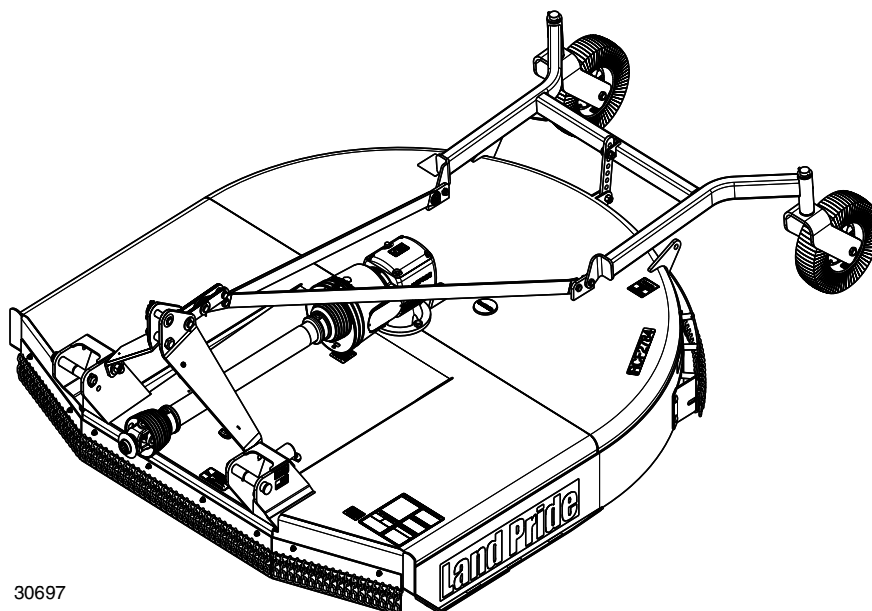
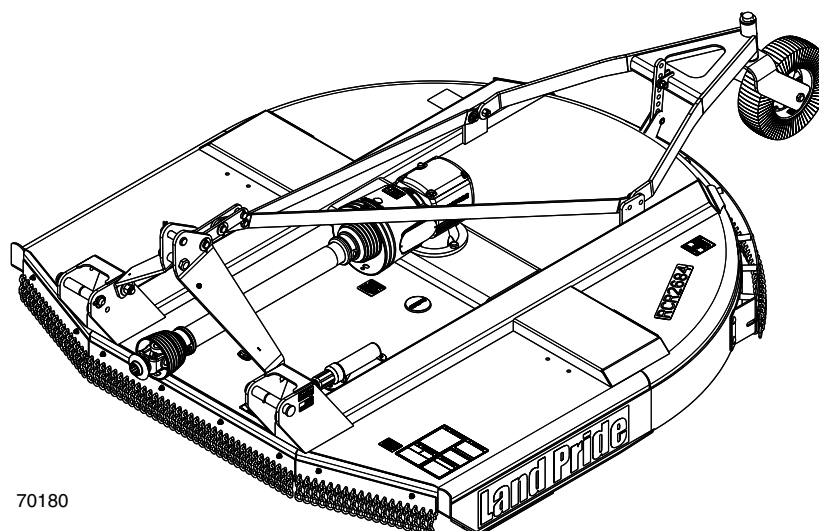


Rotary Cutters

RCF2784 & RCR2684 S/N 1180234+



RCF2784



RCR2684

**326-364M
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	 <hr/> <hr/> <hr/>

Dealer Contact Information

Name: _____

Street: _____

City/State: _____

Telephone: _____

Email: _____



California Proposition 65

WARNING: Cancer and reproductive harm - www.P65Warnings.ca.gov



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Printed in the United States of America.



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See previous page for Table of Contents.



Parts Manual QR Locator

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



Dealer QR Locator

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

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, or have the manuals read to them, 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 the 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 tractor and implement while backing up to implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ While transporting and operating equipment, watch out for objects overhead and along side 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 an 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 involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

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

⚠ DANGER

Indicates 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.

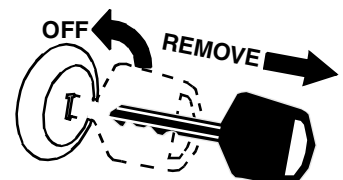
Safety Precautions for Children

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

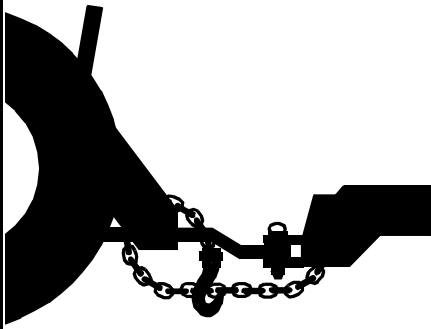
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic 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.
- ▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.



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

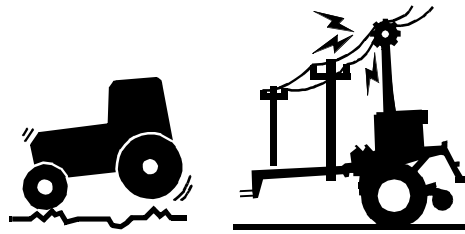
Use A Safety Chain

- ▲ 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.



Transport 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 tie downs and chains.
- ▲ Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if towed trailer is not equipped with brakes.
- ▲ Avoid contact with any over head utility lines or electrically charged conductors.
- ▲ Always drive with load on end of loader arms low to the ground.
- ▲ Always drive straight up and down steep inclines with heavy end of a tractor with loader attachment on the "uphill" side.



- ▲ Engage park brake when stopped on an incline.
- ▲ Maximum transport speed for an attached equipment is 20 mph. **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.
- ▲ As a guideline, use the following maximum speed weight ratios for attached equipment:

20 mph when weight of attached equipment is less than or equal to the weight of machine towing the equipment.

10 mph when weight of attached equipment exceeds weight of machine towing equipment but not more than double the weight.

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



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 hydraulic 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.

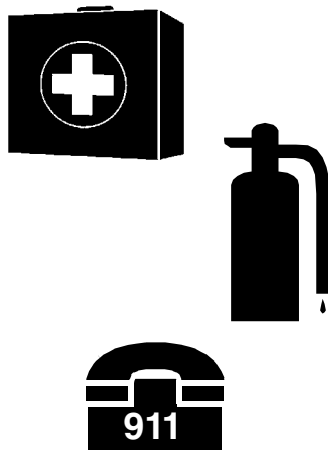
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement 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.
- ▲ 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, 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 equipment safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



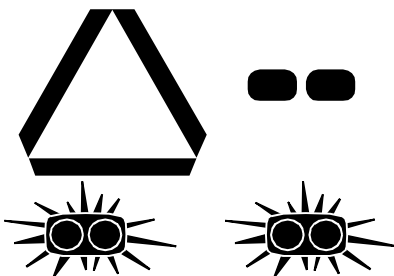
Avoid High Pressure Fluids

- ▲ Escaping fluid under pressure can penetrate the skin 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, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.



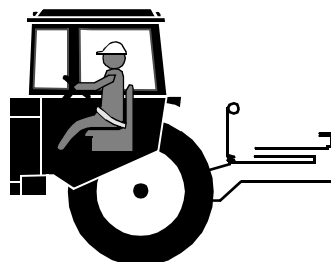
Use Safety Lights and Devices

- ▲ Slow moving tractors, and self-propelled equipment can create a hazard when driven on public roads. They are difficult to see, especially at night. Use the Slow Moving Vehicle (SMV) sign when on public roads.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.



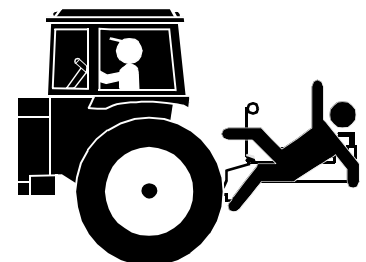
Use Seat Belt and ROPS

- ▲ 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 against serious injury or death from falling and 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 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: digsafecanada.ca
Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- ▲ Be sure to ask how close you can work to the marks they positioned.





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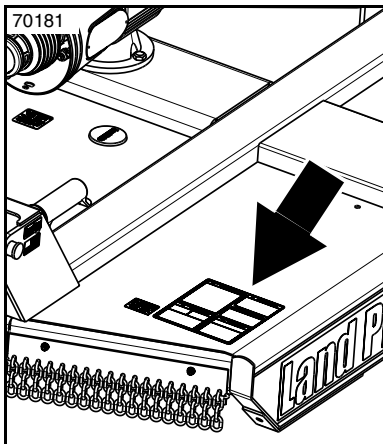
Safety Labels

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

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

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

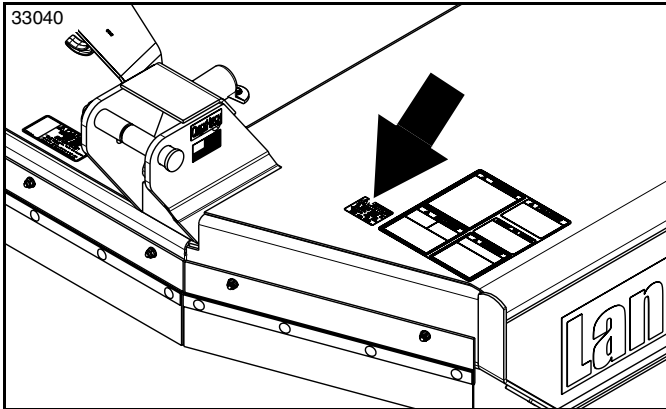
4. Refer to this section for proper label placement. To install new labels:
 - a. Clean surface area where label is to be placed.
 - b. Spray soapy water onto the cleaned area.
 - c. Peel backing from label and press label firmly onto the surface.
 - d. Squeeze out air bubbles with edge of a credit card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



844-190C
Safety Combo

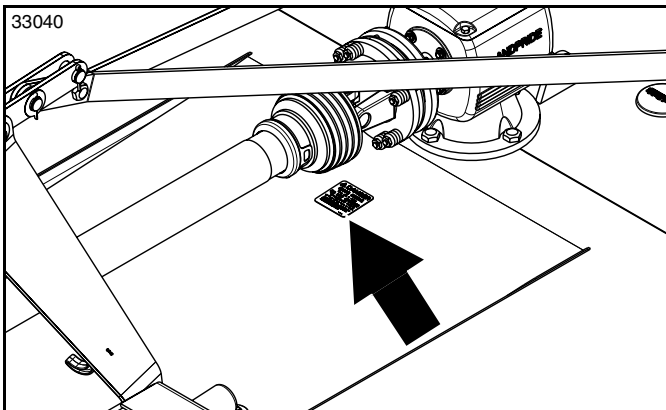
<p>! WARNING</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Do not operate or work on this machine without reading and understanding the Operator's Manual. • Avoid unsafe operation or maintenance. • Transport with clean reflectors, SMV, and lights as required by federal, state, and local laws. • If manual is lost, contact your nearest dealer for a new manual. 	<p>! DANGER</p> <p>ROTATING DRIVELINE CONTACT CAN CAUSE DEATH KEEP AWAY!</p> <p>DO NOT OPERATE WITHOUT:</p> <ul style="list-style-type: none"> • All driveline guards, tractor and equipment shields in place. • Drivelines securely attached at both ends. • Driveline guards that turn freely on driveline. <p>DO NOT USE PTO ADAPTORS</p>	<p>! DANGER</p> <p>THROWN OBJECT AND ROTATING BLADE HAZARD</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Do not operate unless all guards are installed and in good condition. • Inspect and clear debris from mowing area prior to mowing. • Do not operate with bystanders in or around mowing area. • Do not place hands or feet under deck when operating or when engine is running. • Do not dismount until blades come to a complete stop.
<p>! WARNING</p> <p>CRUSHING HAZARD</p> <p>Before performing maintenance on machine and to prevent serious injury or death:</p> <ul style="list-style-type: none"> • Read and understand operator's manual. • Stop engine, set brake, and wait for all moving parts to stop before dismounting. • Support cutter securely before working beneath. 	<p>! WARNING</p> <p>RUN OVER HAZARD</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Always use seat belt when operating. • Never allow riders on tractor or machine. 	<p>! WARNING</p> <p>ROLLOVER HAZARD</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Always use seat belt when operating. • Only operate on tractors equipped with a rollover protective structure (ROPS). • If equipped with foldable ROPS, only operate in the unfolded and locked position. • Use caution when mowing along inclines.

! WARNING: Cancer and reproductive harm • www.P65Warnings.ca.gov



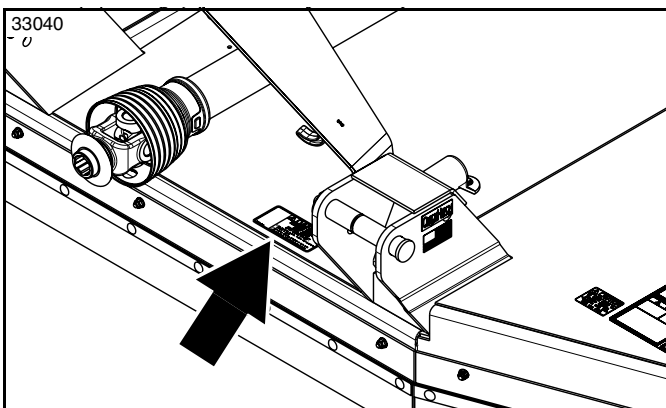
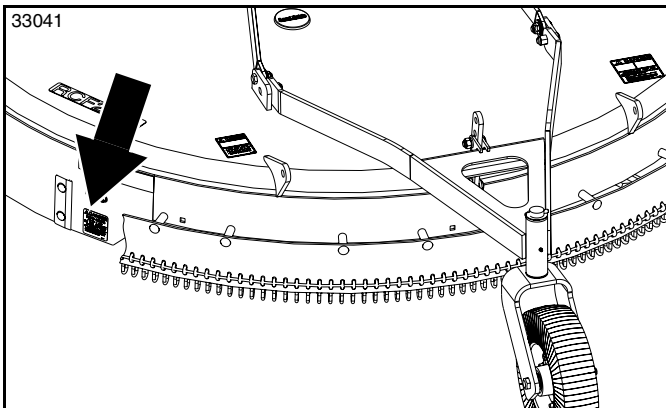
818-130C

Warning: 540 rpm



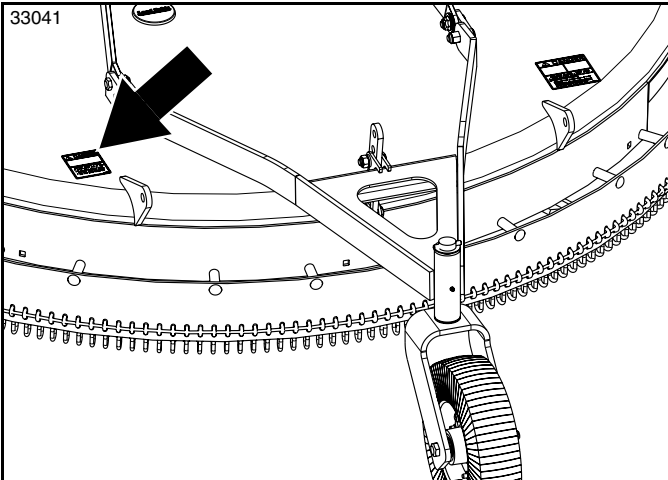
818-543C

Danger: Guard Missing



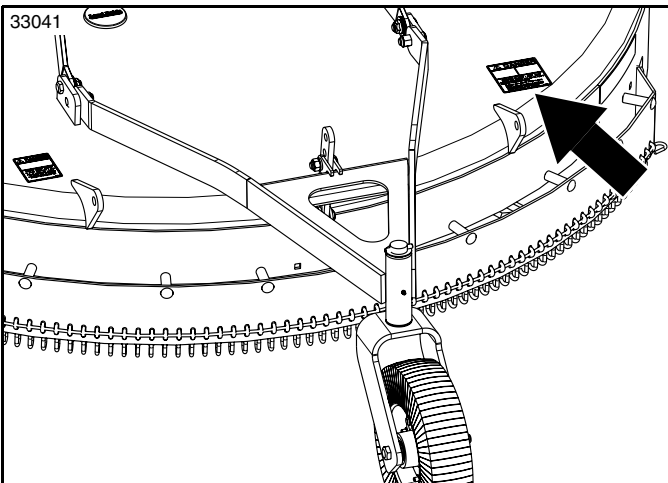
818-142C

Danger: Rotating Driveline



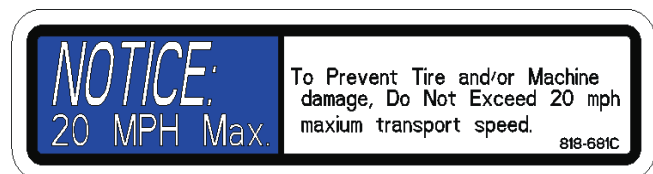
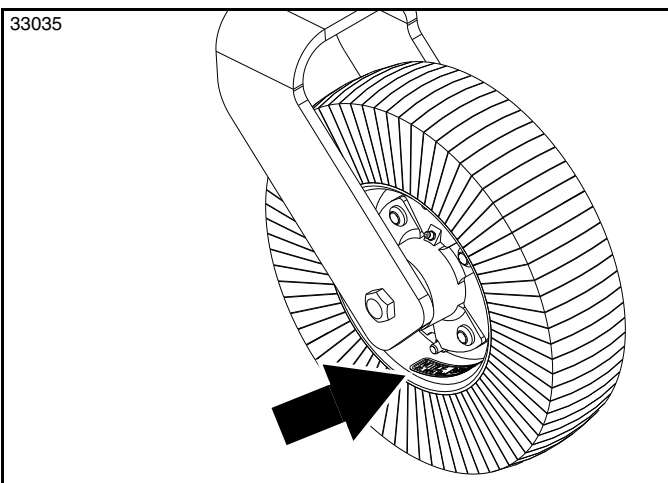
818-556C

Danger: Thrown Object



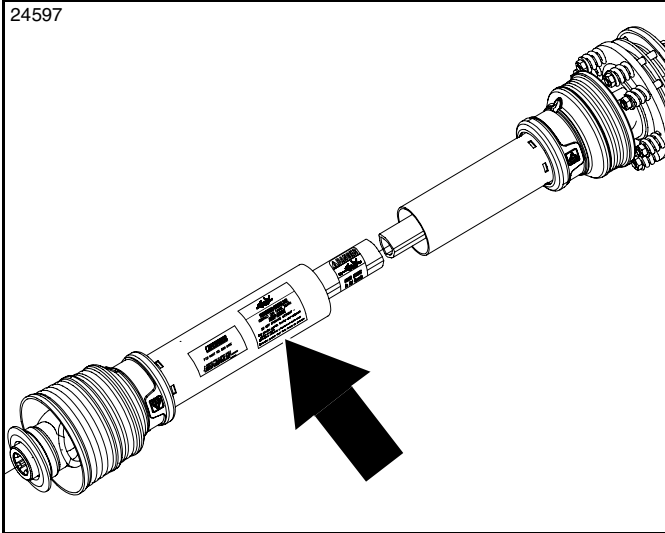
818-555C

Danger: Rotating Blades



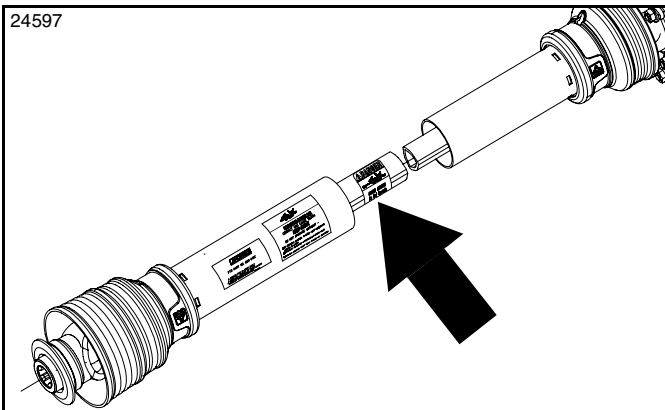
818-681C

Notice: 20 MPH Max.



