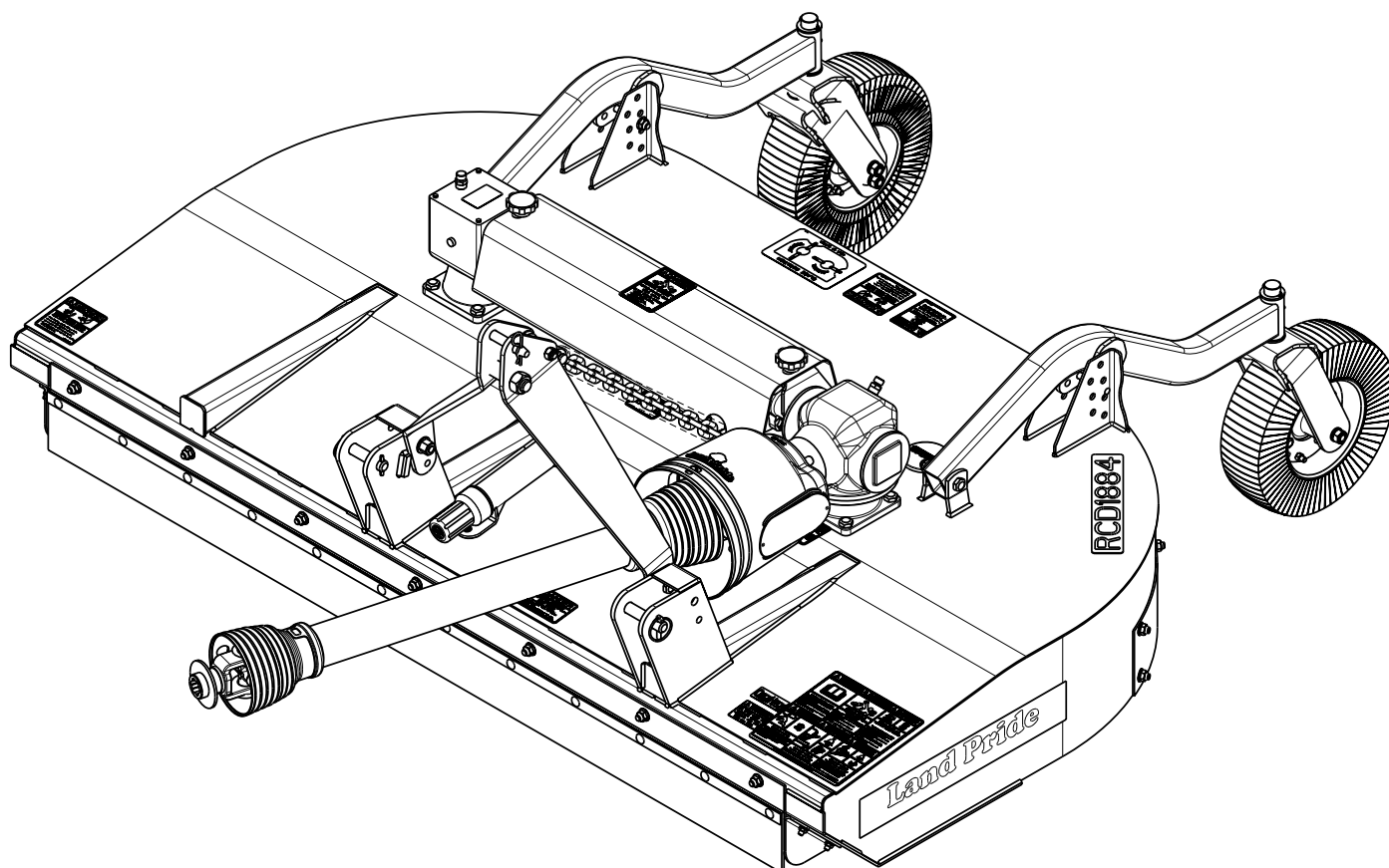


Rotary Cutters

RCD1884



30965

326-355M 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 Language, please see your Land Pride dealer.





Machine Identification

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

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

Model Number	
Serial Number	
Machine Height	
Machine Length	
Machine Width	
Machine Weight	
Delivery Date	
First Operation	
Accessories	

Dealer Contact Information


Name: _____

Street: _____

City/State: _____

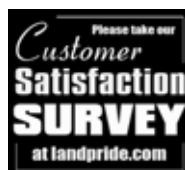
Telephone: _____

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 .



Important Safety Information	1	Section 4: Operating Instructions	26
Safety at All Times	1	Operating Checklist	26
Look for the Safety Alert Symbol	1	Safety Information	26
Be Aware of Signal Words	1	Inspection of Tractor & Cutter	27
Be Aware of Special Notices	1	Transporting	27
Safety Labels	6	Blade Engagement & Disengagement	28
Introduction:	11	Blade Engagement	28
Application	11	Blade Disengagement	28
Using This Manual	11	Field Operation	28
Terminology:	11	Unhook Rotary Cutter	28
Owner Assistance	11	General Operating Instructions	29
Serial Number	11	Section 5: Maintenance & Lubrication	30
Further Assistance	11	Maintenance	30
Section 1: Assembly & Set-up	12	Cutter Blade Maintenance	30
Tractor Requirements	12	Driveline Maintenance	32
Torque Requirements	12	Slip-Clutch Run-In	32
Tractor Shutdown Procedure	12	Slip-Clutch Assembly / Disassembly	33
Dealer Preparations	12	Spring Height Gauge	33
Uncrating Instructions	13	Flex Coupler & Blade Timing	34
Vented Breather Plug Installation	13	Skid Shoe Maintenance (Accessory)	34
Front Cutter Guard	13	Long Term Storage	35
Rear Cutter Guard	13	Ordering Replacement Parts	35
3-Point Hitch Assembly	14	Lubrication Points	36
Driveline Installation	15	Gauge Wheel Spindle Tube	36
Tractor Hook-Up	16	Gauge Wheel Hub	36
Quick Hitch Hook-up	17	Gearbox	36
Driveline Hook-up	17	Flex Coupling Shaft	37
Check Driveline Collapsible Length	18	Driveline U-Joints	37
Driveline Maximum Allowable Length	19	Driveline Shield Bearings	37
Check Driveline Interference	19	Driveline Profiles	37
Section 2: Options & Accessories	20	Type of Lubrication: Multi-purpose Grease	37
Skid Shoe Accessory	20	Section 6: Specifications & Capacities	38
Front Guard Installation	20	Section 7: Features & Benefits	40
Front Corner Deflectors (Standard)	20	Section 8: Troubleshooting	41
Front Rubber Guard (Option)	20	Section 9: Torque values Chart	42
Front Single Chain Guard (Option)	20	Section 10: Warranty	43
Rear Guard Installation	22		
Rear Metal Band Guard (Standard)	22		
RCD Rear Extended Metal Guard (Option)	22		
Section 3: Adjustments	24		
Deck Leveling & Cutting Height	24		
Deck Leveling From Left to Right	24		
Deck Cutting Height	24		
Tailwheel Height Adjustment	25		
Center 3-Point Link Adjustment	25		



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Printed in the United States of America.



See previous page for Table of Contents.



Parts Manual QR Locator

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



Dealer QR Locator

The QR code 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

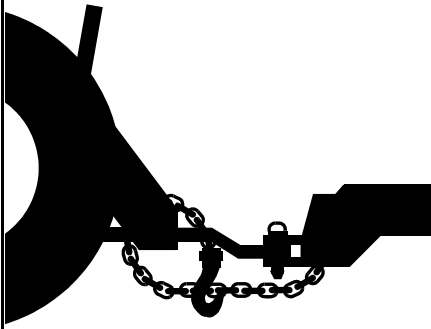
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic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



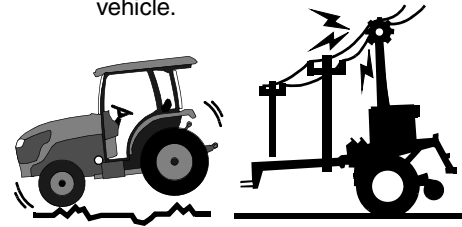
Towing Safely

- ▲ 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, weighs more than 1.5 times the weight of towing vehicle.



Tire Safety

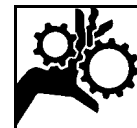
- ▲ Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- ▲ Always properly match the wheel size to the properly sized tire.
- ▲ Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's 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.

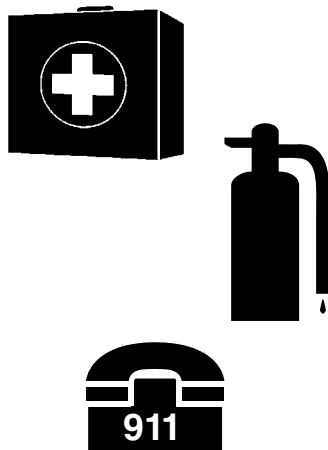
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement 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.



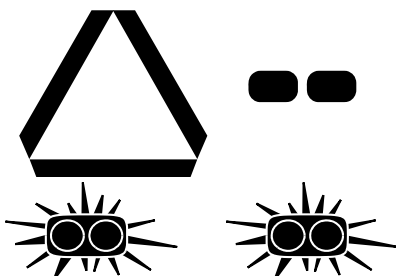
Avoid High Pressure Fluids

- ▲ 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.

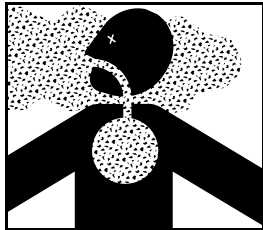


Listed below are common practices that may or may not be applicable to the products described in this manual.

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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Important Safety Information

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

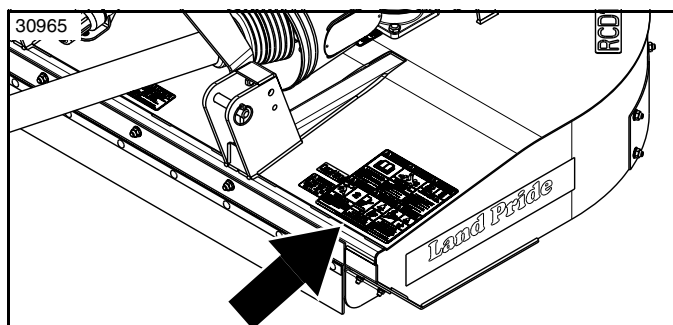
specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.

4. Refer to this section for proper label placement.

To install new labels:

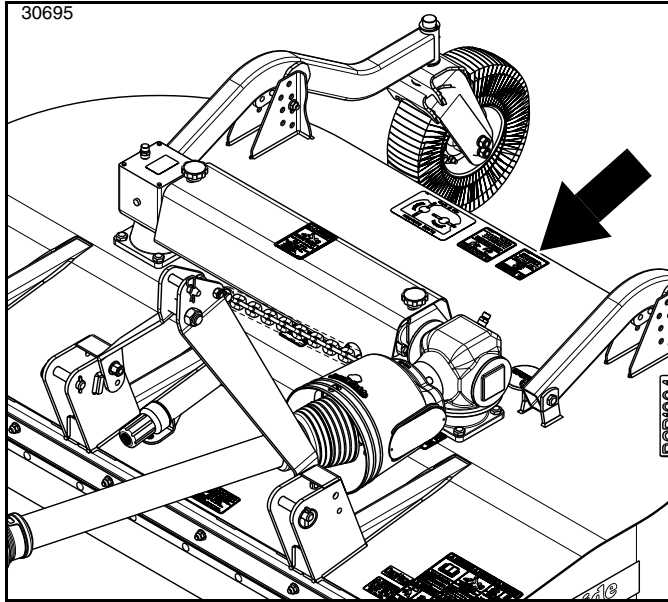
- a. Clean surface area where label is to be placed.
- b. Spray soapy water onto the cleaned area.
- c. Peel backing from label and press label firmly onto the surface.
- d. Squeeze out air bubbles with edge of a credit card or a similar type of straight edge.

70376

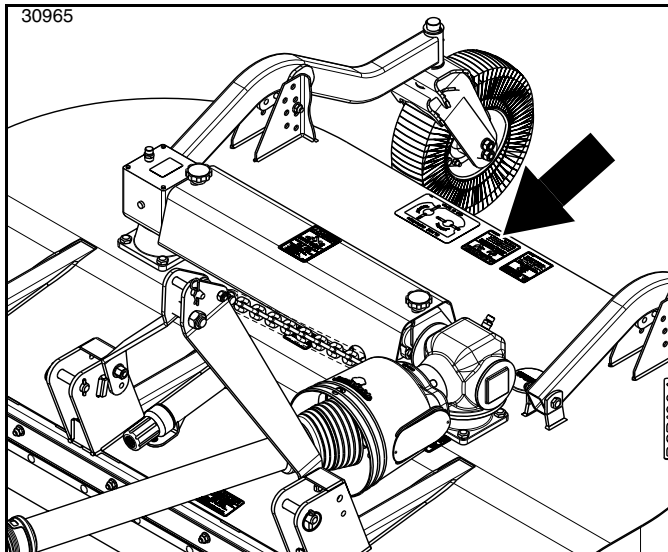


844-190C

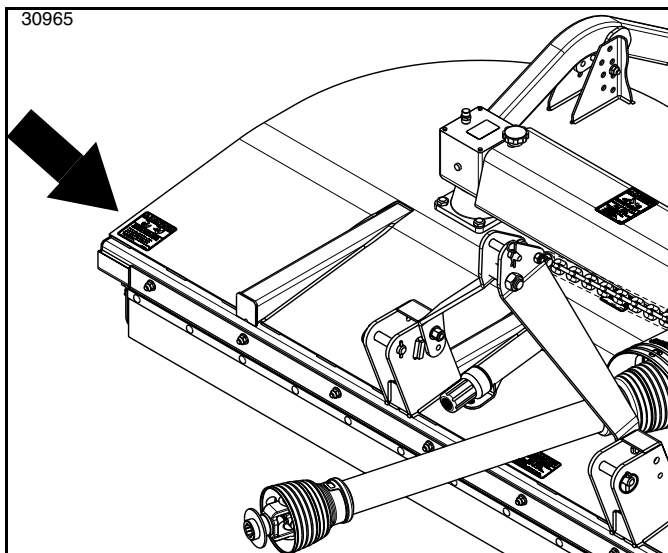
Danger/Warning Safety Combo: List of Safety Hazards
1 - Place: Front left corner of deck



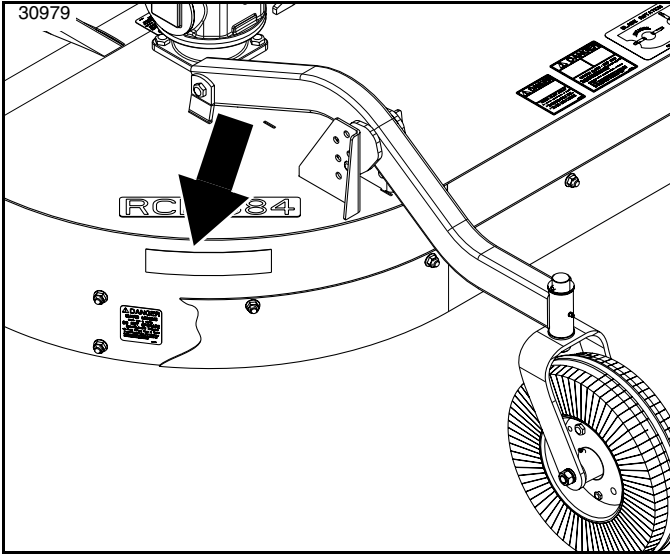
818-556C
 Danger: Thrown Object Hazard
 1 Place: Back middle of deck



