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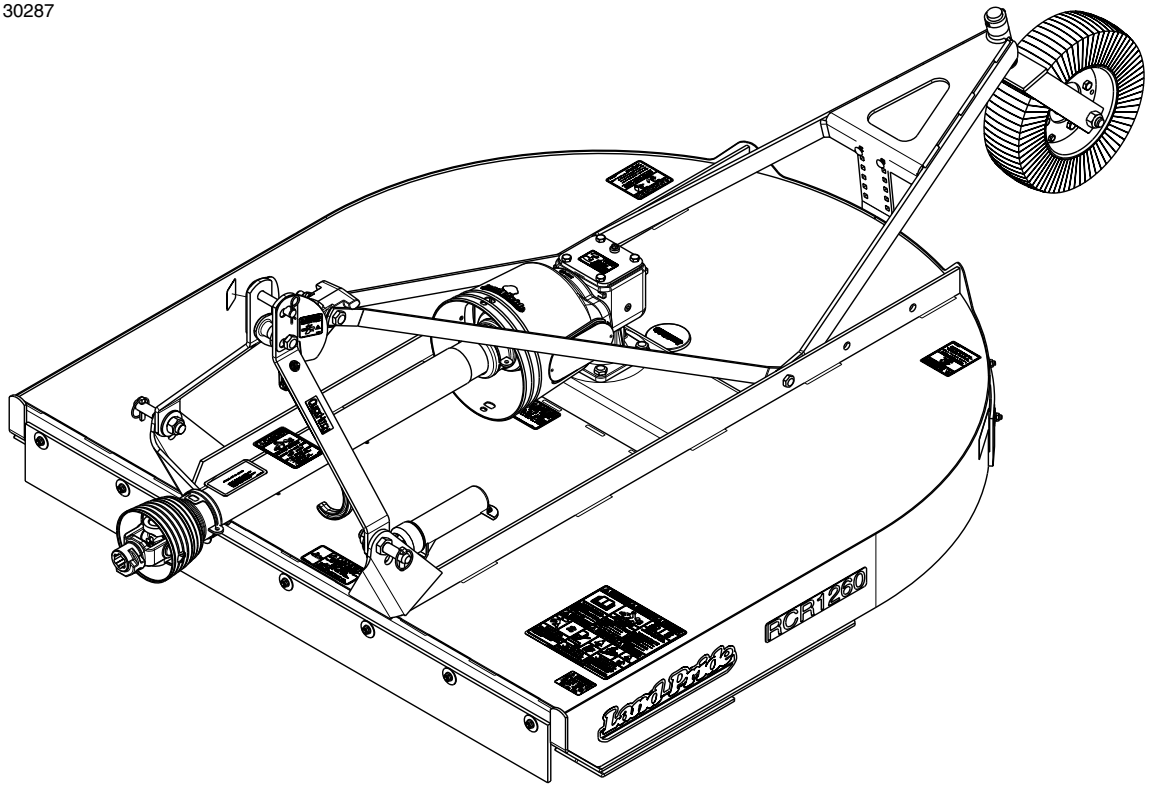
Rotary Cutter

RCR1242, RCR1248, RCR1260 & RCR1272

30287



326-047M
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.

For an Operator's Manual and Decal Kit in French or Spanish Language, please see your Land Pride dealer.

Printed 4/15/26

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	

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, 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.

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 implement.

- ▲ 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.
- ▲ The operator should be familiar with all functions of the tractor and attached implement, 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 implement.
- ▲ Keep all bystanders away from equipment and work area.
- ▲ Start tractor from the driver's seat with hydraulic controls in neutral.
- ▲ Operate tractor and controls from the driver's seat only.
- ▲ Never dismount from a moving tractor or leave tractor unattended with engine running.
- ▲ Do not allow anyone to stand between the implement and tractor while backing up to the implement.
- ▲ 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.
- ▲ Do not turn tractor so tight as to cause hitched implement to ride up on the tractor's rear wheel.
- ▲ Store implement in a safe and secure area where children normally do not play. When needed, secure implement 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.

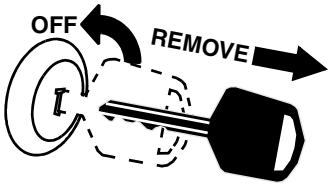
Safety Precautions for Children

Tragedy can occur if the operator is not alert to the presence of children, Children generally are attracted to implements 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 implement and tractor down if children enter the work area.
- ▲ Never carry children on the tractor or implement. 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 implement.
- ▲ Use extra caution when backing up. Before the tractor starts to move, look down and behind to make sure the area is clear.

Tractor Shutdown & Storage

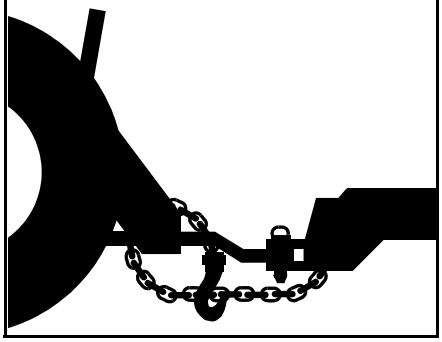
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic lines.
- ▲ 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 tractor.



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

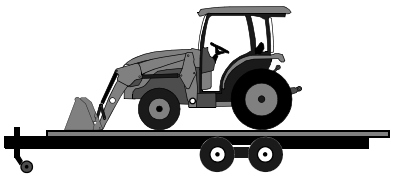
Use A Safety Chain

- ▲ A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- ▲ Use a chain with the strength rating equal to or greater than the gross weight of the towed implement.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- ▲ Always hitch the implement to the machine towing it. Do not use the safety chain to tow the implement.



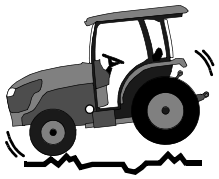
Towing Safely

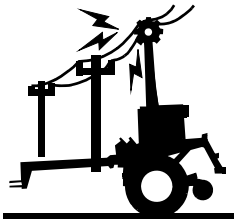
- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with chocks, tie downs, and chains.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.
- ▲ Sudden 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.
- ▲ Engage park brake when stopped on an incline.
- ▲ Maximum transport speed for an implement is 20 mph (32 km/h). DO NOT EXCEED.
- ▲ Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.
- ▲ Do not tow an implement that, when fully loaded, weights more than 1.5 times the weight of towing vehicle.





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 implement 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.

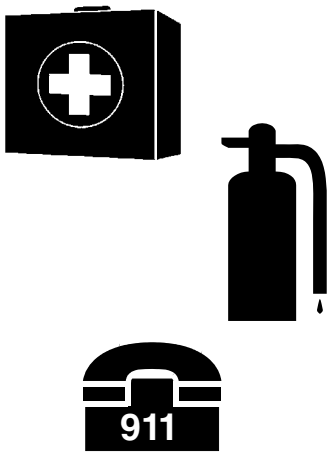
Practice Safe Maintenance

- ▲ 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 implement 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 implement.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement in a way which will adversely affect its performance.
- ▲ Do not grease or oil implement 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 implement are properly collected and disposed of.
- ▲ Remove all tools and unused parts from equipment before operation.
- ▲ Do not weld or torch on galvanized metal as it will release toxic fumes.

Listed below 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 the phone.



Wear Personal Protective Equipment (PPE)

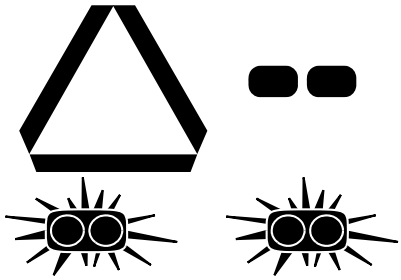
- ▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety, glasses, hard hat, dust mask, and ear plugs.
- ▲ Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- ▲ Prolonged exposure to loud noise can cause hearing impairment 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 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, 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.

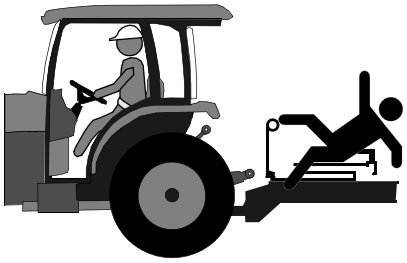


Use Seat Belt and ROPS

- ▲ 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 tractor or implement.
- ▲ 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 tractor or implement to lift or transport riders.

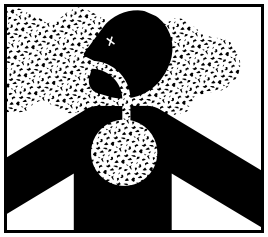


Listed below are common practices that may or may not be applicable to the products described in this manual.

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.

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.

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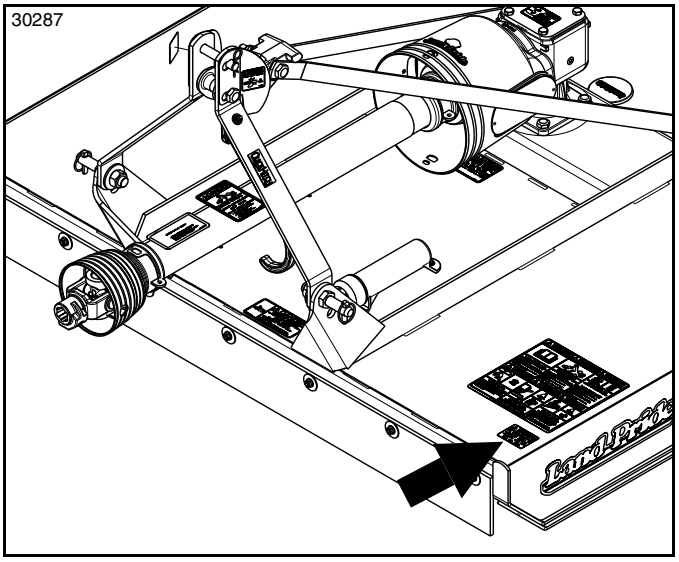
Safety Labels

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

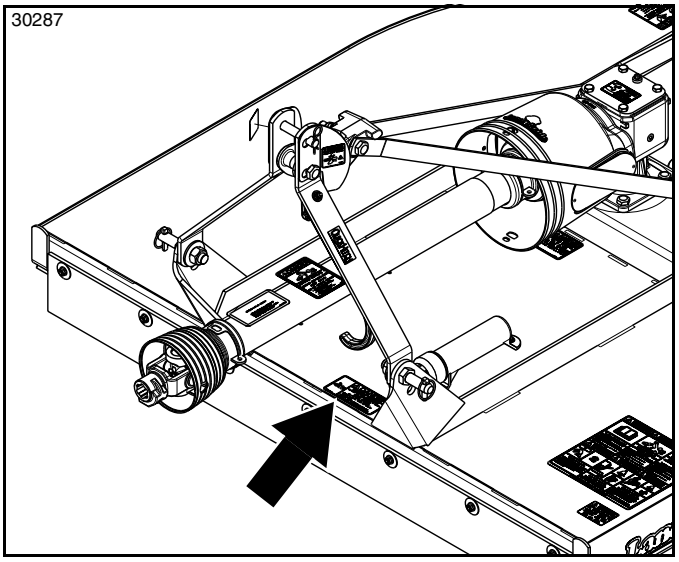
1. *Keep all safety labels clean and legible.*
2. *Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.*
3. *Some new equipment installed 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 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.*



818-130C

Warning: Operate with 540 rpm Power Take-off Speed

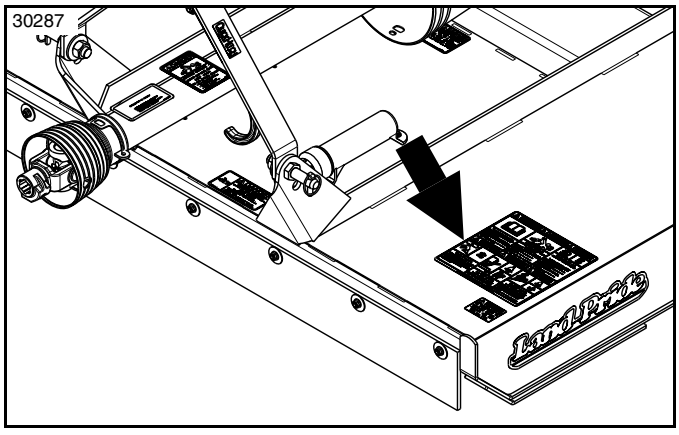
1 Place: Front left corner of deck



818-142C

Danger: Rotating Driveline Entanglement Hazard

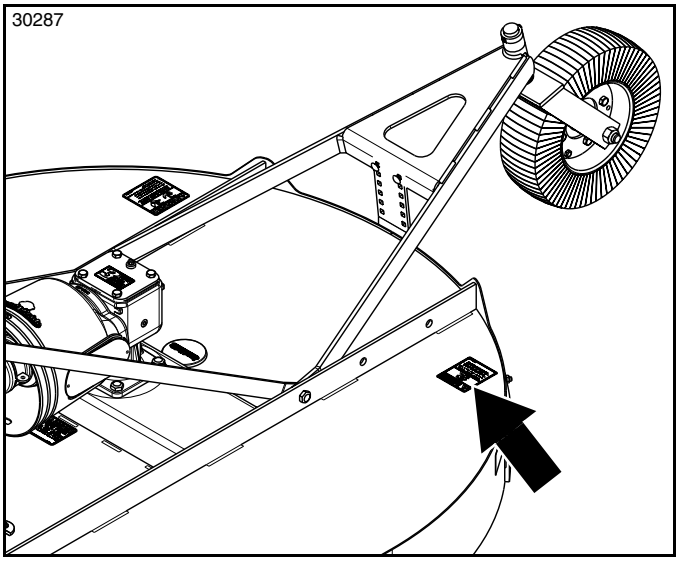
1 Place: At the front of the deck



844-190C

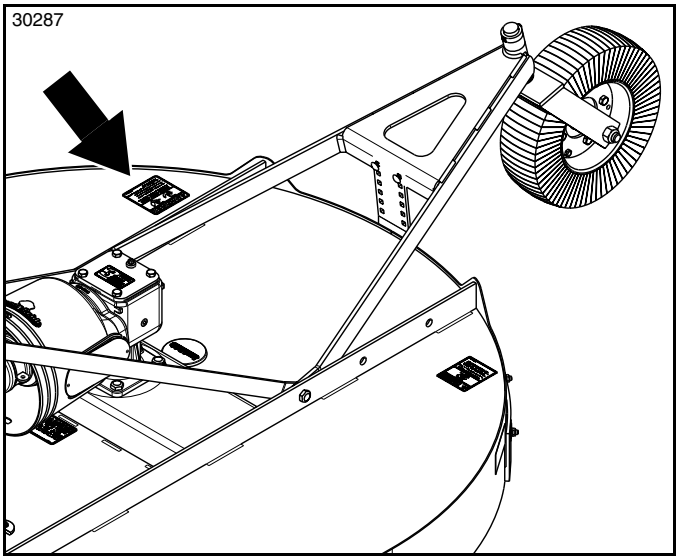
Danger/Warning Safety Combo: List of Safety Hazards

1 - Place: At the front of the deck on the left side



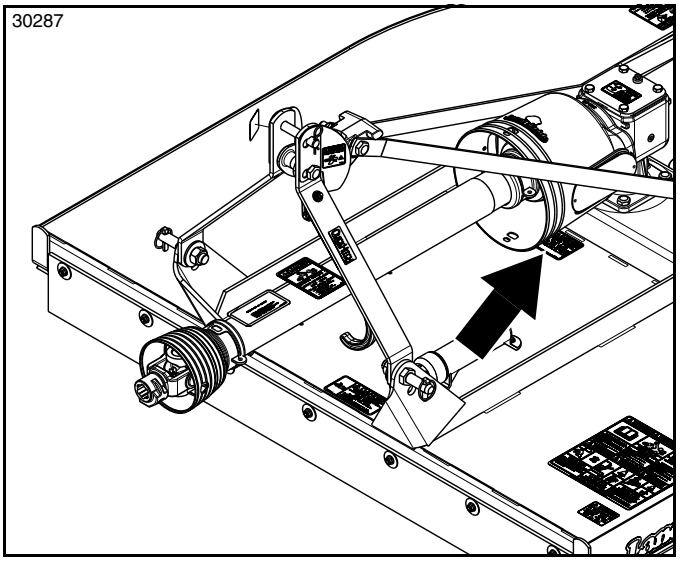
70376

818-556C
Danger: Thrown Object Hazard
1 Place: At the back of the deck on the left side



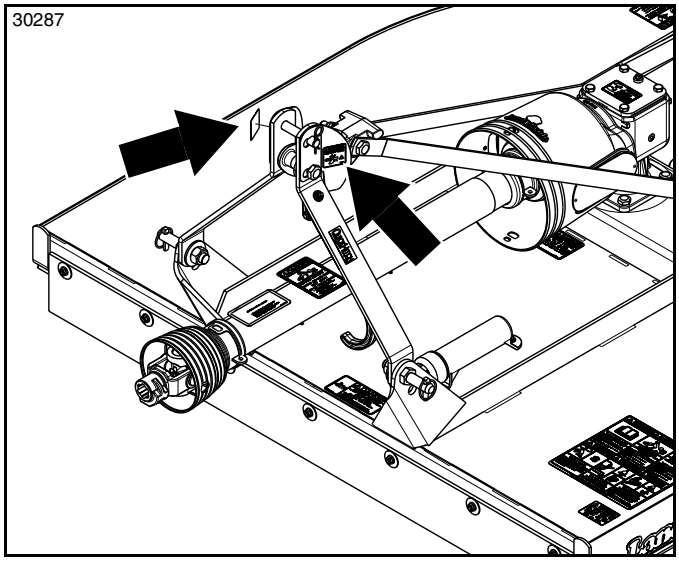
70266

818-555C
Danger: Rotating Blade Hazard
1 Place: At the back of the deck on the right side