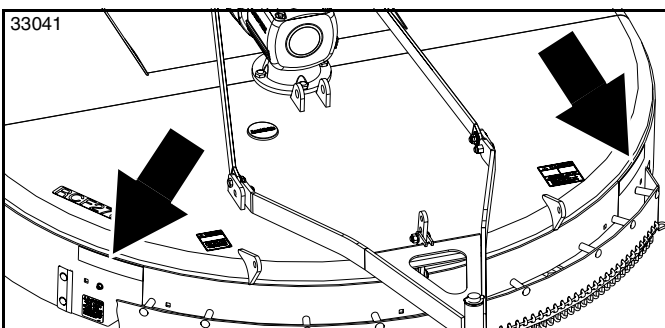
818-552C

Danger: Rotating Driveline



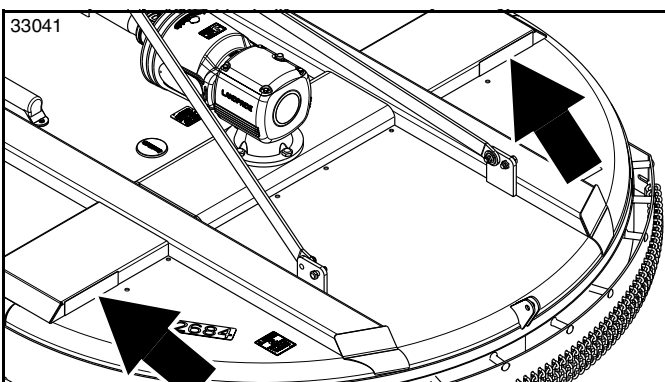
818-540C

Danger: Guard Missing



838-614C (RCF2784)

2" x 9" Red Reflector (2 places)



838-614C (RCR2684)

2" x 9" Red Reflector (2 places)

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 product

Application

The medium duty RCF2784 and RCR2684 Rotary Cutters are built and designed by Land Pride for cutting on gentle sloping or slightly contoured right-of-ways, pastures, set aside acres, and row crop fields. The 84" cutting width and Quick Hitch capability make them compatible with 60 to 130 horsepower tractors with 540 rpm power take-off speed, and Category II or III 3-Point or pull-type (RCF2784 only) hitch. Its Category 4 driveline is protected with a 4 plate slip clutch.

The cutters work well in tall grass, weeds, and light brush up to 3" in diameter and have a cutting height range of 1 1/2" to 12" with a cutting blade tip speed of 14,369 fpm. These units come with a standard heavy-duty oval stump jumpers and replaceable skid shoes. Optional front rubber deflector (RCF2784 only) or front chain guard and rear chain guards are available.

See "**Specifications & Capacities**" on page 43 and "**Features & Benefits**" on page 46 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 facing the direction the machine will operate while in use unless otherwise stated.

Definitions:

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

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

Owner Assistance

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

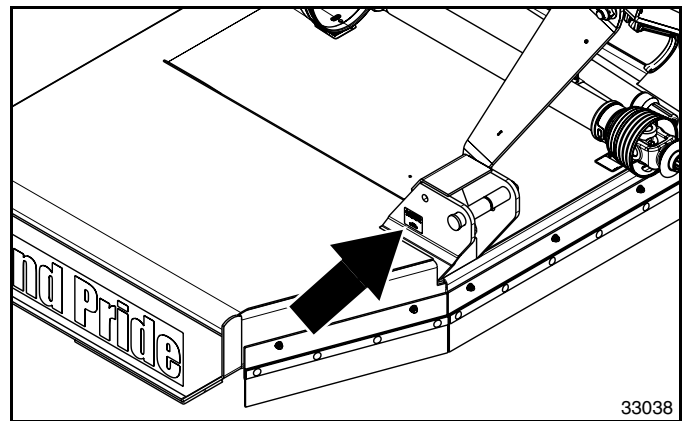


Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new Rotary 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 question/problem, 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
lp servicedept@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	60 to 130 horsepower
Hitch type:	
3-Point	Category Cat II & III
Pull-type (RCF2784 only)	Drawbar
Power take-off Speed	540 rpm
Hydraulic outlets (pull-type)	Single outlet
Tractor weight	See warning below

WARNING

To avoid serious injury or death:

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

Torque Requirements

Refer to "Torque Values Chart" on page 48 to determine correct torque values for common bolts. See **"Additional Torque Values"** at bottom of chart for exceptions to standard torque values.

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.

1. Secure cutter with a hoist or other lifting device before removing shipping hardware.

IMPORTANT: The rear chain guard is shipped attached to the underside of the deck and must be removed before putting cutter into service or the cutting blades will hit the guard.

2. Unbolt rear chain guard from underside of deck. Keep all attaching hardware for reassembly later.
3. Cut shipping straps securing driveline and hitch straps to the shipping crate. Remove driveline from shipping crate and pivot hitch straps down gently.
4. Remove lag screws securing front face of cutter to the crate.
5. Using lifting device, remove tension on hitch pins securing clevis plates to shipping crate.
6. Remove hitch pins from clevis plates and lift cutter from shipping crate.

NOTE: When lowering cutter onto the working area, keep hitch straps from falling onto the manual tube and breaking the tube.

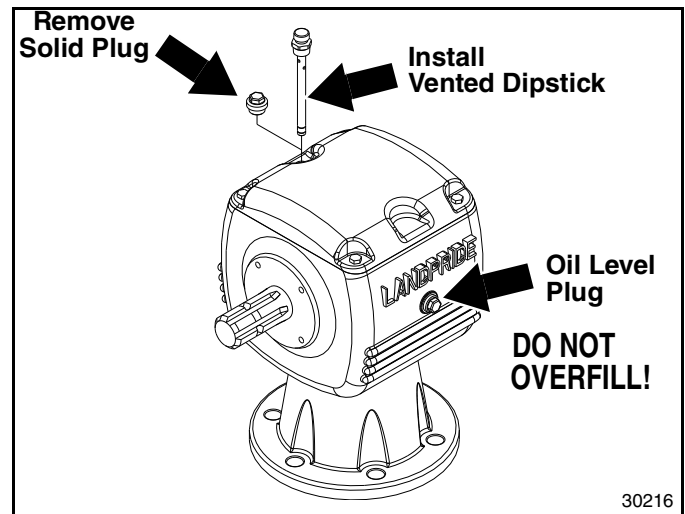
7. Gently lower cutter onto the working area. Be careful not to allow hitch straps to fall onto the manual tube.

Gearbox Vented Dipstick

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.

A vented dipstick is shipped loose and packaged with the Operator's Manual. Remove temporary solid plug from top of gearbox and replace with vented dipstick. See your nearest Land Pride dealer if dipstick is missing.



Gearbox Vented Dipstick Installation
Figure 1-1



Tractor Shutdown Procedure

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

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

3-Point Hitch Set-up

The following instructions are for assembling the 3-Point hitch assembly. See page 20 for "Pull-Type Hitch Set-up (RCF2784)" instructions.

NOTE: Do not tighten hardware to the correct torque until assembly is complete.

IMPORTANT: Be sure you know which Category your 3-point hitch is and that your following instructions for your hitch Category. There are two sets of holes that bushing (#16) can be installed in. See Figure 1-2 on page 13 for Cat. II set-up and Figure 1-3 on page 13 for Cat. III set-up.

Refer to Figure 1-2 for Cat. II & Cat. III Hitches:

1. Assemble hitch straps (#5 & #6) to clevis plates with 7/8"-9 x 2 1/2" bolts (#1), bushings (#2), 7/8" flat washers (#3) and 7/8"-9 nylock nuts (#4).
2. Attach driveline hook (#7) to hitch strap (#6) using 5/16"-18 x 1 1/4" bolt (#8) and nut (#9).
3. Assemble hitch braces (#10) to rear strap lugs with 5/8"-11 x 1 3/4" bolts (#14), bushings (#13), 5/8" flat washers (#12), and 5/8" flanged locknuts (#11).

Refer to Figure 1-2 on page 13 for Cat. II Hitch.

Refer to Figure 1-3 & Figure 1-4 on page 13 for Cat. III Hitch:

4. (See Important note below for Cat. III hook-up.) Insert 1"-8 x 4 1/2" GR5 hex head bolt (#15) through left-hand hitch strap (#6), 1 1/4" OD bushing (#16) and right-hand hitch strap (#5). Secure with 1"-8 flanged locknut (#17).

IMPORTANT: Special Cat. III Hook-Up Instructions.

Refer to Figure 1-3:

Bolt (#15) and bushing (#16) is installed in the top hole when attaching the mower to a tractor with a quick hitch set-up.

Refer to Figure 1-4:

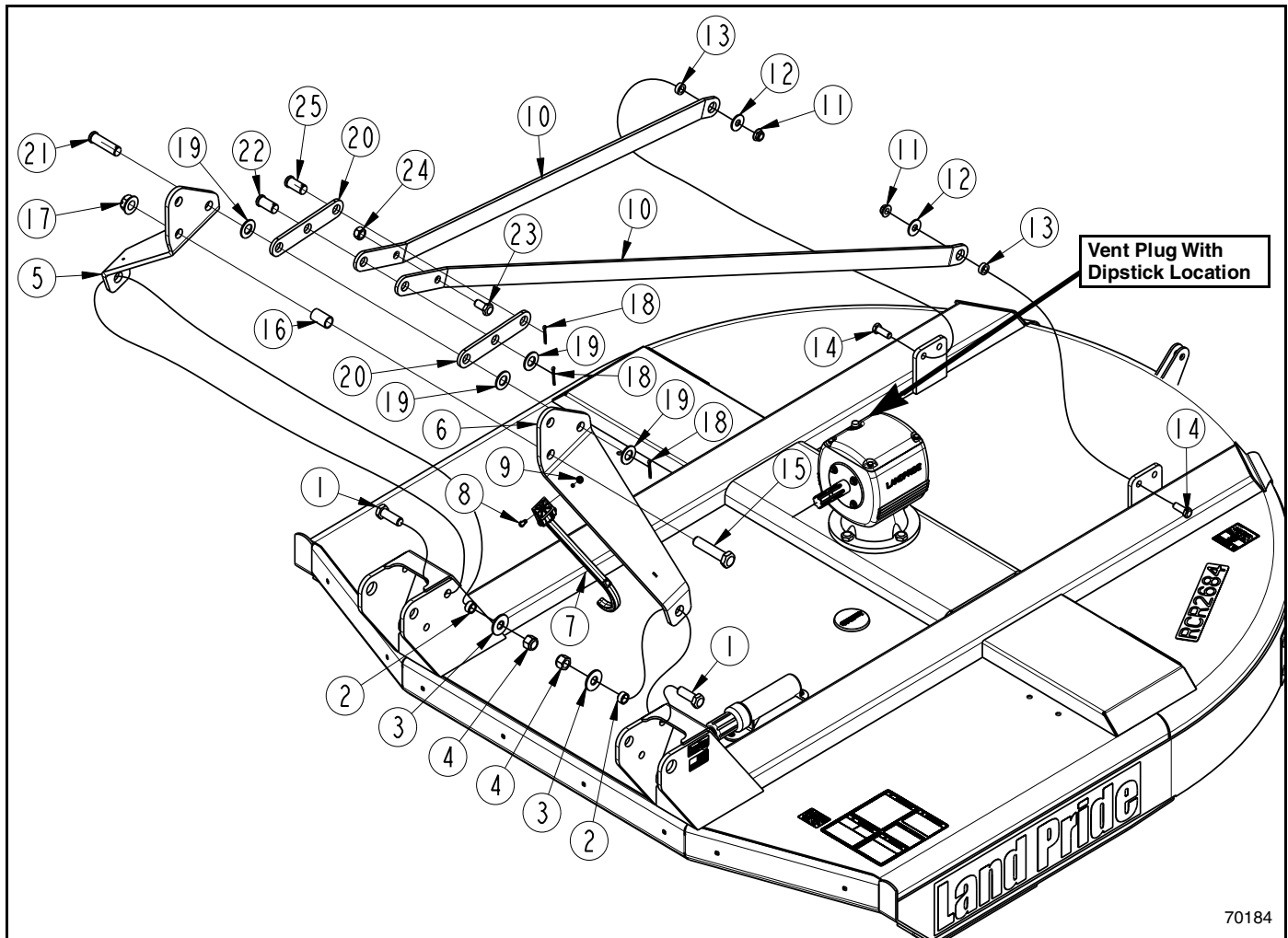
Bolt (#15) and bushing (#16) is installed in the bottom hole when attaching the mower to the tractor's 3-point hitch system.

Refer to Figure 1-2 for Cat. II & Cat. III Hitches:

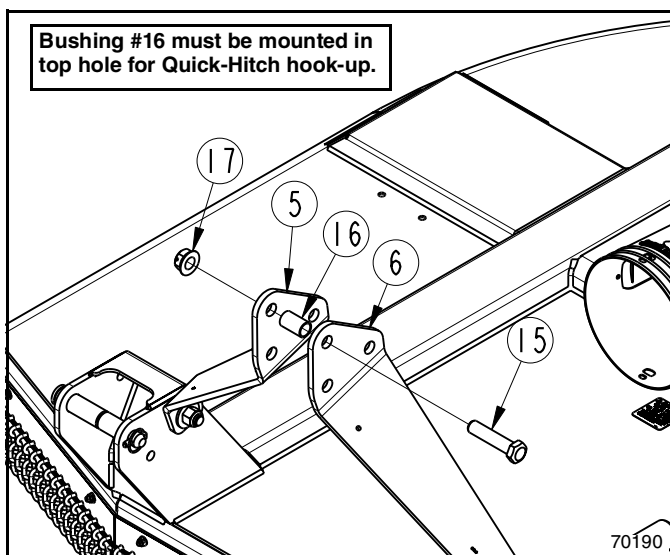
5. Insert 1" clevis pin (#21) through right-hand hitch strap (#5), 1" flat washer (#19), rear brace hinges (#20), 1" flat washer (#19), left-hand hitch strap (#6), and 1" flat washer (#19). Secure with cotter pin (#18).
6. Rotate hitch straps (#5 & #6) and hitch braces (#10) up as shown.
7. Insert 1" clevis pin (#22) through rear brace hinge (#20), hitch braces (#10), rear brace hinge (#20) and 1" flat washer (#19). Secure with cotter pin (#18).
8. Insert 1" clevis pin (#25) through rear brace hinges (#20) and secure with cotter pin (#18).

IMPORTANT: Make sure pin (#25) is above the hitch braces (#10) as shown.

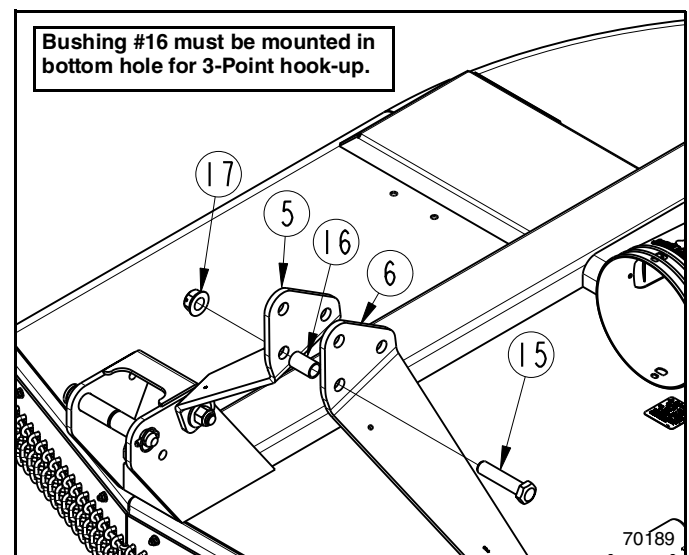
9. Insert 3/4"-10 x 1 1/2" bolt (#23) through hitch braces (#10) and secure with 3/4" locknut (#24).
10. Tighten nuts (#4, #9, #11, #17 & #24) to the correct torque.



