.  
- Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.  
- Use a piece of paper or cardboard, 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, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.

**Tire Safety**
- Tire changing can be dangerous and should be performed by trained personnel using the correct tools and equipment.  
- 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.  
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.

**Use Seat Belt and ROPS**
- Operate only skid steers equipped with a Roll-Over Protective Structure (ROPS) and seat belt.  
- Fasten seat belt snugly and securely to help protect against serious injury or death from falling and skid steer overturn.  
- Wearing protective equipment such as safety shoes, safety glasses, hard hat, and ear plugs is highly recommended.

**Keep Riders Off Machinery**
- Never carry riders or use machinery as a personlift.  
- Riders obstruct operator's view.  
- Riders could be struck by foreign objects or thrown from the machine.  
- Never allow children to operate equipment.
Important Safety Information

Safety Labels

Your Rotary Tiller comes equipped with all safety labels in place. They were designed to help you safely operate your implement. 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 Land Pride 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 Land Pride. 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 the area the label is to be placed.
b. Spray soapy water on the surface where the label is to be placed.
c. Peel backing from label. Press firmly onto the surface.
d. Squeeze out air bubbles with the edge of a credit card or with a similar type straight edge.

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818-858C

Warning: General Safety

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838-293C

Warning: Read & Understand Manual
Important Safety Information

SRT62 & SRT76 Rotary Tillers 321-095M

Warning: Thrown Object Hazard

Rotating Tines Hazard

Warning: High Pressure Fluid Hazard

Anti-slip: 10" x 5"
Introduction

Land Pride 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 machine.

Application

Land Pride’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 residential and commercial applications. The Land Pride SRT is available in 62” and 76” widths and can be offset 6” to the right for tilling next to fences, buildings, and sidewalks.

The Land Pride SRT features a bi-direction rotor that can spin up to 245 RPM, depending on motor. The SRT62 is offered with a low-flow motor (14 to 23 gpm) or high-flow motor (23 to 40 gpm) to fit a wide range of skid steers. The SRT76 is available with a high-flow motor.

Land Pride’s unique patent-pending depth indicator provides the operator with a clear, visible indication of 2”, 4” & 5 1/2” 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” thick channel, assist with breaking virgin ground. P

See “Specifications & Capacities” on page 25 and “Features & Benefits” on page 26 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 facing forward in skid steer seat unless otherwise stated.

Definitions

**IMPORTANT:** A special point of information related to the following topic. Land Pride’s intention is this information must be read & noted before continuing.

**NOTE:** A special point of information that the operator should be aware of before continuing.

Owner Assistance

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.

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

Serial Number

Model No. _____________ Serial No. _______________

For quick reference and prompt service, record model and serial number in the spaces provided above and again on warranty page 29. Always provide model number and serial number when ordering parts and in all correspondences with your Land Pride dealer. Refer to Figure 1 for location of your serial number plate.

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Skid Steer Requirements
The Rotary Tiller is designed to attach to skid steer loaders with the following minimum requirements:

- **SAE lift capacity** ............... 1200 lbs.
- **Hitch type** ........................ Universal Quick Hitch

Hydraulic flow rates
- SRT62 low flow ............... 14 - 23 gpm
- SRT62 & SRT76 high flow ........... 23 - 40 gpm

Hydraulic pressure rates (min. - max. psi)
- SRT62 low flow motor .............. 2800 - 4500 psi
- SRT62 high flow motor .............. 2000 - 4500 psi
- SRT76 high flow motor .............. 2300 - 4500 psi

Hydraulic hoses ............... 2 - Hydraulic outlets
Case drain hose ............... 1 - Hydraulic outlet
Skid steer weight ............... See warning below

**WARNING**
Ballast may need to be added to your skid steer to maintain steering control and to prevent tipping of the skid steer. Refer to your skid steer Operator’s Manual to determine proper ballast requirements.

**IMPORTANT:** Skid steer must be equipped with a case drain system.

**IMPORTANT:** The tiller is capable of throwing product inside the cab when top of tiller hitch is rotated forward to the 2” depth setting and tines are set to operate rotating in the direction that will kick product towards the cab. In this situation, Land Pride recommends using a protective door to protect operator from thrown objects.

A universal Operator Protective Door is available from Land Pride or use a protective door provided by your skid steer manufacture. Refer to “Operator Protective Door (Optional)” on page 20 for additional information.