70358

818-543C
Danger: Guard Missing Hazard - Do not Operate
1 Place: Beneath the gearbox/driveline shield

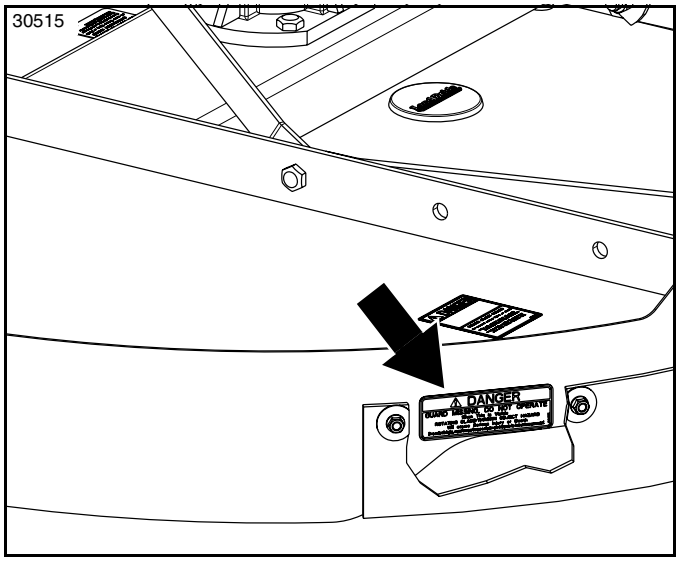


70247

858-148C

Warning: Pinch Point Hazard

2 Places: On both sides of the floating center link

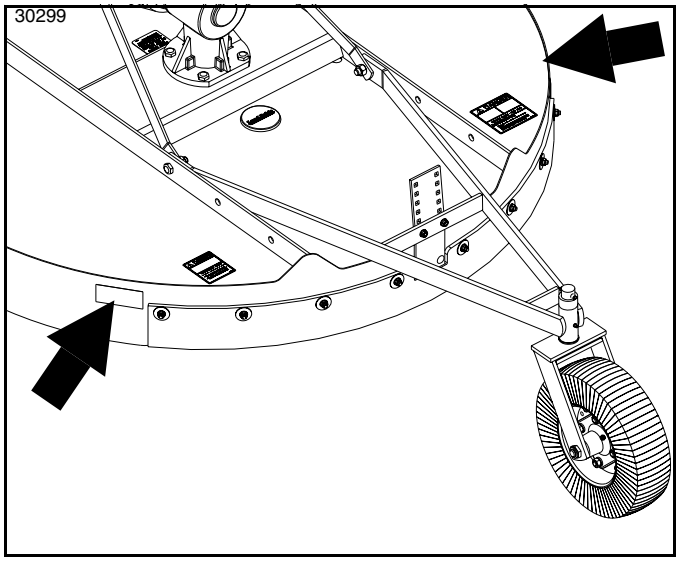


70252

848-088C

Danger: Guard Missing Hazard, Do Not Operate

1 Place: Located behind the rear guard on models RCR1248, RCR1260, & RCR1272 only

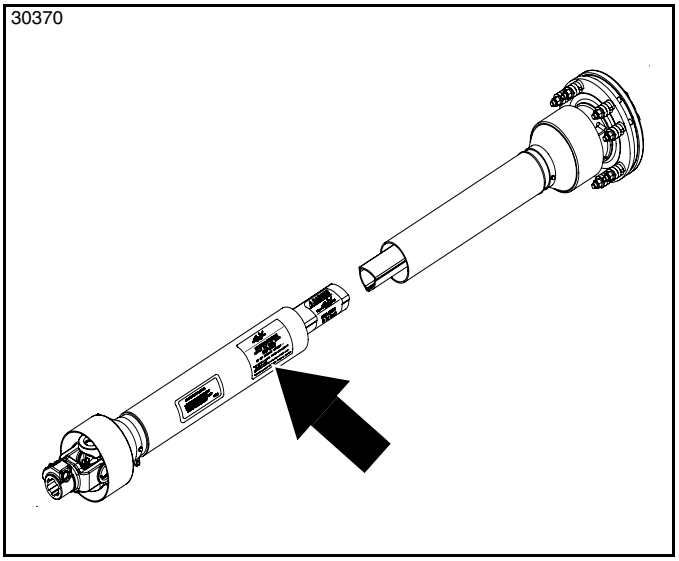


70486

858-095C

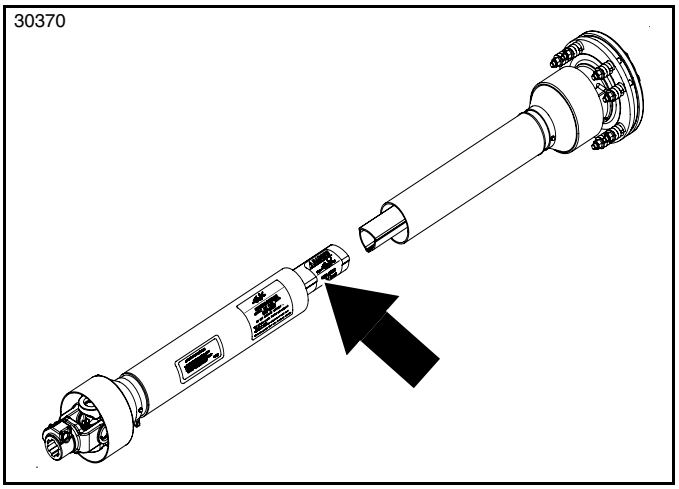
Red Reflector: 2" x 4 1/2"

2 Places: On the left and right back side of the deck



70375

818-552C
Danger: Rotating Driveline - Keep Away
1 Place: On the driveline



70374

818-540C
Danger: Guard Missing - DO NOT Operate
1 Place: On the driveline inner profile

Land Pride welcomes you to the growing family of new product owners. This Rotary Cutter 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 Implement.

Application

Land Pride's RCR12 Series Rotary Cutters are ideal for clearing grass, weeds, and light brush. These cutters offer fast, clean, dependable mowing, and have been extensively tested to ensure operating safety. High blade tip speeds assure a clean cut in a variety of field conditions. The standard stump jumper slides over stumps, rocks, and debris and safety guards keep you up and running.

See **"Specifications & Capacities"** on page 42 and **"Features & Benefits"** on page 44 for additional information and performance enhancing options.

Using This Manual

- This Operator's Manual is designed to help familiarize the operator 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 buy 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 looking forward in the operator's seat unless otherwise stated.

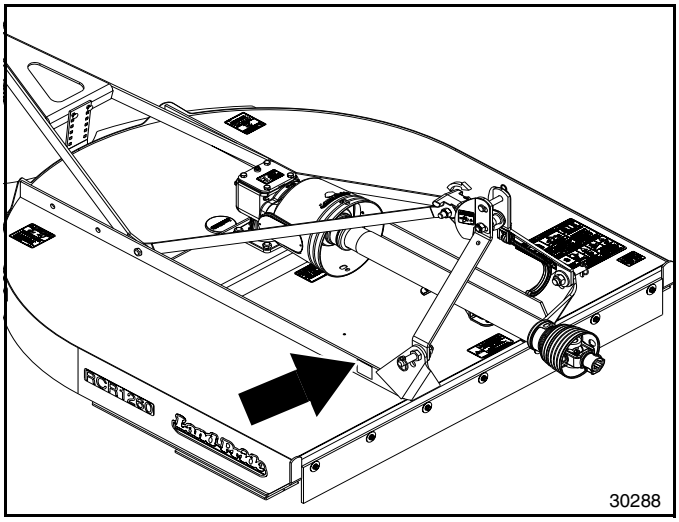
Owner Assistance

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 Cutter 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

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 Land Pride dealer. For location of your serial number plate, see Figure 1.



Serial Number Plate Location
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new cutter. 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 implement 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 problem/question, and request assistance.
3. For further assistance write to:

Land Pride Service Department
1525 East North Street

P.O. Box 5060
Salina, Ks. 67402-5060

E-mail address
lpservice@landpride.com

Tractor Requirements

Tractor horsepower should be within the range noted below. Tractors outside the range must not be used.

Horsepower Rating. . . . . 18-60 hp (13-45 kW)
Rear Power Take-Off Shaft Type . . . . . 1 3/8"-6 Spline
Rear Power Take-Off Speed . . . . . 540 rpm
Hitch Type. . . . . 3-point Cat. I QH Ready
Tractor Weight . . . . . See Important Note Below

WARNING

To avoid serious injury or death:

Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator's Manual to determine weight requirements and maximum limitations.

Torque Requirements

Refer to **"Torque Values Chart for Common Bolt Sizes"** on page 46 to determine correct torque values for common bolts. See **"Additional Torque Values"** at the bottom of the chart for exceptions to standard torque values.

Dealer Preparations

WARNING

To avoid serious injury or death:

Always secure cutter with an overhead crane, fork lift, or other suitable lifting device before removing hardware bags, shipping components, bands, lag screws, or hitch pins. The cutter can suddenly fall.

This Rotary Cutter has been partially assembled at the factory. However, some assembly will be necessary to attach the hitch, driveline, and guards to the cutter.

It is best to go through the **"Pre-Assembly Checklist"** on this page before assembling the cutter. Speed up your assembly task and make the job safer by having all the needed parts and equipment readily at hand.

Pre-Assembly Checklist

✔	Check	Page
☐	Have a forklift or hoist with properly sized chains and safety stands capable of lifting and supporting the equipment on hand.	
☐	Have a minimum of 2 people on hand while assembling.	
☐	Make sure all major components and loose parts are shipped with the machine. Refer to this manual if unsure.	
☐	Make sure working parts move freely, bolts are tight and cotter pins are spread. Refer to this Operator's Manual.	
☐	Double check to make sure all fasteners and pins are installed correctly. Use Parts Manual 326-047P if unsure. Refer to "Using This Manual" on page 11 for instructions on how to order or download a Parts Manual. **NOTE:** Small hardware shipped loose from the factory is contained in a bag. Larger parts are attached to the shipping crate. All factory assembled hardware should be installed in their correct location. Remember their location if removed. Keep removed parts separated.	
☐	Make sure all safety labels are legible and correctly located. Reflectors must be visible when machine is in transport position. Replace all missing / damaged labels and reflectors.	Page 6
☐	Make sure all grease fittings are in place and lubricated. Refer to Lubrication Points.	Page 40
☐	Lubricate all drivelines joints and profiles. Refer to Lubrication Points.	Page 41
☐	Check fluid level in all gearboxes. Refer to the Maintenance and Lubrication section.	Page 41

Uncrating Instructions

IMPORTANT: Be sure to retain all required hardware and loose components for Assembly and Set-up.

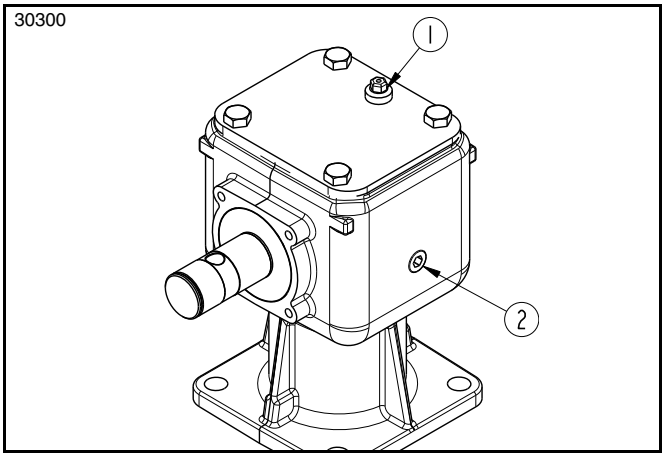
1. Attach a lifting hoist or other device to the tailwheel A-frame or another suitable location to keep deck secured in the vertical position while detaching it from the shipping crate.
2. Before removing the hardware securing the cutter deck to the shipping crate, remove the hardware bag and other loose components zip tied to the deck.
3. Remove hardware securing the cutter deck to the shipping crate. Hardware securing the deck to the shipping crate will not be reused on the cutter.
4. Store all removed components in a safe location where they can be easily retrieved as needed.
5. If preferred, the front shield may be assembled before lowering the deck onto the ground. Refer to **"Front Deflector Assembly"** on this page.
6. Carefully lower the deck onto the ground while making sure bystanders and animals are away from the designated deck falling/resting area.

Gearbox Vented Plug

Refer to Figure 1-1:

IMPORTANT: The gearbox is shipped with a solid plug on top to prevent oil loss during shipping and handling. The solid plug must be replaced with a vented plug (#1) before operating the implement.

1. A vented plug is shipped loose and packaged with the Operator's Manual. Remove temporary solid plug from top of gearbox and replace with vented plug (#1). See you nearest Land Pride dealer if vented plug is missing.
2. If hooking directly to the tractor's 3-point hitch, continue with **"3-Point Driveline Installation"** on page 16. If using the KH15 Hitch, skip to **"Section 2: Accessories"** on page 22.



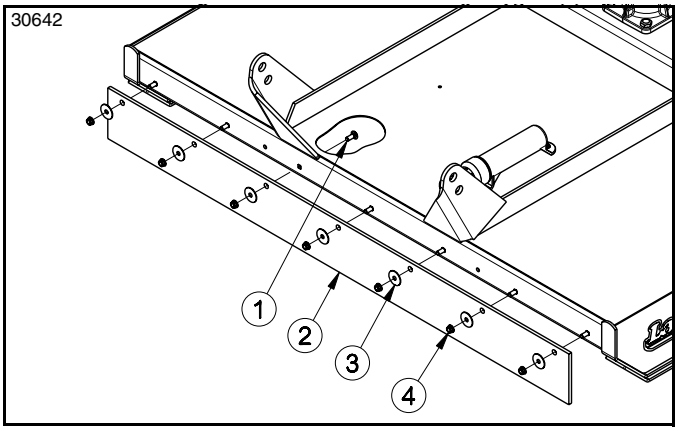
Gearbox Vented Plug
Figure 1-1

Front Deflector Assembly

Refer to Figure 1-2:

NOTE: Rear rubber deflector is not required on RCR1242 cutter.

1. Attach front rubber deflector (#2) to the deck as shown with 3/8"-16 x 1" GR5 carriage bolts (#1), fender washers (#3), and hex whiz nuts (#4).
2. Tighten whiz nuts (#4) to the correct torque after all front rubber deflector hardware has been installed.

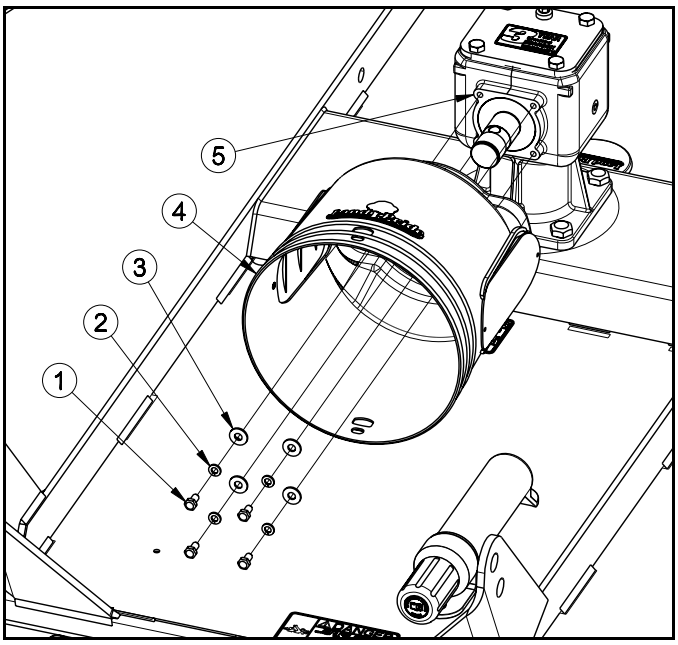


Front Rubber Guard Assembly
Figure 1-2

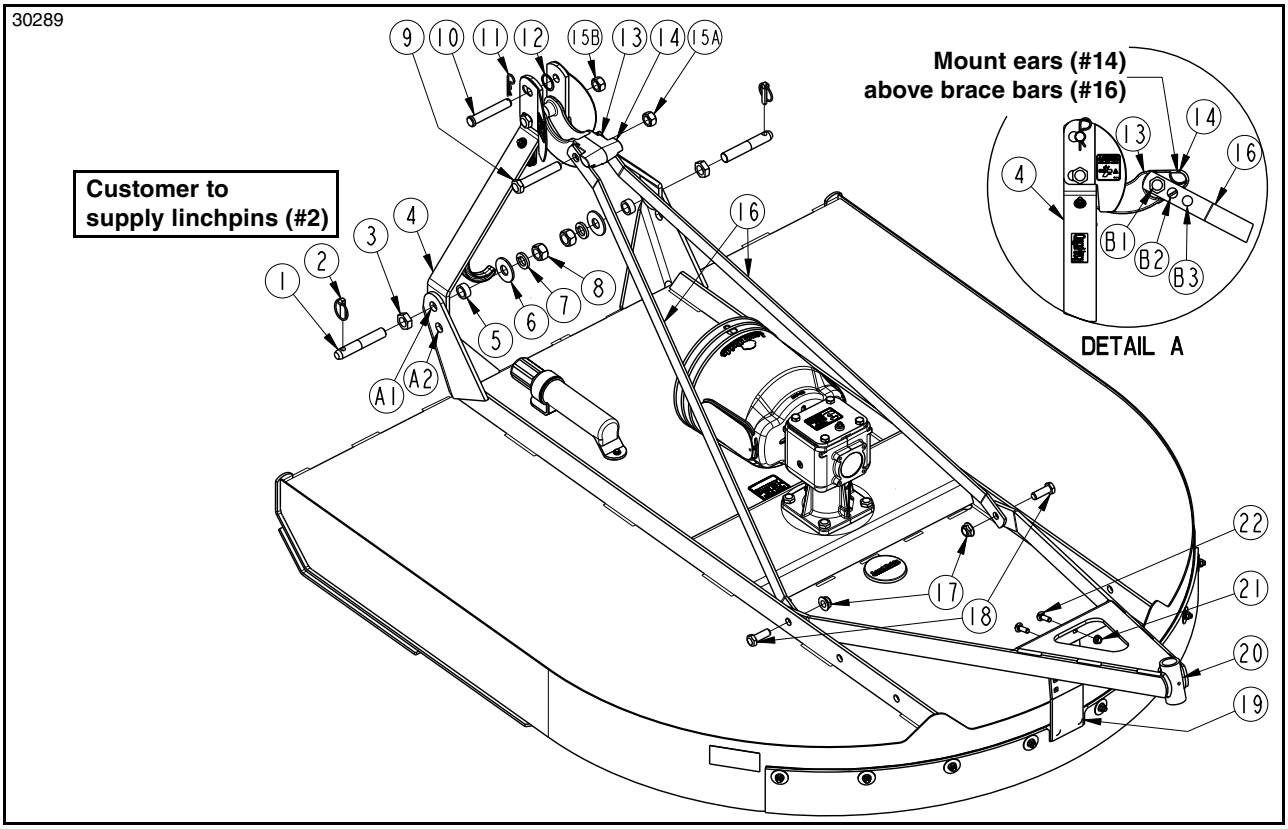
Install Cone Shield

Refer to Figure 1-3:

1. Attach cone shield (#4) to gearbox (#5) with M8 x 1.25 x 16 GR8.8 bolts (#1), lock washers (#2), and flat washers (#3).
2. Tighten bolts (#1) to the correct torque.