Cat II And Cat III Hitch Assembly For RCR2684 & RCF2784 (RCR2684 Shown)
 (See Figures 1-3 & 1-4 Below For Bushing #16 Location)
 Figure 1-2



Assembly Of Bushing (#16) For Cat III Quick-Hitch Hook-Up
 (RCR2684 Shown)
 Figure 1-3



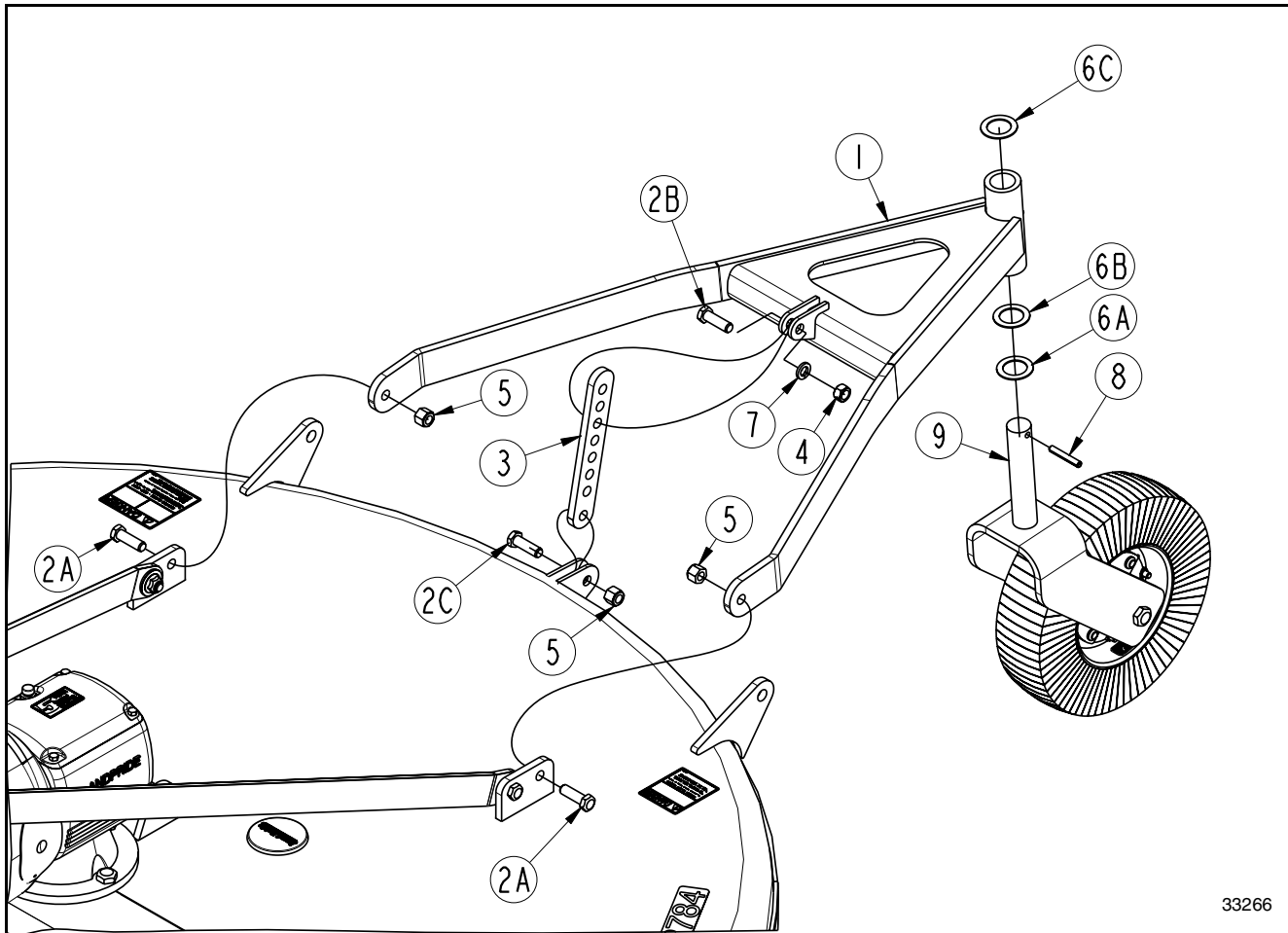
Assembly Of Bushing (#16) For Cat III 3-Point Hitch Hook-Up
 (RCR2684 Shown)
 Figure 1-4

3-Point Single Tailwheel Option

NOTE: Do not tighten hardware until assembly is complete. Refer to “**Torque Values Chart for Common Bolt Sizes**” on page 48.

Refer to Figure 1-5:

1. Attach tailwheel A-frame (#1) to inside of rear deck lugs with 5/8"-11 x 2" GR5 cap screws (#2A), and hex nylock nuts (#5). Draw nylock nut up snug, do not tighten.
2. Install two 2 1/4" OD machine washers (#6A & #6B) onto tailwheel spindle (#9).
3. Insert tailwheel spindle (#9) into pivot tube of A-frame (#1) and install machine washer (#6C) over tailwheel spindle. Secure tailwheel with 3/8" x 2 1/2" roll pin (#8).
4. Attach bottom hole of tailwheel adjustment bar (#3) to deck rear with 5/8"-11 x 2" GR5 cap screw (#2C), and hex nylock nut (#5). Draw nylock nut up tight, do not torque tight.
5. Attach tailwheel adjustment bar (#3) to A-frame (#1) with 5/8"-11 x 2" GR5 cap screw (#2B), spring lock washer (#7), and hex nut (#4). Tighten hex nut until lock washer (#7) is squeezed flat.



Single Tailwheel Assembly For RCR2684 & RCF2784 (RCF2784 Shown)

Figure 1-5

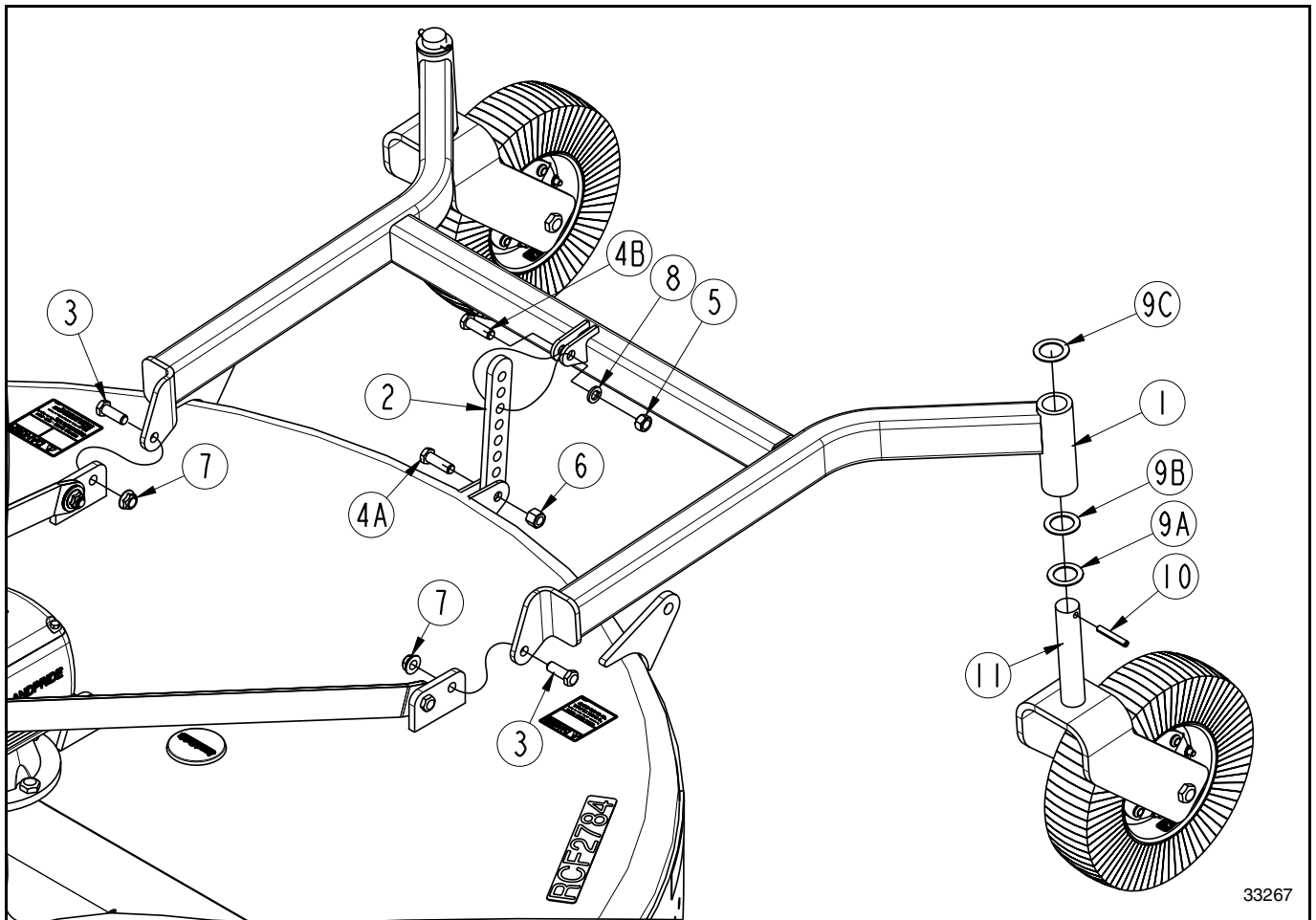
Section 1: Assembly & Set-up

3-Point Dual Tailwheel Option

NOTE: Do not tighten hardware until assembly is complete. Refer to “Torque Values Chart for Common Bolt Sizes” on page 48.

Refer to Figure 1-6:

1. Attach tailwheel frame (#1) to outside of rear deck lugs with 5/8"-11 x 1 3/4" GR5 cap screws (#3), and hex flange nylock nuts (#7). Draw nylock nut up snug, do not tighten.
2. Install two 2 1/4" OD machine washers (#9A & #9B) onto tailwheel spindle (#11).
3. Insert tailwheel spindle (#11) into pivot tube of tailwheel frame (#1) and install machine washer (#9C) over tailwheel spindle. Secure tailwheel with 3/8" x 2 1/2" roll pin (#10).
4. Attach bottom hole of tailwheel adjustment bar (#2) to deck rear with 5/8"-11 x 2" GR5 cap screw (#4A), and hex nylock nut (#6). Draw nylock nut up tight, do not torque tight.
5. Attach tailwheel adjustment bar (#2) to tailwheel (#1) with 5/8"-11 x 2" GR5 cap screw (#4B), spring lock washer (#8), and hex nut (#5). Tighten hex nut until lock washer (#8) is squeezed flat.



Dual Tailwheel Assembly For RCR2684 & RCF2784 (RCF2784 Shown)
Figure 1-6

Driveline Installation

DANGER

To avoid serious injury or death:

Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably causing implement damage and bodily injury or death to anyone nearby.

IMPORTANT: The drivelines must be lubricated before putting them into service. Refer to “Lubrication Points” on page 41.

Refer to Figure 1-7 on page 16:

1. Remove rubber protective sleeve (#8) from gearbox input shaft and discard.
2. Unsnap one end of access doors (#9) and rotate doors open.
3. Slide slip-clutch end of driveline (#11) onto gearbox input shaft until hole in driveline yoke aligns with groove in gearbox shaft. Insert M12 x 1.25 x 65mm GR8 bolt (#2) and secure with flat washer (#4) and hex nylock nut (#3). Tighten nylock nut to the correct torque.
4. Push/pull on driveline yoke to be sure it is securely fastened to the gearbox shaft.
5. Collapse driveline (#11) by pushing on tractor end of driveline towards the cutter gearbox shaft.
6. Rotate driveline hanger (#13) down and support driveline (#11) on the hanger.
7. Rotate access doors (#9) closed and snap in place.

3-Point Tractor Hook-up

Refer to Figure 1-7:

DANGER

To avoid serious injury or death:

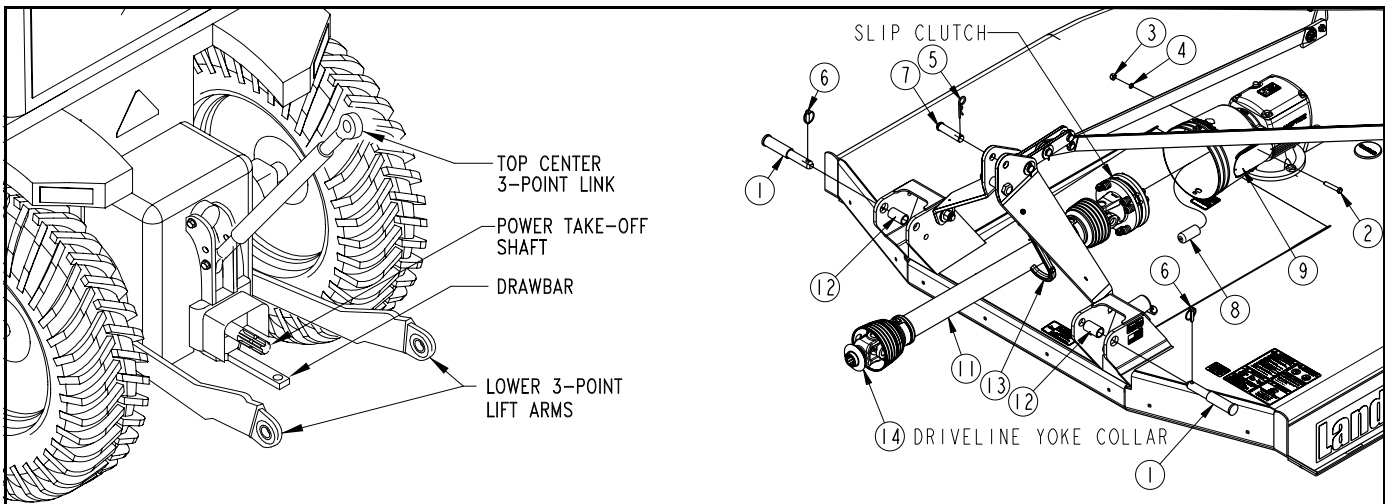
- A crushing hazard exists while hooking-up and unhooking the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.
- All guards and shields must be installed and in good working condition while operating the implement.
- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline. Always follow “Tractor Shutdown Procedure” provided in this manual before dismantling the tractor.

IMPORTANT: The tractor's lower 3-point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

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 tractor with 3-Point Category II or III hitch is required. The lower 3-Point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

1. Slowly back tractor to the Rotary Cutter while using tractor's 3-Point hydraulic control lever to align lower 3-Point arm hitch holes with clevis hitch pin holes.



Driveline Installation For RCR2684 & RCF2784 (RCF2784 Shown)

Figure 1-7



Section 1: Assembly & Set-up

- Engage tractor park brake, shut tractor engine off and remove key before dismounting from tractor.

NOTE: Adapter bushings (#12) are used if tractor 3-Point hitch is Cat. III. The bushing can also be used when using a Quick Hitch.

- Attach lower 3-Point arms to clevises with hitch pins (#1) and if required adapter bushings (#12). Secure hitch pins with linchpins (#6).
- Connect upper center 3-Point link hitch hole to upper hitch with clevis pin (#7) and hairpin cotter (#5).
- Return to tractor and slowly and carefully raise and lower cutter to ensure drawbar, tires, and other equipment on the tractor do not contact cutter frame. Move or remove drawbar if it interferes with cutter.
- Manually adjust one of the lower lift arms up or down to level the Rotary Cutter from left to right.
- Manually adjust length of top-center-link to align center hitch pin vertically above lower hitch pins. Final deck leveling adjustments will be made later.
- Adjust stabilizers on the tractor's lower 3-point arms to stop lateral float. Please consult your tractor's manual for adjusting instructions.

Driveline Hook-up



DANGER

To avoid serious injury or death:

- Do not engage power take-off while hooking-up or unhooking 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.
- 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 causing implement damage and bodily injury or death to anyone nearby.



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: The drivelines must be lubricated before putting them into service. Refer to "Lubrication Points" on page 41.

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

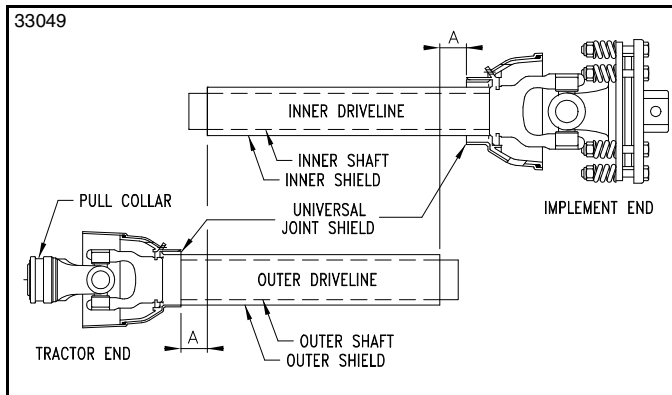
IMPORTANT: Drivelines with friction clutches must go through a "run-in" prior to initial use and after long periods of inactivity. For detailed instructions, see "Driveline Slip-Clutch" on page 36.

IMPORTANT: Check driveline minimum collapsible length before completing "Driveline Hook-up". Structural damage to the tractor and cutter can occur if this check is not made. Refer to "Check Driveline Collapsible Length" on page 18.

- If driveline collapsible length has not been checked, go to "Check Driveline Interference" on page 19. Otherwise, continue with step 2 below.
- Park tractor on a level surface.
- Shut tractor down before dismounting. Refer to "Tractor Shutdown Procedure" on page 12.

Refer to Figure 1-7:

- If tractor drawbar interferes with the driveline during hook-up, disconnect driveline and move drawbar forward, to the side, or remove.
- Remove driveline (#11) from driveline support (#13). Driveline support is spring loaded and will rotate up against the A-frame.
- Pull back on driveline yoke collar (#14) and push driveline yoke onto the tractor power take-off shaft. Release pull collar and continue to push driveline yoke forward until pull collar locks in place.
- Pull on driveline yokes at the tractor and implement end to make sure it is secured to the tractor power take-off shaft and implement gearbox shaft.
- Continue with "Check Driveline Interference" on page 19.

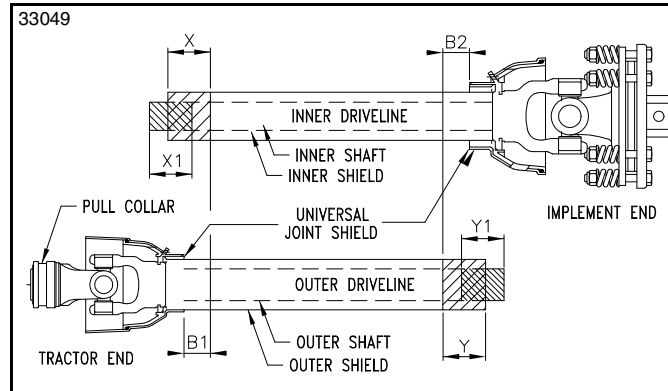


Check Driveline Minimum Length Shortening
Figure 1-8

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.

1. With driveline attached only to the cutter, remove outer driveline (tractor end) from inner driveline to separate the two profiles.
2. Park tractor and cutter on a level surface.
3. Raise cutter until gearbox input shaft is level with tractor power take-off shaft. Securely block cutter at this height to keep the unit from lowering.
4. With cutter resting on the support blocks, shutdown the tractor using “**Tractor Shutdown Procedure**” on page 12.
5. Attach outer driveline to the tractor’s power take-off shaft. Refer to “**Driveline Hook-up**” on page 17, steps 4-7.
6. Hold inner and outer drivelines parallel to each other as shown in Figure 1-8. Measure dimension “A.”
 - If “A” is less than 1”, continue with step 7.
 - If “A” is greater than or equal to 1”, skip to “**Check Driveline Maximum Length**” on page 19.