818-555C
 Danger: Rotating Blade Hazard
 2 Places: At the back of the deck and at the front right corner of the deck



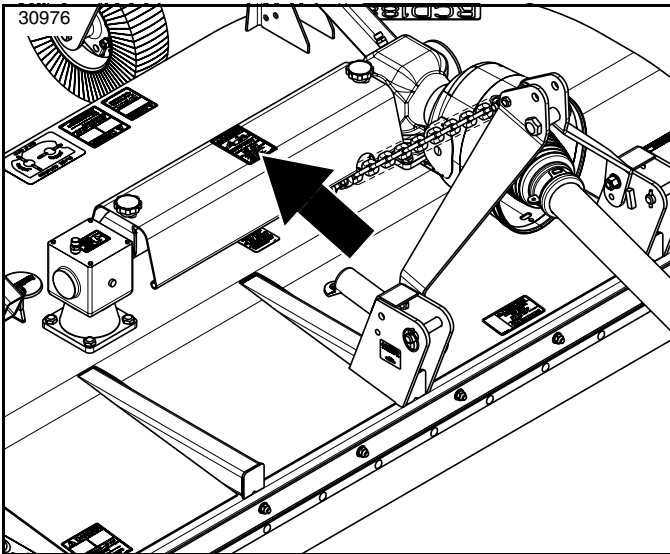
Important Safety Information



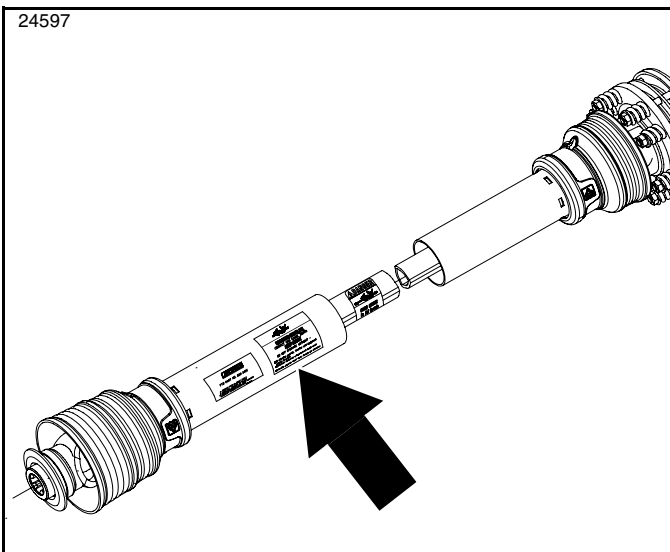
838-614C

Red Reflector: 2" x 9"

2 Places: Back rounding corners of deck



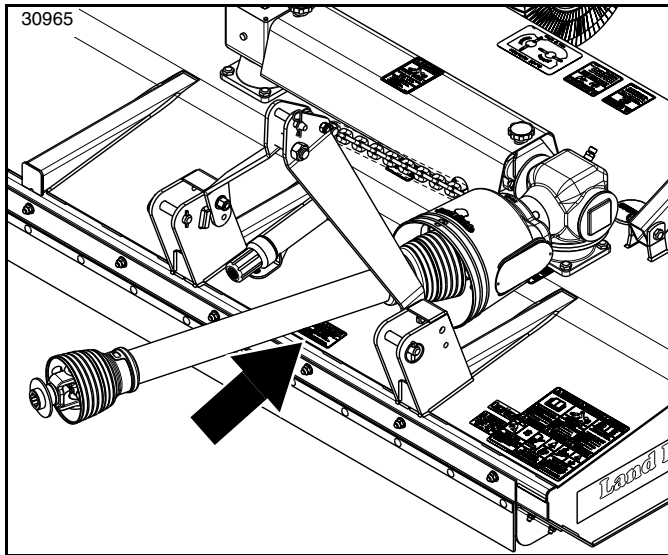
70375



818-552C

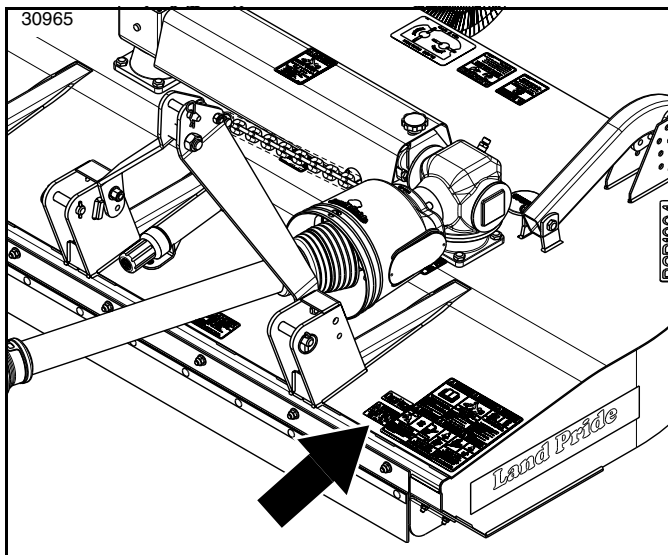
Danger: Rotating Driveline - Keep Away

2 Places: Top of intermediate driveline guard and on main driveline shield



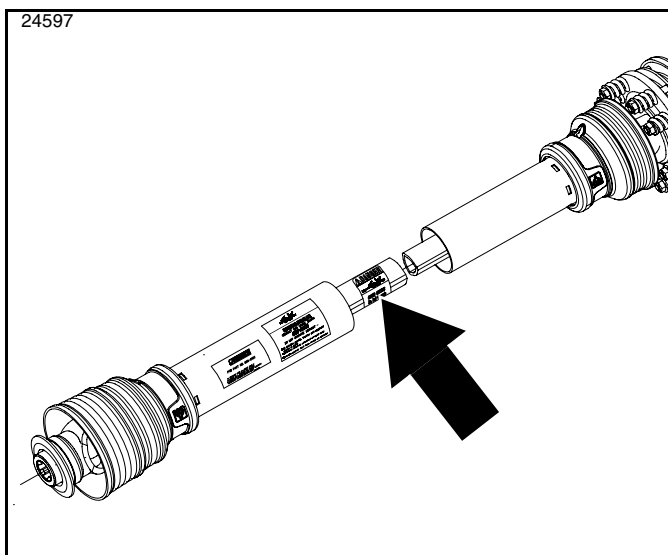
818-142C

Danger: Rotating Driveline Entanglement Hazard
1 Place: Front middle of deck



818-130C

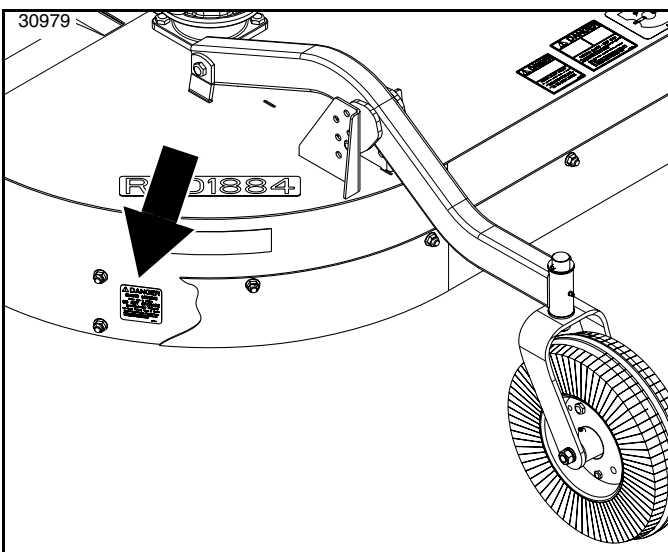
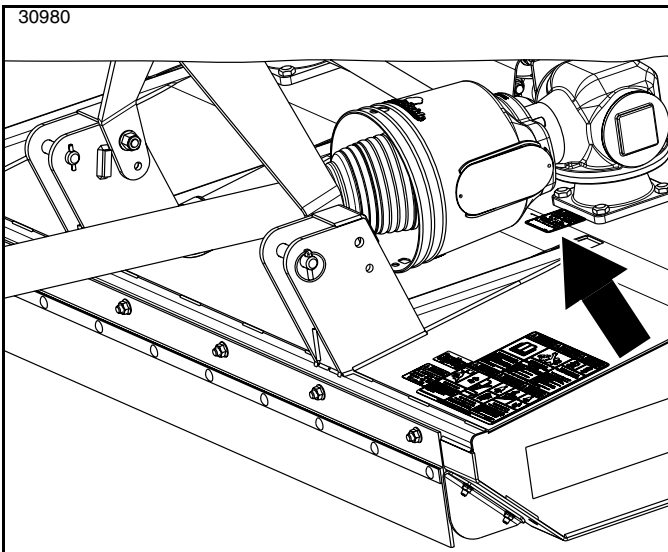
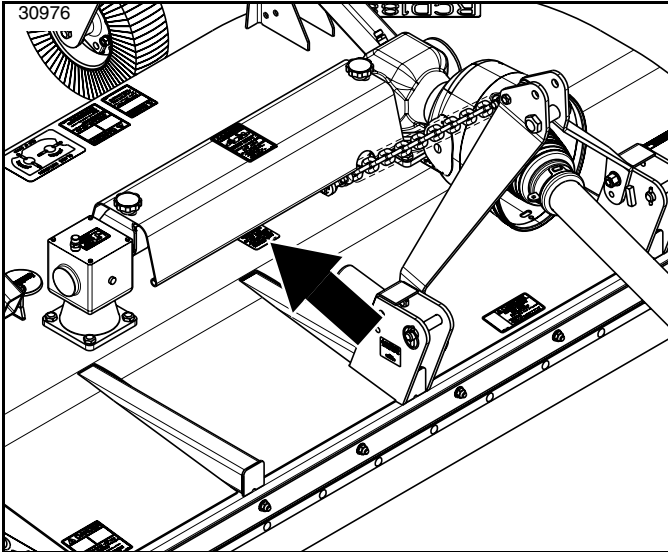
Warning: Operate with 540 rpm Power Take-off Speed
1 Place: Front left corner of deck



818-540C

Danger: Guard Missing - DO NOT Operate
14 Places: On main driveline inner profile

Important Safety Information



70358

818-543C

Danger: Guard Missing Hazard

3 Places: Middle center, beneath gearbox input shaft, and back left corner of deck



Introduction:

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

The Land Pride RCD1884 offset Rotary Cutter is designed and built to clear grass, weeds, and light brush up to 1 1/2 inches (3.8 cm) in diameter from areas under orchard and grove trees, beneath over-hanging hedge rows, or under fence lines and guard railings. The unit offsets 10" (25 cm) to the right with rear mounted 360 degree rotating tailwheels making it well suited for operation on gentle slopes and mildly contoured approaches immediately adjacent to ponds, lakes, streams, drainage ditches, and roadways. The seven foot cutting width and 2" to 12" (5 to 31 cm) cutting height makes it well suited for mowing pastures, set aside acres, and row crop fields.

The RCD1884 is compatible with 35 to 60 horsepower (26 to 45 kW) tractors with a category I three point hitch and is Quick Hitch adaptable. It operates at 540 rpm power take-off speed and is protected with a category 3 driveline with a 2-plate slip clutch. Supplied with the cutter is a stump jumper, front rubber shield and rear metal band shield.

See “**Specifications & Capacities**” on page 38 and “**Features & Benefits**” on page 40 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 order a new Operator’s or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com.

Terminology:

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

Owner Assistance

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

The parts on your Rotary 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.

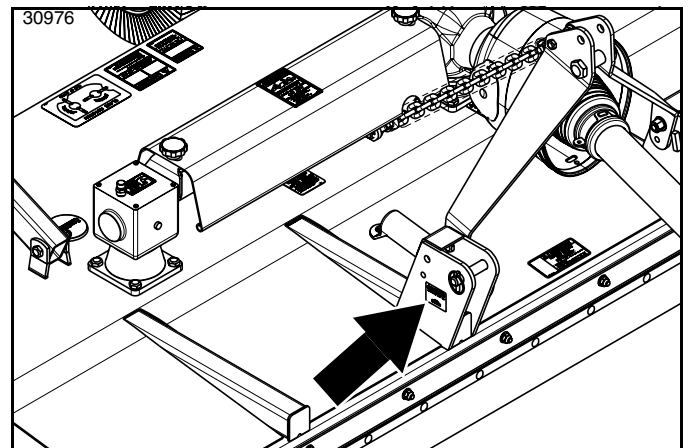


Figure 1

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



Section 1: Assembly & Set-up

Tractor Requirements

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

Tractor Horsepower Rating	35-60 hp (26-45 kW)
Hitch Category	Cat I
power take-off Speed	540 rpm
power take-off Shaft Type	1 3/8"-6 Spline
Hydraulic outlets	Not required

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 42 to determine correct torque values when tightening hardware. See "**Additional Torque Values**" at bottom of chart for exceptions to common torque values.

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 shut-off all power to the attachment.
2. Park tractor and attachment on solid, level ground.
3. Lower attachment until it is flat on the ground or on non-concrete support blocks.
4. Put tractor in park or set park brake, turn off engine, and remove ignition 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.

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.

IMPORTANT: Leveling rods on pull-type cutters are long and will make contact with the floor first when lowering cutter to the floor. It is best to remove them before lifting the cutter off the shipping crate.

Read and understand the operator's manual for your cutter. An understanding of how it works will aid in the assembly and setup of your cutter.

It is best to go through the "**Pre-Assembly Checklist**" below 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
<input type="checkbox"/>	Have a forklift or hoist with properly sized chains and safety stands capable of lifting and supporting the equipment on hand.	
<input type="checkbox"/>	Have a minimum of 2 people on hand while assembling.	
<input type="checkbox"/>	Make sure all major components and loose parts are shipped with the machine. Refer to this manual if unsure.	
<input type="checkbox"/>	Make sure working parts move freely, bolts are tight and cotter pins are spread. Refer to this Operator's Manual.	
<input type="checkbox"/>	Double check to make sure all fasteners and pins are installed correctly. Use Parts Manual 326-355P 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.	
<input type="checkbox"/>	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
<input type="checkbox"/>	Make sure all grease fittings are in place and lubricated. Refer to Lubrication Points.	Page 36
<input type="checkbox"/>	Check fluid level in all gearboxes. Refer to the Maintenance and Lubrication section.	Page 36
<input type="checkbox"/>	Lubricate all drivelines joints and profiles. Refer to Lubrication Points.	Page 37

Section 1: Assembly & Set-up

Uncrating Instructions

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.

IMPORTANT: Do not attach hoist to gauge wheel forks or gauge wheel arms near the spindles. The arms and/or forks can bend when lifting the cutter.