Torque Requirements
See “Torque Values Chart” on page 28 to determine correct torque values when tightening hardware.

Rotary Tiller Lifting Points
**Refer to Figure 1-1:**
The tiller is provided with four lifting points to hook a sling chain. See arrows in Figure 1-1 for location of lifting points.

---

**CAUTION**
To avoid bodily injury caused by accidental falling, securely support tiller on safe support stands or blocks.

This tiller is shipped almost completely assembled. To speed up assembly task and to make the job as safe as possible, the following should be completed:

- Speed up assembly tasks and make the job safer by having all needed parts and equipment readily at hand.
- Read and understand the Operator’s Manual. An understanding of how it works will aid in the assembly and setup.
- Go through the Pre-Assembly Checklist below before assembling the Rotary Tiller.

### Pre-Assembly Checklist

<table>
<thead>
<tr>
<th>✔</th>
<th>Check</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>Make sure miscellaneous assembly tools are on hand.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>□</td>
<td>Have a forklift or hoist with properly sized chains and safety stands on hand capable of lifting 2500 lbs.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>□</td>
<td>Have a minimum of two people available during assembly.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>□</td>
<td>Check to see if ballast is needed for the skid steer. See Specifications on page 26 for unit weights.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>□</td>
<td>Make sure all major components and loose parts are shipped with the machine.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>□</td>
<td>Double check to make sure all fasteners &amp; pins are installed in the correct location. Refer to the Parts Manual if unsure.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>□</td>
<td>NOTE: All assembled hardware from the factory has been installed in the correct location. Remember location of a part or fastener if removed. Keep parts separated.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>□</td>
<td>Make sure working parts move freely, bolts are tight and cotter pins are spread.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>□</td>
<td>Make sure all grease fittings are in place and lubricated.</td>
<td>Page 24</td>
</tr>
<tr>
<td>□</td>
<td>Make sure all safety labels are correctly located and legible. Replace if damaged.</td>
<td>Important Safety Information</td>
</tr>
</tbody>
</table>
Section 1: Assembly & Set-up

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” 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” 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 hex whiz nuts (#6). Gusset location is operator preference. Draw hex 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 hex whiz nut (#2).
3. Tighten hex 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.
Hydraulic Hoses & Couplings  
**Refer to Figure 1-4:**

| NOTE: Quick couplers (#3 & #4) are optional and can be purchased from Land Pride 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.
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:**

1. Raise lock pins on skid steer hitch for hook-up.
2. **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. An improperly attached tiller can fall without warning.
3. Rotate top of skid steer tilt arms slightly forward.
4. 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.
5. Rotate top of skid steer tilt arms back until skid steer hitch plate makes full contact with tiller hitch plate.
6. Lower lock pins on skid steer hitch. Make sure lock pins go through bottom slots in tiller hitch and are in lock down position.

**DANGER**  
A Crushing Hazard exists when hooking-up equipment. Do not allow anyone to stand between skid steer and implement while hooking-up to implement. Do not operate hydraulics while someone is near the skid steer or implement.

**CAUTION**  
Make sure the skid steer hitch is properly attached to the Rotary Tiller hitch. It must be secured under the tiller’s top angle bars and lock handles must be locked down with locking pins extending fully through bottom slots in the tiller hitch. An improperly attached tiller can fall without warning.

| 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”. |

1. Check for and remove all debris in the skid steer and tiller hitch point areas.
Hydraulic Hose Hook-ups

**DANGER**
Hydraulic fluid under high pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin or eyes, it must be treated by a doctor familiar with this type of injury within a few hours or gangrene may result. DO NOT DELAY.

**IMPORTANT:** Collect and dispose all oil spills and leaks in an environmentally safe manner.

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

**IMPORTANT:** Make sure all coupler fittings are clean before connecting them together.

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 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.
Tiller Depth
The tiller can be adjusted to five different positions, 3 depths (2", 4" & 5 1/2"), by rotating the skid steer hitch plate forward or backward.

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.

**Full Depth Tilling, Tiller 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.

**4" Tilling Depth, Tiller 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" 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.

**4" Tilling Depth, Tiller 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" 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.
2” Tilling Depth, Tiller 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” 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.