Shorten Driveline Length
Figure 1-9

7. If dimension “A” is less than 1”, shorten driveline as follows:

Refer to Figure 1-9:

- a. Measure 1” (“**B1**” dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.
- b. Measure 1” (“**B2**” dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.
8. Remove outer driveline from the tractor power take-off shaft and inner driveline from the cutter gearbox shaft.
9. 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).
10. 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).
11. Remove all burrs and cuttings.
12. Continue with “**Check Driveline Maximum Length**” on page 19.

Section 1: Assembly & Set-up

Check Driveline Maximum Length

Refer to Figure 1-10:

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. Continue with “**Check Driveline Interference**”.

Check Driveline Interference

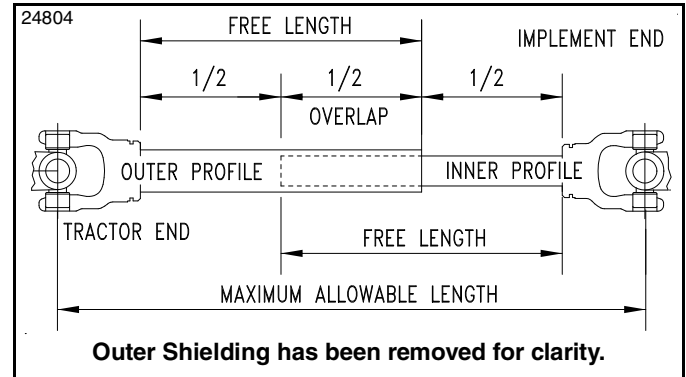
Refer to Figure 1-11:

WARNING

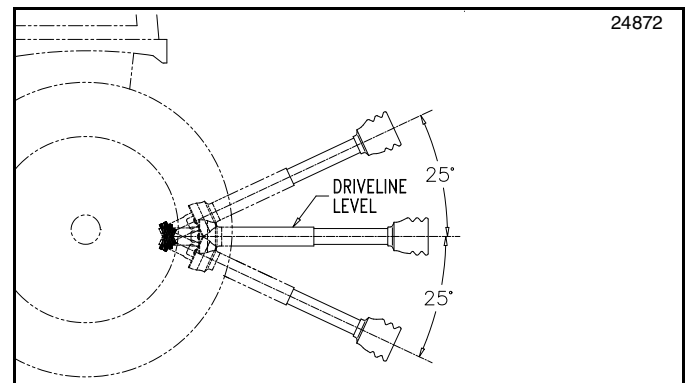
To avoid serious injury or death:

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 projectiles.

1. Lubricate driveline If it has not be lubricated. Refer to “**Lubrication Points**” on page 42.
2. Attach driveline to the implement or tractor if it is not attached. See “**Driveline Installation**” on page 16 and “**Driveline Hook-up**” on page 17.
3. Start tractor and raise implement slightly off the support blocks. Drive forward until the implement is clear of the support blocks.
4. Slowly and carefully lower and raise cutter to ensure drawbar, tires, and other tractor equipment do not contact the cutter frame. If there is an interference:
 - a. Back cutter 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 cutter and make any other necessary corrections.
 - d. Repeat steps 1-4 to verify the cutter does not interfere with the tractor.
5. Start tractor and raise implement fully up. If implement is not above the support blocks, back implement over the support blocks. Do not lower implement onto the support blocks.
6. Without changing the 3-point lift height, shut tractor down using “**Tractor Shutdown Procedure**”.
7. Check to make sure the driveline angle does not exceed 25 degrees above horizontal as shown in Figure 1-11.



Driveline Maximum Extended Length
Figure 1-10



Maximum Driveline Movement During Operation
Figure 1-11

8. If driveline angle exceeds 25 degrees above horizontal or if length recorded in step 2 under “**Check Driveline Maximum Length**” is exceeded, adjust 3-point lift height as follows:
 - a. Adjust tractor 3-point lift limiter height to keep the driveline within the recommended 25 degree angle and maximum allowable length.
 - b. If the 3-point left lever does not have a lift height limiter, make a mark with tape or other means to indicate maximum lift height.
9. Start tractor, raise implement slightly, and drive forward enough to clear the support blocks.
10. Lower implement to ground and shut tractor down using “**Tractor Shutdown Procedure**”.

Pull-Type Hitch Set-up (RCF2784)

The following instructions are for assembling the Pull-Type cutter. See page 12 for “3-Point Hitch Set-up” instructions.

Hitch Assembly

The tongue, drivelines, dual tailwheel axle, and ratchet jack option or hydraulic cylinder option will need to be assembled to the deck.

Refer to Figure 1-12:

1. Discard 2 1/2" long bushing (not shown) shipped with hitch pins (#1). Attach tongue (#7) to deck with hitch pins (#1) and 1" long spacers (#4). Secure hitch pins with linchpins (#21).

IMPORTANT: Be sure bearing lock collar in bearing support assembly (#5) is facing driveline (#25).

2. With bearing lock collar facing driveline (#25), attach bearing support assembly (#5) to tongue (#9) with bushings (#6), flat washers (#18), lock washer (#19), hex nut (#15), and 5/8"-11 x 7 1/2" GR5 hex head cap screw (#10). Tighten hex nut to the correct torque.
3. Attach spring hose loop mounting bracket (#3) to the right-hand clevis with 3/8" -16 x 1" GR5 hex head cap

screw (#11) and locknut (#16). Tighten locknut to the correct torque.

4. Attach spring hose loop (#22) to spring hose loop mounting bracket (#3) with 3/8" -16 x 1" GR5 cap screw (#9), flat washer (#17), and locknut (#13). Tighten locknut to the correct torque.
5. Attach park jack support stob (#2) to the left-hand clevis lower hole with 3/4"-10 x 1 3/4" GR5 hex head cap screw (#12) and locknut (#16). Tighten locknut to the correct torque.
6. Attach park jack (#27) to stob on tongue with detent hitch pin (#28). Make certain detent hitch pin is fully inserted.

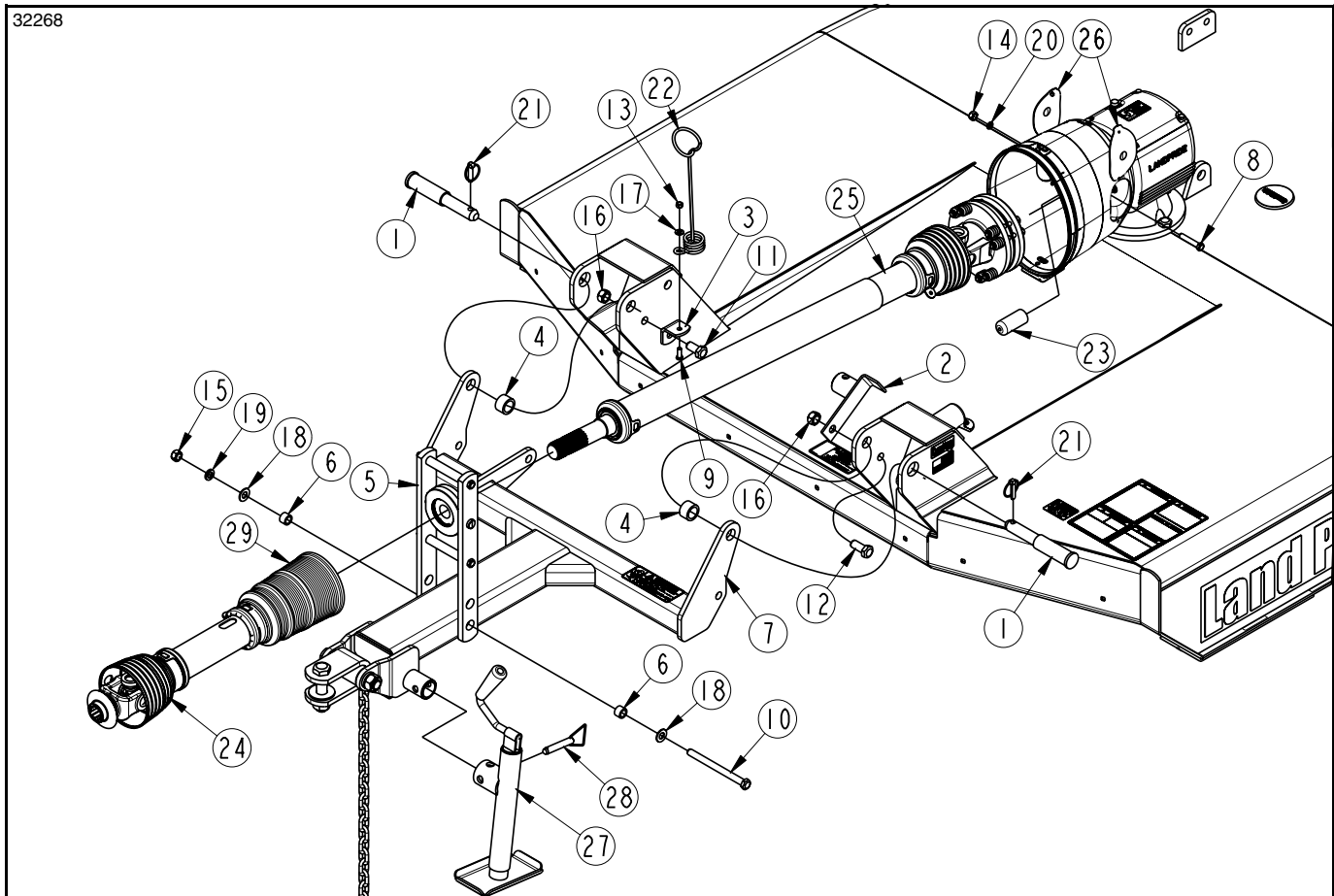
Driveline Installation

Refer to Figure 1-12:

DANGER

To avoid serious injury or death:

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.



Trail-Type Tongue Assembly (RCF2784 Only)

Figure 1-12

Section 1: Assembly & Set-up

1. Remove rubber protective sleeve (#23) from gearbox input shaft and discard.
2. Remove coupling bolt (#8) from end of slip-clutch.
3. Unsnap one end of both access doors (#26) and rotate doors open.
4. Slide slip-clutch end of driveline onto gearbox input shaft until holes in slip-clutch align with notch in gearbox input shaft.
5. Secure driveline (#25) to gearbox input shaft with coupling bolt (#8), spring lock washer (#20), and hex nut (#14). Tighten hex nut to the correct torque.
6. Move slip-clutch back and forth several times to make certain it is locked onto the gearbox shaft.
7. Rotate access doors (#26) closed and snap in place.
8. Insert jackshaft end of driveline (#25) through bearing in bearing support assembly (#5).
9. Pull bearing in bearing support assembly (#5) against driveline (#25) and tighten set screw in bearing collar against driveline jackshaft.
10. Attach driveline (#24) to jackshaft on driveline (#25) by pulling back on pull collar (#29) and pushing yoke onto the jackshaft. Release pull collar and continue to push yoke forward until pull collar locks in place.
11. Move driveline yoke back and forth several times to make sure yoke is locked in place.

Axle Assembly

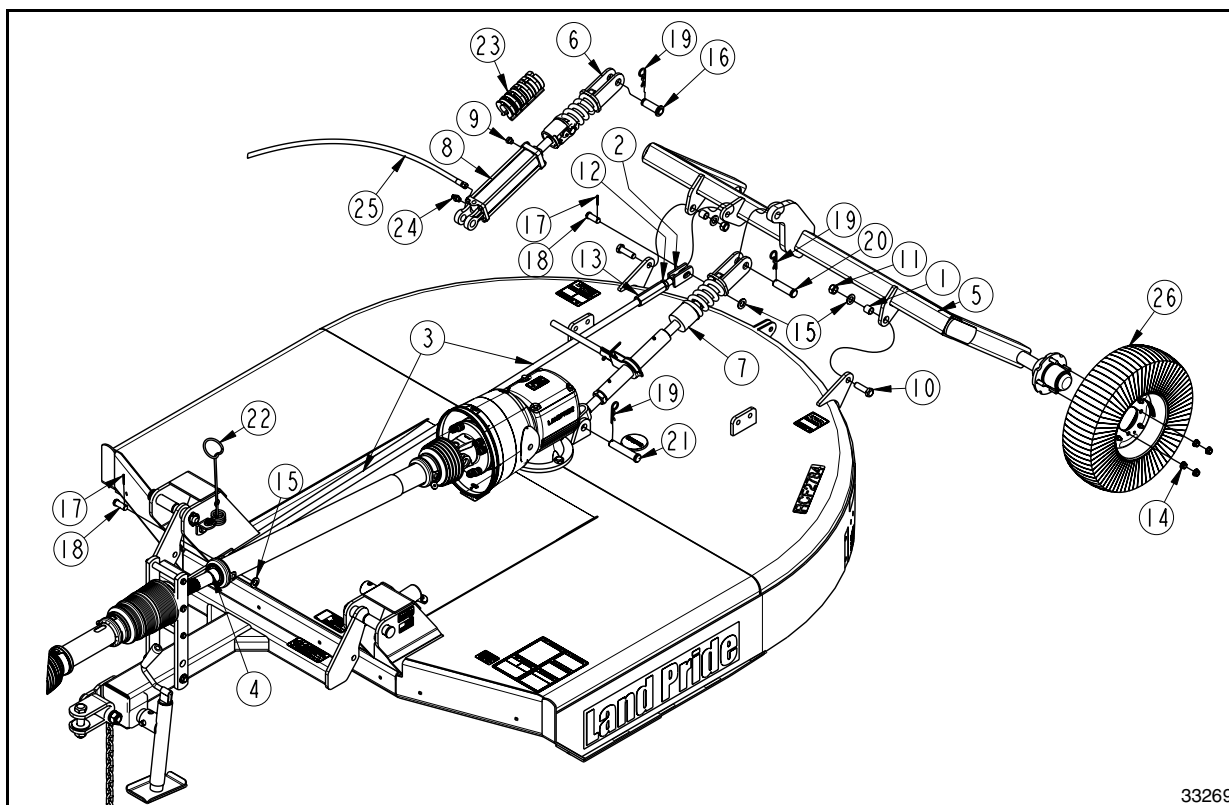
Refer to Figure 1-13:

NOTE: Tailwheel on right-hand side is not shown to allow easier viewing of balloons.

1. Install tailwheels (#26) to axle frame (#5) with hex flange locknuts (#14). Tighten locknuts to the correct torque.
2. Attach axle frame (#5) to rear deck lugs with 3/4"-10 x 2 1/2" GR5 cap screws (#10), spacer tubes (#1), flat washers (#15), and locknuts (#11). Tighten nuts to the correct torque.
3. Install ratchet jack (#7) or hydraulic cylinder (#8) to deck assembly as follows:

Ratchet Jack Installation:

- a. Attach base of ratchet jack (#7) to mounting lugs behind gearbox with 1" x 4 3/4" clevis pin (#21) as shown. Secure clevis pin with hairpin cotter (#19).
- b. Operate ratchet lever to extend or shorten ratchet jack until spring cushioned end of ratchet jack aligns with hole in axle frame (#5).
- c. Insert 1" x 3 3/16" clevis pin (#20) and secure with hairpin cotter (#19).



Trail-Type Axle Assembly (RCF2784 Only)

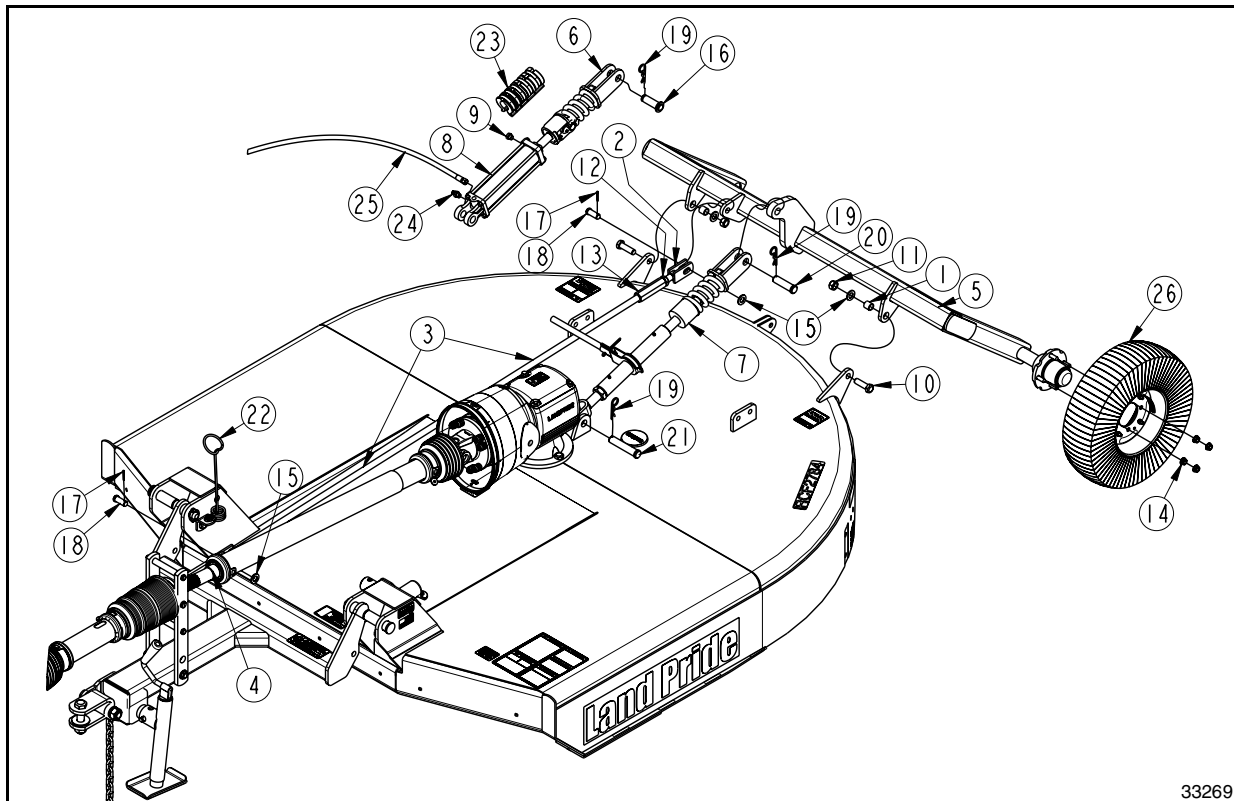
Figure 1-13

33269

Hydraulic Cylinder Installation:

Refer to Figure 1-14:

- a. Screw vent plug (#9) into port on rod end of cylinder (#8) until tight.
- b. Screw O-ring end of 9/16" straight adapter (#24) into port of base end of cylinder (#8) until tight.
- c. Screw hydraulic hose (#25) to straight adapter (#24) until tight.
- d. Attach quick coupling (coupling supplied by customer) at tractor end to hydraulic hose (#25) until tight.
- e. Attach base end of hydraulic cylinder (#8) between and to mounting lugs behind gearbox with 1" x 4 3/4" clevis pin (#21). Secure clevis pin with hairpin cotter (#19).
- f. Extend hydraulic cylinder until clevis on spring cushioned end (#6) straddles lug on axle frame (#5) and holes in clevis aligns with hole in axle frame lug.
- g. Insert 1" x 2 3/4" clevis pin (#16) and secure with hairpin cotter (#19).
4. Screw coupler nut (#13) onto long leveling rod (#3) about 1 3/4".
5. Screw jam nut (#12) onto the short leveling rod (#2) a distance of about 1 3/4".
6. Screw short leveling rod (#2) into coupler nut (#13) until coupler nut is against jam nut (#12).
7. Attach clevis end of long leveling rod (#3) to mounting bracket (#4) on the tongue with 3/4" x 1 1/2" clevis pin (#18), flat washer (#15), and cotter pin (#17). Bend one or more legs of cotter pin to keep it from falling out.
8. Attach clevis end of short leveling rod (#2) to mounting lug on axle frame (#5) with 3/4" x 1 1/2" clevis pin (#18), flat washer (#15), and cotter pin (#17). Bend one or more legs of cotter pin to keep it from falling out.