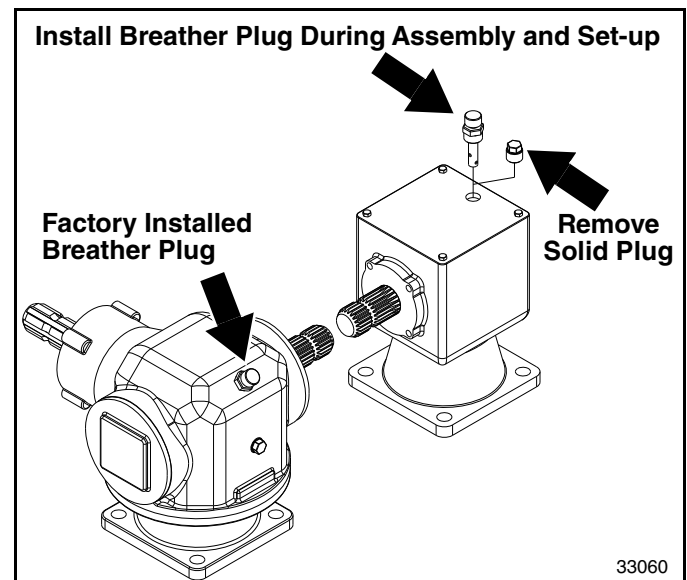
1. Secure cutter with a hoist or other lifting device before removing shipping hardware.
2. Remove lag screws securing front face of cutter to the crate.
3. Using lifting device, remove tension on hitch pins securing clevis plates to shipping crate.
4. Remove hitch pins from clevis plates and lift cutter from shipping crate. Gently lower unit onto the floor.

Vented Breather Plug Installation

Refer to Figure 1-1:

IMPORTANT: Gearboxes are shipped with solid plugs in them to prevent oil loss during shipping and handling. The solid plug on top of the gearbox must be replaced with a vented dipstick before operating the implement.

The right angle gearbox is shipped with vented breather plug factory installed. The other gearbox is shipped with vented breather plug packaged with the Operator's Manual in the manual tube. Remove temporary solid plug from top of gearbox and replace with vented breather plug. See your nearest Land Pride dealer if breather plug is missing.



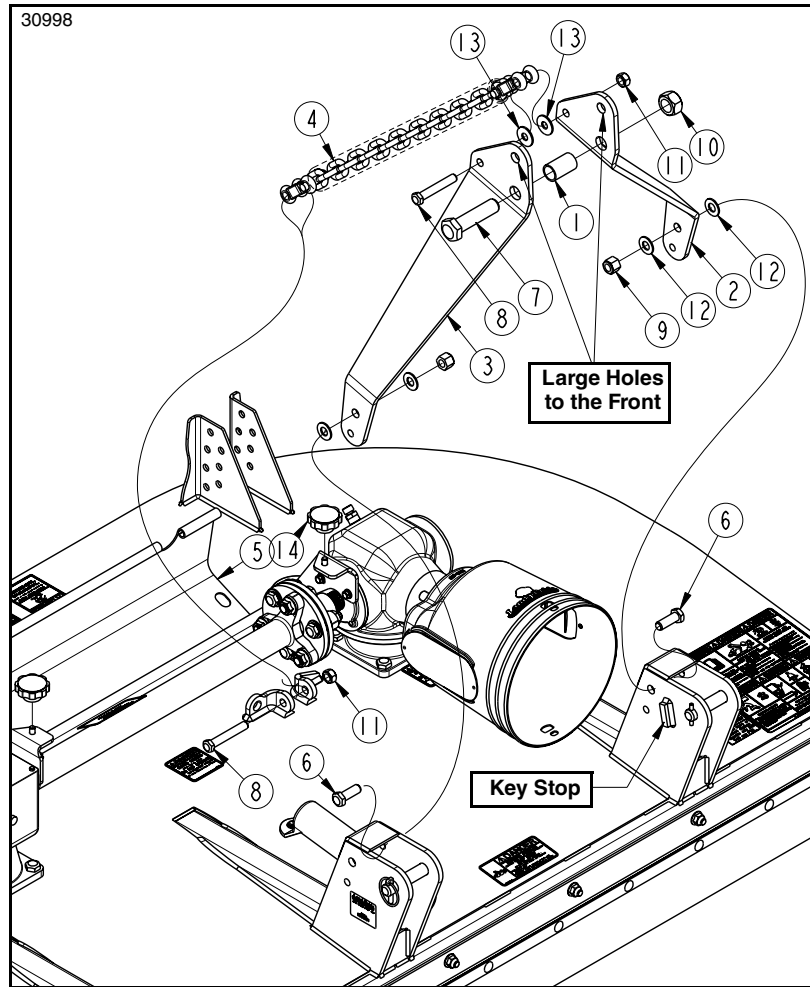
Vented Breather Plug Installation
Figure 1-1

Front Cutter Guard

The front rubber or chain guard is shipped loose from the factory and must be installed during assembly and sit-up. Refer to "Front Guard Installation" on page 20 for detailed instructions.

Rear Cutter Guard

The cutter is shipped with the standard rear metal band guard installed. If the customer chooses to purchase the optional extended metal guard, the standard metal guard must be removed and the optional extended guard installed. Refer to "Rear Guard Installation" on page 22 for removal and installation instructions.

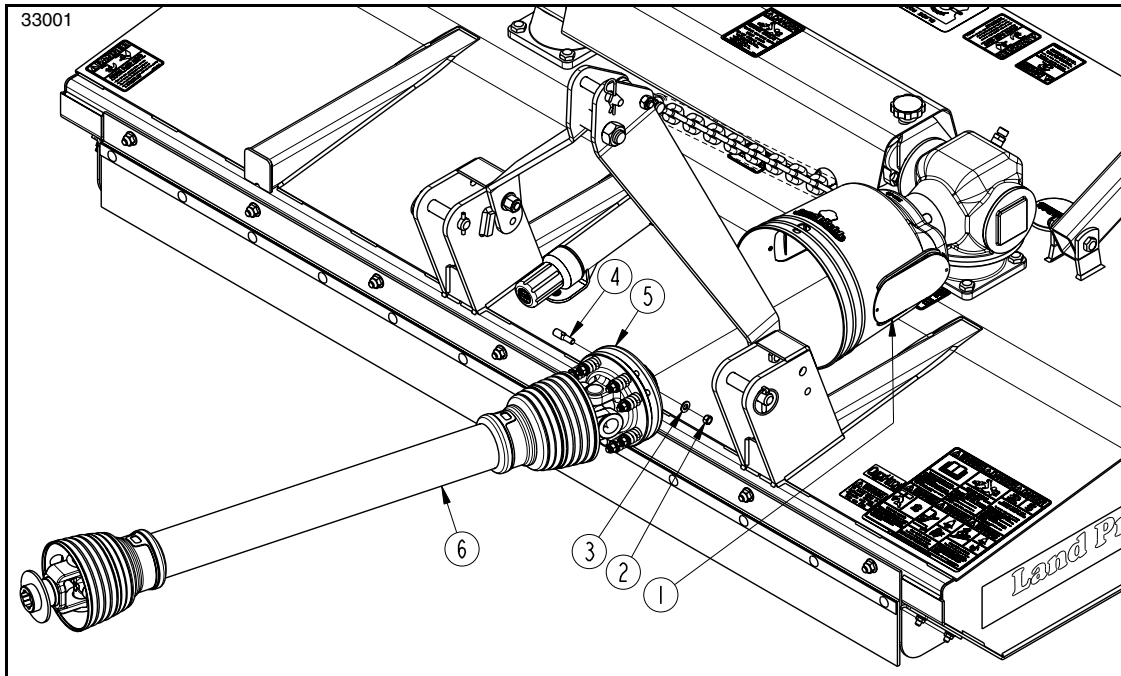


Hitch Assembly
Figure 1-2

3-Point Hitch Assembly

Refer to Figure 1-2:

1. Attach left-hand hitch plate (#2) to upper mounting hole in clevis plate with 5/8"-11 x 1 3/4" GR5 cap screw (#6), two flat washers (#12), and hex nylock nut (#9). Draw nylock nut up snug, do not tighten.
2. Attach right-hand hitch plate (#3) to upper mounting hole in clevis plate with 5/8"-11 x 1 3/4" GR5 cap screw (#6), two flat washers (#12), and hex nylock nut (#9). Draw nylock nut up snug, do not tighten.
3. Rotate top of hitch plates (#2 & #3) back until bottom of hitch plates rest against the key stops.
4. Attach 2 1/16" long bushing (#1) to left and right-hand hitch plates (#2 & #3) with 1"-8 x 4" GR5 hex head cap screw (#7) and hex top locknut (#10). Tighten top locknut (#10) to torque value listed under **"Additional Torque Values"** on page 42.
5. Attach one end of float chain (#4) between hitch plates (#2 & #3) with 9/16"-12 x 3 1/2" GR5 cap screw (#8), two flat washers (#13), and hex top locknut (#11). Draw locknut (#11) up snug, do not tighten.
6. Remove hand knobs (#14) and rotate flex coupler shield open.
7. Attach opposite end of float chain (#4) to deck lugs with 9/16"-12 x 3 1/2" GR5 cap screw (#8) and top locknut (#11). Draw locknut up snug, do not tighten.
8. Rotate outer coupler shield closed and replace existing hand knobs (#14). Hand tighten hand knobs.



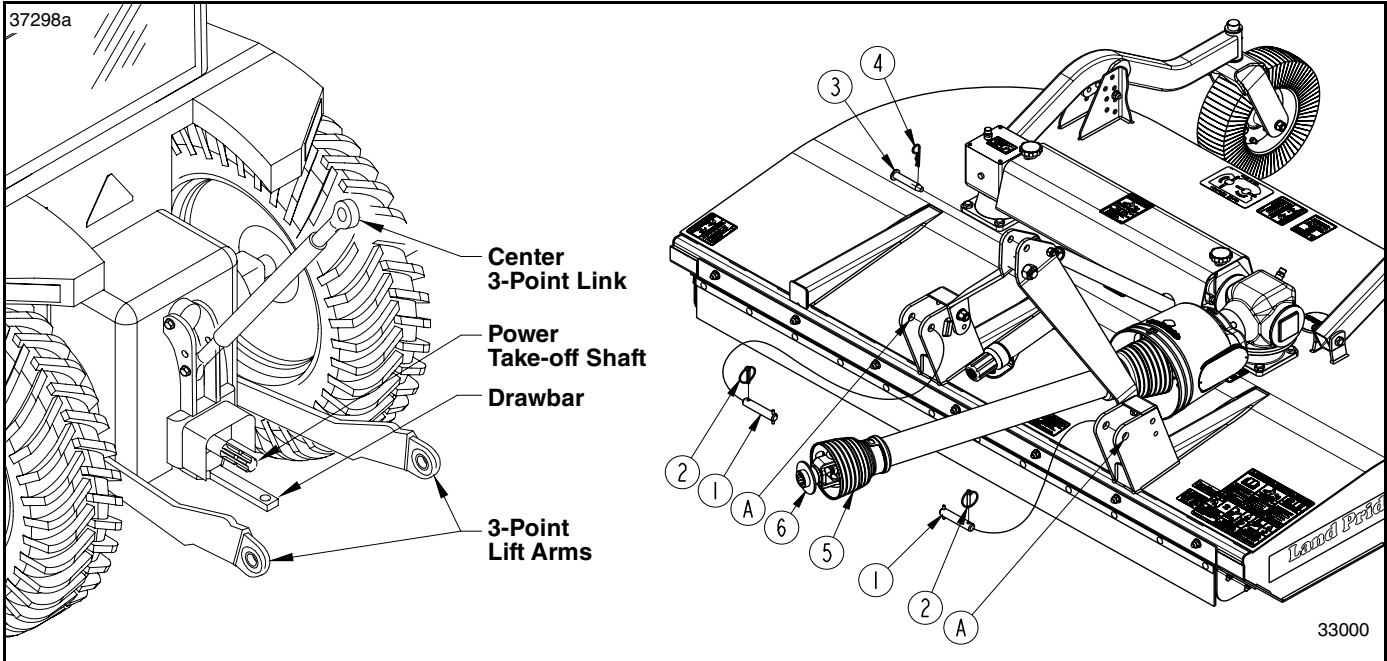
Driveline Installation
Figure 1-3

Driveline Installation

IMPORTANT: The driveline must be lubricated before putting it into service. Refer to “**Lubrication Points**” on page 36.

Refer to Figure 1-3:

1. Unsnap access doors (#1) from both sides of the gearbox cone and rotate about the metal pin either up or down to gain access to the gearbox input shaft.
1. Remove washer (#2), nut (#3), and tapered pin (#4) from slip-clutch (#5).
2. Slide slip-clutch yoke end of driveline (#6) onto the gearbox input shaft until holes in the slip-clutch align with notch in the gearbox input shaft.
3. Insert tapered pin (#4) and secure with removed washer (#3) and nut (#2). Tighten nut to the correct torque value.
4. Move slip-clutch back and forth several times to make sure it is locked onto the gearbox input shaft.
5. Replace access covers (#1).



3-point Hook-Up
Figure 1-4

Tractor Hook-Up

Refer to Figure 1-4 on page 16:

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.

WARNING

To avoid serious injury or death:

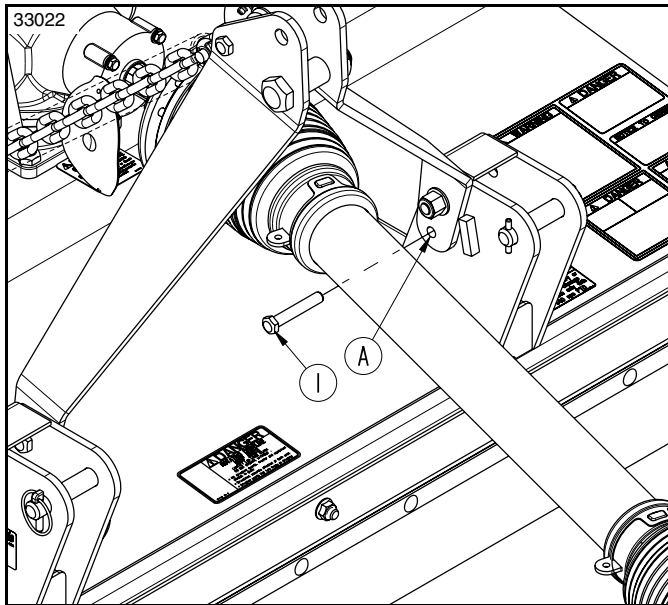
Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator's Manual to determine weight requirements and maximum limitations.

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.

A 3-point Category I or II hitch is required. The lower 3-point arms of the 3-point hitch must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

1. Locate implement on a flat, level surface.
2. Slowly back tractor up to the implement while using the tractor's 3-point hydraulic control to align lower 3-point arm holes with hitch pin holes "A".
3. Shut tractor down before dismounting. Refer to "**Tractor Shutdown Procedure**" on page 12.
4. Attach lower lift arms to clevises with hitch pins (#1) and secure with linchpins (#2).
5. Connect top center 3-point link to upper hitch with clevis pin (#3) and hairpin cotter (#4).
6. Return to tractor and slowly raise and lower implement carefully to ensure that the drawbar, tires, and other equipment on the tractor do make contact with implement frame. Move or remove drawbar if needed.
7. Manually adjust one of the two lower lift arms up or down to level the Rotary implement from left to right.
8. Manually adjust the length of the top-link to level the implement from front to rear. Final deck leveling adjustments will be made later.
9. The tractor's lower 3-point lift arms should be adjusted for lateral float. Please consult your tractor's manual for adjusting instructions.