Install Cone Shield
Figure 1-3



3-Point Hitch Assembly
Figure 1-4

Tailwheel Frame Assembly

Refer to Figure 1-4:

1. The tailwheel frame (#20) is shipped packaged differently depending on the cutter model number:

   Models RCR1242, RCR1248, or RCR1260

   The frame is shipped attached to the cutter.

   a. Remove flange locknuts (#17). Do not remove bolts (#18).

   Model RCR1272

   The frame is shipped unattached to the cutter.

   a. Attach front end of tailwheel frame (#20) to the deck as shown with 5/8"-11 x 1 3/4" GR5 bolts (#18). Do not install flange locknuts (#17) at this time.

   b. Attach back end of A-frame (#20) as shown to adjusting plate (#19) with 3/8"-16 x 1 1/4" GR5 carriage bolts (#22) and hex whiz nuts (#21). Tighten hex whiz nuts to the correct torque.

2. Attach rear straps (#16) inside of tailwheel frame (#20) with 5/8"-11 x1 3/4" GR5 bolts (#18) and secure with flange locknuts (#17). Draw locknuts up snug and then back off 1/4 turn.

3-Point Hitch Assembly

Refer to Figure 1-4:

> **NOTE:** Snap ring (#12) is normally stored on clevis pin (#10). The snap ring may also be shipped stored in the shipping bag. It is used with **"3-Point Driveline Installation"** on page 16.

1. Remove clevis pin (#10) and any loose hardware stored on the clevis pin. Store removed hardware in a safe location for reuse.
2. Reattach clevis pin (#10) to its original location with hairpin cotter (#11).

> **IMPORTANT:** Hitch pins (#1) are shipped with a lock washer (#7), nut (#8) and jam nut (#3). If the jam nut is not included, the hitch pin will have a raised boss in its location.
>
> The length of the hitch pin with jam nut (#3) can be adjusted to operator preference. Make certain there are two or more threads showing beyond the jam nut after hex nut (#8) is torqued tight.

3. If included, screw jam nuts (#3) onto hitch pins (#1) until 2" (5 cm) of threads are visible between the jam nut and the threaded end.

4. Attach 3-point hitch frame (#4) as follows:
   a. If attaching cutter to a 3-point **Cat. I hitch**, install 3-point hitch frame (#4) to the upper hitch pin holes “A1” with hitch pins (#1), bushings (#5), flat washers (#6), lock washers (#7), and nuts (#8).

IMPORTANT: Some small tractors with a **Cat. I 3-point hitch** cannot lift cutter high enough for transporting or is not heavy enough in the front to properly lift the cutter. If your are experiencing this problem, attach 3-point hitch frame (#4) to the lower 3-point hitch pin holes “A2”.

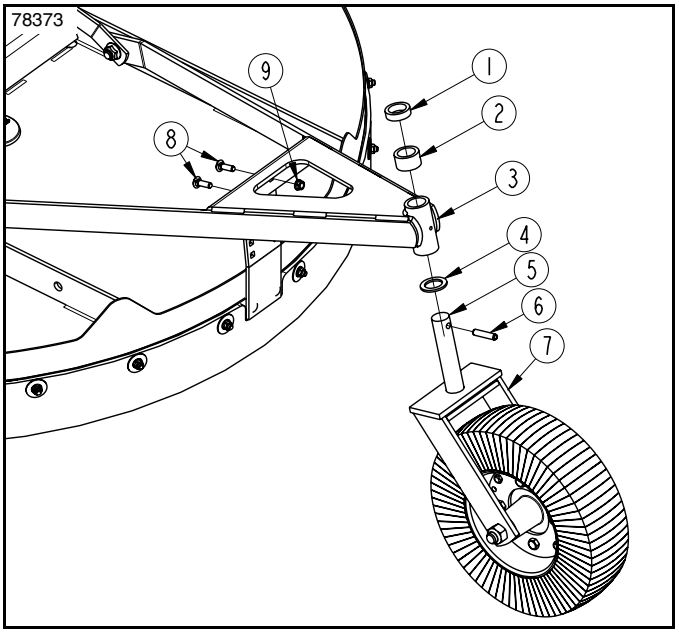
   b. If the tractor is too small to lift the cutter high enough to transport, attach 3-point hitch frame (#4) to lower hitch pin holes “A2” with hitch pins (#1), bushings (#5), flat washers (#6), lock washers (#7), and nuts (#8).
5. Tighten nuts (#8) to the correct torque.
6. Insert 7/16" linchpins (#2) in hitch pins (#1). (Customer supplies linchpins (#2).

IMPORTANT: See Detail A in Figure 1-4. Floating hitch (#13) must be installed with ears (#14) above rear straps (#16).

7. **Refer to Detail A:** Rotate 3-point hitch frame (#4) and the left-side rear strap (#16) up as follows:

NOTE: The RCR12 Series Rotary Cutters do not require the use or hole “B3” in rear straps (#16).

   a. If attaching the cutter to a 3-point **Cat. I hitch,** align hole “B1” in the left-side rear strap (#16) with hole in floating hitch (#13).
   b. If tractor is too small to lift cutter high enough for transporting, align hole “B2” in the left-side rear strap (#16) with hole in floating hitch (#13).
8. Insert 3/4"-10 x 4 1/2" GR5 bolt (#9) into the left-side rear strap (#16), floating top hitch (#13), and right-side rear strap (#16).
9. Secure bolt (#9) with hex flange locknut (#15A). Draw locknut up snug and then back off 1/4 turn.
10. Continue with **“Tailwheel Assembly”** on page 16.



Tailwheel Assembly
Figure 1-5

Tailwheel Assembly

Refer to Figure 1-5:

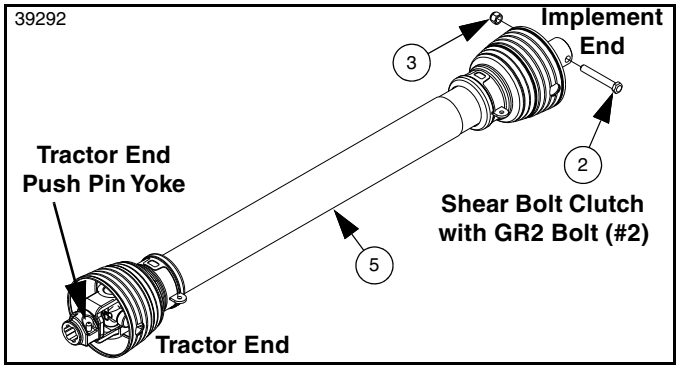
1. Install machine washer (#4) on spindle (#5).

> **NOTE:** You may need to lift the cutter rear or remove bolts (#8) to assemble tail wheel (#7).

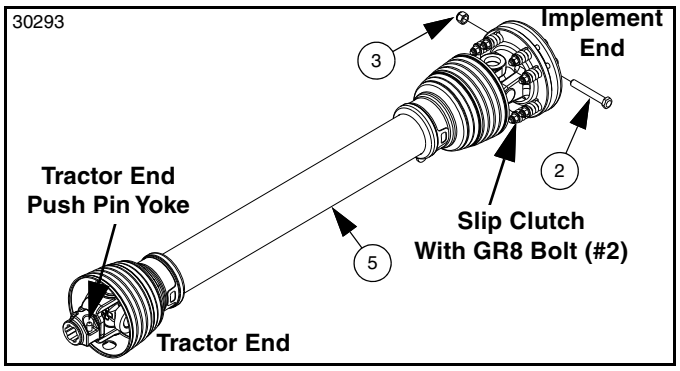
2. Insert spindle (#5) in tailwheel frame (#3).
3. Install 1" thick spacer (#2) on spindle (#5).
4. If tailwheel yoke (#7) is curved (not flat as shown), add second 1/2" thick spacer (#1) to spindle (#5). Otherwise, store the spacer. It may be needed should the gauge wheel assembly need replacing.
5. Insert roll pin (#6) in spindle (#5) above spacer (#2) or spacer (#1) if included.

Refer to Figure 1-4 on page 14:

> **NOTE:** Push/pull on hitch straps (#16). The floating top link (#13) should freely rotate up and down. If it does not, loosen locknuts (#15A and/or #15B until the floating link rotates freely at both ends.



Driveline With Shear Bolt Clutch
Figure 1-6



Driveline With Slip Clutch
Figure 1-7

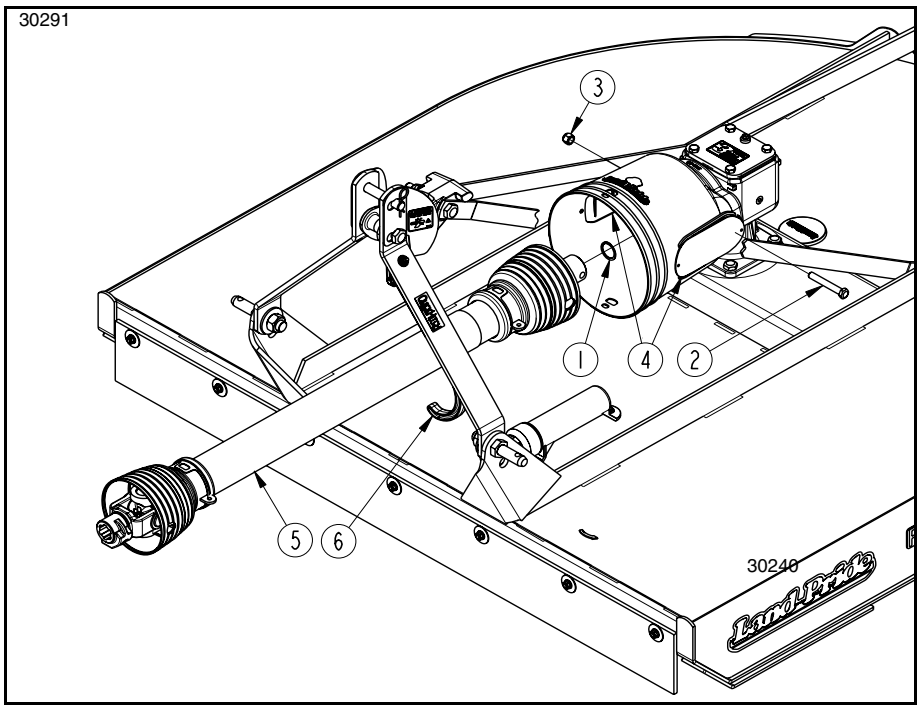
3-Point Driveline Installation

Refer to Figure 1-6 & Figure 1-7:

> **IMPORTANT:** The driveline must be lubricated before putting it into service. Refer to **"Lubrication Points"** on page 40.

The driveline is coupled to the tractor's power take-off shaft with a push pin yoke and to the implement's input shaft with either a shear bolt (Figure 1-6) or bolt on slip clutch (Figure 1-7) to protect the driveline from shock loads.

Continue driveline installation on page 17.



3-Point Driveline Installation (Shear Bolt Driveline Shown)
Figure 1-8

Refer to Figure 1-8:

NOTE: Snap ring (#1) is shipped attached to the gearbox input shaft. It stops the driveline from slipping off the shaft when high shock loads cause the shear bolt to break. DO NOT use this snap ring with a slip clutch driveline.

1. Unsnap side access covers (#4) from both sides of the gearbox shield. Save covers for reuse.
2. Remove snap ring (#1) from the gearbox input shaft. Save snap ring for reuse in step 7b.
3. Lubricate the gearbox input shaft. Refer to **"Gearbox Input Shaft"** on page 40.
4. Remove bolt (#2) from end of driveline (#5).
5. Slide driveline (#5) onto the gearbox input shaft until holes in the driveline yoke align with the hole in the gearbox input shaft.
6. Insert GR2 shear bolt or GR8 slip clutch bolt (bolt #2) through driveline yoke and gearbox input shaft. Secure bolt with removed nylock nut (#3). Do not tighten nylock nut at this time.
7. Secure driveline (#5) to the gearbox input shaft as follows:

   Driveline with a Shear Bolt Clutch

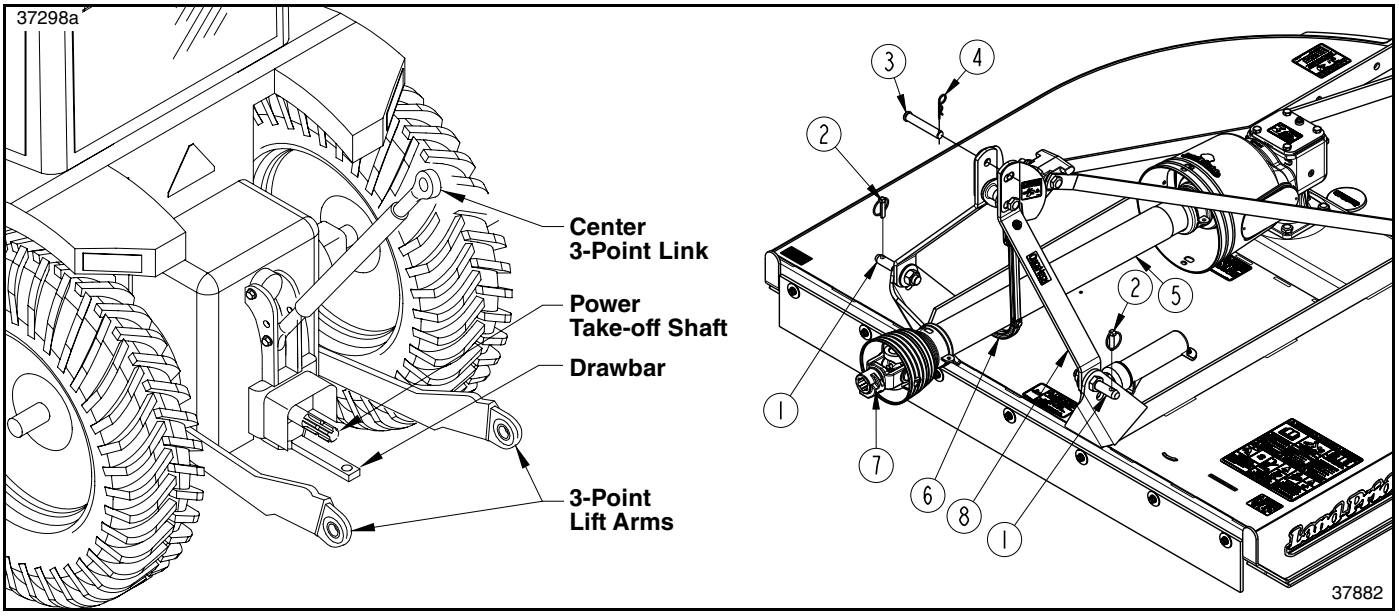
   a. Draw nylock nut (#3) up snug, do not torque tight.

   b. Reinstall snap ring (#1) on the groove located on the end of the gearbox input shaft. Make sure the snap ring is secured in the groove.

   Driveline with a Slip Clutch

   a. Discard snap ring (#1).

   b. Secure bolt (#2) with removed nylock nut (#3). Tighten nylock nut to the correct torque.
8. Reinstall access covers (#4).
9. Raise driveline (#5) up and rotate driveline hook (#6) down.
10. Lower driveline (#5) until it is resting in driveline hook (#6).
11. Continue with **"3-Point Tractor Hook-Up"** on page 18.



3-Point Tractor Hook-Up
Figure 1-9

3-Point Tractor Hook-Up

Refer to Figure 1-9:

⚠ DANGER

To avoid serious injury or death:

A crushing hazard exists while connecting and disconnecting the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.