Trail-Type Axle Assembly (RCF2784 Only)

Figure 1-14

Pull-Type Tractor Hook-up (RCF2784)

Refer to Figure 1-15 & Figure 1-16:

IMPORTANT: Equipment damage can occur if distance from end of tractor power take-off shaft to center of drawbar hitch pin hole is not 14".

Adjust drawbar length so that center of drawbar hitch pin hole and end of tractor power take-off shaft is 14".

DANGER

To avoid serious injury or death:

A crushing hazard exists while hooking-up and unhooking 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.

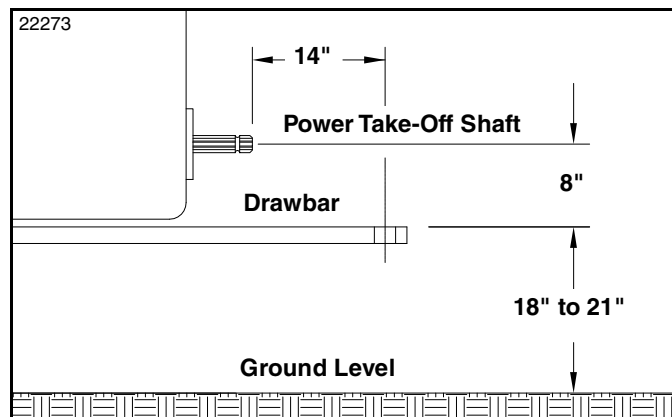
WARNING

To avoid serious injury or death:

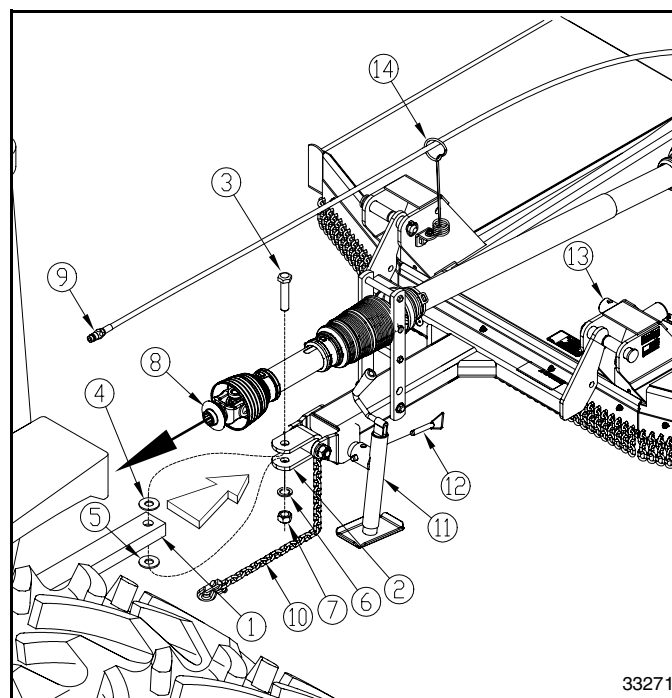
Jack must be installed on the hitch and jack attachment pin must be fully inserted and secured before working on or around an implement not hooked to the tractor drawbar.

Refer to Figure 1-16:

1. Make certain jack stand (#11) is properly attached to cutter hitch and properly secured with jack pin (#12).
2. Back drawbar (#1) close to clevis hitch (#2).
3. Drawbar should fit between upper and lower clevis hitch plates. Raise or lower jack stand (#11) to align clevis hitch (#2) with tractor drawbar (#1).
4. Back tractor up to cutter hitch until holes in drawbar and clevis hitch are properly aligned.
5. Attach cutter to tractor drawbar with 1"-8 x 4 1/2" GR5 cap screw (#3), two flat washers (#4 & #5) as shown, lock washer (#6), and hex nut (#7). Tighten hex nut until lock washer is squeezed flat.
6. Lower jack stand (#11) until hitch weight is supported by drawbar. Protect jack stand from damage by removing it from the hitch and storing it on jack support stob (#13).
7. Attach hitch safety chain (#10) to the tractor frame. Adjust chain length to remove all slack except what is necessary to permit turning. Lock chain hook securely to the safety chain.
8. Pull back on driveline pull collar (#8) and push driveline onto tractor power take-off shaft. Release pull collar and continue to push driveline yoke onto tractor power take-off shaft until pull collar locks into place. Pull on driveline yoke to make certain yoke has locked in place.



Power Take-Off to Drawbar Distance
Figure 1-15



RCF2784 Pull-Type Tractor Hook-up
(Standard Clevis Hitch Shown)
Figure 1-16

Section 1: Assembly & Set-up

Assembly of Optional Guards

DANGER

To avoid serious injury or death:

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.

Front Rubber Guard (RCF2784)

Refer to Figure 1-17:

1. Install Front Rubber Guards (#1 & #2) as shown with 3/8"-16 x 1" GR5 carriage bolts (#3), and hex whiz nuts (#4).
2. Tighten nuts to the correct torque.

Front Chain Guards

Land Pride offers a front chain guard for the RCF2784 & RCR2684. A double chain guard is also offered for the RCF2784. The chain guards are designed to handle heavy applications where cutter blades make contact with solid dense objects.

Refer to Figure 1-18:

1. Install front chain guards (#1 & #2) as shown with 3/8"-16 x 1" GR5 carriage bolts (#3), and hex whiz nuts (#4).
2. Tighten nuts to the correct torque.

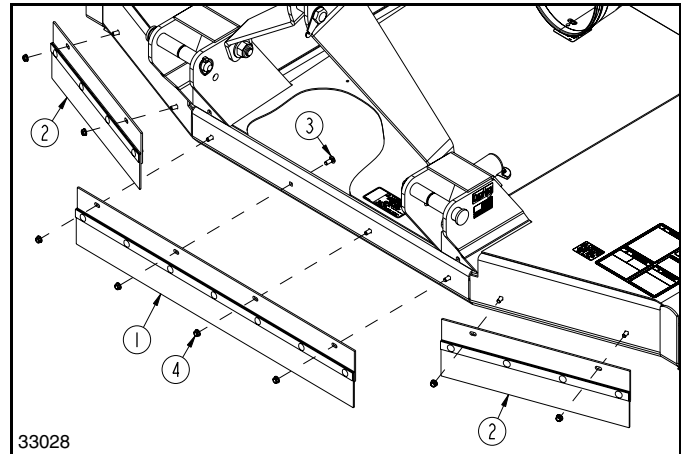
Rear Chain Guards

Land Pride offers a rear chain guard for the RCF2784 & RCR2684. A double chain guard is also offered for the RCF2784. The chain guards are designed to handle heavy applications where cutter blades make contact with solid dense objects.

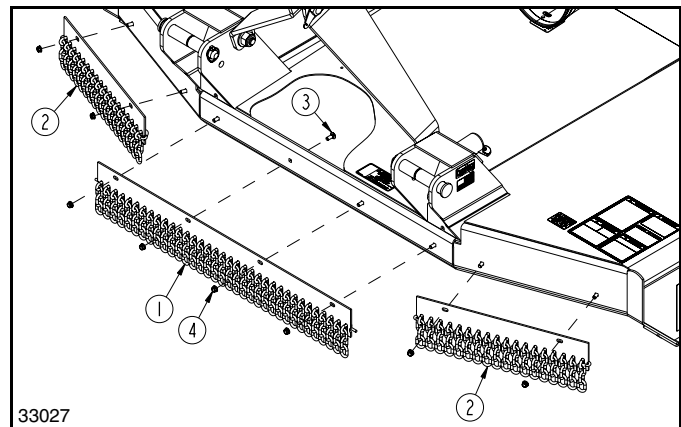
Refer to Figure 1-19:

IMPORTANT: The RCF2784 & RCR2684 come standard with a rear metal band guard which must be removed before installing an optional rear chain guard.

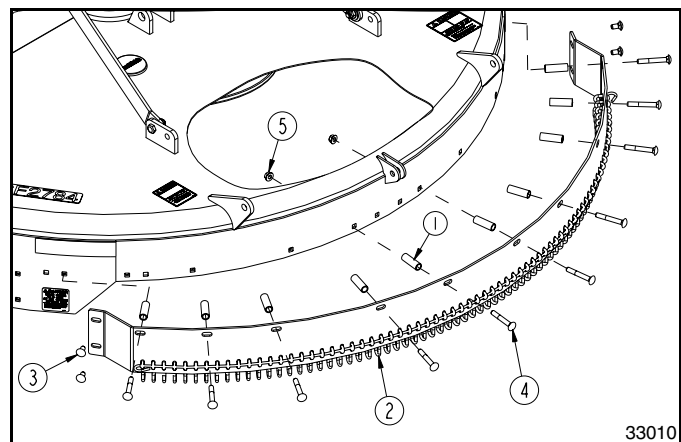
1. Remove the standard rear metal band guard and hardware.
2. Install rear chain guard (#2) with four 1/2"-13 x 1" GR5 carriage bolts (#3), and hex whiz nuts (#5). Draw whiz nuts up snug, do not tighten at this time.
3. Install 1/2"-13 x 3 1/2" GR5 carriage bolts (#4), deflector spacers (#1), and hex whiz nuts (#5). Draw whiz nuts up snug.
4. Tighten all whiz nuts (#5) to the correct torque.



Front Rubber Guard Option
(RCF2784 Only)
Figure 1-17



Front Single Chain Guard Option
RCF2784 Shown
Figure 1-18



Rear Single Chain Guard Option
RCF2784 Shown
Figure 1-19

Section 1: Assembly & Set-up

Pull-Type Hydraulic Hook-up



WARNING

To avoid serious injury or death:

Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of injury must treat the injury within a few hours or gangrene may result. DO NOT DELAY.

Refer to (Standard Clevis Hitch Shown) on page 23:

1. Make sure spring support loop (#14) is securely fastened to the hitch frame and fastener hardware is properly tightened.
2. Route cylinder hose (#9) through spring support loop (#14) and connect to tractor remote outlet. Do set tractor control lever in float position.
3. Check driveline for adequate clearance under all ranges of cutter height.
 - a. With driveline shaft attached to the tractor, slowly raise and lower cutter to its upper and lower limits. Observe clearances between hitch and driveline.
 - b. Adjust tractor drawbar height and/or length if driveline interferes. See Figure 1-15 on page 23 for correct drawbar dimensions.
4. Cycle hydraulic system by extending and retracting lift cylinder several times. It may be necessary to purge the hydraulic system of trapped air if operation is sluggish. See **"Purge Hydraulic System"** below.

Purge Hydraulic System



DANGER

To avoid serious injury or death:

Be sure deck is lowered to the ground and all hydraulic pressure is relieved before disconnecting or reconnecting hydraulic line and/or fittings between Rotary Cutter and tractor hydraulic system.

1. With deck skid shoes resting firmly on the ground, shut tractor off, and move hydraulic control lever back and forth to relieve all hydraulic pressure in the hydraulic system.
2. Loosen hydraulic hose fitting at the hydraulic cylinder slightly to allow air and fluid to escape.
3. Restart tractor and slowly activate tractor control lever to extend and retract hydraulic cylinder to purge trapped air from the hydraulic system.
4. Lower cutter down until deck skid shoes are resting firmly on the ground, shut tractor off, and move hydraulic control lever back and forth to relieve all hydraulic pressure in the hydraulic system.
5. After all air is purged from the hydraulic system and all hydraulic pressure is relieved, tighten hose fitting at the hydraulic cylinder.

3-Point Leveling & Cutting Height

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

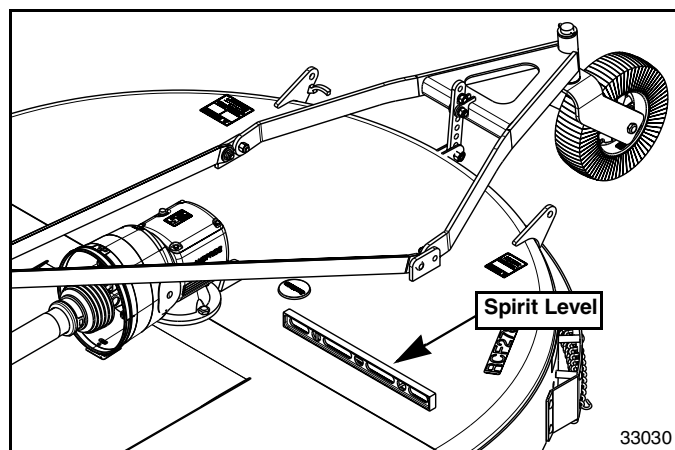
1. Deck Leveling
2. Cutting Height Adjustment
3. Single & Dual Tailwheel Adjustment
4. Center 3-Point Link Adjustment

Proper adjustment of each of these items will provide for higher efficiency, improved cutting performance, and longer blade life. Pliable tape measure, spirit or carpenter's level, set of wrenches, and protective gloves will be needed.

WARNING

To avoid serious injury or death:

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



Deck Leveling (RCF2784 Shown)
Figure 2-1

Deck Leveling

Refer to Figure 2-1:

1. Park tractor with Rotary Cutter on a flat, level surface.
2. Use tractor's 3-Point control lever to lower cutter until tailwheel(s) 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 vertically until deck is level from left to right. On some tractors, only one arm can be adjusted.

Cutting Height Adjustment

Refer to Figure 2-2:

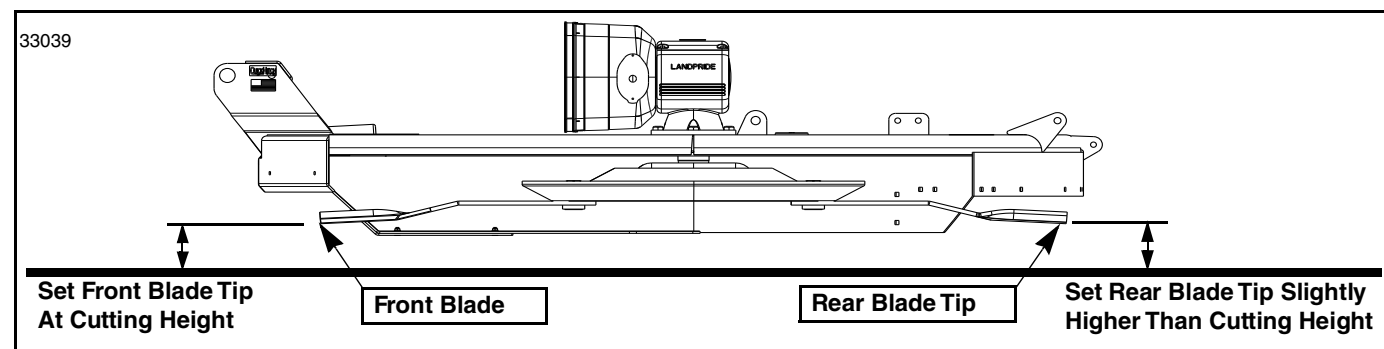
WARNING

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 lower than rear blade tip by approximately 1". The cutter is subject to continuous material flow under the deck if the rear blade is at the same height or lower than the front blade causing horsepower loss, grass clumps, blade wear, and frequent blade sharpening.

1. With gloves on, carefully rotate blades and stump jumper until blade tips are in the position shown.
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 3-Point lift arms until the front blade tip is at the desired cutting height.
4. The 3-Point center link should be loose when deck rear is supported by the tailwheel. If not, lengthen 3-Point 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" higher.
6. If rear blade is lower than front blade or more than 1" higher than the front blade, then tailwheel height must be adjusted. If needed, see "**Single & Dual Tailwheel Adjustment**" instructions on page 27.
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.