---

2” Tilling Depth, Tiller 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**

*Do not use reverse rotation when backing up with tiller rotated forward to till 2” deep. The tiller can throw objects at the operator causing serious injury.*

**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.
Shank Adjustments

DANGER
Make adjustments to the Rotary Tiller after it has been properly attached to a skid steer and secured with solid supports. 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
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 switch 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 16.

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 14 for detailed instructions.
8. Fasten shank in place with spring retainer clip by inserting clip into the tube slot behind the shank until its snaps into place.
Shank Settings
The shanks can only be used with pointer on depth indicator pointing at the 2” and 4” 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” & 2” 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” depth above “FULL DEPTH”, the shanks will penetrate the ground 4 7/8” when set in the first notch, 3 1/8” when set in the second notch, and 1 3/8” when set in the third notch.

The skid steer can travel forward or backward when tiller is rotated back or forward to till 4” 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” depth above “FULL DEPTH”, the shanks will penetrate the ground 5 3/4” when set in the third notch, 4 1/8” when set in the second notch, and 2 3/8” when set in the first notch.

The skid steer should only travel forward when tiller is rotated back to till 2” deep. If one was to travel backwards while tilling, the skid shoes would dig into the ground.
Pre-Start Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Rotary Tiller. Therefore, it is absolutely essential that no one operates the Rotary Tiller without first having read, fully understood, and become totally familiar with the Operator’s Manual. Make sure the operator has completed the Operating Checklist below.

Operating Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect skid steer safety equipment to make sure it is in good working condition.</td>
<td>Skid Steer Manual</td>
</tr>
<tr>
<td>Read and follow all safety rules and safety decals. Refer to “Important Safety Information”.</td>
<td>Page 1</td>
</tr>
<tr>
<td>Make sure all guards and shields are secured and in good working condition. Refer to “Important Safety Information”.</td>
<td>Page 1</td>
</tr>
<tr>
<td>Read and follow hook-up instructions. Refer to “Skid Steer Hook-up”.</td>
<td>Page 9</td>
</tr>
<tr>
<td>Read and make all required adjustments. Refer to “Section 2: Adjustments”.</td>
<td>Page 11</td>
</tr>
<tr>
<td>Read and follow all operating procedures. Refer to “Section 3: Operating Procedures”.</td>
<td>Page 15</td>
</tr>
<tr>
<td>Read and follow all maintenance Instructions. Refer to “Section 5: Maintenance &amp; Lubrication”.</td>
<td>Page 21</td>
</tr>
<tr>
<td>Read and follow all lubrication instructions. Refer to “Lubrication Points”.</td>
<td>Page 24</td>
</tr>
<tr>
<td>Check tiller initially and periodically for loose bolts and pins. Refer to “Torque Values Chart”.</td>
<td>Page 28</td>
</tr>
</tbody>
</table>

General Safety Information

DANGER

Don’t get pinned between lift arms and skid steer frame. Getting pinned is the leading cause of fatal accidents with skid steers. Follow all safety guidelines below:

- Always operate attached implement while seated in the skid steer with seat belt fastened around operator.
- Keep your head, arms, and legs inside the cab while operating the skid steer.
- Never operate equipment from outside the cab.
- Before leaving the operator’s seat, lower attachment to the ground, set park brake, and turn off engine.
- 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.
- 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.

DANGER

Operate skid steer only if equipped with a Roll-Over Protective Structure (ROPS) and seat belt. Fasten seat belt snugly and securely to protect against falling or being thrown and crushed causing serious injury or death.

DANGER

Keep yourself and all others away from rotating tines. Always disengage hydraulics and lockout power source before making adjustments or servicing the tiller. A person’s body, hair, or clothing can become entangled in rotating components causing serious bodily injury or death.

DANGER

Keep away from electrical power lines. Place an orange warning sign under overhead power lines indicating type of danger above. Electrocution is often fatal.

DANGER

Clear area of debris before tilling. Mark any potential hazards that cannot be removed such as tree stumps, post, rocks, holes, and drop-offs with a visible flag.

DANGER

Do not point discharge toward people, animals, or buildings and keep people and animals away from tiller during operation. Tine impact on objects can cause projectiles resulting in bodily injury or death.

DANGER

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.

DANGER

Prevent serious injury or death from rotating tines. Do not go near or under the tiller when tines are turning or engine is running. Keep others away. Disconnect and lockout power source before adjusting or servicing the tiller. Keep hands, feet, hair, and clothing away from moving parts.