Section 1: Assembly & Set-up



Quick Hitch Hook-up
Figure 1-5

Quick Hitch Hook-up

Refer to Figure 1-5:

If 3-Point hitch plates won't stay upright for Quick Hitch attachment, a hitch pin or bolt (#1) may be inserted into hole "A" to stabilize hitch plates. Be sure to remove hitch pin before connecting driveline to the tractor. Hitch pin or bolt is supplied by customer.

Driveline Hook-up

Refer to Figure 1-3:

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.

WARNING

To avoid serious injury or death:

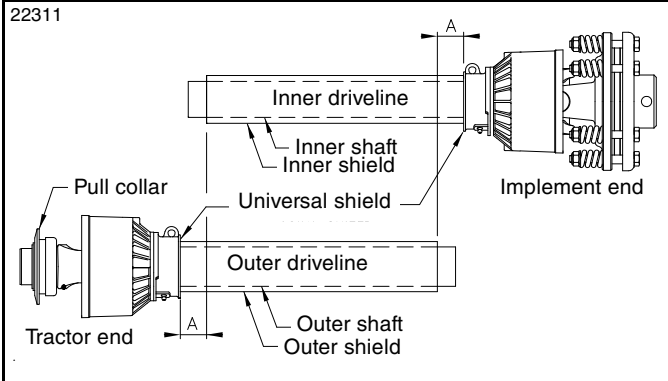
- Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.
- Check driveline when lowering implement to make sure it does not interfere with the tractor drawbar at maximum depth. If needed, shut tractor off and move or remove drawbar to prevent driveline damage.

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 Maintenance" on page 32.

IMPORTANT: Check driveline minimum collapsible length before completing "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 18.

1. If driveline collapsible length has not been checked, go to "Check Driveline Collapsible Length" on page 18. 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 12.
4. If tractor drawbar interferes with the driveline during hook-up, disconnect driveline and move drawbar forward, to the side, or remove.
5. Collapse driveline (#5) by pushing tractor end of driveline toward the implement's gearbox.
6. Pull back on driveline pull collar (#6) and push yoke onto the tractor power take-off shaft. Release pull collar and continue to push driveline yoke forward until pull collar pops out and locks in place.
7. Pull on both ends of the driveline to make sure it is secured to the tractor and implement.
8. The tractor's lower 3-point arms should be adjusted for lateral float. Please consult your tractor's manual.
9. Continue with "Check Driveline Interference" on page 19.



Check Driveline Minimum Length
Figure 1-6

Check Driveline Collapsible Length

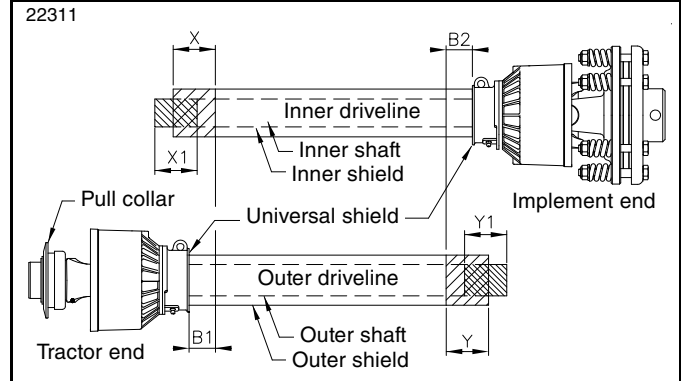
IMPORTANT: A driveline that is too long can bottom out causing structural damage to the tractor and implement. Always check driveline minimum length during initial setup, when connecting to a different tractor, and when alternating between using a quick hitch and a standard 3-point hitch. More than one 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 12.

Refer to Figure 1-6:

6. Attach outer driveline to the tractor’s power take-off shaft. Refer to steps 5-7 under **“Driveline Hook-up”** on page 17.
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" (2.5 cm), skip to **“Driveline Maximum Allowable Length”** on page 19.

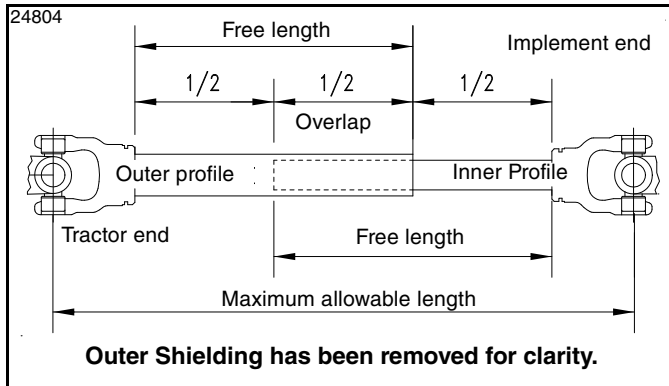


Driveline Shortening
Figure 1-7

Refer to Figure 1-7:

8. 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 **“Driveline Maximum Allowable Length”** on page 19.

Section 1: Assembly & Set-up



Driveline Maximum Extended Length
Figure 1-8

Driveline Maximum Allowable Length

Refer to Figure 1-8:

The driveline maximum allowable length must, when fully extended, have a minimum overlap of profile tubes by not less than 1/2 the free length with both inner and outer profile tubes being of equal length.

1. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.
2. Assemble the two driveline profiles together with just 1/2 overlapping of the profile tubes as shown. Once assembled, measure and record maximum allowable length here. _____
3. Attach driveline to the implement. Refer to “**Tractor Hook-Up**” on page 16.
4. Without removing the support blocks, continue with “**Driveline Hook-up**” on page 17.

Check Driveline Interference

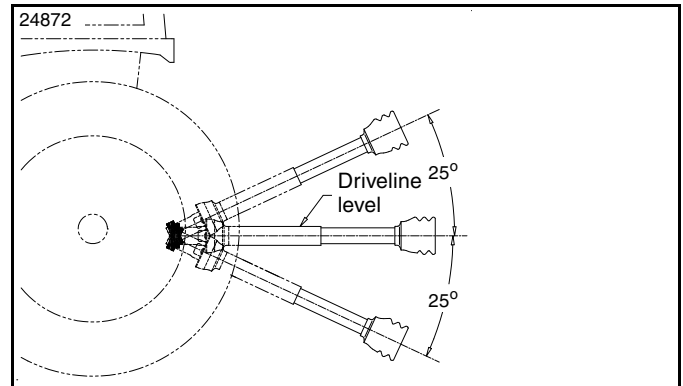
Refer to Figure 1-9:

**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**” on page 18. Drive forward until the implement is clear of the support blocks.



Maximum Allowable Driveline While Operating
Figure 1-9

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 12
 - 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 12.
5. Check to make sure driveline does not exceed any of the limits listed below:
 - Driveline does not exceed maximum length recorded in step 2 under “**Driveline Maximum Allowable Length**” on this page.
 - Driveline angle does not exceed 25° above horizontal.
6. If driveline exceeds maximum allowable length or 25 degrees up:
 - a. Adjust tractor 3-point lift limiter to the height that will keep the driveline within the recommended limits.
 - b. If the 3-point lift lever does not have a lift height limiter, make a mark with tape or other means to indicate maximum lift height.
7. Start tractor, raise implement slightly, and drive forward enough to clear the support blocks.
8. Lower implement to the ground and shut tractor down using “**Tractor Shutdown Procedure**” on page 12.

Section 2: Options & Accessories

Skid Shoe Accessory

Refer to Figure 2-1:

326-341A RCD1884 SKID SHOES

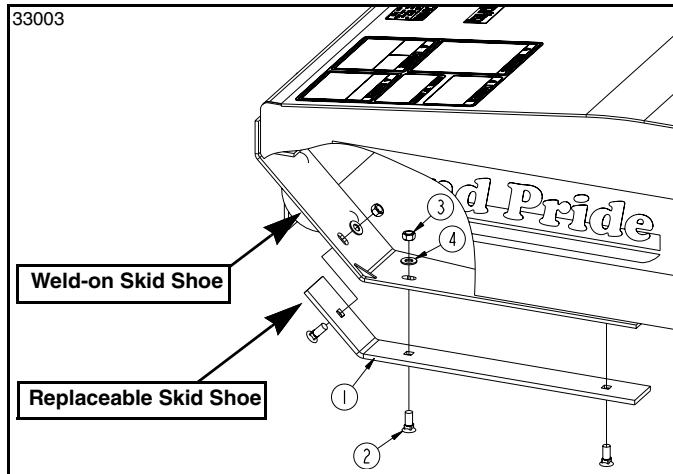
The RCR1884 cutter is supplied with welded-on skid shoes. Replaceable skid shoes (Sold as an accessory) can be bolted to the weld-on skid shoes to increase protection against side panel wear.

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.

1. Attach skid shoes (#1) to front left and right corners of the cutter with 3/8"-16 x 1" GR5 plow bolts (#2), flat washers (#4), and locknuts (#3).
2. Tighten locknuts to the correct torque.



Skid Shoe Accessory
Figure 2-1

Front Guard Installation

The customer has the option of choosing a front rubber guard or a front single chain guard. The selected guard must be installed on the cutter in assembly and set-up. Before installing the front guard, install the front corner deflectors. Install corner deflectors and front guard as follows:

Front Corner Deflectors (Standard)

Refer to Figure 2- 2 on page 21:

326-490L FRONT CORNER DEFLECTORS

1. Install corner deflectors (#2) with 3/8"-16 x 1" GR5 carriage bolts (#3) and hex whiz nuts (#6). Draw nuts up snug, do not tighten.

Front Rubber Guard (Option)

Refer to Figure 2- 2 on page 21:

326-342A RCR1884 FRONT RUBBER GUARD

1. Install front rubber guards (#1) with 1/2"-13 x 1 1/4" GR5 carriage bolts (#4) and hex whiz nuts (#5). Draw nuts up snug, do not tighten.
2. Adjust front guard (#1) and corner deflectors (#2) to fit evenly against each other.
3. Tighten all whiz nuts (#5 & #6) to the correct torque.

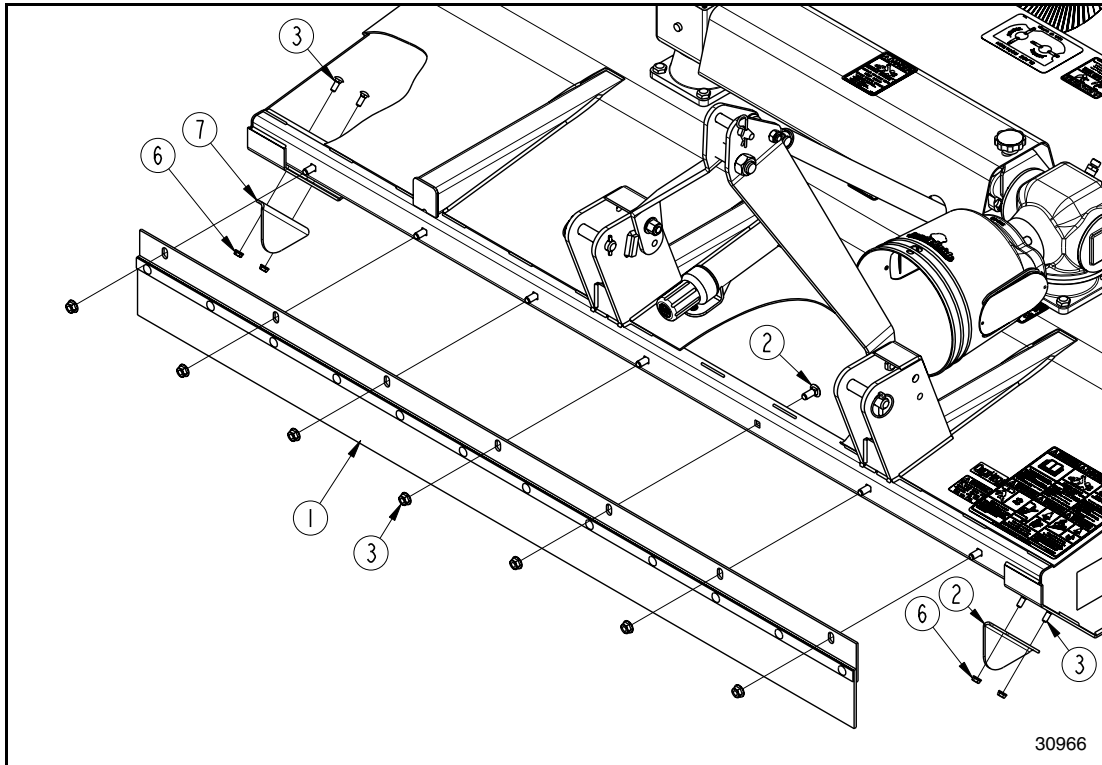
Front Single Chain Guard (Option)

Refer to Figure 2-3 on page 21:

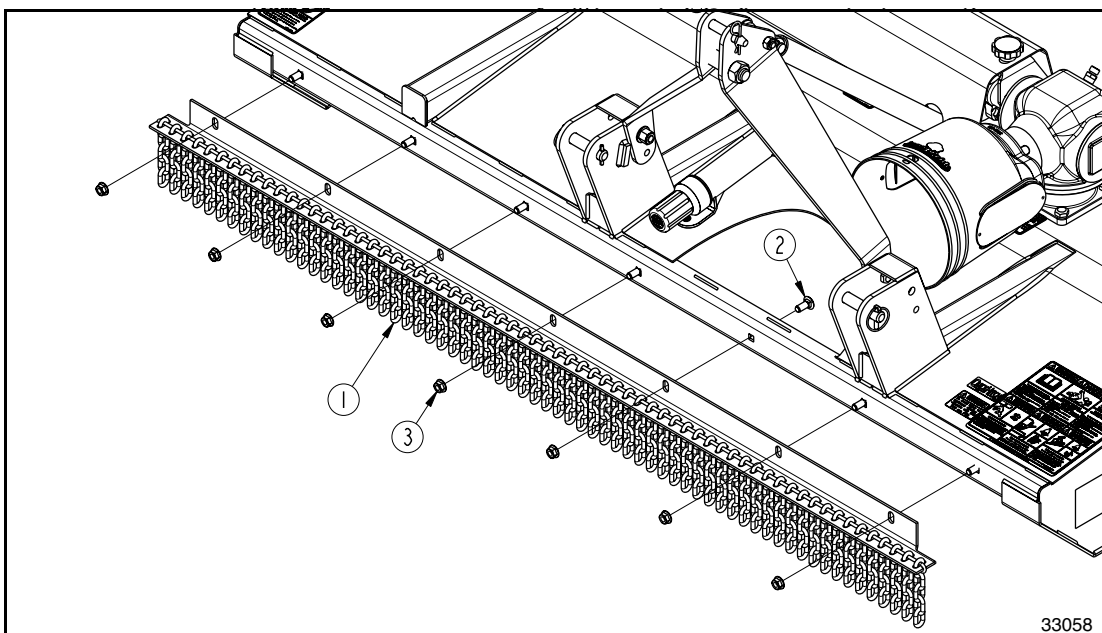
326-449A FRONT SINGLE CHAIN GUARD

The Single Chain Guard option provides a better flow of air under the cutter resulting in a more evenly discharge of cut material.