3-Point Deck Leveling & Cutting Height
Figure 2-2

Section 2: Adjustments

Single & Dual Tailwheel Adjustment

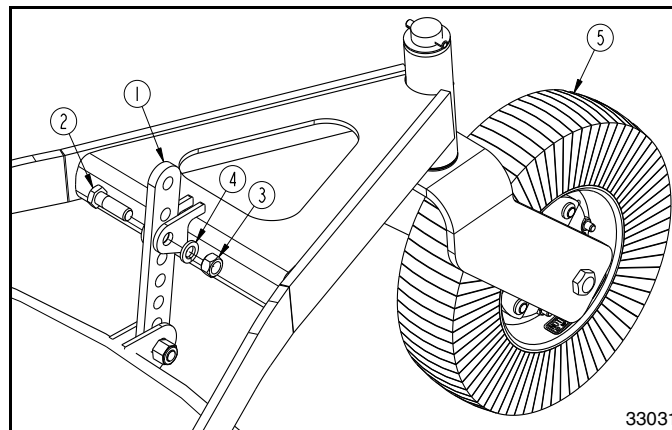
Refer to Figure 2-3 & Figure 2-4:

Instructions for adjusting 3-Point tailwheel height is the same for single and dual tailwheels. If the front blade tip is set at the desired cutting height and the back blade tip is lower, at the same height, or higher than the front blade tip by more than 1" then the tailwheel(s) must be adjusted up or down as follows:

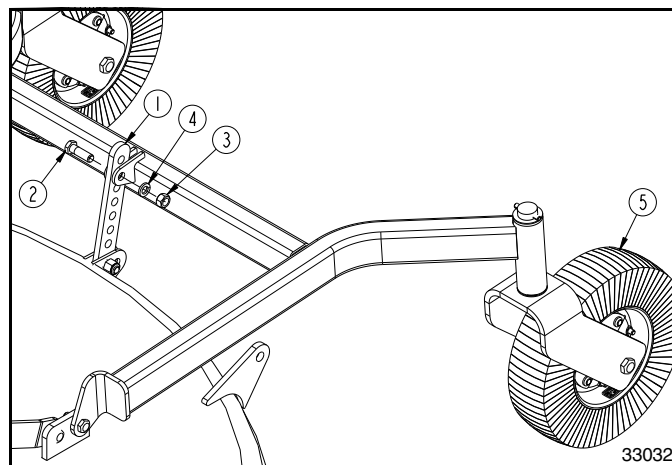
1. Use tractor's 3-Point hydraulic control to lift cutter until tailwheel(s) (#5) is off the ground.
2. Remove hex nut (#3), lock washer (#4), and cap screw (#2).
3. Adjust tailwheel as follows:
 - To lower rear blade, lift tailwheel(s) (#5) up.
 - To raise rear blade, lower tailwheel(s) (#5) down.
4. Reattach adjustment bar (#1) with existing 5/8" cap screw (#2), lock washer (#4), and hex nut (#3). Tighten nut to the correct torque.
5. Readjust tractor's lower 3-Point lift arms as needed. See "**Cutting Height Adjustment**" instructions on page 26.

NOTE: The following adjustments may be made if desired cutting height is located between two holes in tailwheel adjustment bar (#1).

1. Unbolt adjustment bar (#1) from tailwheel pivot frame and deck mounting lugs.
2. Turn adjustment bar upside down and reattach it to the deck mounting lugs and tailwheel pivot frame using existing hardware.
3. Repeat steps 1-5 above.



Tailwheel Height Adjustment
Figure 2-3



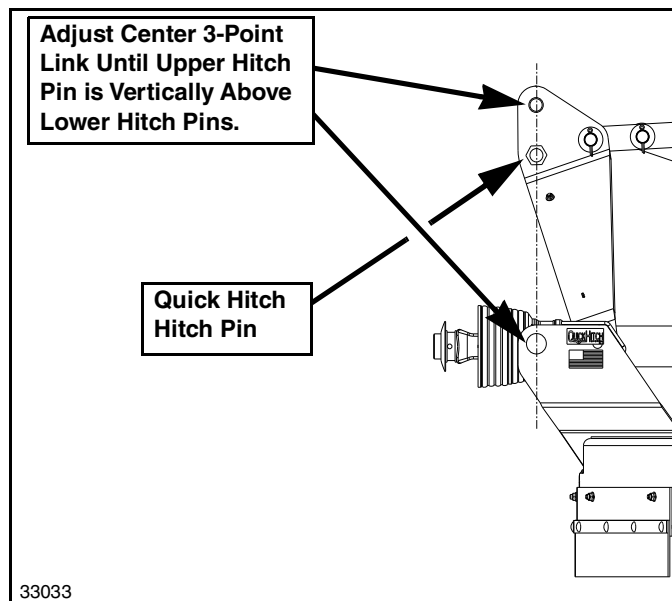
Tailwheel Height Adjustment
Figure 2-4

Center 3-Point Link Adjustment

Refer to Figure 2-5:

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

1. Lower cutter deck to a preset cutting height.
2. Adjust length of center 3-Point link until upper center hitch pin is vertically above lower 3-Point hitch pins. This arrangement allows for optimum ground contour following performance.
3. Lock center 3-Point link in this position.



Center 3-Point Link Adjustment
Figure 2-5



Pull-Type Leveling & Cutting Height (RCF2784)

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

1. Deck Leveling
2. Cutting Height Adjustment

Proper adjustment of each of these items will provide for higher efficiency, improved cutting performance, and longer blade life. Pliable tape measure, spirit or carpenter's level, set of wrenches, and protective gloves will be needed:

WARNING

To avoid serious injury or death:

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

Deck Leveling

This adjustment should be made with cutter hooked to the tractor that will be used for field operations or to one having the same drawbar height and length. Adjust leveling rods as described below.

NOTE: The tip of the front blade should be lower than the tip of the rear blade. If front and rear blades are at the same height or if rear blade is lower than the front blade, then the cutter is subject to continuous material flow under the deck resulting in loss of horsepower, additional blade wear, and frequent blade sharpening.

Front To Back Deck Leveling

Refer to Figure 2-6:

1. Attach cutter to the tractor that will be pulling the cutter and position tractor and cutter on level ground.
2. With gloves on, carefully rotate blades and stump jumper until blade tips are in the position shown.
3. Using tractor control lever, adjust deck height so that the front blade tip is 3 to 4 inches above ground.

Refer to Figure 2-7 on page 29:

NOTE: Lengthen leveling rods (#1 & #2) to lower front of cutter and shorten leveling rods (#1 & #2) to raise front of cutter.

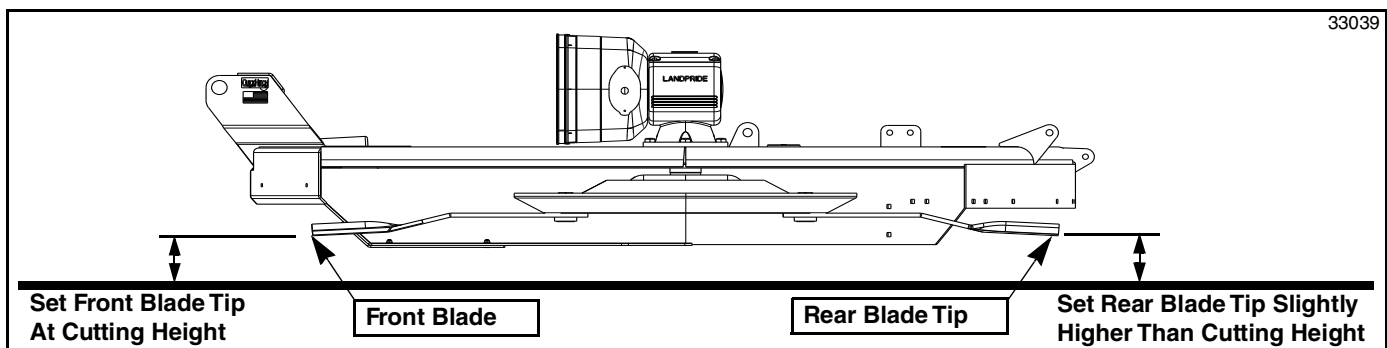
4. Measure distances the front blade and rear blade tips are off the ground. The deck is properly leveled when rear blade tip is slightly higher than front blade tip but not by more than 1".

If rear blade tip is too low:

- a. Loosen jam nut (#4) several turns.
- b. Unscrew hex coupler nut (#5) clockwise (direction shown by arrow) to raise cutter rear.
- c. Re-tighten jam nut (#4) against coupler nut (#5) when height of rear blade tip is acceptable.

If rear blade tip is too high:

- a. Loosen jam nut (#4) several turns or more.
- b. Tighten hex coupler nut (#5) counterclockwise (opposite direction shown by arrow) to lower cutter rear until height of rear blade tip is acceptable.
- c. Re-tighten jam nut (#4) against coupler nut (#5).



Pull-Type Deck Leveling & Cutting Height
Figure 2-6

Section 2: Adjustments

Cutting Height Adjustment

WARNING

To avoid serious injury or death:

- Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.
- Avoid direct contact with cutter blades by wearing a pair of gloves. Cutter blades have sharp edges and burrs that can cause injuries.

Hydraulic Cylinder Instructions (RCF2784 Only)

Refer to Figure 2-7:

At the front of the cutter, measure distance from cutting tip of blade to ground. This distance is the cutting height. Use tractor hydraulic cylinder control lever to change cutting height.

1. With tractor hydraulics, raise cutter fully up.
2. Remove all stroke control spacers (#6) from cylinder rod (#3) by spreading spacers apart at the break line.
3. Using tractor hydraulic cylinder control lever, lower Rotary Cutter to the desired cutting height. Measure this distance to verify cutting height is correct.
4. Select required size and number of stroke control spacers (#6) that will fill the exposed cylinder rod. The following spacers are available.
 - Two 1" spacers
 - One 1 1/4" spacer
 - One 1 1/2" spacer
 - One 1 3/4" spacer
5. Return to the tractor and raise Rotary Cutter up. Install selected size and number of stroke control spacers on the cylinder rod.
6. Lower Rotary Cutter against stroke control spacers and recheck cutting height. If needed, adjust size and quantity of stroke control spacers until desired cutting height is achieved.

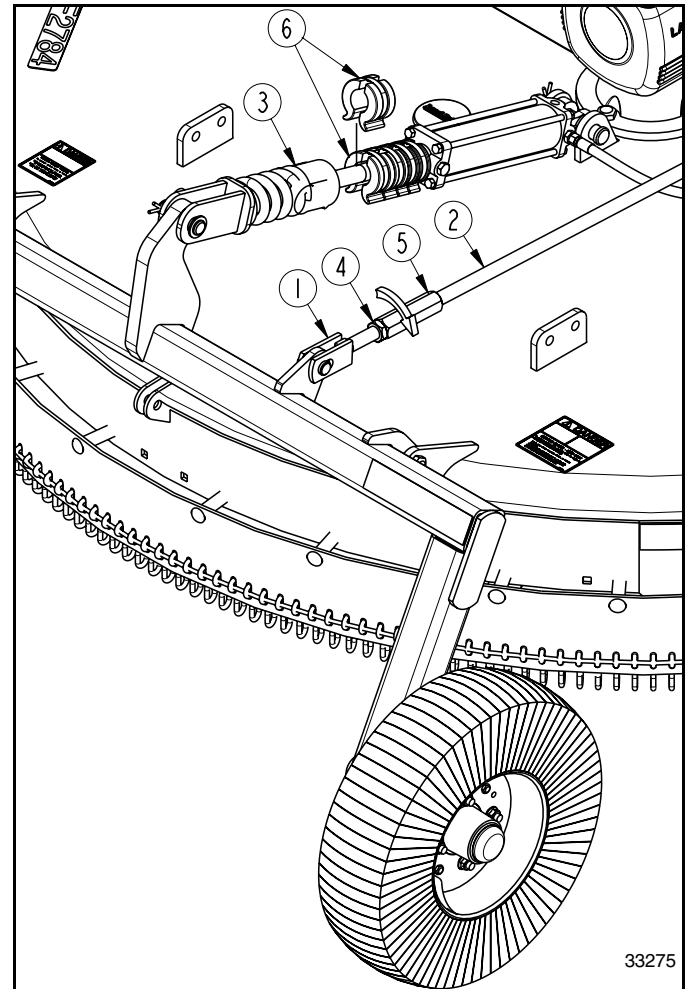
NOTE: Removing spacers lowers the cutting height and adding spacers raises the cutting height.

Ratchet Jack Instructions

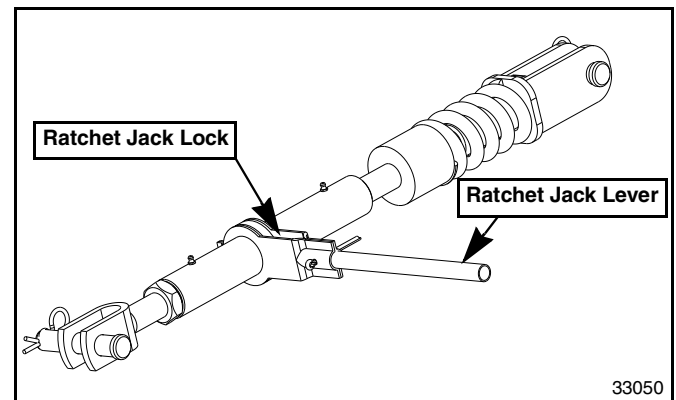
Refer to Figure 2-8:

At the front of the cutter, measure distance from tip of front cutting blade to ground. This distance is the cutting height. Use ratchet jack to change cutting height.

1. Raise cutter blades by setting ratchet jack lock and pumping the ratchet jack lever back and forth to lengthen ratchet jack until desired cutting height is achieved.
2. Lower cutter blades by reposition ratchet lock and pumping the ratchet jack lever back and forth to shorten the ratchet jack until desired cutting height is achieved.



Deck Leveling & Hydraulic Height Adjustments
Figure 2-7



Ratchet Jack Adjustment
Figure 2-8



Section 3: Operating Instructions

Operating Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, maintenance, and storage of the Rotary Cutter. Therefore, it is absolutely essential that no one operates the Rotary Cutter unless they are age 16 or older and 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 11
- **Section 2: Adjustments**, page 26
- **Section 3: Operating Instructions**, page 30
- **Section 5: Maintenance & Lubrication**, page 36

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 & driveline install instructions. Refer to "Section 1: Assembly & Set-up".	16
	Make all required adjustments. Refer to "Section 2: Adjustments".	26
	Perform all required maintenance. See "Section 5: Maintenance & Lubrication".	36
	Lubricate cutter and driveline as needed. Refer to "Lubrication Points".	41
	Check cutter initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	48
	Lubricate gearbox and replace oil plugs properly. Refer to "Gearbox" lubrication.	41

Safety Information

DANGER

To avoid serious injury or death:

- Never place hands or feet under the deck or attempt to make adjustments to the cutter with power take-off engaged. Cutter blades rotating at high speeds cannot be seen and are located close to the deck sides. Body extremities will be cut off instantly.
- Do not engage power take-off while hooking-up or unhooking 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.

- 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.
- 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 cutter as a fan. Cutting blades are not properly designed or guarded for this use.
- 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:

- Always disengage power take-off before lifting cutter fully up. Never operate cutter in the raised position. The cutter can discharge objects at high speeds.
- Do not operate and/or travel across inclines where tractor and/or implement can rollover. Consult your tractor's manual for acceptable inclines the tractor is capable of traveling across.
- Never carry riders on the implement or 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.
- 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 projectiles.
- Do not use implement as a man lift or work platform. It is not properly designed or guarded for this use.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not use implement as a man lift, work platform or as a wagon to carry objects. It is not properly designed or guarded for this use.
- Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.
- Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.
- 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.

Section 3: Operating Instructions

- Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds and can cause serious injury or death. 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 or equipment breakage may result.
- Some tractors are able to over speed their rated power take-off speed of 540 rpm or 1000 rpm. Only operate at the cutter's designed speed of 540 rpm or 1000 rpm. Excessive speed can damage drive components, cutter blades, and/or increase the risk of thrown object hazard.

Inspection of Tractor & Cutter

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

1. Park tractor and cutter on a level surface.
2. Disengage power take-off, place gear selector in park, set park brake, shut tractor off, and remove switch key. Make sure cutter blades have come to a complete stop before dismounting from tractor.
3. Inspect tractor safety equipment to make sure it is installed and in good working condition.
4. Inspect cutter safety equipment to make sure it is installed and in good working condition.
5. Check driveline to make certain it is securely connected to the tractor power take-off shaft and cutter gearbox shaft. Also, make certain that the guards are in good working condition and in place.
6. With cutter resting on solid supports, power take-off disengaged, and blade rotation completely stopped:
 - Check for and remove foreign objects wrapped around blade spindles.
 - Check for nicked, bent, broken, and worn cutting blades. Replace or sharpen blades as required. Refer to **"Cutter Blade Maintenance"** on page 38.
7. Remove solid supports from under the deck.
8. Carefully raise and lower implement to ensure that the drawbar, tires, and other equipment on the tractor do not contact cutter frame or driveline.
9. Verify cutter is set at the correct cutting height. For 3-Point cutters, see **"Cutting Height Adjustment"** on page 26 and for Pull-Type cutters, see **"Cutting Height Adjustment"** on page 29.

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 or equipment breakage may result.
- Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds and can cause serious injury or death. Always remove the implement from use until the damaged driveline can be repaired or replaced.

10. 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.
11. Once cutter is running smoothly, increase tractor power take-off speed to 540 rpm. Stop power take-off rotation immediately if vibration occurs.
12. Investigate cause of vibration and make repairs before putting cutter back into service.

Transporting



DANGER

To avoid serious injury or death:

Always disengage power take-off before lifting implement up, and never operate implement in the raised position. Objects can be thrown at high speeds toward people or animals



WARNING

To avoid serious injury or death:

When traveling on roadways, travel in such a way that other vehicles may pass you safely. Always use LED 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.

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. Transport only with a 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.



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 power take-off drivelines. Use tractor's power take-off soft start option if available.
2. Ensure that all power shafts are rotating and that the cutter is not vibrating excessively after ramping up to power take-off speed for at least 3 seconds. If excessive vibration continues after 3 seconds at full power take-off speed, disengage power take-off immediately, shut down tractor, and remove switch key.
3. Check blades for a lock-up situation. Block cutter deck up before working under the unit. Unlock blades, remove support blocks, and repeat "**Blade Engagement**" instructions.

Blade Disengagement

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

Field Operation



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.

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

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

Frequently inspect cutter for loose bolts and nuts. Tighten all loose hardware as indicated in the "**Torque Values Chart**" on page 48.

NOTE: 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.

1. Thoroughly inspect area to be cut for debris and unforeseen objects. Mark any potential hazards.
2. Follow "**Blade Engagement**" instructions above to start cutter blades turning.
3. Optimum ground speed depends on density of material being cut, horsepower rating of tractor, and terrain. Always operate tractor at cutter's full rated power take-off speed in a gear range that allows the cutter to make a smooth cut without lugging tractor down, usually between 2 to 5 mph.
4. Stop traveling and disengage power take-off after the first 50 feet of cutting. Check cutter levelness and cutting height to make certain it is adjusted properly.
5. Do not engage power take-off with 3-Point cutter fully raised.
6. Periodically disengage power take-off, shut down tractor, remove key, and check for foreign objects wrapped around the blade spindle. Block cutter deck up before removing objects.
7. Frequently inspect cutter for loose bolts and nuts. Tighten all loose bolts and nuts as indicated in the "**Torque Values Chart**" on page 48.
8. For additional information, see "**General Operating Instructions**" on page 33.