NOTE: Land Pride's Quick Hitch can be attached to the tractor to provide quick and easy 3-point hook-up and detachment. See your nearest Land Pride dealer to purchase a Quick-Hitch.

1. Slowly back tractor up to Rotary Cutter while using tractor's 3-point hydraulic control lever to align lower 3-point lift arms holes with cutter hitch pins (#1).
2. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
3. Slide lower 3-point lift arms onto cutter hitch pins (#1). Install linchpins (#2) through hitch pin holes to lock lower 3-point arms into position. Linchpins are supplied by customer.
4. Connect top center 3-point link to upper hitch pin holes using factory supplied 3/4" clevis pin (#3). Secure clevis pin with hairpin cotter (#4).
5. Ensure tractor lower hitch arms are blocked to prevent excessive side movement.
6. Return to tractor and slowly raise and lower implement carefully to ensure drawbar, tires, and other equipment on the tractor do not make contact with cutter frame and driveline. Move or remove drawbar if needed.
7. Manually adjust one of the two lower 3-point lift arms up or down to level the Rotary Cutter from left to right. Final adjustments will be made later while **"Leveling The Rotary Cutter"** on page 23.
8. The arm lift rods on your tractor's 3-point lift arms should be adjusted to allow for lateral float. Please consult you tractor's manual for adjusting instructions.

3-Point Driveline Hook-Up

Refer to Figure 1-9 on page 18:

⚠ DANGER

To avoid serious injury or death:

- *Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.*
- *Do not engage power take-off while connecting or disconnecting the driveline, or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline.*
- *Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.*
- *Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably.*
- *All guards and shields must be installed and in good working condition while operating the implement.*

⚠ WARNING

To avoid serious injury or death:

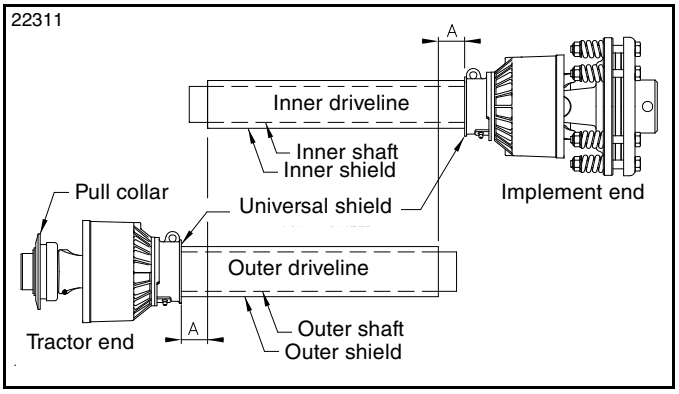
- *Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.*
- *Check driveline when lowering implement to make sure it does not interfere with the tractor drawbar at maximum depth. If needed, shut tractor off and move or remove drawbar to prevent driveline damage.*

IMPORTANT: An additional driveline may be required if implement is attached to more than one tractor or if a quick hitch is used.

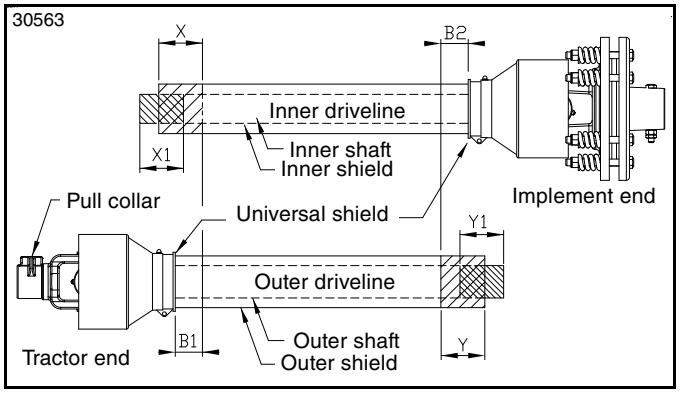
IMPORTANT: Drivelines with friction clutches must go through a "run-in" prior to initial use and after long periods of inactivity. For detailed instructions, see **"Driveline with Slip Clutch"** on page 35.

IMPORTANT: Check driveline minimum collapsible length before completing **"3-Point Driveline Hook-Up"**. Structural damage to the tractor and implement can occur if this check is not made. Refer to **"Check Driveline Collapsible Length"** on page 20.

1. If driveline collapsible length has not been checked, go to **"Check Driveline Collapsible Length"** on page 20. Otherwise, continue with step 2 below.
2. Park tractor and implement on a level surface.
3. Shut tractor down before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 28.
4. If tractor drawbar interferes with the driveline during hook-up, disconnect driveline and move drawbar forward, to the side, or remove.
5. Remove driveline (#5) from driveline support (#6). Driveline support is spring loaded and will rotate up against A-frame (#8).
6. Collapse driveline (#5) by pushing tractor end of driveline toward the cutter gearbox.
7. Push in on push pin (#7) and slide outer driveline universal joint over tractor power take-off shaft.
8. Release push pin (#7) and continue to slide universal joint over tractor power take-off shaft until push pin releases and pops up.
9. Pull on driveline yokes at the tractor and implement end to make sure they are secured to the tractor power take-off shaft and implement gearbox shaft.
10. The tractor's lower 3-point arms should be adjusted for lateral float. Please consult your tractor's manual.
11. Continue with **"Check Driveline Interference"** on page 21.



Driveline Shortening
Figure 1-10



Driveline Shortening
Figure 1-11

Check Driveline Collapsible Length

IMPORTANT: A driveline that is too long can bottom out causing structural damage to the tractor and implement. Always check driveline minimum length during initial setup, when connecting to a different tractor, and when alternating between using a quick hitch and a standard 3-point hitch. More than one driveline may be required to fit all applications.

IMPORTANT: The power take-off shaft and gearbox input shaft must be aligned and level with each other when checking driveline minimum length. A driveline that is too long can damage tractor and implement.

1. With driveline attached only to the 3-point implement, remove outer driveline (tractor end) from inner driveline to separate the two profiles.
2. Park tractor and implement on a level surface.
3. Raise implement until the gearbox input shaft is level and in-line with the tractor power take-off shaft.
4. Securely block implement at this height to keep unit from lowering.
5. With implement resting on the support blocks, Shut tractor down according to **"Tractor Shutdown Procedure"** on page 28.
6. Attach outer driveline to the tractor's power take-off shaft. Refer to steps 5-9 under **"3-Point Driveline Hook-Up"** on page 19.

Refer to Figure 1-10:

7. Hold inner and outer drivelines parallel to each other as shown and measure distance "A".
   - If "A" is less than 1" (2.5 cm), continue with step 8.
   - If "A" is greater than or equal to 1" (2.5cm), skip to **"Reassemble Driveline"** on page 20.

Refer to Figure 1-11:

8. If dimension "A" was less than 1" (2.5 cm), shorten driveline as follows:
   a. Measure 1" (2.5 cm) (**"B1"** dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.
   b. Measure 1" (2.5 cm) (**"B2"** dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.
9. Remove outer driveline from the tractor power take-off shaft and inner driveline from the implement's gearbox shaft.
10. Cut off non-yoke end of inner driveline as follows:
    a. Measure from end of inner shield to scribed mark (**"X"** dimension) and record.
    b. Cut off inner shield at the mark. Cut same amount off the inner shaft (**"X1"** dimension).
11. Cut off non-yoke end of outer driveline as follows:
    a. Measure from end of outer shield to scribed mark (**"Y"** dimension) and record.
    b. Cut off outer shield at the mark. Cut same amount off the outer shaft (**"Y1"** dimension).
12. Remove all burrs and cuttings.
13. Continue with **"Reassemble Driveline"** below.

Reassemble Driveline

Refer to Figure 1-11:

1. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.
2. Reattach driveline to tractor power take-off shaft and gearbox shaft. Refer to **"3-Point Driveline Installation"** on page 16 and **"3-Point Driveline Hook-Up"** on page 19.
3. Continue with **"Check Driveline Interference"** on page 21.

Check Driveline Interference

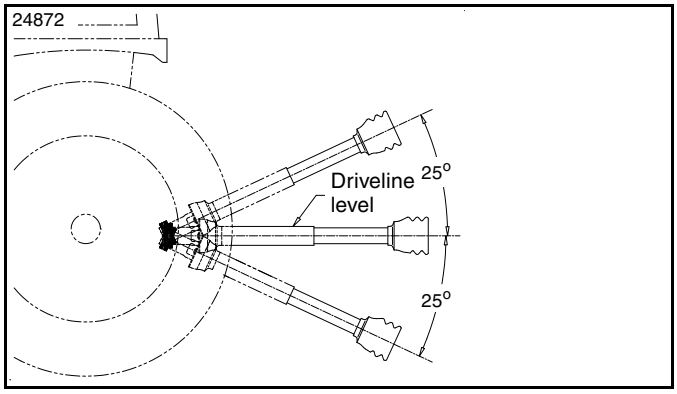
Refer to Figure 1-12:

WARNING

To avoid serious injury or death:

A rotating driveline must not exceed an angle of 25 degrees up or down, and never engage a driveline while at an angle exceeding 25 degrees up or down. The driveline can break and send flying projectiles.

1. Start tractor and raise implement slightly off the support blocks used to **"Check Driveline Collapsible Length"**. Drive forward until the implement is clear of the support blocks.
2. Slowly and carefully lower and raise the implement to ensure drawbar, tires, and other equipment on the tractor do not contact the implement's frame. If there is an interference:
   a. Back implement over the support blocks and lower it onto the blocks.
   b. Shut tractor down before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 28
   c. Move or remove drawbar if it interferes with the implement and make any other necessary corrections.
   d. Repeat steps 1-2 to verify the implement does not interfere with the tractor.
3. Start tractor, raise implement fully up. Back implement over the support blocks. Do not lower implement onto the support blocks.
4. Without changing the 3-point lift height, shut tractor down using **"Tractor Shutdown Procedure"** on page 28.
5. Check to make sure driveline does not exceed 25° above or below horizontal.
6. Start tractor, raise implement slightly, and drive forward enough to clear the support blocks.
7. Lower implement to ground and shut tractor down using **"Tractor Shutdown Procedure"** on page 28.



Maximum Allowable Driveline While Operating
Figure 1-12

Replaceable Skid Shoes (Accessory)

For RCR1260 & RCR1272 Cutters

Refer to Figure 2-1:

WARNING

To avoid serious injury or death:

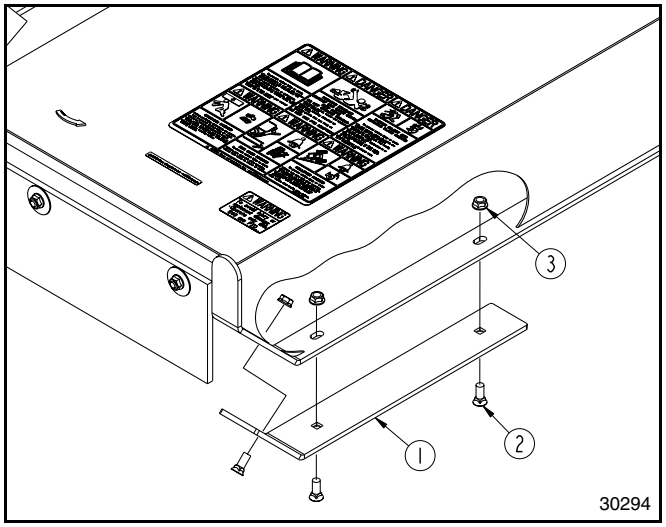
Excessive wear on skid shoes can damage side panels, cause inadequate operation of cutter, and create a safety hazard. Always replace skid shoes at the first sign of wearing thin.

Replaceable skid shoes may be purchased for the RCR1260 and RCR1272 to extend the wear life of the cutter built in skids. See your nearest Land Pride dealer to order skid shoes.

RCR1260 & RCR1272 Skid Shoes

#	Part No.	Part Description
	326-120A	SKID SHOE KIT (Consist 2 skid shoes, 6 plow bolts and 6 locknuts.)
1	326-221D	SKID SHOE
2	802-603C	PLOW BOLT 3/8-16 x 1" GR5
3	803-198C	NUT HEX WHIZ 3/8-16 PLT

1. Attach skid shoes (#1) to the cutter's side panels with 3/8" plow bolts (#2) and 3/8" hex flange locknuts (#3) as shown in Figure 2-1. Tighten locknuts to the correct torque.
2. Once installed, check skid shoes and plow bolts for wear frequently and replace as needed.



Skid Shoe Replacement
Figure 2-1

Leveling The Rotary Cutter

DANGER

To avoid serious injury or death:

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:

- *Avoid direct contact with cutter blades by wearing a pair of gloves. Cutter blades have sharp edges and burrs that can cause injuries.*
- *Always disengage power take-off, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.*

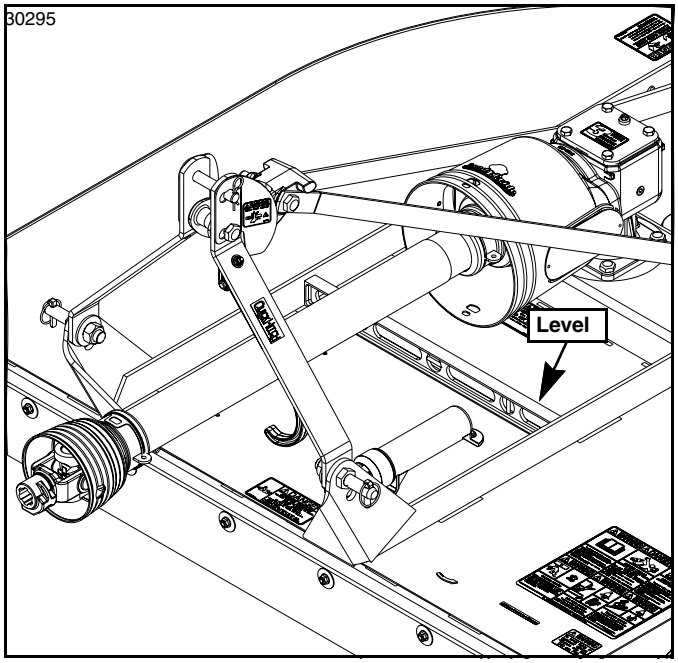
3-Point Deck Leveling

The deck must be leveled side to side and front to back.

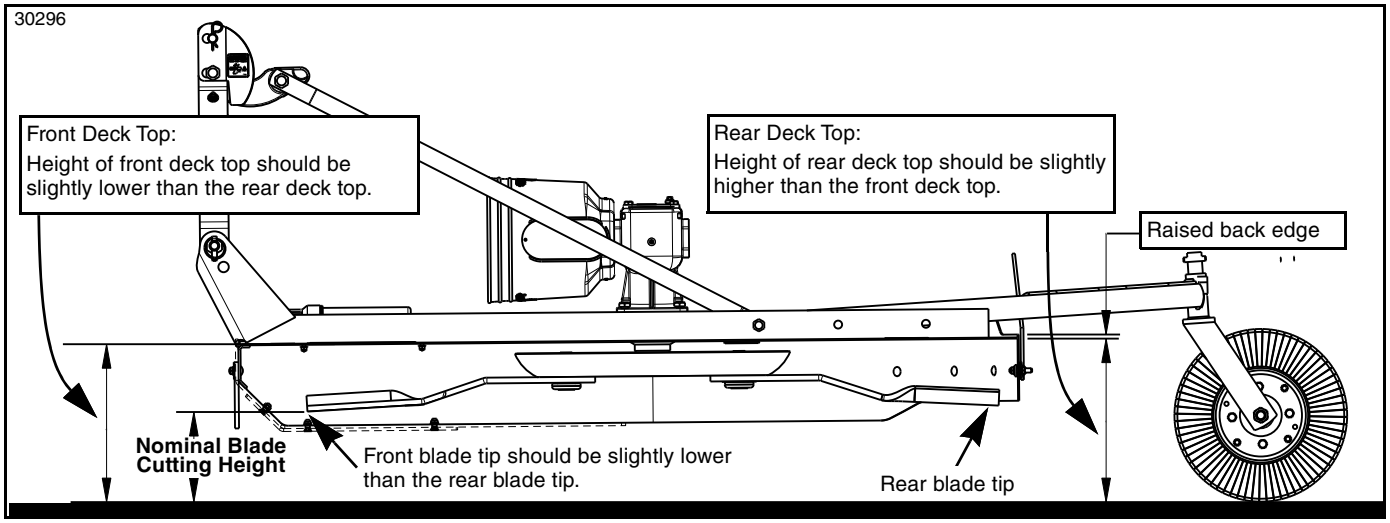
Deck Leveling, Side to Side

Figure 3-1:

1. Locate tractor with Rotary Cutter on a flat, level surface.
2. Use tractor's hydraulic 3-point control lever to lower cutter until the tailwheel makes contact with the ground surface.
3. Place a level on the front of the cutter deck as shown in Figure 3-1. Manually adjust either one or both of the tractor's lower 3-point arms to level the deck from side to side. Some tractors have only a single adjusting arm.
4. Continue with **"Deck Leveling, Front to Back"** on page 24.



3-Point Deck Leveling, Side to Side
Figure 3-1



3-point Deck Leveling, Front to Back
Figure 3-2

Deck Leveling, Front to Back

Figure 3-2:

IMPORTANT: The front blade tip should be slightly lower than the rear blade tip (about 1" or 2.5 cm lower). If not, the cutter is subject to continuous material flow under it's deck causing horsepower loss, grass clumps, blade wear, and frequent blade sharpening.