1. Attach front single chain guard (#1) to deck front with 1/2"-13 x 1 1/4" GR5 carriage bolts (#2) and hex whiz nuts (#3). Draw nuts up snug, do not tighten.
2. Adjust front chain guard (#1) and corner deflectors (#2 in Figure 2- 2) to fit evenly against each other.
3. Tighten all chain guard hex whiz nuts (#3) and corner deflector hex whiz nuts (#6 in Figure 2- 2) to the correct torque.



Front Rubber Guard
Figure 2-2



Front Single Chain Guard
Figure 2-3



Rear Guard Installation

The cutter is shipped from the factory with the rear metal band guard installed. If the customer orders the optional metal extended guard, it must be installed during assembly and sit-up. The standard metal guard will need to be removed before installing the extended guard. Install the extended metal guard as follows:

Rear Metal Band Guard (Standard)

Refer to Figure 2-4 on page 23:

326-464A RCR1884 REAR METAL BAND Guard



DANGER

To avoid serious injury or death:

Do not remove rear guard unless it is replaced by an approved safety guard. Serious body injury or loss of life can result without an approved rear guard.



CAUTION

To avoid minor or moderate injury:

The Rear Metal Band Guard is in spring tension and will want to snap straight as the hex whiz nuts are removed.

Remove the standard rear metal band guard only if installing the metal extended guard.

1. Be aware that the curved ends will want to pop up as each nut in the curved area is removed. Safely remove nuts 3A first, 3B second, 3C third, and 3D last.
2. Once all the nuts are safely removed, remove rear band guard (#1) and 1/2" carriage bolts (#2).
3. Store Rear Metal Band Guard and hardware for reuse later should the optional RCD Rear Guard becomes bent, cracked, or broken.
4. Install the extend rear guard. For detailed instructions, refer to "RCD Rear Extended Metal Guard (Option)" below.

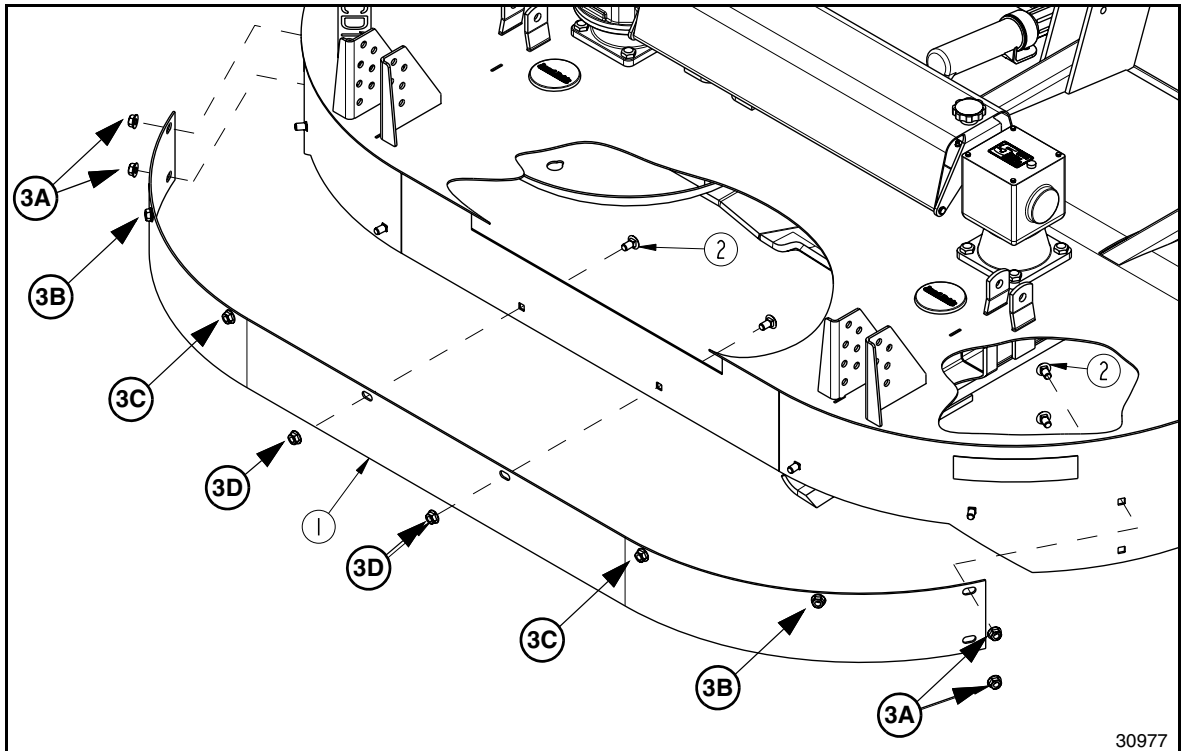
RCD Rear Extended Metal Guard (Option)

Refer to Figure 2-5 on page 23:

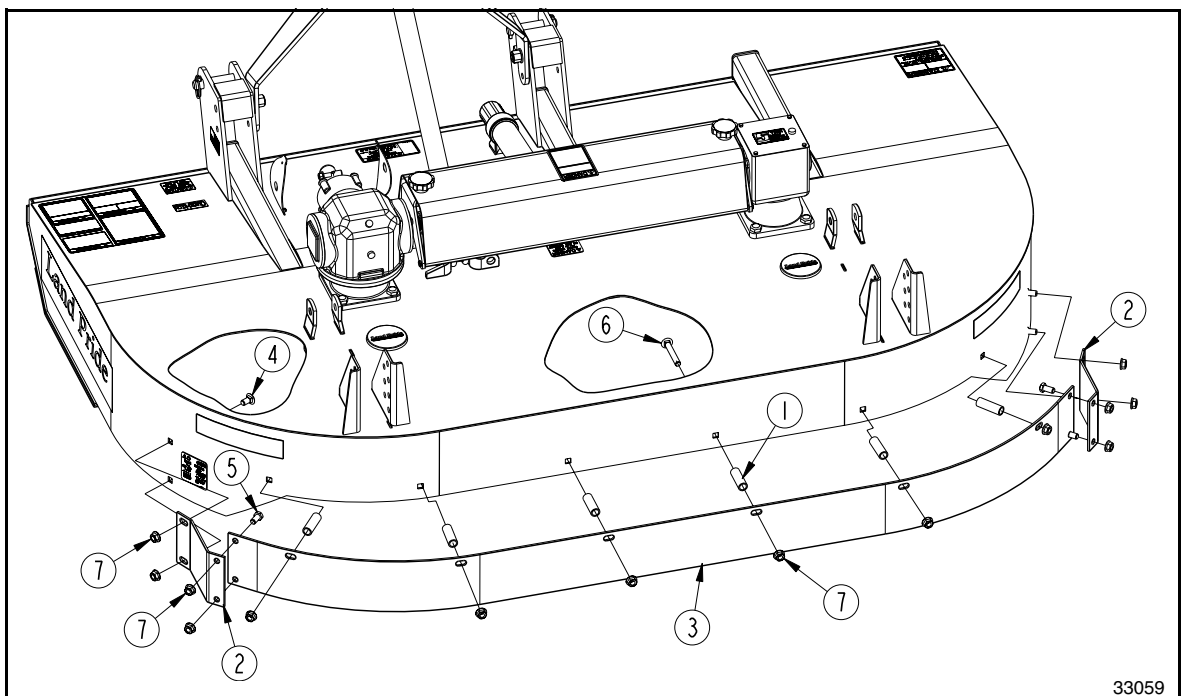
326-458A RCD REAR GUARD

This RCD Rear Extended Metal Guard is offset to provide a better flow of air under the cutter resulting in a more evenly discharge of cut material.

1. Attach rear deflector brackets (#2) to rear band deflector (#3) with 1/2"-13 x 1" GR5 cap screws (#5) and hex whiz nuts (#7). Draw nuts up snug.
2. Attach rear band deflector (#3) to deck rear with 1/2"-13 x 3 1/2" GR5 carriage bolts (#6), deflector spacer (#1), and hex whiz nuts (#7). Draw nuts up snug, do not tighten.
3. Attach rear deflector brackets (#2) to deck rear with 1/2"-13 x 1" GR5 carriage bolts (#4) and hex whiz nuts (#7). Draw nuts up snug, do not tighten.
4. Tighten all hex whiz nuts (#7) to the correct torque.



Rear Metal Guard
Figure 2-4



RCD Rear Metal Extended Guard (Option)
Figure 2-5

Section 3: Adjustments

Deck Leveling & Cutting Height

There are 4 primary adjustments that should be made prior to actual field operation:

- Deck Leveling From Left to Right
- Deck Cutting Height
- Center 3-Point Link Adjustment
- Tailwheel Height Adjustment

Proper adjustment of each of these items will provide for higher efficiency, improved cutting performance, and longer blade life. The following tools will be needed:

- Pliable tape measure
- Spirit or carpenter's level
- Set of wrenches and/or socket wrench set
- Protective gloves

WARNING

To avoid serious injury or death:

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

Deck Leveling From Left to Right

Refer to Figure 3-2 on page 25:

1. Locate tractor with Rotary Cutter on a flat, level surface.
2. Use tractor's hydraulic 3-Point control lever to lower cutter until tailwheel makes contact with ground surface.
3. Place a level on the cutter deck as shown. Manually adjust one or both lower 3-Point lift arms until deck is level from left to right. On some tractors, only one arm can be adjusted vertically.

Deck Cutting Height

Refer to Figure 3-1:

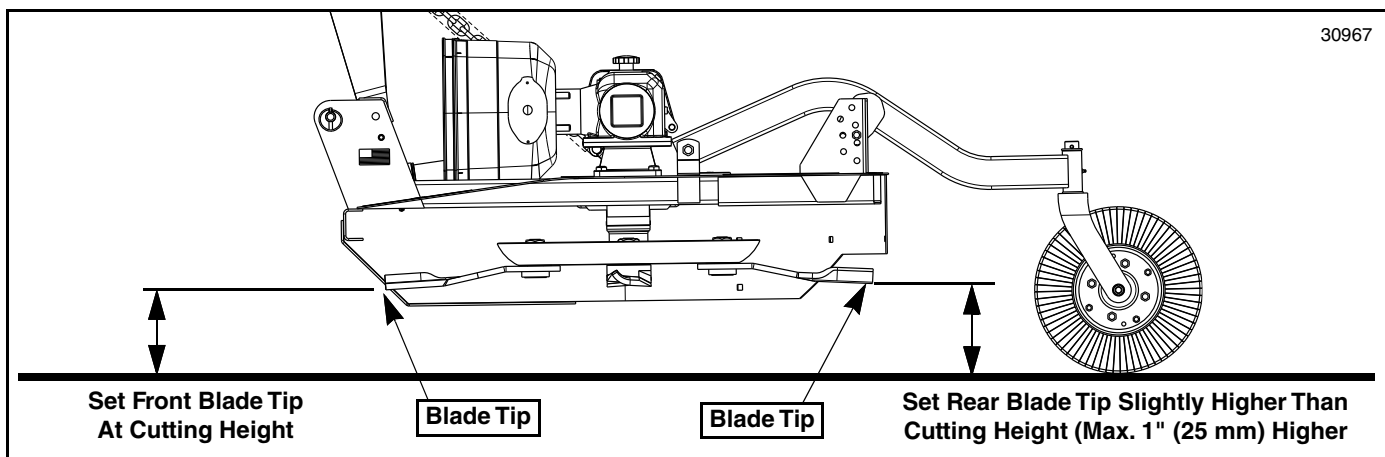
WARNING

To avoid serious injury or death:

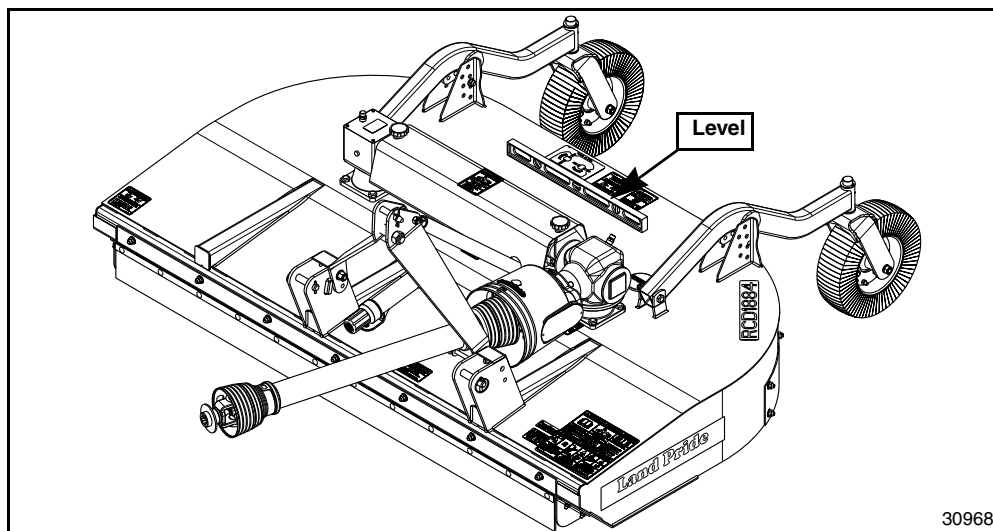
Avoid direct contact with cutter blades by wearing a pair of gloves. Cutter blades have sharp edges and burrs that can cause injuries.

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. With gloves on hands, carefully rotate each blade tip to the position shown in Figure 3-1.
2. Measure distance from cutting tip of front blade to ground surface. This distance is the cutting height.
3. Using tractor's 3-Point hydraulic control, raise or lower the 3-Point arms until the front blade tip is at the desired cutting height.
4. The top center link should be loose when deck rear is supported by the tailwheel. If not, lengthen center link until loose. Final adjustment will be made later.
5. Measure distance from cutting tip of rear blade to ground. This distance should be slightly higher than the front blade but not more than 1" (25 mm) higher.
6. If rear blade is lower than the front blade or is more than 1" (25 mm) higher than the front blade, then the tailwheel height must be adjusted. If needed, see "Tailwheel Height Adjustment" instructions below.
7. Repeat steps 1 through 6 until tailwheel and 3-Point arms are adjusted to the desired cutting height.
8. Set tractor's 3-Point hydraulic control stop once the tailwheel and 3-Point arms are adjusted properly.