DANGER

Do not operate on or travel across steep inclines where skid steer could roll-over resulting in serious injury or death. Consult your skid steer manual for acceptable inclines it is capable of traveling across.

DANGER

Do not use tiller as a working platform. The tiller is not properly designed or guarded for this use. Using tiller as a working platform can cause serious injury or death.
Section 3: Operating Procedures

WARNING
Refer to Figure 3-1: Use stepping pads, grab-handles, and anti-slip surfaces when getting on or off the skid steer. Using unapproved surfaces and handles to mount and dismount can result in a falling hazard and cause serious injury or death.

WARNING
Do not allow anyone to operate this Rotary Tiller who is under the age of 16 or who has not been properly trained to operate this machine safely. Allowing underage or under-trained personnel to operate this unit could damage the unit, cause serious bodily injury, or result in death.

WARNING
Do not till after dark without sufficient lighting on the skid steer. The tiller can hit objects and other vehicles can run into the skid steer and/or tiller causing equipment damage and serious bodily injury or death.

WARNING
Use Rotary Tiller for its intended purpose only. Do not use tiller to lift or carry objects; to pull fence posts, stumps, or other objects; or to tow other equipment. Doing so can damage the tiler, cause serious bodily injury, or death.

WARNING
Never allow riders on the skid steer or Rotary Tiller. They can fall and sustain serious injuries or death.

WARNING
It is the operator’s responsibility to not allow anyone near the Rotary Tiller during its operation.

WARNING
Check hitch fit-up frequently. An improper fit-up can result in the Rotary Tiller detaching from the skid steer and cause serious injury or death.

CAUTION
Make certain you are not working over underground wiring, pipes, or other obstructions. If there is doubt, contact your local utility services so that they may mark the location of all underground utilities in the area. Be sure to ask how close you can work to the marks or flags they positioned.

CAUTION
Make sure all safety labels are in their proper location and in good condition before operation. Follow all directions on the safety labels.

CAUTION
Avoid hitting solid objects with the Rotary Tiller. Hitting solid objects can damage the tiller and skid steer. Also, hitting solid objects can throw the operator forward causing injury.

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 Procedures
Always shut down skid steer before dismounting.

1. Park on a level surface, engage park brake, lower tiller to the ground, turn off engine, and remove key to prevent unauthorized starting.
2. If included, raise seat bar and move controls until both are locked.
3. Make sure all moving parts have stopped before dismounting skid steer. Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer.
Transporting

**WARNING**
When traveling on public roads, use accessory lights, SMV sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.

**WARNING**
Reduce transport speed when traveling over rough or hilly terrain. Operator can lose control of skid steer if terrain is too rough or hilly.

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.

Pre-Operation 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 Land Pride parts.
5. Inspect all hydraulic connections for leaks. Tighten any connections that are loose. See Danger Alert under “Hydraulic Hose Hook-ups” on page 10.
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.

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" above the ground.

Refer to Figure 3-2:

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.

Adjust Shanks
When not in use, the shanks should be adjusted fully up or removed when tiller is set to 2" or 4" depths located above “FULL DEPTH”. If shanks are being used, the tiller must be set using the 2" or 4" depths located above “FULL DEPTH”. See “Shank Settings” on page 14 for detailed instructions on how to adjust them.

Direction of Travel

**WARNING**
People and other objects can be hit while tilling traveling backwards with the skid steer. Know what is behind you at all times. Always be ready to stop. Skid steer must be equipped with a back-up alarm. Also, a rear view mirror or back-up camera is recommended.

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. A rear view mirror or back-up camera is recommended to make the job safer.

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 10 for additional information.
WARNING
Do not engage hydraulics or operate tiller at high speeds with tiller more than 2” 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” of the ground.
4. With engine speed set at an idle, engage hydraulics to start tiler 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.

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, stop tilling operations, turn off engine, engage park brake, raise seat bar if included, move control until seat bar and controls lock, remove switch 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 Procedures” on page 16 before dismounting skid steer to check for foreign objects.
12. Remove any objects wrapped around the rotor shaft before resuming tilling operations.

Unhooking The Rotary Tiller
Refer to Figure 3-4:
1. See “Long Term Storage” on page 23 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.
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 Procedures” on page 16. 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” 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.

For other problems that may arise, you will want to refer to the “Troubleshooting Chart” on page 27.