1. Using the tractor's 3-point hydraulic control lever, adjust tractor's lower 3-point arms up or down until the deck front is slightly lower than the deck rear.
2. Without changing the 3-point arm lift height, shut tractor down according to **"Tractor Shutdown Procedure"** on page 28.
3. Adjusted the tractor's cener 3-point link. Refer to **"Tractor Center 3-Point Adjustment"** on page 25.

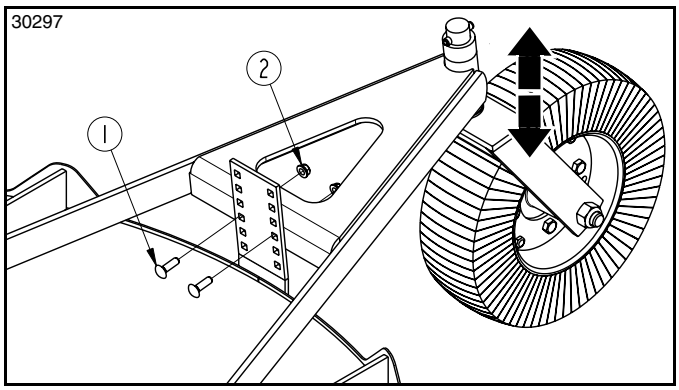
NOTE: When measuring the height of the deck at the back, be sure to subtract the height the raised edge on the back extends above the deck top.

4. Measure deck height at the front and back to verify that the front is slightly lower than the back.
5. Continue with **"Adjust Deck Cutting Height"** on this page.

Adjust Deck Cutting Height

Make sure instructions for **"Deck Leveling, Front to Back"** on this page have been completed before checking nominal deck cutting height.

1. Restart tractor, engage blades, and travel forward cutting grass for about 25-30 feet (8-10 meters).
2. Without changing the 3-point arm height, shut tractor down according to **"Tractor Shutdown Procedure"** on page 28.
3. Measure height of the cut grass.
4. If the desired cutting height is different than the cut grass height, readjust the tailwheel height. Refer to **"Tailwheel Height Adjustment"** on page 25.
5. Adjust center 3-point link as needed to realign the upper clevis pin vertically above lower hitch pins. Refer to **"Tractor Center 3-Point Adjustment"** on page 25.
6. Repeat steps 1 to 5 until desired cutting height is achieved.
7. Set tractor's 3-point hydraulic control stop at this height.



Tailwheel Height Adjustment
Figure 3-3

Tailwheel Height Adjustment

Refer to Figure 3-3:

The tailwheel will need to be adjusted up or down if nominal cutting height is too high or too low and cannot be corrected by adjusting the 3-point lower arms up or down.

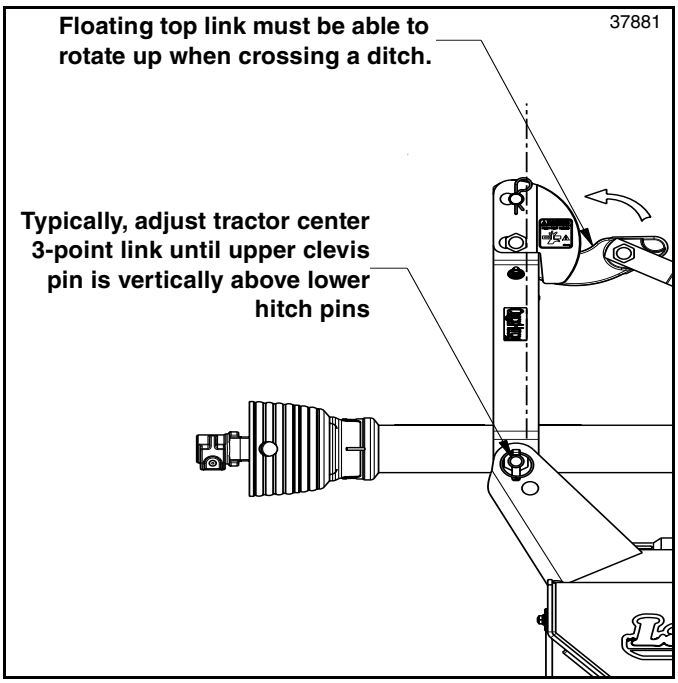
Make sure instructions for **"Deck Leveling, Front to Back"** on page 24 have been followed before adjusting the tailwheel height below.

1. Use the tractor's 3-point hydraulic control, lift the tailwheel slightly off the ground.
2. Without changing the 3-point arm height, shut the tractor down according to **"Tractor Shutdown Procedure"** on page 28.
3. Support the back of the cutter deck with non-concrete support blocks.
4. Remove flange nuts (#2) and carriage bolts (#1).
5. Adjust tailwheel up or down as follows:

NOTE: Each bolt hole the tailwheel is adjusted up or down, changes the tailwheel height vertically by approximately 2" (5 cm).

- If the cut grass was measured to be too high, adjust the tailwheel up by the distance the grass is too high.
- If the cut grass was measured to be is too low, adjust the tailwheel down by the distance the grass is too low.

6. Replace carriage bolts (#1) and whiz nuts (#2). Draw whiz nuts up snug, do not tighten until after readjusting the deck level from front to back. Refer to **"Deck Leveling, Front to Back"** on page 24.
7. After the nominal cutting height and tailwheel height are adjusted correctly, tighten whiz nuts (#2) to the correct torque for a 3-8"-16 GR5 bolt.
8. Continue with **"Tractor Center 3-Point Adjustment"** on this page.



Center 3-Point Link Adjustment
Figure 3-4

Tractor Center 3-Point Adjustment

Refer to Figure 3-4:

NOTE: Customer may adjust center 3-point link to his or her preference. Lengthening center 3-point link allows more movement while going over raised surfaces. Shortening the link allows more movement while crossing over ditches. Also, shortening center link allows the cutter to be carried higher while traveling. Never length center link to where the cutter is carried too low.

1. Typically the center 3-point link is adjusted so that the upper 3-point clevis pin is straight above the lower 3-point hitch pins. This arrangement allows for optimum ground contour following performance.
2. Lock center link in this position once correct length is achieved. Adjustment to the center 3-point link can be made depending on customer's preference.

Operating 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 Cutter. Therefore, it is absolutely essential that no one operates the cutter unless they have read, fully understood, and are totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, page 1
- **Section 1: Assembly & Set-up,** page 12
- **Section 2: Accessories**, page 22
- **Section 3: Adjustments**, page 23
- **Section 4: Operating Procedures**, page 26
- **Section 5: Maintenance & Lubrication**, page 31

Perform the following inspections before using your Rotary Cutter.

Operating Checklist

✔	Check	Page
	Make sure all guards and shields are in place. Refer to "Important Safety Information".	1
	Read & follow hook-up & preparation instructions. Refer to "Section 1: Assembly & Set-up".	18
	Read and make all required adjustments. Refer to "Section 3: Adjustments".	23
	Lubricate cutter and driveline as needed. Refer to "Lubrication Points".	40
	Make sure all gearboxes are properly lubricated and that all oil plugs have been replaced properly. Refer to Gearbox lubrication.	41
	Check cutter initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	46

Inspection of Tractor & Cutter

Make the following inspections with cutter attached to a tractor, power take-off disengaged, and cutter blades stopped.

1. Park tractor and cutter on a level surface.
2. Disengage power take-off, place gear selector in park, set park brake, shut tractor off, and remove switch key. Make sure cutter blades have come to a complete stop before dismounting from tractor.
3. Inspect tractor safety equipment to make sure it is installed and in good working condition.
4. Inspect cutter safety equipment to make sure it is installed and in good working condition.
5. Check driveline to make certain it is securely connected to the tractor power take-off shaft and cutter gearbox shaft.
6. Check driveline guards to make certain they are in good condition and in place.
7. Carefully raise and lower implement to ensure that the drawbar, tires, and other equipment on the tractor do not contact cutter frame or driveline.
8. With cutter resting on solid supports, power take-off disengaged, and blade rotation completely stopped:
   - Check for and remove foreign objects wrapped around blade spindles.
   - Check for nicked, bent, broken, and worn cutting blades. Replace or sharpen blades as required. Refer to **"Cutter Blade Maintenance"** on page 32.
9. Remove solid supports from under the deck.
10. Verify cutter is set at the correct cutting height. See **"Adjust Deck Cutting Height"** on page 24.

The remaining inspections are made by engaging the power take-off to check for vibrations.

⚠ WARNING

To avoid serious injury or death:

- *Stop power take-off immediately if vibration continues after a few revolutions during start-up and anytime thereafter. Wait for all components to come to a complete stop before dismounting from tractor to check for probable causes. Make necessary repairs and adjustments before continuing.*
- *Some tractors are equipped with two power take-off speeds. Be certain your tractor's power take-off shaft is set-up to operate at 540 rpm. Do not exceed 540 rpm power take-off speed. Excessive speed can damage drive/driven components and increase the risk of a thrown object hazard.*

11. Start tractor, set throttle to idle or slightly above idle, and slowly engage power take-off. Initial start-up vibration is normal and should stop after a few revolutions. Stop power take-off rotation immediately if vibration continues.
12. Once the cutter is running smoothly, increase tractor power take-off speed to 540 rpm. Stop power take-off rotation immediately if vibration occurs.
13. Investigate cause of vibration and make repairs before putting cutter back into service.

Safety Information

DANGER

To avoid serious injury or death:

- *Never place hands or feet under the deck or attempt to make adjustments to the cutter with power take-off engaged. Cutter blades rotating at high speeds cannot be seen and are located close to the deck sides. Body extremities will be cut off instantly.*
- *Do not engage power take-off while connecting or disconnecting the driveline, or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline.*
- *Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.*
- *Clear area to be cut of debris and other unforeseen removable objects before cutting. Mark non-removable hazards such as tree stumps, post stubs, protruding objects, rocks, drop-offs, holes, etc. with a visible flag.*
- *Rotary Cutters have the ability to discharge objects at high speeds; therefore, the use of front & rear safety guards is mandatory with this cutter. Stop blade rotation if bystanders are in or around the area. It is recommended that a safety shield be placed between the operator and cutter on an open air tractor.*
- *All guards and shields must be installed and in good working condition while operating the implement.*
- *Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.*
- *Always disconnect the driveline from the power take-off shaft before servicing underside of cutter. The tractor can be started with the power take-off engaged.*
- *Do not use cutter as a fan. Cutting blades are not properly designed or guarded for this use.*

WARNING

To avoid serious injury or death:

- *Allow only persons to operate this implement who have fully read and comprehended this manual, and who are properly trained in the safe operation of this implement.*
- *Do not operate and/or travel across inclines where the tractor and/or implement can rollover. Consult your tractor's manual for acceptable inclines the tractor is capable of traveling across.*
- *Never carry riders on the implement or tractor. 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.*
- *A rotating driveline must not exceed an angle of 25 degrees up or down, and never engage a driveline while at an angle exceeding 25 degrees up or down. The driveline can break and send flying projectiles.*
- *Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds. Always remove the implement from use until the damaged driveline can be repaired or replaced.*
- *Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.*
- *Always disengage power take-off before lifting cutter fully up. Never operate cutter in the raised position. The cutter can discharge objects at high speeds.*
- *Do not use implement as a man lift or work platform. It is not properly designed or guarded for this use.*
- *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 use implement to lift objects; to pull objects such as fence posts, stumps, etc; or to push objects. The unit is not designed or guarded for these uses.*
- *Select a safe ground speed that will allow adequate control of steering and stopping. Never exceed 20 mph (32 km/h) with attached equipment. Rough terrain requires a slower speed.*
- *Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris.*
- *Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level.*
- *Do not exceed rated cutting capacity of your cutter. See specifications & capacities for specified cutting capacity. Exceeding rated cutting capacity can damage drive components, cutter blades, and deck components.*
- *Some tractors are equipped with two power take-off speeds. Be certain your tractor's power take-off shaft is set-up to operate at 540 rpm. Do not exceed 540 rpm power take-off speed. Excessive speed can damage drive/driven components and increase the risk of a thrown object hazard.*

Tractor Shutdown Procedure

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

1. Reduce engine speed and disengage power take-off if engaged.
2. Park tractor and implement on level, solid ground.
3. Lower implement to ground or onto non-concrete support blocks.
4. Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
5. Relieve all hydraulic pressure to auxiliary hydraulic lines.
6. Wait for all components to come to a complete stop before leaving the operator's seat.
7. Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.

Transporting

WARNING

To avoid serious injury or death:

- *When traveling on public roadways, travel in such a way that faster moving vehicles may pass safely. Use hazard lights, clean reflectors, and a slow moving vehicle sign that is visible from the back to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.*
- *Always disengage power take-off and wait for the driveline to stop rotating before raising the implement to the transport position.*

1. Make sure driveline does not contact tractor or cutter when raising cutter to transport position.
2. Reduce tractor ground speed when turning and leave enough clearance so cutter does not contact obstacles such as buildings, trees, or fences.
3. Limit transport speed to 20 mph (32 km/h). Transport only with a farm tractor of sufficient size and horsepower.
4. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
5. Shift tractor to a lower gear when traveling over rough or hilly terrain.

Blade Engagement & Disengagement

Cutter blades can lock-up against each other during start-up and shut-down especially if the tractor's power take-off engagement is **"INSTANT ON"** and **"INSTANT OFF"**. Following Blade Engagement and Blade Disengagement instructions below will help eliminate blade lock up.

Blade Engagement

1. Increase throttle to a speed just enough to get the cutter started without stalling tractor while slowly engaging drivelines. Use tractor's power take-off soft start option if available.
2. Ensure that all power shafts are rotating and that the cutter is not vibrating excessively after ramping up to power take-off speed for at least 3 seconds. If excessive vibration continues after 3 seconds at full power take-off speed, disengage power take-off immediately, shut down tractor, and remove switch key.
3. Check blades for a lock-up situation. Block cutter deck up before working under the unit. Unlock blades, remove support blocks, and repeat **"Blade Engagement"** instructions.

Blade Disengagement

1. Slowly decrease throttle speed until engine idle speed is reached and then disengage power take-off.
2. Engage tractor park brake, shut tractor engine off and remove switch key. Stay on tractor until blades have come to a complete stop.

Field Operation

DANGER

To avoid serious injury or death:

Clear area to be cut of debris and other unforeseen removable objects before cutting. Mark non-removable hazards such as tree stumps, post stubs, protruding objects, rocks, drop-offs, holes, etc. with a visible flag.

IMPORTANT: Maintain correct power take-off speed. Loss of power take-off speed will allow blades to swing back resulting in ragged, uneven cutting.

IMPORTANT: Your cutter is equipped with free swinging cutting blades to reduce shock loads when striking obstacles. However, it is best to avoid striking obstacles to extend cutter and blade life.

NOTE: Do not cut in wet conditions. Wet material will build up on the deck underside creating poor discharge, high wear, and additional horsepower.

NOTE: Periodically disengage power take-off, turn off tractor, remove key & check for objects wrapped around blade spindle. Block deck up before removing objects.

Frequently inspect cutter for loose bolts and nuts. Tighten all loose hardware as indicated in the **"Torque Values Chart"** on page 46.

1. Thoroughly inspect area to be cut for debris and unforeseen objects. Mark any potential hazards.
2. Follow **"Blade Engagement"** instructions on this page to start cutter blades turning.
3. Optimum ground speed depends on density of material being cut, horsepower rating of tractor, and terrain. Always operate tractor at cutter's full rated power take-off speed in a gear range that allows the cutter to make a smooth cut without lugging tractor down, usually between 2-5 mph (3-8 km/h).
4. Stop traveling and disengage power take-off after the first 50 ft (15 m) of cutting. Check cutter levelness and cutting height to make certain it is adjusted properly.
5. Do not engage power take-off with 3-point cutter fully raised.
6. Periodically disengage power take-off, shut down tractor, remove key, and check for foreign objects wrapped around the blade spindle. Block cutter deck up before removing objects.
7. Frequently inspect cutter for loose bolts and nuts. Tighten all loose bolts and nuts as indicated in the **"Torque Values Chart"** on page 46.
8. For additional information, see **"General Operating Instructions"** on page 30.

Unhook Rotary Cutter

The following steps should be taken when preparing to store the cutter or to unhook it from the tractor.

1. See **"Long-Term Storage"** on page 38 if cutter is to be stored for a long time.
2. Park on a level solid surface and lower deck to ground level or onto support blocks.
3. Continue unhooking the tiller as follows:
   - **3-Point Hitch:** Continue with step 4 below.
   - **KH15 Hitch:** Refer to your KH15 Hitch Operator's Manual No. 320-135MK. If you cannot locate it, one can be downloaded, free-of-charge, from our website at ww.landpride.com.
4. Shut tractor down according to **"Tractor Shutdown Procedure"** on page 28. Stay on the tractor until the blades have come to a complete stop.
5. **Refer to Figure 5-3 on page 34:** Push in and hold on the yoke push pin. Slide driveline yoke from the tractor's power take-off shaft.
6. Unhook 3-point hitch from tractor and drive tractor forward several feet.
7. Reinstall hitch pins, linchpins, and hair pin cotters in cutter hitch for safe keeping.
8. Collapse driveline by pushing tractor end of driveline towards cutter gearbox.
9. Support collapsed driveline off the ground by rotating driveline hook holder under driveline and letting driveline rest in J-hook for storage.

General Operating Instructions

It is important that you familiarized yourself with the Operator's Manual, completed Operators Checklist, properly attached cutter to your tractor, made leveling adjustments, and preset your cutting height before beginning a running operational safety check on your Land Pride Rotary Cutter.