Unhook Rotary Cutter

Unhook Rotary Cutter from tractor as follows:

1. See "**Long-Term Storage**" on page 40 if cutter is to be stored for a long time.
2. Park on a level solid surface and lower deck to ground level or onto support blocks.
3. Engage tractor park brake, shut tractor engine off, and remove switch key. Stay on tractor until blades have come to a complete stop.
4. Unhook cutter from tractor as follows:

3-Point Cutter:

- a. Disconnect driveline from tractor. Collapse driveline by pushing tractor end of driveline towards cutter gearbox.
- b. Rotate driveline storage hook down and place driveline in storage hook.
- c. Unhook 3-Point hitch from tractor and drive tractor forward several feet.
- d. Reinstall hitch pins, linchpins, and hair pin cotters in cutter hitch for safe keeping.

Pull-Type Cutter:

- a. Attach park jack to hitch stob with detent hitch pin. Make certain detent hitch pin is fully inserted.



Section 3: Operating Instructions

- b. Adjust park jack up until cutter weight is off tractor drawbar.
- c. Disconnect hydraulic hose and loop hose back through spring hose loop for safe keeping.
- d. Disconnect driveline from tractor. Collapse driveline by pushing tractor end of driveline towards cutter gearbox.
- e. Rotate driveline storage hook down and place driveline in storage hook.
- f. Unhook hitch safety chain from tractor.
- g. Unhook clevis from tractor and drive tractor forward several feet.
- h. Reinstall bolt, washers, lock washer, and nut in clevis for safe keeping.

General Operating Instructions

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

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

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 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 cutter to cutting 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 cutting height to check for driveline bind or chatter. Lower the cutter to the ground, return engine to a low idle, and disengage power take-off. Position adjustable stops on the tractor's hydraulic lift lever or the Pull-Type hydraulic cylinder rod 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 to 5 mph 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 the tractor and cutter. Slow down in turns. Remember to look back often.

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

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

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

Whether you are done mowing, need to take a break, or just need to make a few adjustments to the cutter, remember to always do the following:

- Reduce tractor's engine rpm and disengage power take-off.
- Stop on level ground, set park brake, turn off engine and remove switch key.
- Stay on the tractor until the cutter blades have come to a complete dead stop.

Section 4: Options

Front and Rear Safety Guard Options

DANGER

To avoid serious injury or death:

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.

WARNING

To avoid serious injury or death:

Keep all safety guards in place. Rotary Cutters have the ability to discharge objects at high speeds. Use extreme caution when cutting in areas where people may be present. It is best to operate the cutter when no one is nearby. Stop blade rotation if someone is in or around the area.

Land Pride offers three front guard options for the RCF2784 and one option for the RCR2684. They are the rubber guards, double chain guards and the single chain guards. The rubber guard is more economical and designed for light duty applications. The chain guard is designed to handle heavier applications.

Front Rubber Guard

Refer to Figure 4-1:

Part Number & Description

312-866A Front Rubber Guard Assembly
(RCF2784 only)

See “**Front Rubber Guard (RCF2784)**” on page 24 for proper installation.

Front Chain Guards

Refer to Figure 4-2:

Part Number & Description

312-869A Front Single Chain Guard Assembly

312-906A Front Double Chain Guard Assembly
(RCF2784 only)

See “**Front Chain Guards**” on page 24 for proper installation.

Land Pride offers two rear chain guard options for the RCF2784 and one option for the RCR2684. They are designed to handle heavy applications where cutter blades make contact with solid dense objects.

Rear Chain Guards

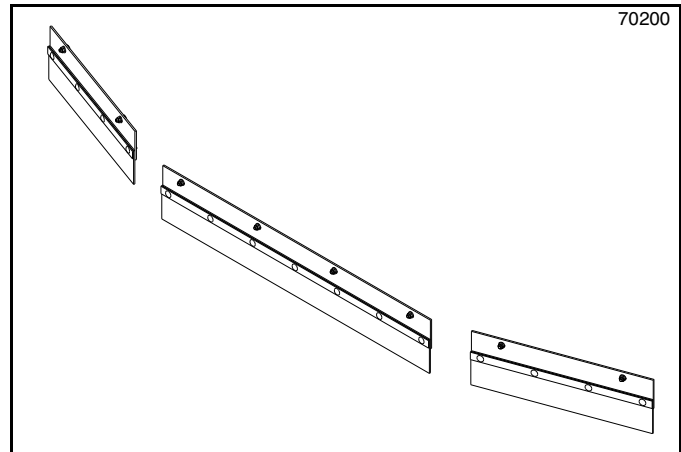
Refer to Figure 4-3:

Part Number & Description

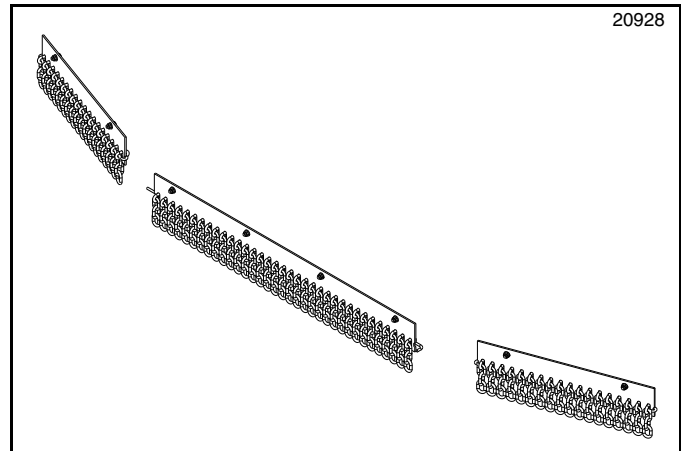
326-931A Rear Single Chain Guard Assembly

326-932A Rear Double Chain Guard Assembly
(RCF2784 only)

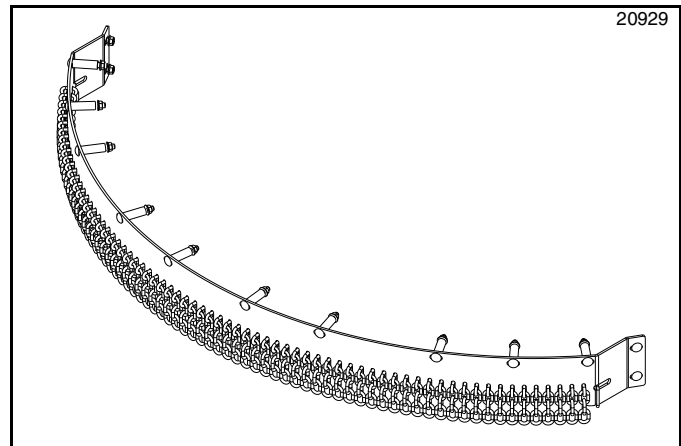
See “**Rear Chain Guards**” on page 24 for proper installation.



Front Rubber Guards (RCF2784 Only)
Figure 4-1



Front Chain Guards (Single Chain Shown)
Figure 4-2



Rear Chain Guards (Single Chain Shown)
Figure 4-3

Section 4: Options

Hitch/Wheel Options

Land Pride offers three hitch and wheel options for the RCF2784 and two options for the RCR2684.

The single leveling, 15" laminated tire is an economical solution to mowing when terrain is fairly level. The dual leveling, 15" laminated tires is a tougher arrangement designed to distribute cutter weight over a wider area when mowing rough terrain.

3-Point Hitches

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

Part Number & Description

326-328A 3-Point with Single Tail Wheel

326-327A 3-Point with Dual Tail Wheels

See “**3-Point Hitch Set-up**” on page 12 for proper hitch installation.

See “**3-Point Single Tailwheel Option**” on page 14 for proper single tailwheel installation.

See “**3-Point Dual Tailwheel Option**” on page 15 for proper dual tailwheel installation.

Pull-Type Hitch (RCF2784)

Refer to Figure 4-6:

Part Number & Description

326-333A Pull-type hitch with Dual Tail Wheels (RCF2784 only)

See “**Pull-Type Hitch Set-up (RCF2784)**” on page 20 for proper hitch installation.

See “**Axle Assembly**” on page 21 for proper axle installation.

Pull-Type Height Adjustment Options

Ratchet Height Adjustment

Refer to Figure 4-7:

Part Number & Description

326-354A Ratchet height adjustment

See “**Axle Assembly**” on page 21 for proper height adjustment option installation.

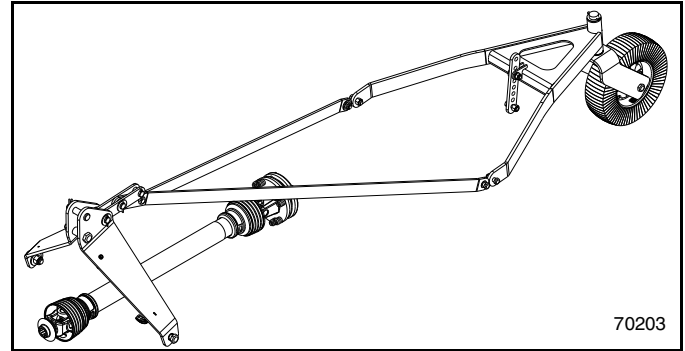
Hydraulic Height Adjustment

Refer to Figure 4-7:

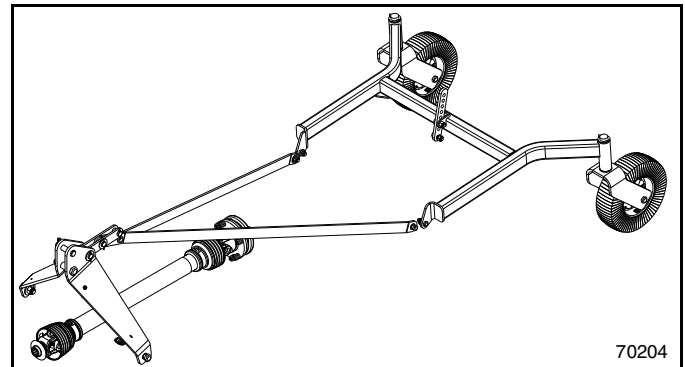
Part Number & Description

326-366A Hydraulic height adjustment

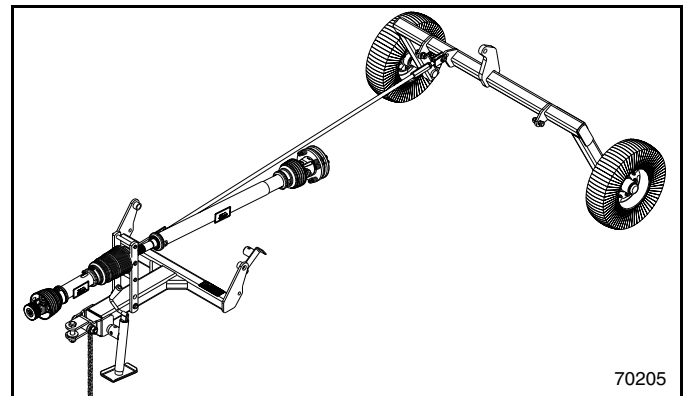
See “**Axle Assembly**” on page 21 for proper height adjustment option installation.



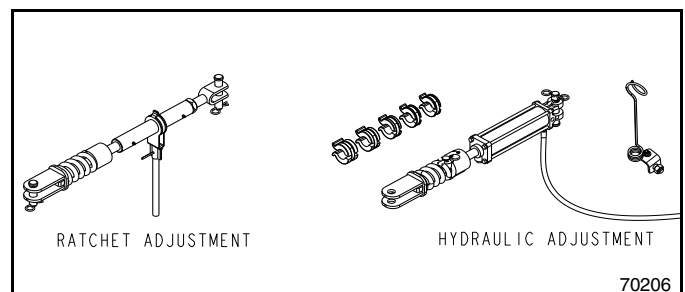
3-Point With Single Tailwheel
Figure 4-4



3-Point With Dual Tailwheels
Figure 4-5



Pull-Type With Dual Tailwheels
(RCF2784 Only)
Figure 4-6



Height Adjustment Options
Figure 4-7

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 hydraulics is off.

WARNING

To avoid serious injury or death:

- Do not operate cutter with blades that are out-of-balance, bent, excessively worn, excessively nicked, or with blade bolts that are excessively worn. Such blades can break loose at high speeds.
- 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.
- 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.
- Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.

Driveline Protection

Before each use, check that the driveline is securely fastened and that all driveline shields are in place, undamaged and in working order. Replace driveline and shields as needed. Order only genuine Land Pride parts from your local Land Pride dealer.

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.

WARNING

To prevent serious injury or death:

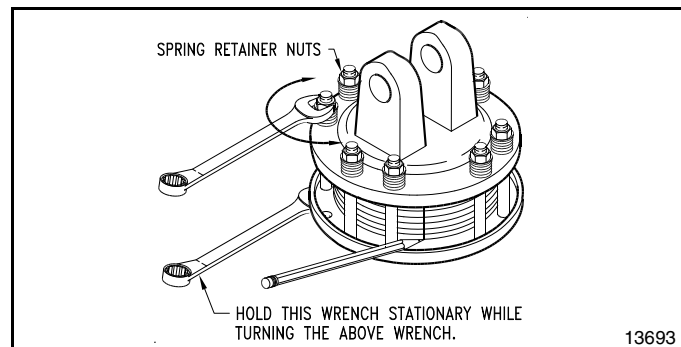
Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds and can cause serious injury or death. Always remove the implement from use until the damaged driveline can be repaired or replaced.

Driveline Slip-Clutch

The drive train is protected from shock loads with a two or four plate slip-clutch. The slip-clutch must be capable of slippage during operation. Always do a “Clutch Run-in” operation at the beginning of each season and after long periods of inactivity to remove any oxidation that may have accumulated on the friction surfaces. Repeat “Clutch Run-in” instructions at the beginning of each season and when moisture and/or condensation seizes the inner friction plates.

- 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.

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



Clutch
Figure 5-1

Clutch Run-In

Refer to Refer to Figure 5-1:

1. Using a pencil or other marker, scribe a line across the exposed edges of the clutch plates and friction discs.

- 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.
- 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.
- 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 “Clutch Assembly & Disassembly” on page 37.
- Tighten each of the 8 spring retainer nuts on the clutch housing exactly 2 revolutions to restore the clutch to the original setting pressure.
- 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 5-3 on page 37 to adjust spring length.

Clutch Assembly & Disassembly

Disassembly

Refer to Figure 5-2:

IMPORTANT: Refer to Figure 5-3. Be Sure to measure and record length (“A”) of each clutch 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 adjacent metal surface. Refer to the Parts Manual for a detailed parts breakdown.

Inspection

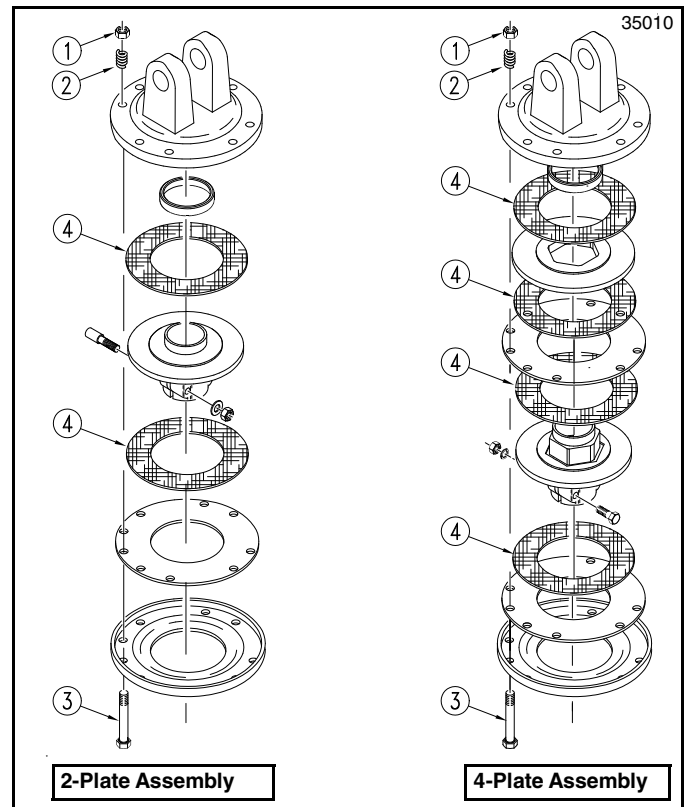
Inspect all parts for excessive wear and condition. Clean all parts that do not require replacement. The original friction disc thickness is 1/8" (3.2mm) and should be replaced if thickness falls below 3/64" (1.1mm). If clutches have been slipped to the point of “smoking”, the friction discs may be damaged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

Assembly

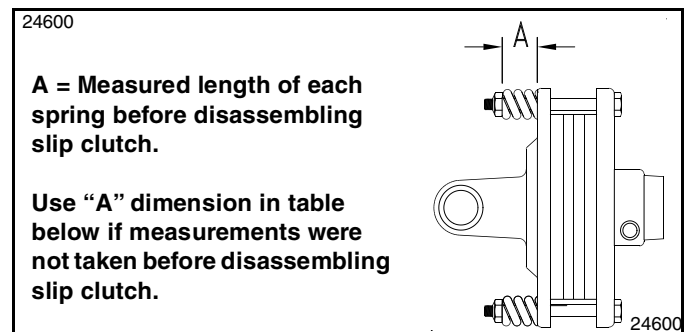
Refer to Figure 5-3:

Reassemble each friction disc (#4) next to the metal plate it was separated from. Install bolts (#3) through 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.



Slip Clutch Disassembly/Assembly
Figure 5-2



Model No.	Driveline No.	PTO Speed	Cat No.	A (inches) Spring Height
RCF2784	826-152C	540	4	1.12" (28 mm)
	826-673C	540	4	1.32" (33 mm)
RCR2684	826-673C	540	4	1.32" (33 mm)
	826-878C	540	4	1.27" (32 mm)

Clutch Adjustment
Figure 5-3



Cutter Blade Maintenance

DANGER

To avoid serious injury or death:

- Always disconnect the driveline from the power take-off shaft before servicing underside of cutter. The tractor can be started with the power take-off engaged.
- Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.

WARNING

To avoid serious injury or death:

- Do not operate cutter with blades that are out-of-balance, bent, excessively worn, excessively nicked, or with blade bolts that are excessively worn. Such blades can break loose at high speeds.
- 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.

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

Always inspect cutting blades before each use. Make certain they are properly installed and are in good working condition. Replace any blade that is damaged, worn, bent, or excessively nicked. Small nicks can be ground out.