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 23.

With a little practice and a few adjustments, you will soon be achieving the results you want with your Land Pride Rotary Tiller. See Specifications & Capacities” on page 25 and “Features & Benefits” on page 26 for additional information and performance enhancing options.
Motor Assembly
Refer to Figure 4-1:

MOTOR BUNDLE HYD 14-23 GPM . . . . . . . 321-096A
MOTOR BUNDLE HYD 23-42 GPM . . . . . . . 321-097A

There are two motor assembly options to meet your hydraulic flow requirements. Both are interchangeable and do not require adapter kits. Compare your motor’s GPM rating located on an attached decal with the GPM ratings above. If your Rotary Tiller’s hydraulic motor is not compatible with your skid steer, you should replace it with one of the assemblies above that is compatible.

Each motor bundle consist of one hydraulic motor and two hydraulic hoses.

Flat Face Couplers
Refer to Figure 4-2:

LARGE FLAT FACE COUPLERS . . . . . . . . . 316-289A
Large flat face couplers consist of one large flat face male coupler and one large flat face female coupler

SMALL FLAT FACE COUPLERS . . . . . . . . . 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 4-2

Operator Protective Door (Optional)
Refer to Figure 4-3:

WARNING
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 and void its warranty.

Protective Door Assembly . . . . . . . . . . . 328-024A
Instructions below are for installing Land Pride’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.
Section 5: Maintenance & Lubrication

Maintenance
Proper servicing and adjustment is key to the long life of any implement. 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 Land Pride 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 Land Pride dealer.

**WARNING**
Do not work underneath skid steer lift arms when raised unless an approved lift-arm support is available and is used to secure the lift arms in the raised position.

**WARNING**
Protect against equipment falling unexpectedly. Lower tiller to the ground or securely block tiller up with support blocks before servicing or working under and around the unit. Never use concrete blocks as a support.

**WARNING**
Perform schedule maintenance. Check for loose hardware, structural cracks, broken parts, missing parts, and high wear. Make repairs before putting tiller back into service. Serious breakdowns can result in injury or death.

**CAUTION**
Do not alter Land Pride equipment or replace parts with other brands. Doing so can cause equipment to perform improperly and may lead to breakage that can cause bodily injury. Replace parts only with genuine Land Pride 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 switch 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.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>321-122D</td>
<td>NON DRIVE SKID SHOE</td>
</tr>
<tr>
<td>2</td>
<td>802-214C</td>
<td>1/2” CARRIAGE BOLT</td>
</tr>
<tr>
<td>3</td>
<td>803-293C</td>
<td>1/2” HEX WHIZ NUT</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>321-117D</td>
<td>MOTOR PROTECTED SKID SHOE</td>
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<tr>
<td>5</td>
<td>802-306C</td>
<td>5/8” CARRIAGE BOLT</td>
</tr>
<tr>
<td>6</td>
<td>803-196C</td>
<td>5/8” HEX WHIZ NUT</td>
</tr>
</tbody>
</table>
Section 5: Maintenance & Lubrication

Tiller Tines
Refer to Figure 5-3:

**WARNING**
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 Land Pride replacement tines only.

Inspect tiller tines (#2A thru #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 tines are being reinstalled correctly.

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 thru 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 tines are being reinstalled correctly.

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 thru 4 until all tines on the rotor have been replaced.

**Reverse Tines on a Single Flange**
Refer to Figure 5-3:

**IMPORTANT:** Remove no more than two tines on a flange to help ensure reversed tines are reinstalled correctly.

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 thru 6 for remaining flanges to be reworked.

---

**Table: Tine Replacement**

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>803-147C</td>
<td>NUT HEX NYLOCK 1/2-13</td>
</tr>
<tr>
<td>2</td>
<td>820-537C</td>
<td>TINE, BI-DIRECTIONAL TILLER</td>
</tr>
<tr>
<td>3</td>
<td>842-233C</td>
<td>SHLDR BLT 5/8DX1L 1/2-13</td>
</tr>
</tbody>
</table>
Long Term Storage
Clean, inspect, service and make necessary repairs to the Rotary Tiller when parking it for long periods and when parking it at the end of a working season. This will help ensure that the tiller is ready for field use the next time you hook-up to it.