The running operational safety check may now be done. It is important that at any time during this safety check you detect a malfunction in either the cutter or tractor that you immediately shut the tractor off, remove it's key, and make necessary repairs and/or adjustments before continuing on.

Make sure before starting the tractor that the park brake is engaged, the power take-off is disengaged, and the cutter is resting on the ground. Start the tractor and set the engine throttle speed at a low idle. Raise the cutter with the tractor's rear hydraulic lift control lever to transport position making sure that the power take-off shaft does not bind and does not contact the cutter frame. Lower the cutter to the ground and at a low engine speed engage the power take-off. If everything is running smoothly at a low idle, slowly raise the cutter to transport height checking for bind or chatter in the driveline. Lower the cutter to the ground and increase the tractor's engine rpm until it reaches the cutter full power take-off operating speed of 540 rpm. If everything is still running smoothly, once more raise the cutter to transport height to check for driveline bind or chatter. Lower the cutter to the ground, return the engine to a low idle, and disengage the power take-off. Position the adjustable stops on the tractor's 3-point lift lever so the cutter can be consistently returned to the same cutting height and transport height.

You should now be ready to transport to your cutting site at a safe ground speed. On roadways transport in such a manner that faster moving vehicles can easily see you and pass you safely. Reduce your speed when traveling over rough and hilly terrain. Avoid quick or sharp steering corrections. Take extra care to ensure that the mower doesn't come into contact with obstacles such as trees, buildings, or fences. Use accessory lights and appropriate reflective devices to provide adequate warning to pedestrians and other vehicle operators when traveling on public roads and in the dark of night. Comply with all local, state, and federal laws.

It is important that you inspect the area where you will be cutting and clear it of hazards and foreign objects before you start mowing. Never assume the area is clear. Cut only in areas you are familiar with and are free of foreign objects. Extremely tall grass should be cut twice to detect potential hazards. In the event you do strike an object, stop the cutter and tractor immediately to inspect and make any necessary repairs to the cutter before resuming operation. Remove or clearly mark the struck object to prevent hitting it again.It really pays to inspect a new area and to develop a safe plan before cutting.

You will need to maintain 540 rpm power take-off speed and 2-5 mph (3.2 to 8.0 km/h) ground speed to produce a clean cut. Make a tractor gear and range selection that will enable you to maintain these speed combinations. Generally the quality of cut is better at lower ground speeds. Dense ground cover will create the need to slow down even more. In certain conditions tractor tires will roll grass down resulting in an uneven cut when grass fails to rebound. Should this happen, you may try reversing the direction of cut and/or double cut to achieve the desired finish. Avoid very low cutting heights especially on extremely uneven terrain. Always cut downward on slopes and avoid crossing the face of steep slopes. Avoid sharp drops and cross diagonally through dips to prevent hanging up tractor and cutter. Slow down in turns. Remember to look back often.

Now that you're prepared and well briefed you may begin cutting. Begin by doing the following:

- Reducing tractor's engine rpm.
- Make sure cutter is on the ground in cutting position and then engage power take-off.
- Raise engine rpm to the appropriate 540 power take-off speed and begin cutting.

Make wide turns when possible. 3-Point hitch and optional Quick Hitch models can be lifted into transport position to make tight turns and to reverse direction. Try increasing or decreasing ground speed to determine the effect on quality of cut. With a little practice you will be pleased with what you and your Land Pride Rotary Cutter can do.

Whether you are done mowing, need to take a break, or just need to make a few adjustments to the cutter, remember to always shut the tractor down using **"Tractor Shutdown Procedure"** on page 28.

Maintenance

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

Check all bolts and pins after using the implement for several hours and on a regular basis thereafter to ensure they are tight and secured. Tighten all loose hardware as indicated in the **"Torque Values Chart"** on page 46. Replace worn, damaged, or illegible safety labels by obtaining new labels from your Great Plains dealer.

Periodically, disengage power take-off, stop tractor, place gear selector in park or set park brake, turn off tractor, remove switch key and wait for blades to stop rotating before dismounting. Dismount tractor and check for objects wrapped around blade spindles. Block deck up before removing objects.

DANGER

To avoid serious injury or death:

- *Always disconnect the driveline from the power take-off shaft before servicing underside of cutter. The tractor can be started with the power take-off engaged.*
- *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:

- *Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.*
- *Make sure controls are all in the neutral position or park before starting the power machine.*
- *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 implement or replace parts on the implement 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 implement. Replace parts only with genuine OEM parts.*
- *Do not operate cutter with blades that are out-of-balance, bent, excessively worn, excessively nicked, or with blade bolts that are excessively worn. Damaged components can break at high speeds and be ejected in a hazardous manner.*
- *Do not attempt to straighten a bent blade or weld on a blade. Do not attempt to modify a blade such as hard surfacing, heat treating, cold treating, or by any other method. Always replace blades with genuine OEM blades to assure safety.*
- *Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris.*
- *Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level.*

Hydraulic System

WARNING

To avoid 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.

One of the most important things you can do to prevent hydraulic system problems is to ensure your tractor's hydraulic reservoir remains free of dirt and other contaminations.

Use a clean cloth to wipe hose ends clean before attaching them to your tractor. Replace tractor hydraulic filter element at the prescribed intervals. These simple maintenances will go a long way to prevent occurrence of control valve and hydraulic cylinder problems.

Check for signs of damaged or worn hydraulic hoses, fittings and cylinders before each use of the cutter. Replace damaged components as needed. Order only genuine Great Plains parts from your local Great Plains dealer.

Cutter Blade Maintenance

DANGER

To avoid serious injury or death:

- *Always disconnect the driveline from the power take-off shaft before servicing underside of cutter. The tractor can be started with the power take-off engaged.*
- *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.*

IMPORTANT: Only replace cutting blades in pairs with genuine OEM blades. Replacing single blades can result in an out-of-balance condition that will contribute to premature bearing wear/breakage and/or structural cracks in gearbox and/or deck.

Always inspect cutting blades before each use. Make certain they are properly installed and are in good working condition. Replace any blade that is damaged, worn, bent, or excessively nicked. Never try to straighten a bent blade! Small nicks can be ground out when sharpening.

Remove blades and sharpen or replace them as follows:

1. Place tractor gear selector in park and/or set brakes, shut engine off, and remove ignition key.
2. Disconnect main driveline from tractor power take-off and secure cutter deck in the up position with solid supports before servicing underside of cutter.

Refer to Figure 5-1 on page 33:

3. Remove access cover (#5).
4. Rotate blade bolt (#1) until in alignment with access hole (A).
5. Unscrew locknut (#3) to remove cutting blade (#6). Blade bolt (#1) is keyed and will not turn freely.
6. Both blades should be sharpened at the same angle as the original cutting edge and must be replaced or re-ground at the same time to maintain proper balance in the cutting unit. The following precautions should be taken when sharpening blades:
   a. Do not remove more material than necessary.
   b. Do not heat and pound out a cutting edge.
   c. Do not grind blades to a razor edge. Leave a blunt cutting edge approximately 1/16" (2 mm) thick.
   d. Always grind cutting edge so end of blade remains square to cutting edge and not rounded.
   e. Do not sharpen back side of blade.
   f. Both blades should weigh the same with not more than 1 1/2 oz (0.04 kg) difference. Unbalanced blades will cause excessive vibration which can damage gearbox bearings and create structural cracks.

Refer to Figure 5-2 on page 33:

7. Carefully check cutting edges of blades in relation to blade carrier rotation to ensure correct blade placement. Blade Rotation is counterclockwise with cutting edge leading. Airfoil (lift) must be oriented towards the top of the deck.

Refer to Figure 5-1 on page 33:

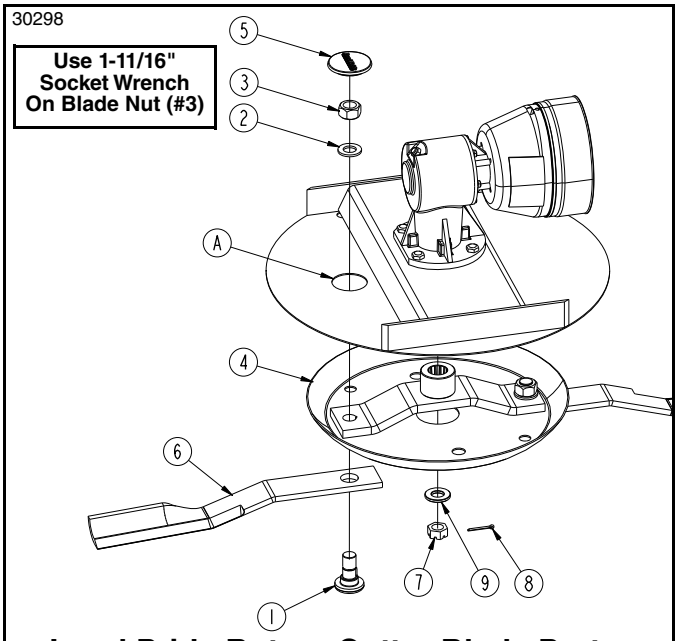
WARNING

To avoid serious injury or death:

A locknut that has been removed can lose its thread locking properties. Reusing a used locknut can result in a thrown blade. Always use a new locknut when installing blades.

IMPORTANT: Examine blade bolts (#1) and flat washers (#2) for excessive wear and replace if worn.

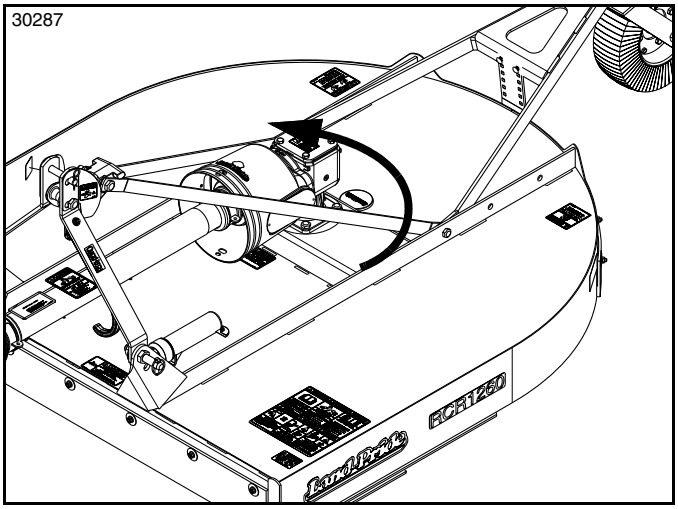
8. Insert blade bolt (#1) through blade (#6), dish pan (#4), and flat washer (#2). Secure blade with a **new locknut (#3)** and torque to 450 ft-lbs (610 N·m).
9. Replace access cover (#5).
10. If replacing dishpan (#4), nut (#7) on gearbox output shaft should be torqued to 450 ft-lbs (610 N·m) minimum and secured with cotter pin (#8) with both legs bent opposite directions around the nut.



Land Pride Rotary Cutter Blade Parts

Item	Part No.	Part Description
	326-185A	BLADE BOLT KIT (Items 1, 2, & 3 below)
1	802-920C	BLD BOLT 1 1/8-12 x 3 1/2" with 3/16" KEY
2	804-147C	WASHER FLAT 1 1/4 SAE PLAIN
3	803-170C	NUT HEX TOP LOCK 1 1/8-12 PLT.
4	326-367H	DISHPAN 15 1/2", RCR12 SERIES
5	840-273C	PLUG LP 3" ID RUBBER
6	820-065C	48"CUTTER BLADE 1/2 x 3 x 18 3/4 CCW
6	820-198C	60" CUTTER BLADE 1/2" x 3" x 25" CCW
6	820-199C	72" CUTTER BLADE 1/2" x 3 x 31" CCW
7	803-095C	NUT HEX SLOTTED 1-14
8	805-017C	PIN COTTER 3/16 X 1 3/4 PLT
9	804-070C	FLAT WASHER 1 SPECIAL

Cutter Blade Assembly
Figure 5-1



Counterclockwise Blade Rotation
Figure 5-2

Driveline Maintenance

DANGER

To prevent serious injury or death:

- *Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.*
- *Always disconnect driveline from the tractor before servicing the drivetrain and components powered by the drivetrain. A person can become entangled in the drivetrain if the tractor is started and the power take-off is engaged.*

WARNING

To prevent serious injury or death:

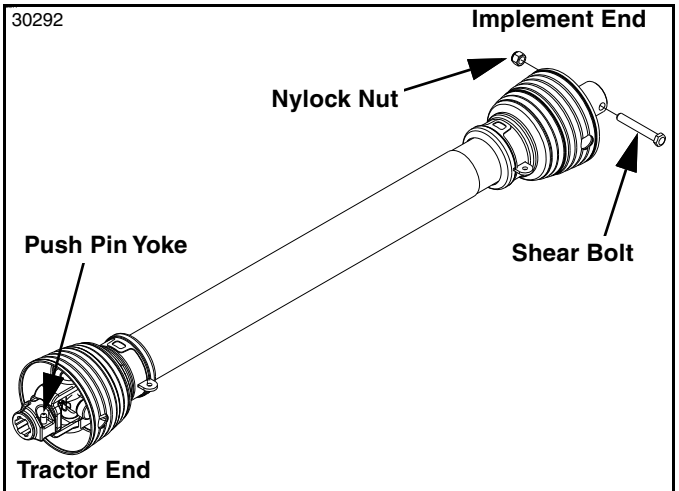
- *Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.*
- *Do not operate a shear bolt driveline if the snap ring is missing on the gearbox shaft. This snap ring prevents the driveline from slipping off the shaft when the shear bolt shears.*
- *A slip clutch that has been in use or has slipped for as little as only two or three seconds during run-in may be too hot to touch. Allow a hot clutch to cool before working on it.*
- *Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds. Always remove the implement from use until the damaged driveline can be repaired or replaced.*

Shear Bolt Protected Drivelines

This driveline is attached to the cutter with a shear bolt. The shear bolt is designed to protect the drivetrain and tractor by shearing when the blades make contact with objects that cannot be cut easily. Replace shear bolt & nylock nut with only genuine Land Pride part numbers. Do not use a shear bolt with a higher grade value as it may not protect the drivetrain and tractor. See available replacement part numbers below. Refer to **"Driveline with Shear Bolt Clutch"** on this page for detailed maintenance instructions.

Slip-Clutch Protected Drivelines

The drive-train is protected from shock loads with a two plate slip-clutch. The slip-clutch must be capable of slippage during operation. Always do a "clutch run-in" operation at the beginning of each season and after long periods of inactivity to remove any oxidation that may have accumulated on the friction surfaces. Repeat "clutch run-in" instructions when moisture and/or condensation seizes the inner friction plates. Refer to **"Driveline with Slip Clutch"** on page 35 for detailed maintenance instructions.



Shear Bolt & Nylock Nut Part Numbers

Part No.	Part Description
802-264C	HHCS 1/2-13X3 1/2 GR2
803-147C	NYLOCK NUT HEX 1/2-13 PLT

Shear Bolt Protected Driveline
Figure 5-3

Driveline with Shear Bolt Clutch

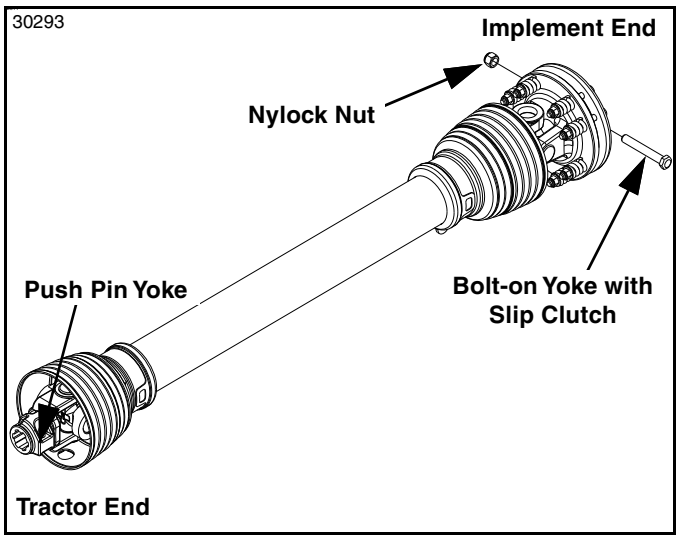
Refer to Figure 5-3:

IMPORTANT: Replace shear bolts with genuine OEM shear bolts.

Shock loads can cause shear bolt breakage. Avoid accidental breakage by engaging power take-off at a low engine rpm. Increase engine speed to 540 rpm only after the blades are rotating.

Should the cutter hit a solid object, the shear bolt will shear. Replace shear bolt as follows:

1. Shut tractor down according to **"Tractor Shutdown Procedure"** on page 28.
2. **Refer to Figure 1-8 on page 17:** Unsnap side access covers (#4) on the gearbox shield. Keep access covers for reuse.
3. At the implement end, align the holes in the driveline yoke with the hole in the gearbox input shaft. If the two holes cannot be aligned, disconnect the driveline from the tractor by pushing in on the push pin and pulling back on the driveline.
4. Install a new shear bolt in the yoke and secure it with a new nylock nut. Draw nylock nut up snug, do not torque the nut. Torquing the nut can prevent the shear bolt from shearing.
5. Reinstall access covers (#4).
6. If removed, reattach the driveline to the tractor. Refer to **"3-Point Driveline Hook-Up"** on page 19.



Slip Clutch Protected Driveline
Figure 5-4

Driveline with Slip Clutch

Refer to Figure 5-4:

⚠ WARNING

To avoid serious injury or death:

Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.

The slip clutch is designed to protect the drivetrain from shock loads. To do this, the clutch must be capable of slippage during operation. To verify the clutch will slip, a **"Clutch Run-in"** operation must be completed.