Cutting Height
Figure 3-1



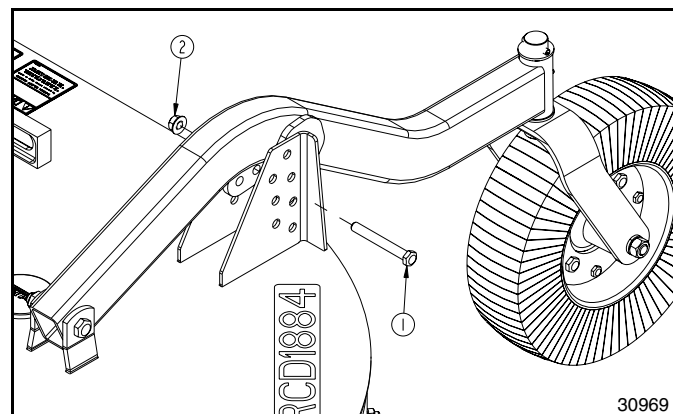
Deck Leveling
Figure 3-2

Tailwheel Height Adjustment

Refer to Figure 3-3:

If the front blade tip is set at the desired cutting height and the back blade tip is at the same height or lower or is higher than the front blade tip by more than 1" (25 mm), then tailwheel (#1) must be adjusted up or down as follows:

1. Use tractor's 3-Point hydraulic control to lift cutter until tailwheels clear the ground.
2. Remove hex whiz nut (#2) and cap screw (#1).
3. Adjust tailwheel as follows:
 - To lower rear blade height, raise tailwheel up.
 - To increase rear blade height, lower tailwheel down.
4. With tailwheels adjusted to the correct height, replace 1/2"-13 x 4" GR5 cap screw (#1) and hex whiz nut (#2). Tighten whiz nut to the correct torque.
5. Readjust tractor's lower 3-Point lift arms as needed. See **"Deck Cutting Height"** on page 24.



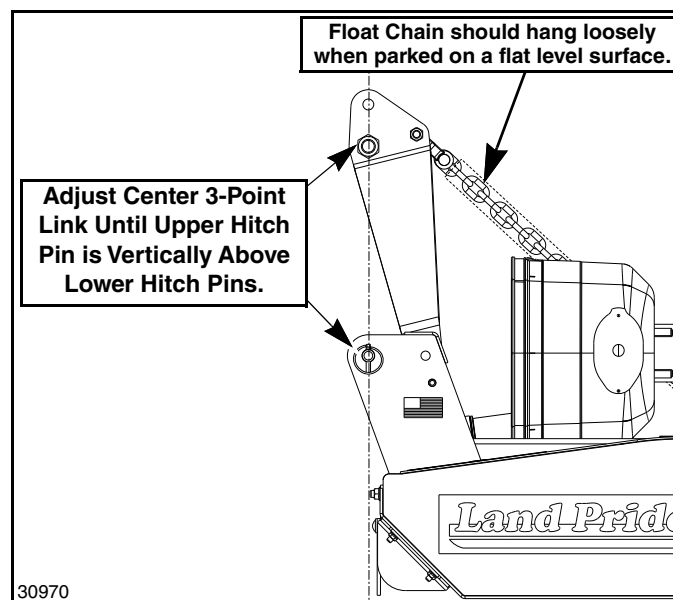
Tailwheel Height Adjustment
Figure 3-3

Center 3-Point Link Adjustment

Refer to Figure 3-4:

NOTE: The lower bolted-on-bushing in the center hitch is used with a quick hitch attachment.

1. Lower cutter deck to preset cutting height.
2. Adjust length of center 3-Point link until the center hitch pin is vertically above the lower 3-Point hitch pins. The float chain should be hanging loosely when adjusted correctly. This arrangement allows for optimum ground contour following performance.
3. Lock center 3-Point link in this position.



Center 3-Point Link Adjustment
Figure 3-4



Section 4: Operating Instructions

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 Rotary 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: Options & Accessories**, page 20
- **Section 3: Adjustments**, page 24
- **Section 4: Operating Instructions**, page 26
- **Section 5: Maintenance & Lubrication**, page 30

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
	Follow hook-up instructions. Refer to "Tractor Hook-Up" and "Driveline Hook-up".	16 & 17
	Make all required adjustments. Refer to "Section 3: Adjustments".	24
	Perform all required maintenance. Refer to "Section 5: Maintenance & Lubrication".	30
	Lubricate cutter and driveline as needed. Refer to "Lubrication Points".	36
	Lubricate all gearboxes and replace oil plugs properly. Refer to "Gearbox" lubrication.	36
	Check cutter initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	42

Safety Information

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.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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.



WARNING

To avoid serious injury or death:

- 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.
- Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.
- 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 equipment or power machine. Riders can obstruct the operator's view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.
- 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.
- 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.
- 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.
- 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 use implement as a man lift, work platform, or as a wagon to carry objects. It is not properly designed or guarded for this use.



Section 4: Operating Instructions

- 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.
- 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 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.
- 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.

Inspection of Tractor & Cutter

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

1. Park tractor and cutter on a level surface.
2. Shut tractor down before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 12.
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 deck 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 30.
9. Remove solid supports from under the deck.
10. Verify cutter is set at the correct cutting height. See **"Deck Leveling & 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 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.

Transporting

WARNING

To avoid serious injury or death:

- 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.
- 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.

IMPORTANT: 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 horse power.
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.



Section 4: Operating Instructions

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, and shut tractor down according to "**Tractor Shutdown Procedure**" on page 12.
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. Shut tractor down before dismounting. Refer to "**Tractor Shutdown Procedure**" on page 12.

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

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: Frequently inspect cutter for loose bolts and nuts. Tighten all loose hardware as indicated in the "**Torque Values Chart**" on page 42.

1. Thoroughly inspect area to be cut for debris and unforeseen objects. Mark any potential hazards.
2. Follow "**Blade Engagement**" instructions on right side of 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 cutter to make a smooth cut without lugging tractor down, usually between 2-5 mph (3-8 km/h).
4. Follow "**Blade Disengagement**" instructions on right side of this page to stop cutter blades. After the first 50 ft (15 m), disengage power take-off and check to see that the cutter is adjusted properly.
5. Do not engage power take-off when cutter is in the fully raised or lowered positions.
6. Periodically, shut tractor down according to "**Tractor Shutdown Procedure**" on page 12 and then 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 for Common Bolt Sizes**" on page 42.
8. For additional information, see "**General Operating Instructions**" on page 29.

Unhook Rotary Cutter

1. Unhook Rotary Cutter from the tractor as follows:
2. See "**Long Term Storage**" on page 35 if cutter is to be stored for a long time.
3. Park on a level solid surface and lower deck to ground level or onto support blocks.
4. Shut tractor down before dismounting. Refer to "**Tractor Shutdown Procedure**" on page 12.
5. Disconnect driveline from tractor.
6. Unhook 3-Point hitch from tractor and drive tractor forward several feet.
7. Reinstall hitch pins, linchpins, and hair pin cotter pins in cutter hitch for safe keeping.
8. Collapse driveline by pushing tractor end of driveline towards cutter gearbox.
9. Support driveline off the ground with a support block to keep it up out of the dirt.



Section 4: Operating Instructions

General Operating Instructions

It is important that you familiarize 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.

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.

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 down according to "**Tractor Shutdown Procedure**" on page 12. Make necessary repairs and/or adjustments before continuing.

Make sure before starting the tractor that the park brake is engaged, power take-off is disengaged, and cutter is resting on the ground. Start tractor and set engine throttle speed at a low idle. Raise cutter with tractor's rear hydraulic lift control lever to transport position making sure that the driveline 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 hydraulic lift lever so the cutter can be consistently returned to the same cutting 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 safety hazards and foreign objects either before or after you arrive at the cutting site. Never assume the area is clear. Cut only in areas you are familiar with and are free of debris and unseen 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 necessary repairs to the cutter before resuming operation. 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 (3-8 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 the 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. Reducing tractor engine speed, lower cutter to cutting position, engage power take-off, raise engine rpm to the appropriate power take-off speed and begin cutting.

Make wide turns when possible. Three-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 reduce tractor rpm, disengage power take-off, stop on level ground, set tractor park brake, turn off engine, and remove ignition key. Stay on the tractor until the cutter blades have come to a complete dead stop.



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 unit for several hours and on a regular basis thereafter to ensure they are tight and secured.

Replace worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride Dealer.

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.

Cutter Blade Maintenance

IMPORTANT: Replace cutting blades in pairs with genuine Land Pride blades only. 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 installed correctly and in good condition. Replace any blade that is damaged, worn, bent, or excessively nicked. Small nicks can be ground out. Remove cutting blades and sharpen or replace:

1. Shut tractor down according to “**Tractor Shutdown Procedure**” on page 12.
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.
3. Inspect cutting blades. Make certain they are properly installed and are in good working condition. Replace any blade that is damaged, worn, bent, or excessively nicked. Small nicks can be ground out.

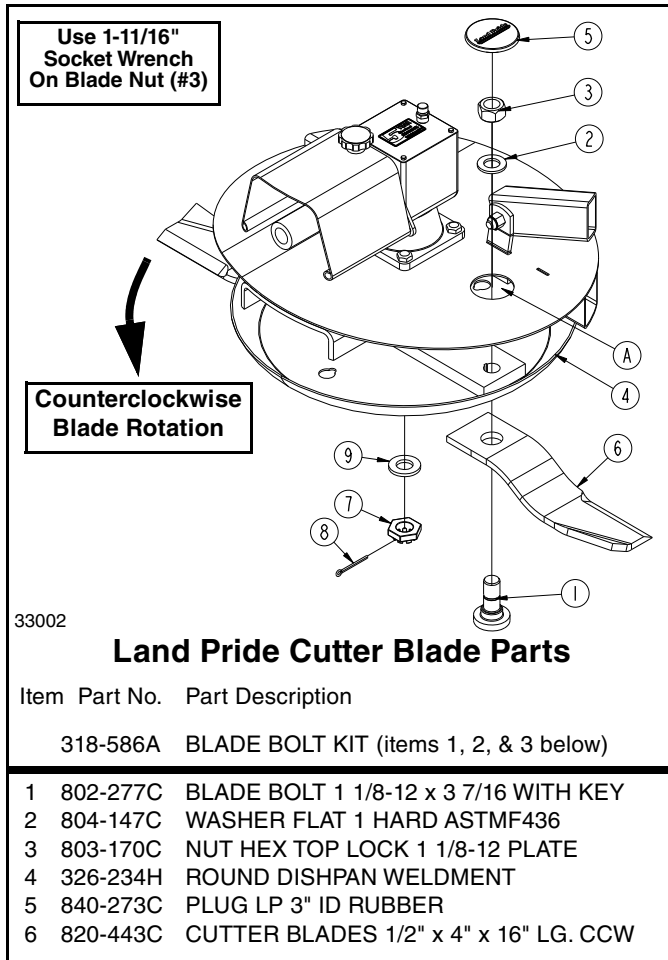
Refer to Figure 5-1:

4. Remove access cover (#5).
5. Rotate dishpan (#4) until blade bolt (#1) aligns with access hole (A).
6. Unscrew locknut (#3) to remove cutting blade (#6). Blade bolt (#1) is keyed and will not turn freely.
7. Repeat steps 4-6 for the other blade.
8. 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.

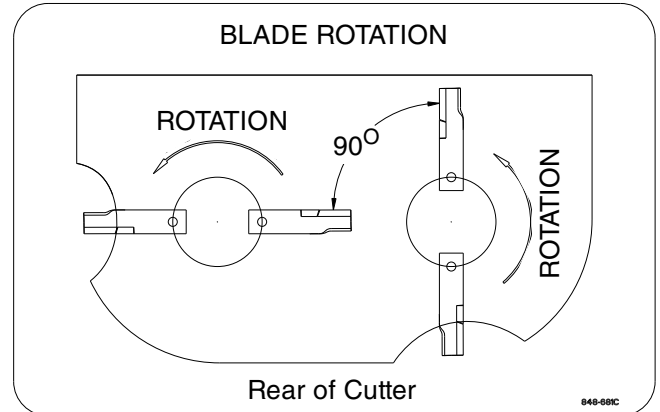
Refer to Figure 5-2:

9. Make certain when installing cutter blades that the blades on one spindle is positioned 90 degrees to the blades on the other spindle as shown in Figure 5-2.
10. Carefully check cutting edges of blades in relation to blade rotation to ensure correct blade placement. Blade rotation is counterclockwise with cutting edge leading. See Figure 5-2 on page 31. Airfoil (lift) must be oriented towards the top of the deck.

Section 5: Maintenance & Lubrication



Cutter Blade Assembly
Figure 5-1



Blade Rotation & Timing
Figure 5-2

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.

11. Insert blade bolt (#1) through blade (#6), dishpan (#4), and flat washer (#2). Secure blade with a **new locknut (#3)** and torque to 450 ft-lbs (610 Nm).
12. Repeat step 11 for the other blade.
13. Replace access cover (#5).
14. If replacing dishpan (#4), castle nut (#7) on gearbox output shaft should be torqued to 450 ft-lbs (610 Nm) minimum and secured with cotter pin (#8) with both legs bent opposite directions around the nut.

Driveline Maintenance

The drive-train is protected from shock loads with a two plate slip-clutch and secured to the cutter with a tapered pin. 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.

DANGER

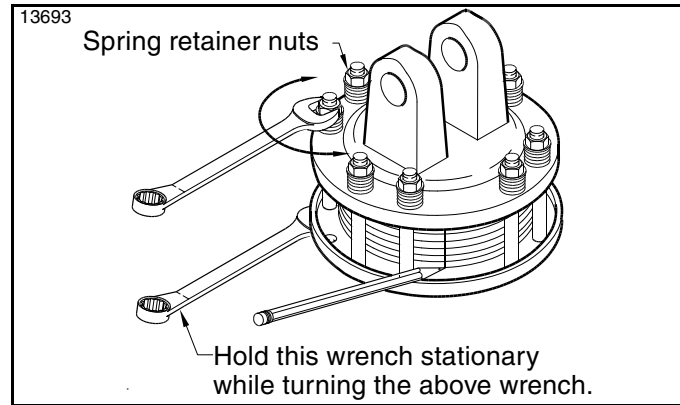
To prevent serious injury or death:

- 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.
- 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.

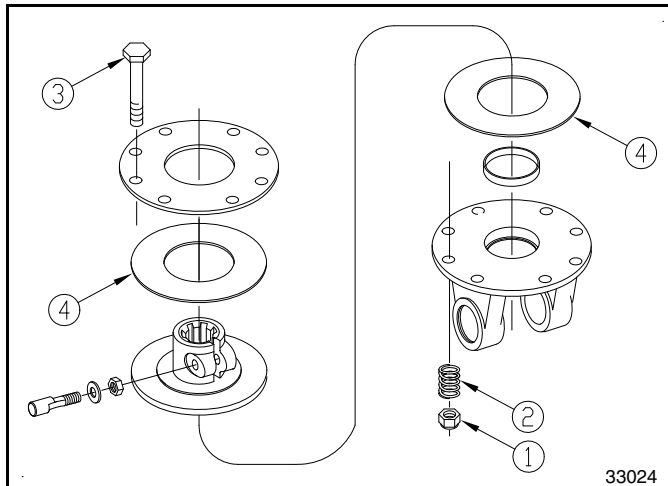


Clutch Run-in
Figure 5-3

Slip-Clutch Run-In

Refer to Refer to Figure 5-3:

1. Using a pencil or other marker, scribe a line across the exposed edges of the clutch plates and friction discs.
2. Carefully loosen each of the 8 spring retainer nuts by exactly 2 revolutions. It will be necessary to hold hex end of retainer bolt in order to count the exact number of revolutions.
3. Start tractor and engage power take-off drive for 2-3 seconds to permit slippage of the clutch surfaces. Disengage power take-off, then re-engage a second time for 2-3 seconds. Disengage power take-off, shut off tractor, and remove key. Wait for all components to stop before dismounting from tractor.
4. Inspect 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 disc and plate are still aligned. A clutch that has not slipped must be disassembled to separate the friction disc plates. See “**Slip-Clutch Assembly / Disassembly**” on page 33.
5. Tighten each of the 8 spring retainer nuts on the clutch housing exactly 2 revolutions to restore the clutch to the original setting pressure.
6. The clutch should be checked during the first hour of cutting and periodically each week. An additional set of scribe marks can be added to check for slippage. See Figure 5-5 to adjust spring length.