DANGER
Service underside of Rotary Tiller after it has been properly attached to a skid steer, supported above ground with solid supports underneath, and hydraulic flow set to off. Never work under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated or if hydraulic lines burst even when hydraulics are 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 22.
3. Inspect tiller for loose, worn, or damaged parts and adjust or replace as needed.
4. Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for aerosol touch-up paint. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

<table>
<thead>
<tr>
<th>Land Pride Touch-up Paint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
</tr>
<tr>
<td>821-002C</td>
</tr>
</tbody>
</table>

5. A coating of oil may be applied to worn surfaces in lieu of painting to minimize oxidation.
6. Replace all damaged or missing decals.
7. Lubricate as noted under “Lubrication Points” below.
8. Store tiller on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer tiller life.
9. Follow all “Unhooking The Rotary Tiller” instructions on page 18 when unhooking the tiller from the skid steer.
Bearing On Right End Of Rotor Shaft

Type of Lubrication: Multi-Purpose
Quantity = As Required
## SRT62 & SRT76

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Specifications &amp; Capacities</th>
<th>Model Numbers</th>
<th>Specifications &amp; Capacities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>SRT62: 785 lbs.</td>
<td>SRT76: 880 lbs.</td>
<td></td>
</tr>
<tr>
<td><strong>Tilling width</strong></td>
<td>62&quot;</td>
<td>76&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Overall width</strong></td>
<td>74 1/2&quot;</td>
<td>88 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Tilling depth</strong></td>
<td>2&quot;, 4&quot;, &amp; 5.6&quot;</td>
<td>2&quot;, 4&quot;, &amp; 5.6&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Depth indicator (Patent-pending)</strong></td>
<td>Depth indicator (Viewable from operator seat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hydraulic requirements</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low flow motor</td>
<td>14-23 gpm</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>High flow motor</td>
<td>23-42 gpm</td>
<td>23-42 gpm</td>
<td>* 16-23 gpm with minimum 2600 psi</td>
</tr>
<tr>
<td><strong>Hydraulic pressure range</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low flow motor</td>
<td>2800 psi min. / 4500 psi max.</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>High flow motor</td>
<td>2000 psi min. / 4500 psi max.</td>
<td>2300 psi min. / 4500 psi max.</td>
<td></td>
</tr>
<tr>
<td><strong>Motor rpm (Depending on skid steer flow and pressure)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low flow motor</td>
<td>143 to 245 rpm</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>High flow motor</td>
<td>133 to 244 rpm</td>
<td>133 to 244 rpm</td>
<td>*92-133 rpm</td>
</tr>
<tr>
<td><strong>Motor case drain</strong></td>
<td>Standard</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td><strong>Number of rotor flanges</strong></td>
<td>9</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td><strong>Number of tines per flange</strong></td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Tine construction</strong></td>
<td>Bi-directional forged harden “C” shaped</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Direction of travel</strong></td>
<td>Bi-directional (forward and reverse)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hitch type</strong></td>
<td>Universal Quick Attach Hitch</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Side shift capabilities</strong></td>
<td>6&quot; To the right</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Skid shoes</strong></td>
<td>Replaceable</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rotor swing diameter</strong></td>
<td>18.3&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of shanks</strong></td>
<td>5</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Shank retainers</strong></td>
<td>Spring loaded retaining clips2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shank construction</strong></td>
<td>3/4&quot; x 2 1/2&quot; x 16&quot; Adjustable hardened steel with 3 adjustable depths</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Deck plate 1/4&quot; steel plate</td>
<td>End plates 3/8&quot; steel plate</td>
<td></td>
</tr>
</tbody>
</table>

* High flow motor with 16-23 gpm can be used with minimum working pressure of 2600 psi but rotor speed rpm will be reduced which could effect tilling performance.
## SRT62 & SRT76