⚠ WARNING

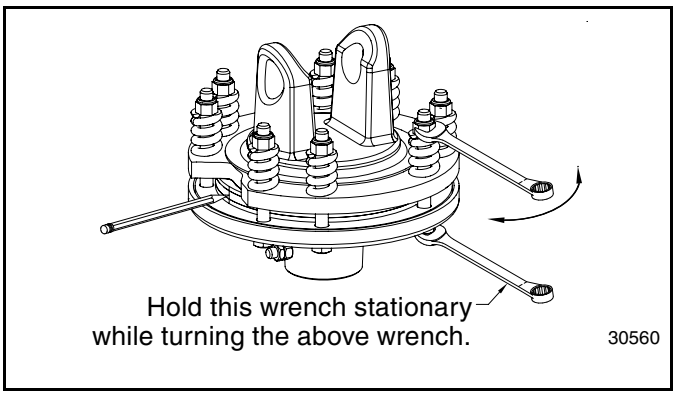
To avoid serious injury or death:

A slip clutch that has been in use or has slipped for as little as only two or three seconds during run-in may be too hot to touch. Allow a hot clutch to cool before working on it.

IMPORTANT: Prior to initial operation and after 30 days of inactivity, slip friction disks to remove oxidation and moisture. Moisture allows disks to slip easily. Oxidation can prevent disk from slipping causing driveline damage. This damage is NOT covered under the warranty.

Cutter drive components are protected from shock loads by either a two plate friction clutch or a shear bolt.

The shear bolt is designed to shear off when the blade impacts objects that the cutter is not designed to cut through. Avoid shear bolt failure by engaging the power take-off slowly at low engine rpm. See your Land Pride dealer when replacing shear bolts. Using higher grade shear bolt may result in driveline, gearbox, and/or tractor power take-off damage.



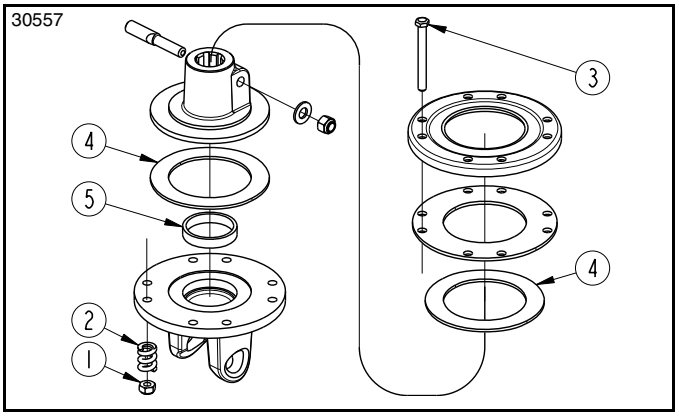
Clutch Run-In
Figure 5-5

Slip Clutch Run-In

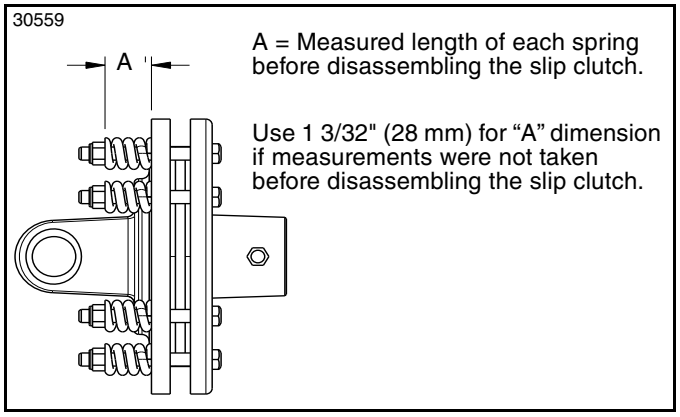
The clutch must be capable of slippage during operation to protect gearbox, driveline, and other drive train parts. Friction clutches should be "run-in" prior to initial operation and after long periods of inactivity. To prevent driveline and gearbox damage, repeat clutch "run-in" at the beginning of each season and when moisture and/or condensation seizes the inner friction plates.

Refer to Figure 5-5:

1. Using a pencil or other marker scribe a line across the exposed edges of the clutch plates and friction disks.
2. Carefully loosen each of the 8 spring retainer nuts by exactly 2 revolutions. It will be necessary to hold the hex end of the retainer bolt in order to count the exact number of revolutions.
3. Start the tractor and engage the driveline drive for 2-3 seconds to permit slippage of the clutch surfaces. Disengage the driveline, then re-engage a second time for 2-3 seconds. Disengage driveline, shut off tractor, and remove key. Wait for all components to stop before dismounting from tractor.
4. Shut tractor down according to **"Tractor Shutdown Procedure"** on page 28.
5. Inspect the clutch and ensure that the scribed markings made on the clutch plates have changed position. Slippage has not occurred if any two marks on the friction disk and plate are still aligned. A clutch that has not slipped must be disassembled to separate the friction disk plates. See **"Slip-Clutch Disassembly"** to disassemble clutch.
6. Tighten each of the 8 spring retainer nuts on the clutch housing exactly 2 revolutions to restore the clutch to the original setting pressure.
7. The clutch should be checked during the first hour of operation and periodically each week. An additional set of scribe marks can be added to check for slippage. See **"Slip-Clutch Assembly"** to adjust for proper spring length.



Clutch Disassembly
Figure 5-6



Clutch Spring Adjustment
Figure 5-7

Slip-Clutch Disassembly

If the clutch run-in procedure, (See **"Slip Clutch Run-In"** on page 35), indicated that one or more of the friction disks did not slip, the clutch must be disassembled to separate the friction discs.

1. Shut tractor down according to **"Tractor Shutdown Procedure"** on page 28.
2. Allow clutch to cool to ambient temperature before working on the clutch.
3. At the back of the tractor, push in and hold the push pin on the driveline yoke while pulling the driveline from the tractor's power take-off shaft.
4. **Refer to Figure 1-8 on page 17:** At the cutter's gearbox shield, unsnap side access covers (#4) and remove. Keep access covers for reuse.
5. **Refer to Figure 5-4 on page 35:** Remove nylock nut and bolt from the yoke and removed the driveline from the gearbox.

Refer to Figure 5-7:

IMPORTANT: Be sure to measure and record length ("A") of each spring before disassembling the clutch.

6. Measure and recording each spring length before disassembling the clutch.

Refer to Figure 5-6:

7. Remove spring retainer nuts (#1), springs (#2), and bolts (#3) from the assembly.
8. Each friction disk (#4) must then be separated from the metal surface adjacent to it.

Inspection

1. Inspect all parts for excessive wear and condition. Clean all parts that do not require replacement.The original disk thickness is 1/8" (3 mm) and should be replaced if the thickness falls below 3/32" (2.4 mm).
2. If the clutch have been slipped to the point of "smoking", the friction disks may be damaged and should be replaced. Heat build-up may also affect the yoke joints.

Slip-Clutch Assembly

Refer to Figure 5-6:

1. Reassemble each friction disk (#4) next to the metal plate it was separated from.
2. Make certain bushing (#5) is replaced in the same location as when it was removed.
3. Install bolts (#3) through end plates and intermediate plates as shown.
4. Place springs (#2) over the bolts and secure with nuts (#1).

Refer to Figure 5-7:

5. Progressively tighten each spring retainer bolt until correct spring height ("A" dimension) is reached.

IMPORTANT: Always lubricate the gearbox input shaft before reattaching the driveline to the gearbox. Refer to **"Gearbox Input Shaft"** on page 40.

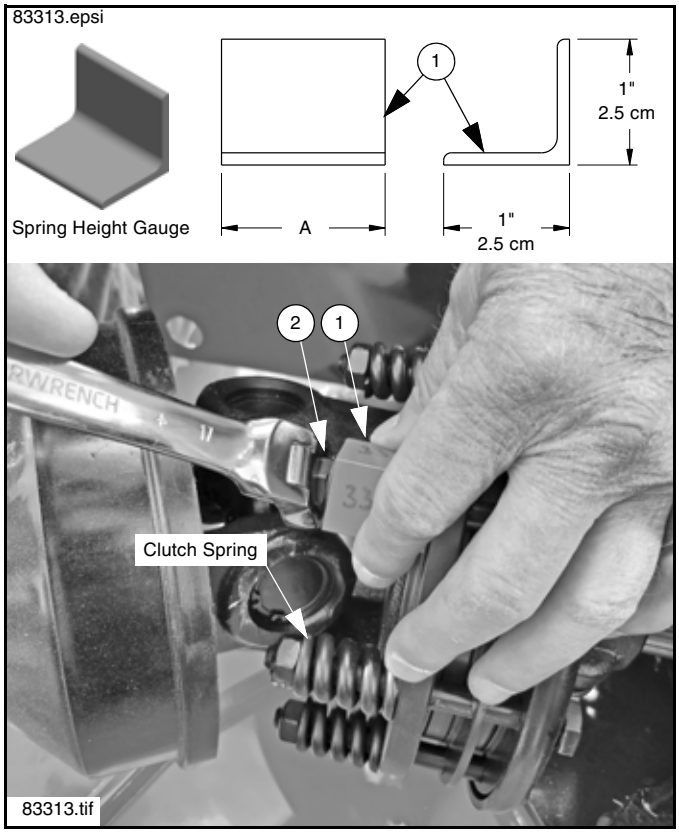
6. Reattach driveline to the cutter. Refer to **"3-Point Driveline Installation"** on page 16.
7. If needed, hook-up driveline to the tractor. Refer to **"3-Point Driveline Hook-Up"** on page 19.

Spring Height Gauge

Refer to Figure 5-8:

A spring gauge can be made to measure the spring height. This gauge will save time tightening the springs and can be reused each time the spring nuts are loosened and re-tightened.

1. Cut a 1" x 1" angle iron (#1) to length “A” provided in Figure 5-7. (Angle iron supplied by customer.)
2. Place fabricated gauge (#1) over a spring and its end against the clutch plate.
3. Tighten spring nut (#2) until the bottom of the nut is flush with the top of the angle gauge.
4. Repeat steps 2-3 on each clutch spring.



Spring Height Gauge
Figure 5-8

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 to ensure the unit is ready for field use the next time you hook-up to it.

DANGER

To avoid serious injury or death:

- *Always disconnect the driveline from the power take-off shaft before servicing drivetrain and cutter blades. The power take-off can be engaged if the tractor is started.*
- *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.*

1. Clean off any dirt and grease that may have accumulated on the cutter and moving parts. Scrape off compacted dirt from the bottom of deck and then wash surface thoroughly with a garden hose. A coating of oil may also be applied to the lower deck area to minimize oxidation.
2. See **"Cutter Blade Maintenance"** on page 32. Check blades and blade bolts for wear and replace if needed.
3. Inspect for loose, damaged, or worn parts and adjust or replace as needed.
4. Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Land Pride 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.

Land Pride Touch-up Paint

Part No.	Part Description
821-066C	PAINT ORANGE SPRAY CAN
821-070C	PAINT GP GLOSS BLACK SPRAY CAN

5. Replace all damaged or missing decals.
6. Be certain to purge gauge wheel spindle tube with grease to keep moisture out. Lubricate all other wear surfaces as noted under **"Lubrication Points"** on page 40.
7. Store cutter on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer cutter life.
8. Follow all unhooking instructions on page 29 when disconnecting tractor from cutter.

Ordering Replacement Parts

Land Pride offers equipment in factory standard Beige with black highlights. This implement is also available in Orange.

When ordering an optional color, the suffix number corresponding to the color must be added at the end of the part number. Parts ordered without the suffix number will be supplied in factory standard colors.

82 . . . . . Orange **85. . . . . Black**

For example, if you are ordering a replacement part with part number 555-555C and the existing part is orange, then add the suffix 82 to the end of the number to make the part number read 555-555C82.

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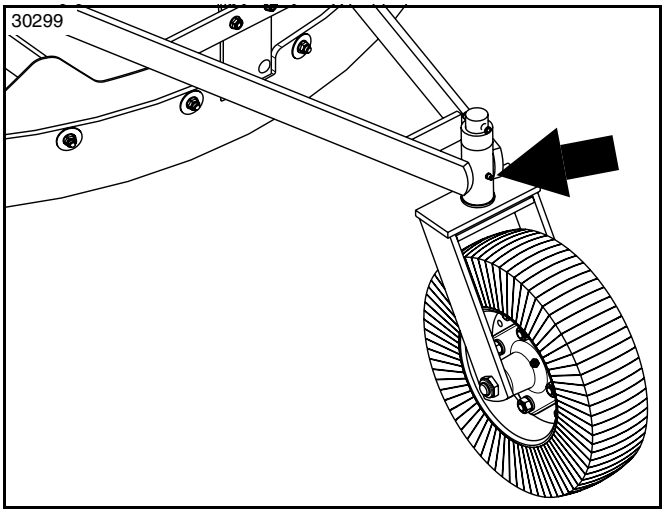
Lubrication Points

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



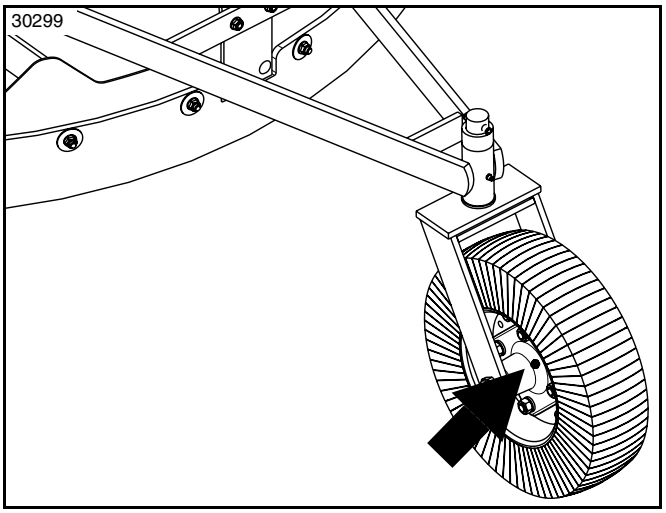
8 Hours

Gauge Wheel Spindle Tube

IMPORTANT: See step 6 under **"Long-Term Storage"** on page 38 when parking unit for an extended period.

Type of Lubrication: Multi-purpose Grease

Quantity = Until grease purges from spindle tube.



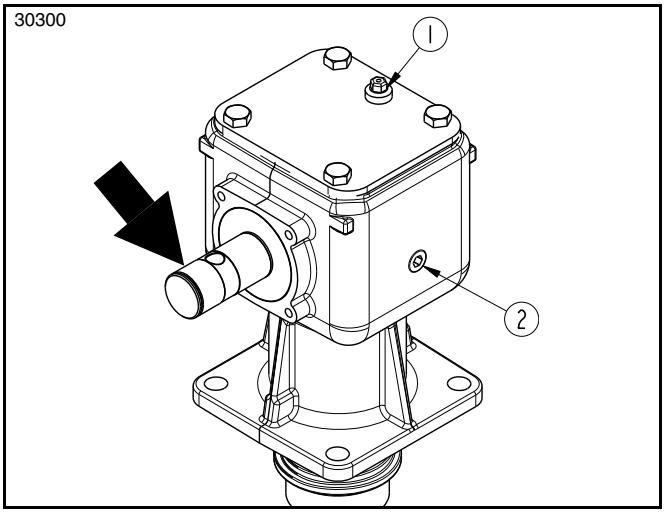
8 Hours

Gauge Wheel Hub

The gauge wheel hub is equipped with a relief hole located directly opposite the grease fitting. The relief hole releases pressure from inside the hub casting when it is greased. The hub should be greased until grease purges from the relief hole.

Type of Lubrication: Multi-purpose Grease

Quantity = Until grease purges from the relief hole.



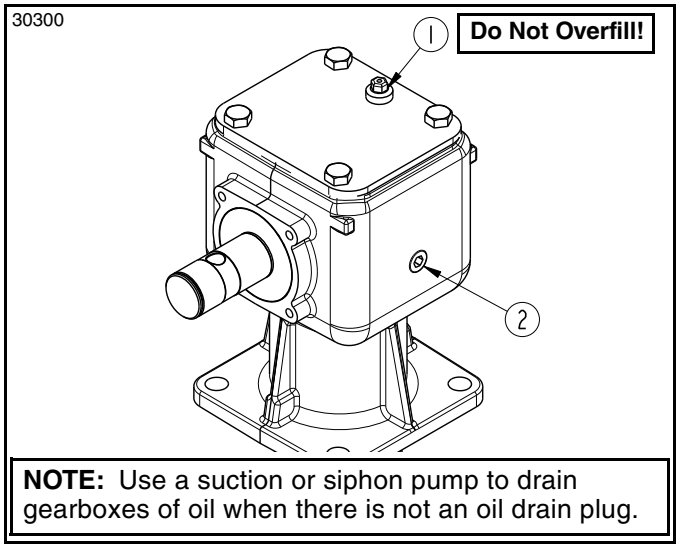
As Required

Gearbox Input Shaft

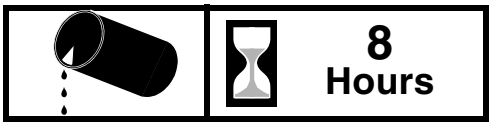
Always lubricate all surfaces of the gearbox input shaft before installing the driveline. At the beginning of each season, remove the driveline from the gearbox and lubricate all surfaces of the gearbox input shaft.

Type of Lubrication: Multi-Purpose

Quantity = Thin Coat



NOTE: Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.