Clutch Disassembly
Figure 5-4

Slip-Clutch Assembly / Disassembly

Refer to Figure 5-4:

IMPORTANT: Refer to Figure 5-5. Be sure to measure and record length ("A") of each spring before disassembling the clutch.

See **IMPORTANT NOTE** above before disassembling clutch. After measuring and recording each spring length, remove spring retainer nuts (#1), springs (#2), and bolts (#3). Each friction disc (#4) must then be separated from the metal surface adjacent to it. Refer to the Parts Manual for a detailed parts breakdown.

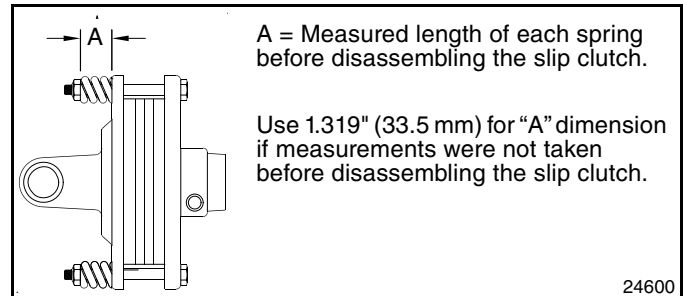
Inspection

Inspect all parts for excessive wear and condition. Clean all parts that do not require replacement. The original friction disc thickness is 1/8" (3.2mm) and should be replaced if thickness falls below 3/64" (1.1mm). If clutches have been slipped to the point of "smoking", the friction discs may be damaged and should be replaced. Heat build-up may also affect the yoke joints.

Assembly

Refer to Figure 5-4 & Figure 5-5:

Reassemble each friction disc (#4) next to the metal plate it was separated from. Install bolts (#3) through the end plates and intermediate plates as shown. Place springs (#2) over bolts (#3) and secure with nuts (#1). Progressively tighten each spring retainer bolt until correct spring height "A" dimension is obtained.



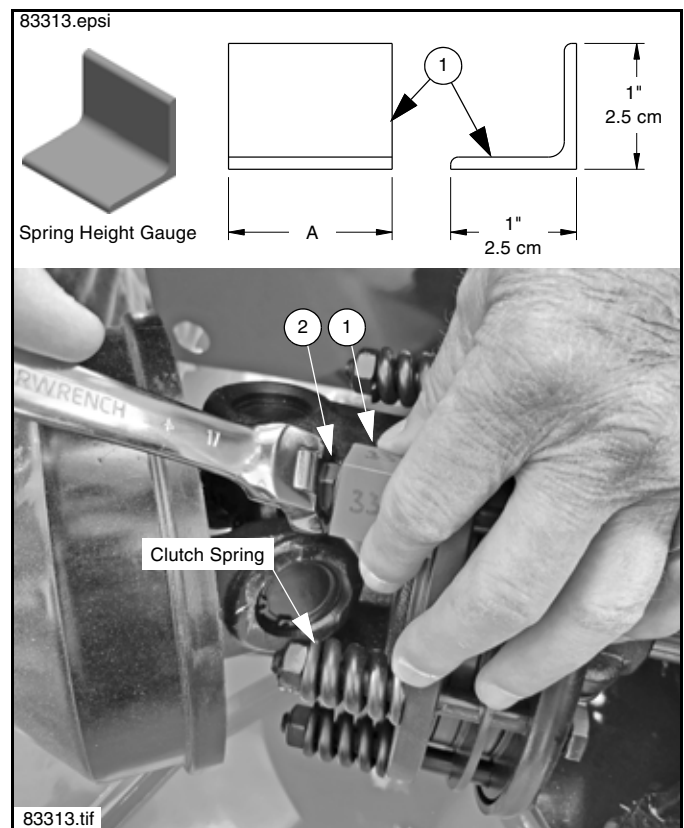
Clutch Adjustment
Figure 5-5

Spring Height Gauge

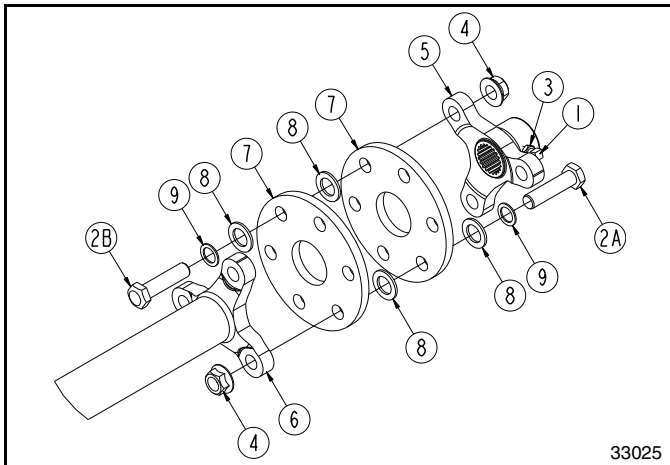
Refer to Figure 5-6:

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 5-5. (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 5-6



Flex Coupler Assembly
Figure 5-7

Flex Coupler & Blade Timing

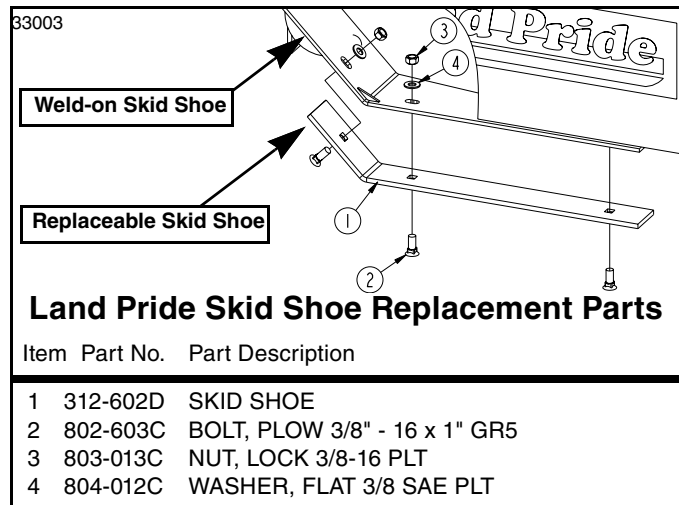
Refer to Figure 5-7 on page 34:

If rubber discs (#7) are wrinkled, the blades may be out of time and hit each other. Replace rubber disc if blades hit. Follow instructions below when replacing rubber discs and when adjusting blade timing.

IMPORTANT: See Figure 5-2. Cutter blades must be 90 deg. to each other to be in time or blades will contact each other when hitting solid objects such as tree stumps, rocks and earth.

IMPORTANT: Through use or hitting solid objects, rubber discs can become worn causing blades to be out of time. Replace worn rubber Discs.

1. Unbolt/remove rubber discs (#7) from flex coupler. Keep rubber discs that are in good shape and replace them if they are wrinkled excessively.
2. Loosen jam nut (#3) and set screw (#1). Slide spider (#5) off main gearbox output shaft.
3. Rotate cutter blades until blades on the left dishpan are 90° to blades on the right dishpan.
4. Hold blades 90° apart. Center spider lugs (#5) between spider tube lugs (#6) and push spider (#5) onto main gearbox output shaft.
5. Attach rubber discs (#7) to spider tube lugs (#6) with existing bolts (#2A), washers (#9), bushing (#8), and hex flange locknuts (#4) as shown. Do not tighten.
6. Attach rubber discs (#7) to spider lugs (#5) with existing bolts (#2B), washers (#9), bushing (#8), and hex flange locknuts (#4) as shown. Do not tighten.
7. Tighten nuts (#4) evenly until rubber disc (#7) touch each other at each bolt location. Bushings (#8) should be compressed halfway into the rubber discs.



Skid Shoe Accessory
Figure 5-8

Skid Shoe Maintenance (Accessory)

Refer to Figure 5-8:



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.

Check accessory skid shoes for wear and replace as needed. Order only genuine Land Pride parts from your local Land Pride dealer.

1. Remove 3/8" hex whiz nuts (#3), flat washers (#4), 3/8" plow bolts (#2), and skid shoes (#1) as shown.
2. Check plow bolts for wear and replaced if necessary.
3. Attach new skid shoes (#1) to cutter with existing 3/8" plow bolts (#2), flat washers (#4), and 3/8" hex whiz nuts (#3). Tighten nuts to the correct torque.



Section 5: Maintenance & Lubrication

Long Term Storage

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

DANGER

To avoid serious injury or death:

- 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.

CAUTION

To avoid minor or moderate injury:

Always store cutter with 3-point hitch pivoted back as far as possible. The floating 3-point hitch when not hooked to a tractor can fall backwards unexpectedly causing bodily injury.

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. Check blades and blade mounting hardware for wear. Replace blades and hardware as needed. See “**Cutter Blade Maintenance**” on page 30.
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. They are 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. Replace all damaged or missing decals.

Land Pride Aerosol Touch-up Paint

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

5. Lubricate unit. See “**Lubrication Points**” on page 36.
6. Store cutter on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer cutter life.
7. Follow all unhooking instructions on page 28 when disconnecting tractor from cutter.

Ordering Replacement Parts

Land Pride offers equipment in factory standard beige with black highlights. Equipment may also be purchased in Green, Red or Orange. Special attention must be given to the part number to prevent ordering the wrong color. A suffix number corresponding to one of the colors below 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 red, then add the suffix 83 to the end of the number to make the part number read 555-555C83.

Lubrication Points

Lubrication Legend



Multi-purpose spray lube



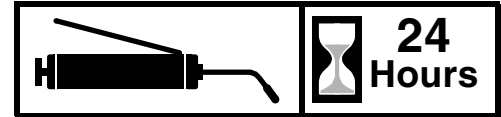
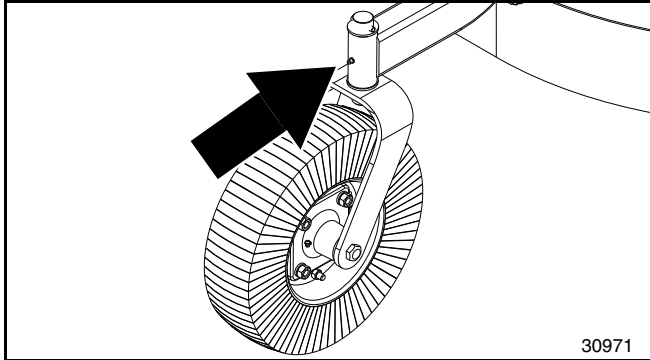
Multi-purpose grease lube



Multi-purpose oil lube



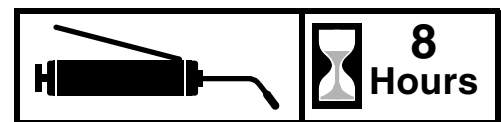
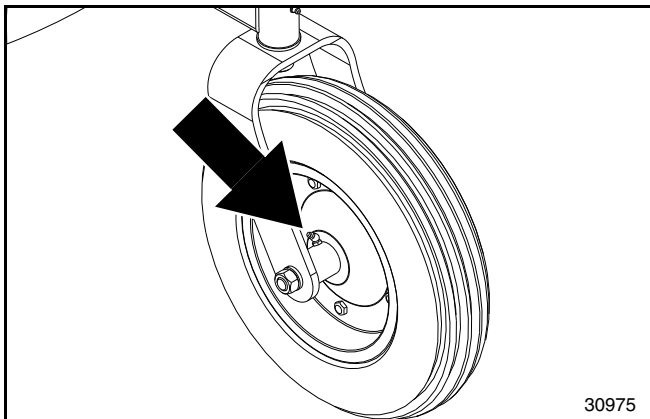
Intervals in hours at which lubrication is required



Gauge Wheel Spindle Tube

Type of Lubrication: Grease

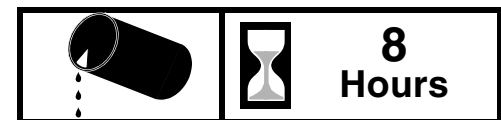
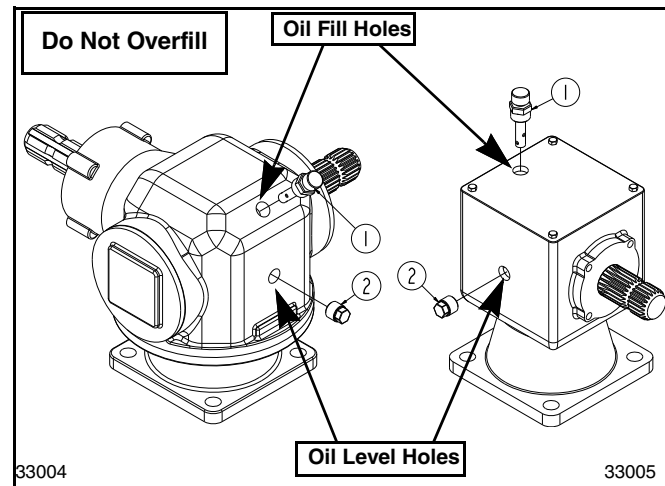
Quantity = 6 pumps



Gauge Wheel Hub

Type of Lubrication: Multi-purpose Grease

Quantity = 2 pumps



Gearbox

Change oil after the first 50 hours. Thereafter, change oil annually.

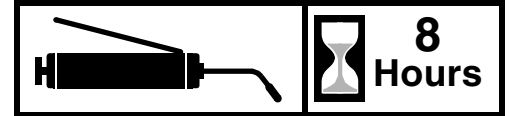
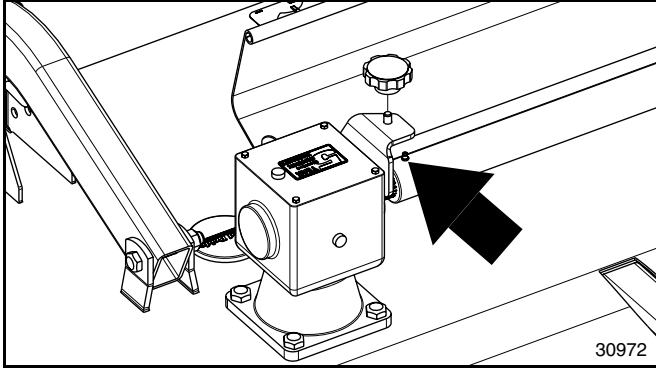
NOTE: Do not overfill! Cutter should be level when checking oil. Oil expands when hot, therefore, always check oil level when cold.