<table>
<thead>
<tr>
<th><strong>Features</strong></th>
<th><strong>Benefits</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6&quot; Offset capability</strong></td>
<td>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&quot; to the right. Hook skid steer hitch to the right side of tiller hitch plate to center tiller on the skid steer.</td>
</tr>
<tr>
<td><strong>Depth indicator</strong></td>
<td>Operator can tell how deep the tiller is working in the soil without leaving the seat.</td>
</tr>
<tr>
<td><strong>Hydraulic depth control</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Rotor can be operated forward or reverse</strong></td>
<td>Allows operator to choose forward or reverse tilling by reversing hydraulic flow. Reverse tilling is good for breaking up hard ground and covering trash.</td>
</tr>
<tr>
<td><strong>SRT62 offers a choice between low flow or high flow</strong></td>
<td>Low flow (14 to 23 gpm) and high flow (23 to 42 gpm) allow these tillers to fit a wide variety of skid steers.</td>
</tr>
<tr>
<td><strong>Case drain hose</strong></td>
<td>Reduces back pressure on motor which increases power for tilling and protects outer seal.</td>
</tr>
<tr>
<td><strong>1/4&quot; Heavy duty deck and 3/8&quot; heavy duty end plates</strong></td>
<td>Deck and end plates are built tough.</td>
</tr>
<tr>
<td><strong>Replaceable skid shoes</strong></td>
<td>Keep bottom of end plates from wearing.</td>
</tr>
<tr>
<td><strong>Bolt in spiral design rotor</strong></td>
<td>Reduces bouncing of tiller.</td>
</tr>
<tr>
<td><strong>Bolt-on tiller tines designed to attach with one bolt per tine</strong></td>
<td>Makes replacing tines fast and easy.</td>
</tr>
<tr>
<td><strong>Bi-directional hardened boron steel tines</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Motor guard</strong></td>
<td>Protects motor, fittings, and hydraulic hoses from damage caused by bumping into objects around the motor.</td>
</tr>
<tr>
<td><strong>Adjustable scarifier shanks constructed of hardened steel</strong></td>
<td>These shanks are built tough to rip up hard soil. They make tilling easier in hard soil.</td>
</tr>
<tr>
<td><strong>Optional small flat face couplers or large flat face couplers</strong></td>
<td>Fits a wider variety of skid steers.</td>
</tr>
</tbody>
</table>
## Troubleshooting Chart

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

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Bolt Head Identification</th>
<th>Bolt Head Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Grade 2</td>
<td>Grade 5</td>
</tr>
<tr>
<td></td>
<td>N · m ²</td>
<td>N · m</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4 5.6 11 8 16 12</td>
<td></td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5 6 13 10 18 14</td>
<td></td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15 11 24 17 33 25</td>
<td></td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17 13 26 19 37 27</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>27 20 42 31 59 44</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>31 22 47 35 67 49</td>
<td></td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>43 32 67 49 95 70</td>
<td></td>
</tr>
<tr>
<td>7/16&quot; - 20</td>
<td>49 36 75 55 105 78</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td>66 49 105 76 145 105</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; - 20</td>
<td>75 55 115 85 165 120</td>
<td></td>
</tr>
<tr>
<td>9/16&quot; - 12</td>
<td>95 70 150 110 210 155</td>
<td></td>
</tr>
<tr>
<td>9/16&quot; - 18</td>
<td>105 79 165 120 235 170</td>
<td></td>
</tr>
<tr>
<td>5/8&quot; - 11</td>
<td>130 97 205 150 285 210</td>
<td></td>
</tr>
<tr>
<td>5/8&quot; - 18</td>
<td>150 110 230 170 325 240</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; - 10</td>
<td>235 170 360 265 510 375</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; - 16</td>
<td>260 190 405 295 570 420</td>
<td></td>
</tr>
<tr>
<td>7/8&quot; - 9</td>
<td>225 165 585 430 820 605</td>
<td></td>
</tr>
<tr>
<td>7/8&quot; - 14</td>
<td>250 185 640 475 905 670</td>
<td></td>
</tr>
<tr>
<td>1&quot; - 8</td>
<td>340 250 875 645 1230 910</td>
<td></td>
</tr>
<tr>
<td>1&quot; - 12</td>
<td>370 275 955 705 1350 995</td>
<td></td>
</tr>
<tr>
<td>1-1/8&quot; - 7</td>
<td>480 355 1080 795 1750 1290</td>
<td>1-1/8&quot; - 12 540 395 1210 890 1960 1440</td>
</tr>
<tr>
<td>1-1/8&quot; - 12</td>
<td>540 395 1210 890 1960 1440</td>
<td></td>
</tr>
<tr>
<td>1-1/4&quot; - 7</td>
<td>680 500 1520 1120 2460 1820</td>
<td></td>
</tr>
</tbody>
</table>

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

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
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, Hydraulic Hoses and Seals: 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 purchase by the end user.

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 ____________________