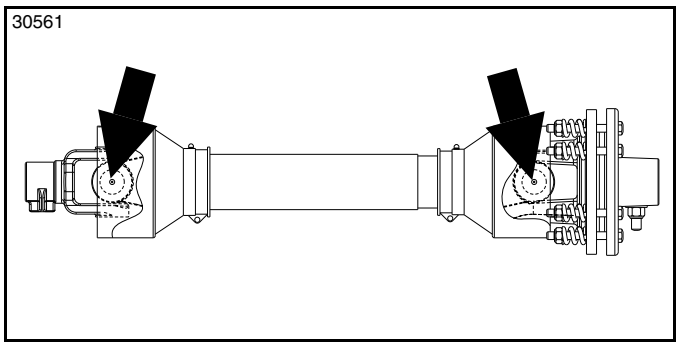
Gearbox

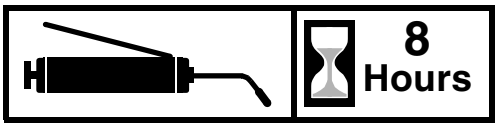
NOTE: Do not overfill! Cutter should be level when checking oil. Oil expands when hot, therefore, always check oil level when cold.

Remove rear oil plug (#2). If oil is below bottom of plug hole, add recommended gear lube through top vented plug hole until oil flows out of rear plug hole. Reinstall and tighten rear oil plug (#2) and top vented plug (#1).

Type of Lubrication: 80-90W EP Gear Lube

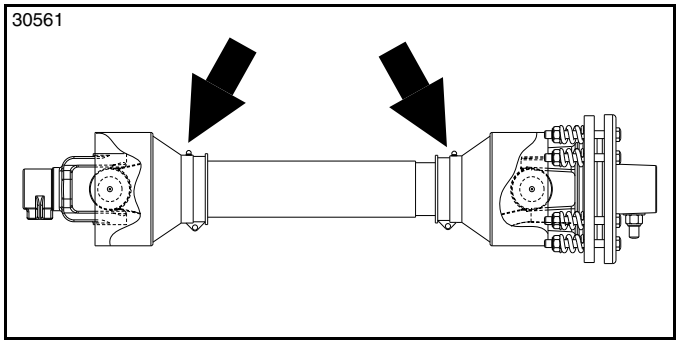
Quantity = Fill until oil begins to flow out rear plug hole in the gearbox.

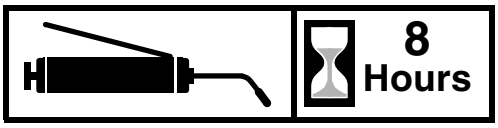




Driveline U-Joints (with or w/o clutch)

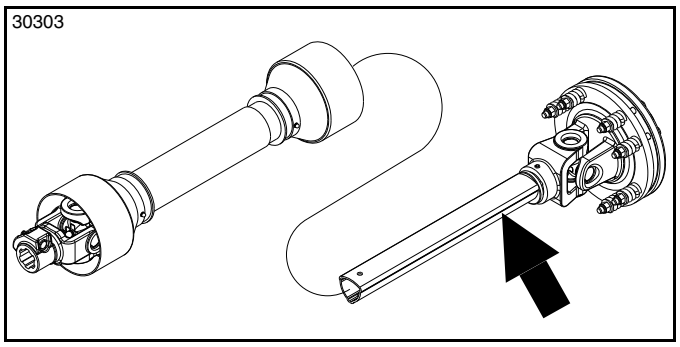
Type of Lubrication: Multi-purpose Grease
Quantity = 6 pumps

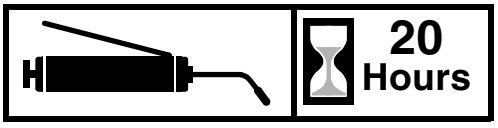




Driveline Shields (with or w/o clutch)

Type of Lubrication: Multi-purpose Grease
Quantity = 6 pumps



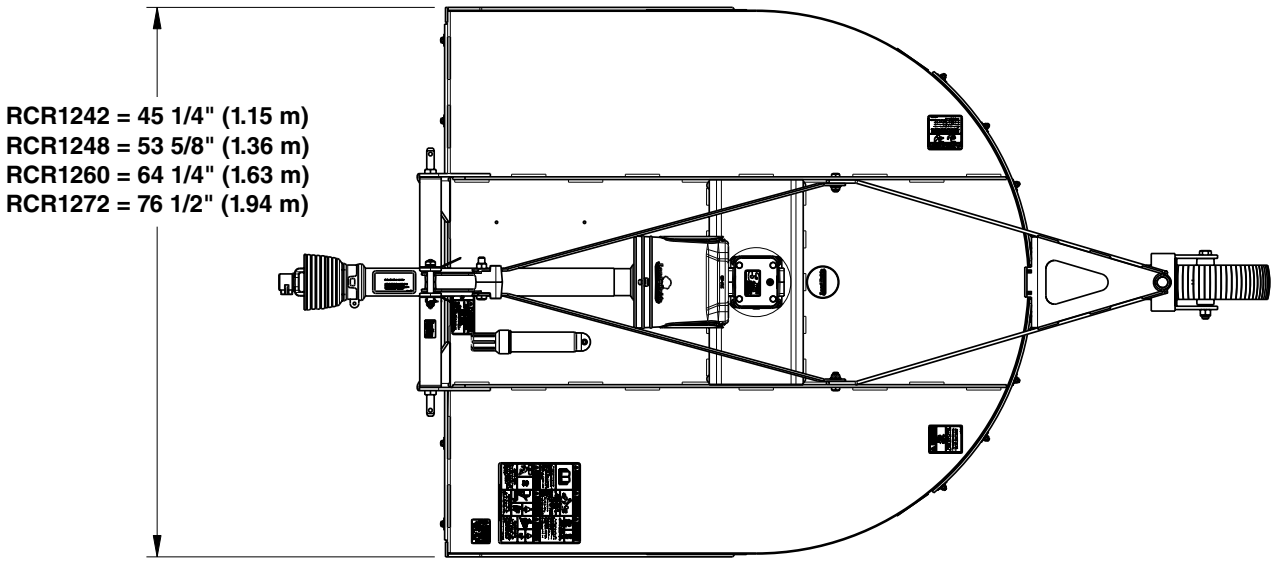


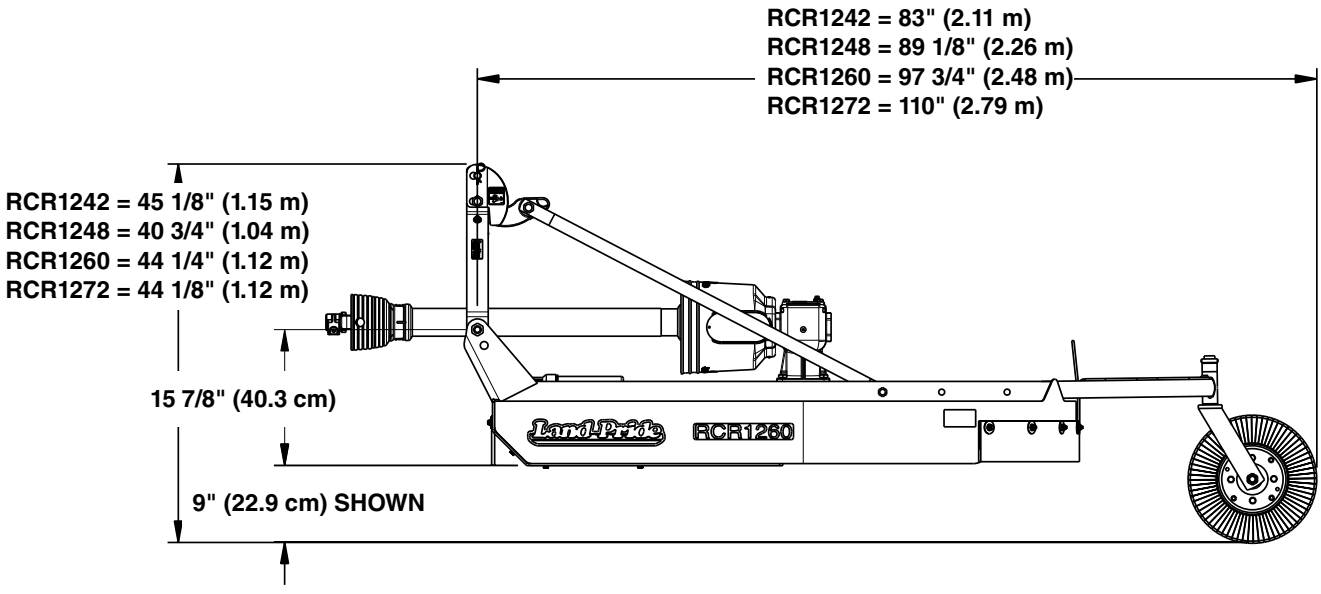
Driveline Profiles (with or w/o clutch)

Quantity = Clean & coat the inner tube of the driveline with a light film of Multi-purpose Grease and then reassemble.

RCR12 Series

Specifications & Capacities				
Model Numbers	**RCR1242**	**RCR1248**	**RCR1260**	**RCR1272**
Weight (With shear bolt driveline, laminated tire, front guard, and rear guard except as noted)	385 lbs. (175 kg) without rear guard	413 lbs. (187 kg)	496 lbs. (225 kg)	568 lbs. (258 kg)
Hitch	Category I (Quick hitch ready)			
Cutting Width	42" (1.07 m)	48" (1.22 m)	60" (1.52 m)	72" (1.83 m)
Overall Width	45 1/4" (1.15 m)	53 5/8" (1.36 m)	64 1/4" (1.63 m)	76 1/2" (1.94 m)
Overall Length (Including Tailwheel)	83" (2.11 m)	89 1/8" (2.26 m)	97 3/4" (2.48 m)	110" (2.79 m)
Deck Height	7 1/4" (18.4 cm)			
Cutting Height	1 1/4" - 10" (3.2cm. - 25.4 cm)			
Cutting Capacity	Grass, weeds & light brush			
Recommended Tractor Horsepower	18-40 hp (13.4-29.8 kw)	20-60 hp (14.9-44.7 kw)		25 -60 hp (18.6-44.7 kw)
Power Take-Off Speed	540 rpm			
Gearbox Rating Horsepower	60 hp (44.7 kw)			
Gearbox (Speed up beveled gears)	1:1.93 Speed-up Cast iron housing			1:1.47 Speed-up Cast iron housing
Gearbox Lubrication & Capacity	1.9 Pint (.9 L) With new Comer gearboxes - 1.1 Pint (0.52 L) of gear lube 80-90W EP			
Deck Construction	1 Piece reinforced deck			2 Piece reinforced deck
Deck Material Thickness	12 Gauge (2.7 mm)			
Skids	12 Gauge (2.7 mm) (Formed in deck)		1/4" (6.35 mm) (Welded on deck)	
Skid Shoes	Not Available		Bolt-on replaceable skid shoes (Sold separately through parts department only)	
Stump Jumper	Round Pan 10 ga x 24" (61.0 cm)			
Blades (2)	1/2" x 3" (13mm x 76 mm) Heat treated alloy steel Free-swinging blades			
Blade Bolts	Keyed with harden flat washer and locknut			
Blade Tip Speed	11,417 fpm (58.0 mps)	13,256 fpm (67.3 mps)	16,536 fpm (84.0 mps)	15,033 fpm (76.4 mps)
Driveline	ASAE Category 3			
Driveline Protection Options	1/2" (13 mm) Center shear bolt protection or center bolt 2 plate slip clutch			
Tailwheel	4" x 8" Laminated tire and yoke			
Front rubber safety guard	Standard	Standard	Standard	Standard
Rear rubber safety guard	Not available	Standard	Standard	Standard


RCR1242 = 45 1/4" (1.15 m)
RCR1248 = 53 5/8" (1.36 m)
RCR1260 = 64 1/4" (1.63 m)
RCR1272 = 76 1/2" (1.94 m)


RCR1242 = 83" (2.11 m)
RCR1248 = 89 1/8" (2.26 m)
RCR1260 = 97 3/4" (2.48 m)
RCR1272 = 110" (2.79 m)
RCR1242 = 45 1/8" (1.15 m)
RCR1248 = 40 3/4" (1.04 m)
RCR1260 = 44 1/4" (1.12 m)
RCR1272 = 44 1/8" (1.12 m)
15 7/8" (40.3 cm)
9" (22.9 cm) SHOWN
RCR1260

30320

RCR12 Series

Features	Benefits
Surpassed rugged industry standards	All Land Pride cutters have been designed and tested and meet rigorous voluntary testing procedures specified by ANSI.
Tractor Horsepower range	18 - 60 hp (13-45 kW)
5 Year limited gearbox warranty	Quality and dependability to handle tough mowing applications. Demonstrates Land Pride's confidence in the integrity of our gearboxes.
Cat. 3 driveline with shear-bolt	Shear bolt offers maximum driveline protection.
Cat. 3 driveline with 2-plate slip-clutch	Slip-clutch driveline offers convenience for continual work.
Floating top link	Provides for easy hook-up. Permits deck to follow the terrain for an even cut. Two hole position to allow greater lift leverage for smaller tractors.
Round back design	Helps discharge grass better than enclosed or partially enclosed cutters.
Cutting Height 1 1/4" - 10" (3.2-25.4 cm)	Cutting height for wide range of cutting conditions.
Skid shoes (Accessory) RCR1260 & RCR1272 only	Provides sidewall reinforcement and helps protect bottom of sidewall.
Heat-treated free swinging blades	Free swinging protects from obstructions. Heat-treated offers longer life.
Splined blade bar hub	Allows for tight positive fit of stump jumper and blade bar to gearbox output shaft.
10 Gauge stump jumper	Allows cutter to slide over obstructions protecting the gearbox output shaft.
High blade tip speed	Ensures clean cut.
Laminated tailwheel	Laminated material is long lasting in rough conditions and can't go flat.
Heavy-duty spindle on tailwheel	1 1/4" spindle gives the strength to protect tailwheel assembly.
Rubber guarding	Protect against flying debris.
Metal Guarding	Protects against flying debris.

RCR12 Series

Problem	Cause	Solution
Oil seal leaking	Gearbox overfilled	Drain to side plug hole
	Seals damaged	Replace seals
	Grass or wire wrapped on shaft in seal area	check seal areas daily
Driveline yoke or cross failing	Shock load	Avoid hitting solid objects
	Needs lubrication	Lubricate every 8 hours
Driveline clutch is slipping	Scalping the ground	Raise cutting height
	Cutting too fast	Reduce travel speed
	power take-off being engaged too fast at high engine rpm	Slowly engage power take-off at low engine rpm
	Cutting over solid objects	Avoid solid objects
	Clutch spring not set correctly	Check dimension for spring setting on clutch
Bent Driveline (NOTE: driveline should be repaired or replaced if bent)	Contacting frame	Reduce lift height in transport position
	Contacting drawbar	Reposition drawbar
	Bottoming out	Shorten driveline
Driveline telescoping tube failing	Needs lubrication	Lubricate every 20 hours
	Shock load	Avoid hitting solid objects
Driveline telescoping tube wearing	Needs lubrication	Lubricate every 20 hours
Blades wearing excessively	Cutting on sandy ground	Raise cutting height
	Contacting ground frequently	Raise cutting height
Blades breaking	Hitting solid objects	Avoid hitting solid objects
Blades coming loose	Blades not tightened properly	Tighten blade hardware (refer to “Cutter Blade Maintenance” on page 32
	Not using new nut when replacing blades	Use new nuts
Blade carrier becomes loose	Running loose in the past	Replace gearbox output shaft and blade carrier
	Blade carrier hardware not tight enough	Tighten to specified torque
Blade bolt holes worn	Blade hardware running loose	Replace blades, blade bolts, and nuts if worn
Blade carrier bent	Hitting solid objects	Avoid hitting solid objects and replace blade carrier
Excessive side skid wear	Cutting height not level	Adjust cutter height
	Soil abrasive	Adjust cutter height
	Cutting too low	Adjust cutter height
Tail wheel support failing	Lowering too fast	Adjust rate of drop
	Hitting objects when turning	Reduce speed on turns
Excessive vibration	Driveline bent	Replace driveline
	Blades loose	Tighten blade bolts
	Blade carrier bent	Replace blade carrier
	Blade broken	Replace blade
	Blade will not swing	Remove and inspect blade
	Blades have unequal weight	Replace both blades
	Dishpan bent	Replace dishpan

Torque Values Chart for Common Bolt Sizes

Bolt Size (inches)	Bolt Head Identification Grade 2		Grade 5		Grade 8	
in-tpi [1]	N · m [2]	ft-lb [3]	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16" - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1-1/8" - 12	540	395	1210	890	1960	1440
1-1/4" - 7	680	500	1520	1120	2460	1820
1-1/4" - 12	750	555	1680	1240	2730	2010
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

Bolt Size (Metric)	Bolt Head Identification 5.8 Class 5.8		8.8 Class 8.8		10.9 Class 10.9	
mm x pitch [4]	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	38	72	53
M10 X 1.25	35	26	53	39	76	56
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

[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.
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).

Additional Torque Values

Blade Bolt Locknut	450 ft-lbs (610 N·m)
Blade Carrier Hub Nut	450 ft-lbs (610 N·m) Minimum

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.

Overall Unit: One year Parts and Labor

Gearbox: S/N 2354203+ or retailed and warranty registered after 2/1/25
5 Years Limited: 3 years Full Warranty, Parts and Labor
Years 4 and 5 covers Parts Only including seals

Blades, tires and driveline friction discs: Considered wear items

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 such as blades, belts, tines, etc. 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** _____

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