1. Remove side oil level plug (#2) to check oil level. Oil should be level with bottom of oil level hole.
2. If oil is below bottom of oil level hole, remove vented breather plug (#1) and add recommended gear lube through oil fill hole until oil flows out of oil level hole.
3. Reinstall and tighten oil level plug (#2) and vented breather plug (#1).
4. Repeat steps 1 to 3 above for the other gearbox.

Type of Lubrication: 80-90W EP Gear Lube

Quantity = Fill with oil until it is level with bottom of oil level hole. (Oil should just start to flow out the oil level hole.)

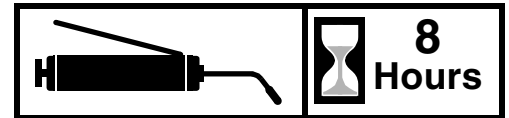
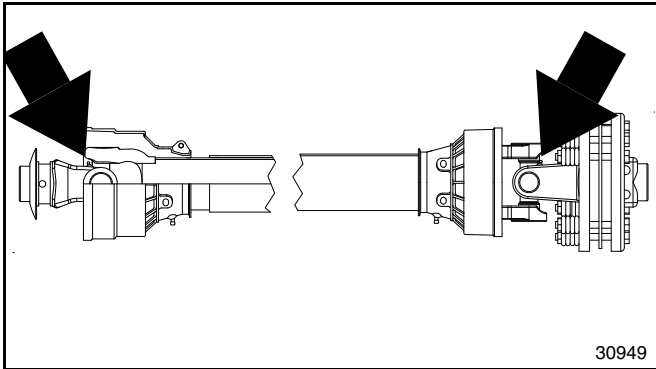
NOTE: Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.



Flex Coupling Shaft

Type of Lubrication: Multi-purpose Grease

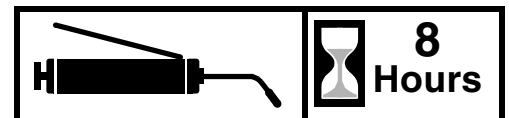
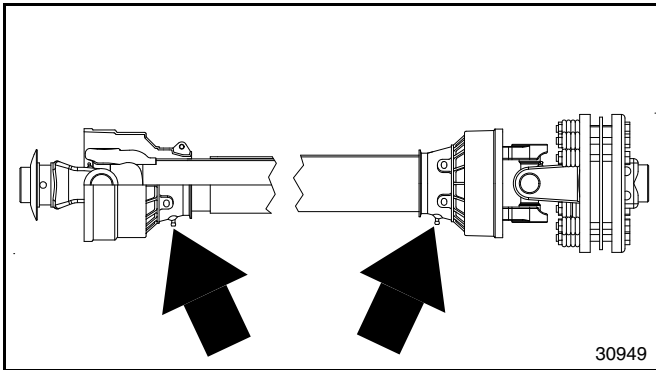
Quantity = 6 pumps



Driveline U-Joints

Type of Lubrication: Multi-purpose Grease

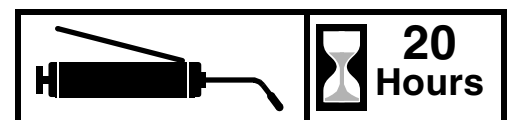
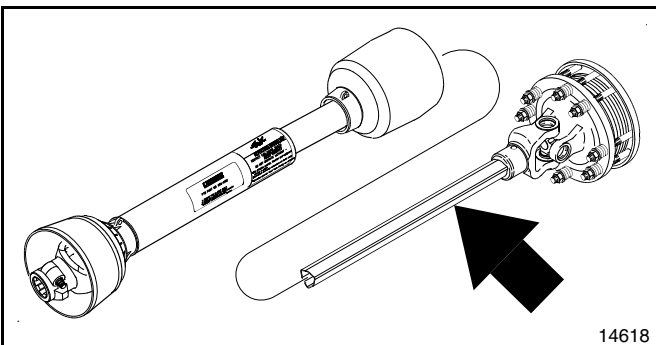
Quantity = 6 pumps



Driveline Shield Bearings

Type of Lubrication: Multi-purpose Grease

Quantity = 6 pumps



Driveline Profiles

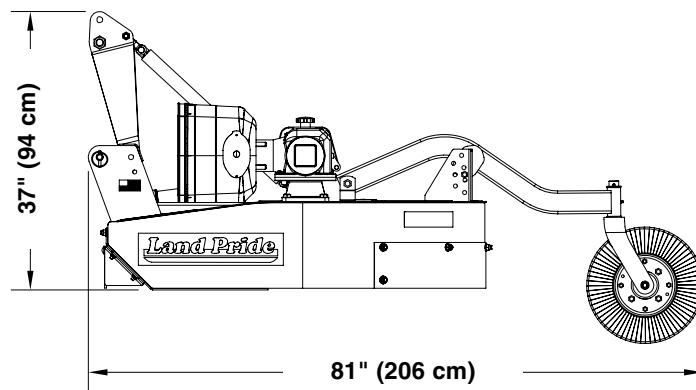
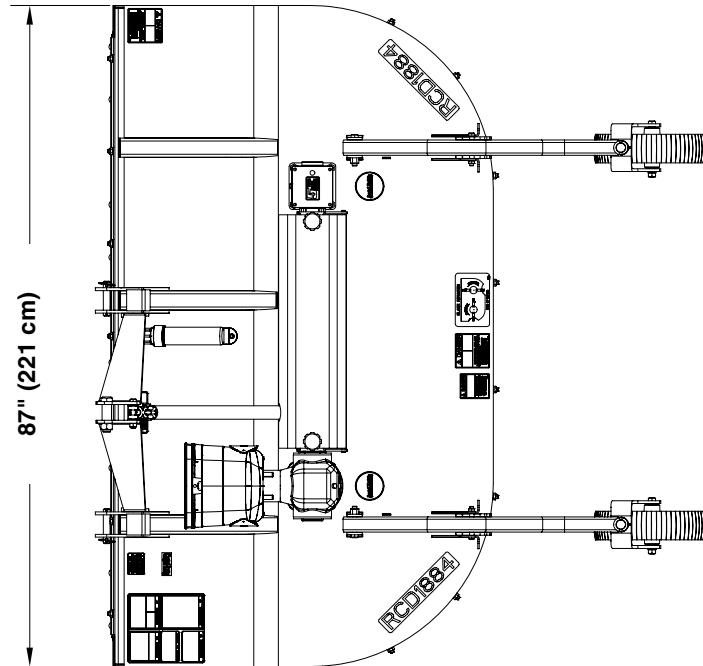
Type of Lubrication: Multi-purpose Grease

Quantity = Clean and coat inner tube of driveline with a light film of grease and then reassemble.



RCD1884 Model

Specifications & Capacities	
Machine Weight with Dual Laminated Tailwheels Dual Solid Tailwheels	900 lbs (408 kg) 905 lbs (411 kg)
Hitch	Category I with clevis type lower links and floating top linkage Quick Hitch adaptable
Cutting Width	84" (213 cm)
Overall Width	87" (221 cm)
Overall Length	81" (206 cm)
Offset Distance to the Right	10" (25 cm)
Deck Height at Rear	11 5/8" (29.5 cm)
Cutting Height	2" to 12" (5 to 31 cm)
Cutting Capacity	1 1/2" (3.8 cm) Diameter
Recommended Tractor Power Take-Off Horsepower	35-60 horsepower (26-45 kW)
Power Take-Off Speed	540 rpm
Gearbox	90 hp (67 kW) main gearbox and 45 horsepower (34 kW) side gearbox With speed-up beveled gears, cast iron housing, and 1.67" output shaft
Gearbox Lubricant	EP 80-90W oil
Gearbox oil Capacity Main Gearbox Side Gearbox	4.7 pints (2.2 L) 3.5 pints (1.7 L)
Deck Construction	All welded deck
Deck Material Thickness	10 Gauge (3.4 mm)
Side Skirt Material Thickness	10 Gauge (3.4 mm)
Skid Shoe Construction	3/16" (5 mm) Weld-on with mounting holes for adding optional bolt-on replaceable skid shoes.
Stump Jumper	10 Gauge (3.4 mm) x 24" (61 cm) Round dish pan with 1" x 4" x 19 1/2" (2.5 x 10 x 49 cm) blade bar
Blades (4)	1/2" x 4" x 16" (13 x 102 x 406 mm) Heat treated alloy steel free-swinging suction blades
Blade Overlap	5" (13 cm)
Blade Bolts	Keyed with harden flat washers and locknuts.
Blade Tip Speed	11,693 fpm (59 mps)
Main Driveline	ASAE Category 3
Main Driveline Protection	2 plate slip clutch
Tailwheel Mount	Caster fork with 360 degree swivel
Tailwheel	Optional two 15" laminated tire or two 4" x 16" molded rubber tire.
Front Guard	Optional 4" x 6" (10 x 15 cm) molded rubber or single chain guard
Rear Guard	Standard metal band or optional metal extended guard



30973



RCD1884 Model







Features	Benefits
Surpassed rugged industry standards	All Land Pride Cutters have been designed and tested and meet rigorous voluntary testing procedures specified by ANSI.
10 Year limited gearbox warranty	Quality and dependability to handle tough mowing applications. Demonstrates Land Pride's confidence in the integrity of our gearboxes.
Gearbox Seal Protection	Gearbox bottom seal protection for longer bearing life.
Cat. 3 main driveline with 2-plate slip-clutch	2-Plate slip-clutch protect driveline and gearboxes. slip-clutch is more convenient than shear bolt for continual work.
Shock absorbing flex-coupler between main and side gearboxes	Protects intermediate drive shaft and side gearbox from hard objects in the blade path.
10" (25 cm) Deck offset to the right	Allows the operator to cut closer to bodies of water, drainage ditches, roadways and objects such as fence lines, guard rails, buildings, and trees.
Lower clevis type 3-Point hitch	Allows for ease of hook-up to tractor. Also adds additional strength allowing for an even pull from the tractor's lower arms, vs. pulling on a single pin design.
Smooth deck top	Reduces accumulation of debris and is easier and faster to clean.
Fully welded 10 gauge deck	Fully welded deck adds additional strength to the deck. 10 Gauge decks can withstand more abuse than decks with lighter gauge.
Box tubing deck supports	Makes for a stronger rigid deck.
Round back design	Helps discharge grass better than enclosed or partially enclosed cutters.
11 5/8" (30 cm) Deck Height	Allows cutter to handle heavy cutting conditions.
1 1/2" to 12" (4 to 31 cm) Cutting height	Provides for a wide range of cutting conditions.
Skid shoes	Provides sidewall reinforcement and protection to bottom of sidewall.
1/2" x 4" (13 mm x 102 mm) Heat-treated free swinging blades	Free swinging protects from obstructions. Heat-treated offers longer life.
1/2" x 4" (13 mm x 102 mm) Blade bar	Heavy-duty blade bar adds support to stump jumper and gearbox output shaft.
Splined blade bar hub	Allows for tight positive fit of stump jumper and blade bar to gearbox output shaft.
Stump jumper	Standard round stump jumper slides over stumps, rocks, and debris.
Front and rear guarding	Protect against flying debris. Optional front rubber or single chain guarding. Standard rear metal band or optional rear extended metal guarding.
Optional 15" Laminated tailwheel 4" x 16' Molded rubber	Laminated material is long lasting in rough conditions and can't go flat. Can't go flat.



Troubleshooting Chart

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
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
	Binding up	Not lubricating enough
Driveline telescoping tube failing	Shock load	Avoid hitting solid objects
Driveline telescoping tube wearing	Needs lubrication	Lubricate every 20 hours
Blades Lock-up	Tractor has instant on power take-off	Engage power take-off at low rpm and then slowly increase engine speed to full power take-off speed. See Blade Engagement on page 28.
	Tractor has Instant off power take-off	Decrease engine speed slowly to an idle and then disengage power take-off. See Blade Disengagement on page 28.
Blades wearing excessively	Cutting on sandy ground	Raise cutting height.
	Contacting ground frequently	Raise cutting height.
	Power take-off speed too high	Maintain power take-off speed by slowing down.
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 30)
	Improper deck attitude	Lower front of deck, see page 25
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 and blade bolts 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
Tailwheel 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



Torque Values Chart for Common Bolt Sizes													
Bolt Size (inches)	Bolt Head Identification						Bolt Size (Metric)	Bolt Head Identification					
	 Grade 2	 Grade 5	 Grade 8	 Class 5.8	 Class 8.8	 Class 10.9							
in-tpi ¹	N · m ²	ft-lb ³	N · m	ft-lb	N · m	ft-lb	mm x pitch ⁴	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12	M 5 X 0.8	4	3	6	5	9	7
1/4" - 28	8.5	6	13	10	18	14	M 6 X 1	7	5	11	8	15	11
5/16" - 18	15	11	24	17	33	25	M 8 X 1.25	17	12	26	19	36	27
5/16" - 24	17	13	26	19	37	27	M 8 X 1	18	13	28	21	39	29
3/8" - 16	27	20	42	31	59	44	M10 X 1.5	33	24	52	38	72	53
3/8" - 24	31	22	47	35	67	49	M10 X 1.25	35	26	53	39	76	56
7/16" - 14	43	32	67	49	95	70	M12 X 1.75	58	42	91	67	125	93
7/16" - 20	49	36	75	55	105	78	M12 X 1.5	60	44	95	70	130	97
1/2" - 13	66	49	105	76	145	105	M12 X 1	90	66	105	77	145	105
1/2" - 20	75	55	115	85	165	120	M14 X 2	92	68	145	105	200	150
9/16" - 12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	215	160
9/16" - 18	105	79	165	120	235	170	M16 X 2	145	105	225	165	315	230
5/8" - 11	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245
5/8" - 18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" - 10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" - 16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" - 9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" - 14	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780
1" - 8	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845
1" - 12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1-1/8" - 7	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710
1-1/8" - 12	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700
1-1/4" - 7	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220
1-1/4" - 12	750	555	1680	1240	2730	2010	¹ in-tpi = nominal thread diameter in inches-threads per inch ² N · m = newton-meters ³ ft-lb= foot pounds ⁴ mm x pitch = nominal thread diameter in millimeters x thread pitch						
1-3/8" - 6	890	655	1990	1470	3230	2380							
1-3/8" - 12	1010	745	2270	1670	3680	2710							
1-1/2" - 6	1180	870	2640	1950	4290	3160							
1-1/2" - 12	1330	980	2970	2190	4820	3560							
Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above. All locknuts or lubricated fasteners: Use 75% of torque value. (i.e. 1/2"-13 GR5 = 76 ft-lb; 75% of 76 or .75 x 76 = 57 ft-lb).													
Additional Torque Values													
1" Quick Hitch Bolt & Top Locknut			400 to 450 ft-lbs (542 Nm to 610 Nm)										
Blade Carrier Hub Nut			450 ft-lbs (610 Nm) Minimum										
Blade Bolt Locknut			450 ft-lbs (610 Nm)										



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 and Driveline: One year Parts and Labor

Gearbox: S/N 2354203+ or retailed and warranty registered after 2/1/25
 10 Years Limited: 6 years Full Warranty, Parts and Labor
 Years 7, 8, 9, and 10 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. 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. Registration is done by your dealer.

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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