Remove blades and sharpen or replace as follows:

1. Place tractor gear selector in park and set brakes, shut engine off and remove ignition key.
2. Disconnect main driveline from tractor power take-off and secure cutter deck in the up position with solid supports before servicing underside of cutter.
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 5-4 on page 39:

4. To remove blades from the cutter, remove access cover (#6).
5. Rotate blade bolt (#1) until aligned 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 5 & 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" 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. difference. Unbalanced blades will cause excessive vibration which can damage gearbox bearings and create structural cracks.
9. Carefully check cutting edges of blades in relation to blade carrier rotation to ensure correct blade placement. Blade rotation is counterclockwise with cutting edge leading. Airfoil (lift) must be oriented towards the top of the deck.

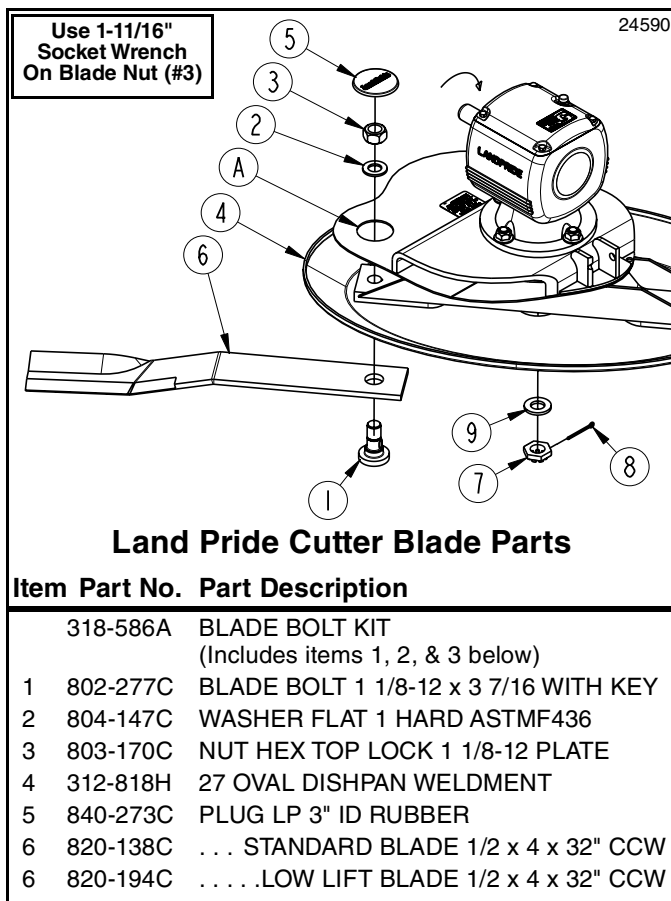
WARNING

To avoid serious injury or death:

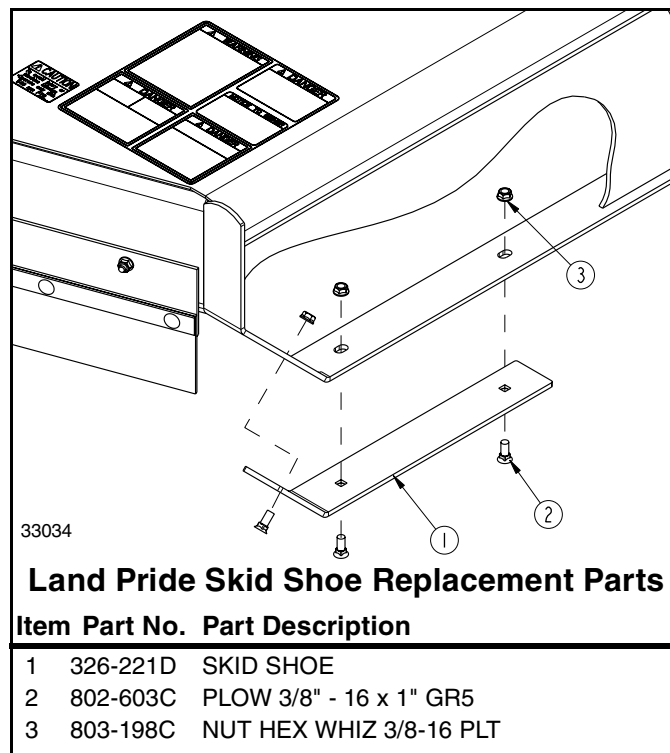
A locknut that has been removed can lose its thread locking properties. Reusing a used locknut can result in a thrown blade. Always use a new locknut when installing blades.

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

10. Insert blade bolt (#1) through blade (#6), dish pan (#4), and flat washer (#2). Secure blade with a **new locknut (#3)** and torque to 450 ft-lb.
11. Repeat step 10 for the other blade.
12. Replace access cover (#5).
13. If replacing dishpan (#4), nut (#7) on gearbox output shaft should be torqued to 450 ft-lbs. minimum and cotter pin (#8) installed with both legs bent opposite directions around the nut.



Cutter Blade Assembly
Figure 5-4



Skid Shoe Replacement
Figure 5-5

Skid Shoe Maintenance

Refer to Figure 5-5:

326-120A Skid Shoe Kit
(Includes 2 skid shoes & mounting hardware)



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.

There are skid shoes mounted on the cutter sides. Check both skid shoes for wear and replace if necessary. Order only genuine Land Pride parts from your local Land Pride dealer.

1. Remove 3/8" hex whiz nuts (#3), 3/8" plow bolts (#2), and skid shoe (#1) as shown.
2. Plow bolts should be checked for wear and replaced when worn.
3. Attach new skid shoe (#1) to cutter with existing 3/8" plow bolts (#2), and secure with 3/8" hex whiz nuts. Tighten to the correct torque.
4. Repeat on opposite side.



Long-Term Storage

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

DANGER

To avoid serious injury or death:

- Always disconnect the driveline from the power take-off shaft before servicing drivetrain and cutter blades. The power take-off can be engaged if the tractor is started.
- Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.

WARNING

To avoid serious injury or death:

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 bolts for wear and replace if necessary. See “**Cutter Blade Maintenance**” on page 38.
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 Land Pride dealer for 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.

Land Pride Touch-up Paint

Part No.	Part Description
821-011C	PAINT LP BEIGE SPRAY CAN
821-066C	PAINT ORANGE SPRAY CAN
821-070C	PAINT GP GLOSS BLACK SPRAY CAN

5. Replace all damaged or missing decals.
6. Lubricate as noted in “**Lubrication Points**” starting on page 41.
7. Store cutter on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer cutter life.
8. Follow all “**Unhook Rotary Cutter**” instructions on page 32 when disconnecting tractor from cutter.

Ordering Replacement Parts

Land Pride offers equipment in factory standard Beige with black highlights. This implement may also be purchased in Orange, Green, or Red.

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

82 Orange

85 Black

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

Lubrication Points

Lubrication Legend



Multi-purpose
spray lube



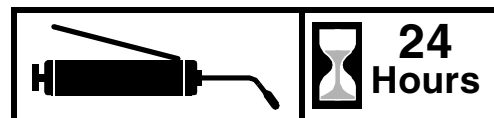
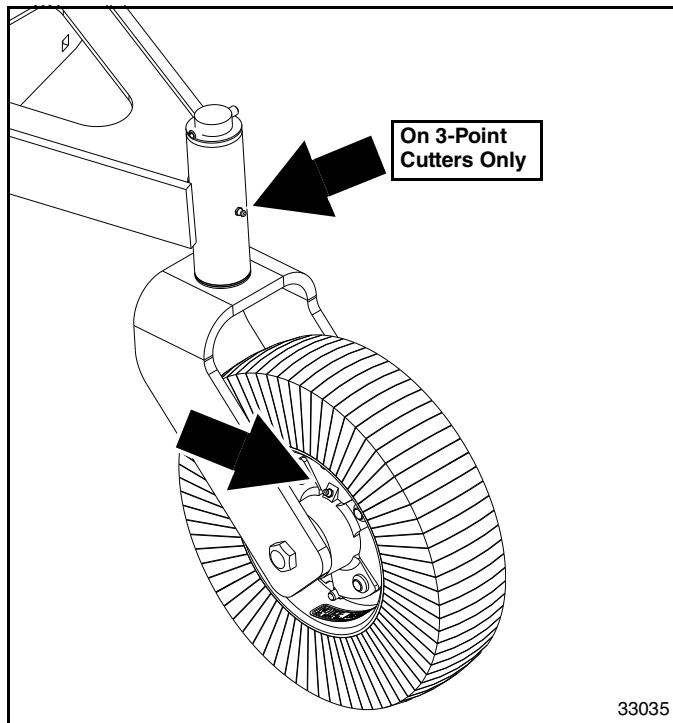
Multi-purpose
grease lube



Multi-purpose
oil lube



Intervals in hours at which
lubrication is required

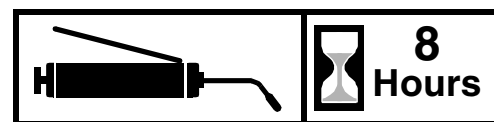


Gauge Wheel Spindle Tube (3-Point Cutters)

Type of Lubrication: Multi-purpose Grease

Quantity = 6 pumps

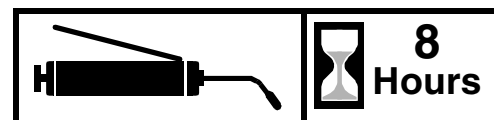
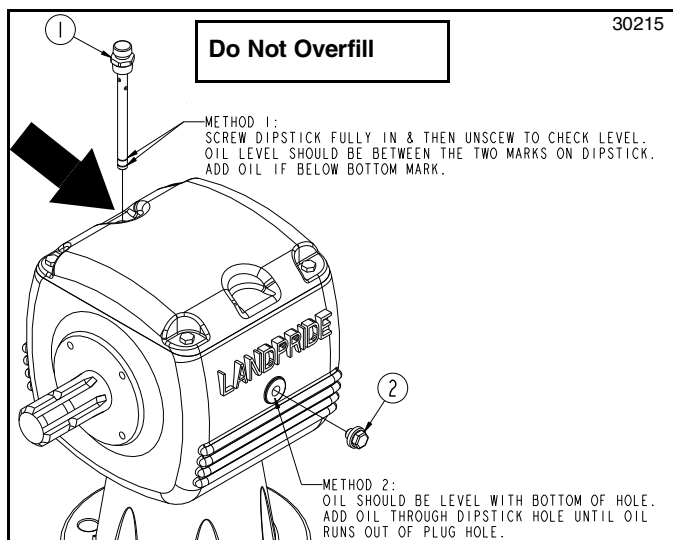
Gauge Wheel Hub



Type of Lubrication: Multi-purpose Grease

Quantity = 2 pumps

Gearbox



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

Method 1: Unscrew top vented dipstick (#1). Wipe oil from dipstick and screw dipstick in without tightening. Unscrew dipstick and check oil on dipstick. If below bottom level mark, add recommended gear lube through dipstick hole until oil reaches top mark on dipstick. Reinstall vented dipstick and tighten.

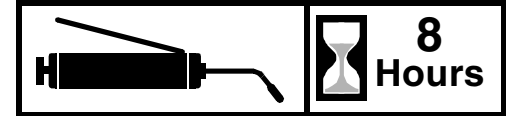
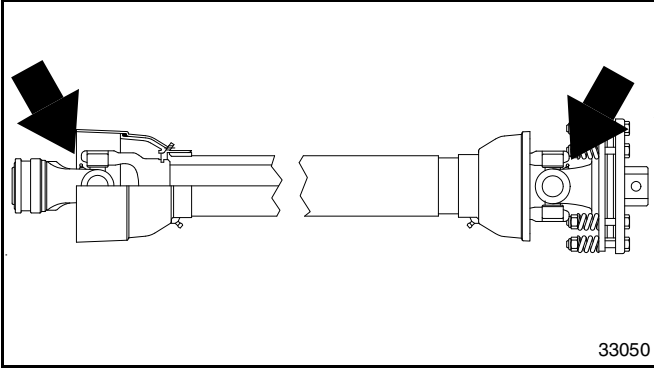
Method 2: Remove side oil plug (#2). If oil is below bottom of plug hole, add recommended gear lube through top dipstick hole until oil flows out of side plug hole. Reinstall and tighten side oil plug (#2) and vented dipstick (#1).

Type of Lubrication: 80-90W EP Gear Lube

Quantity = Fill until oil reaches top mark on dipstick or begins to flow out side plug hole in gearbox.

IMPORTANT: This implement is shipped with a vented dipstick packaged in the Operator's Manual bag and should have been installed in the gearbox by your dealer. Please consult your dealer if vented dipstick was not included.

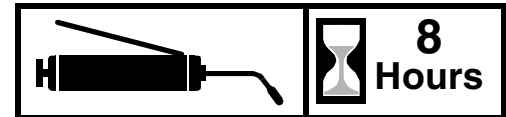
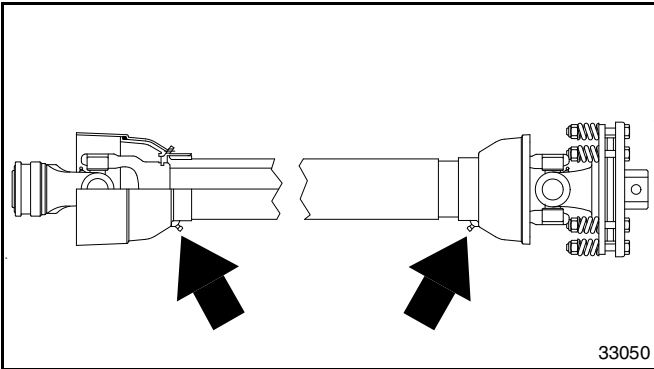
NOTE: Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.



Driveline U-Joints

Type of Lubrication: Multi-purpose Grease

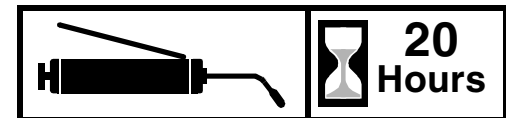
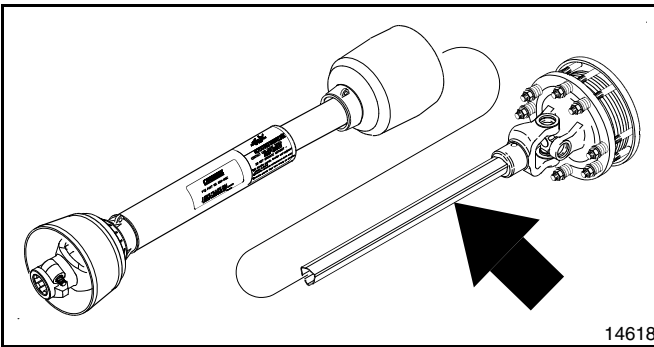
Quantity = 6 pumps



Driveline Shield Bearings

Type of Lubrication: Multi-purpose Grease

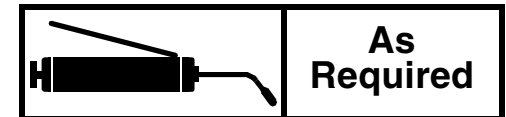
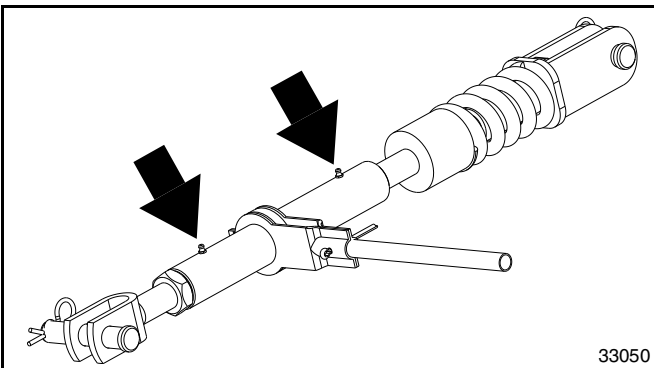
Quantity = 6 pumps



Driveline Profiles

Type of Lubrication: Multi-purpose Grease

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



Ratchet Jack (Optional) (RCR2784)

Type of Lubrication: Multi-purpose Grease

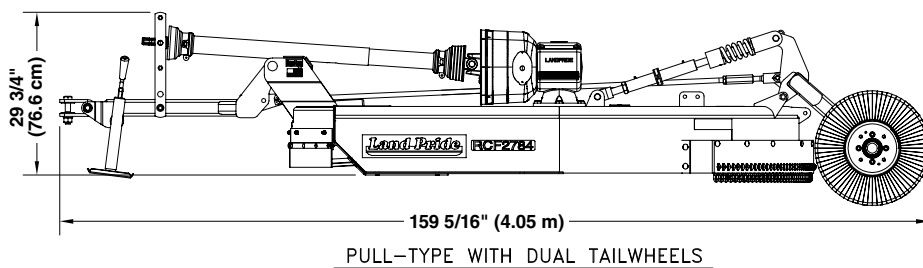
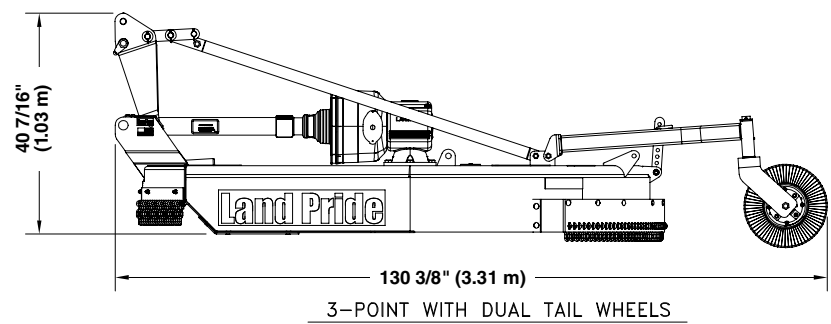
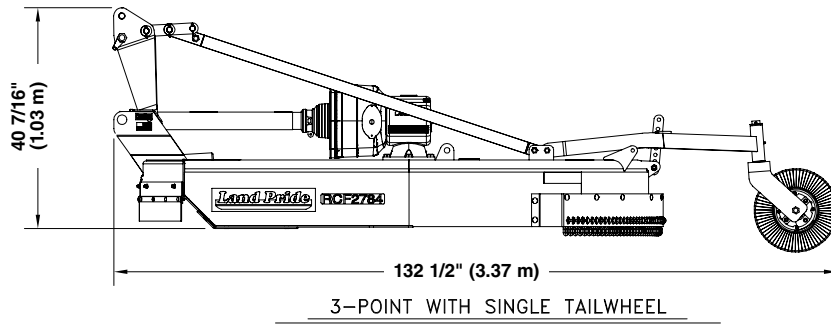
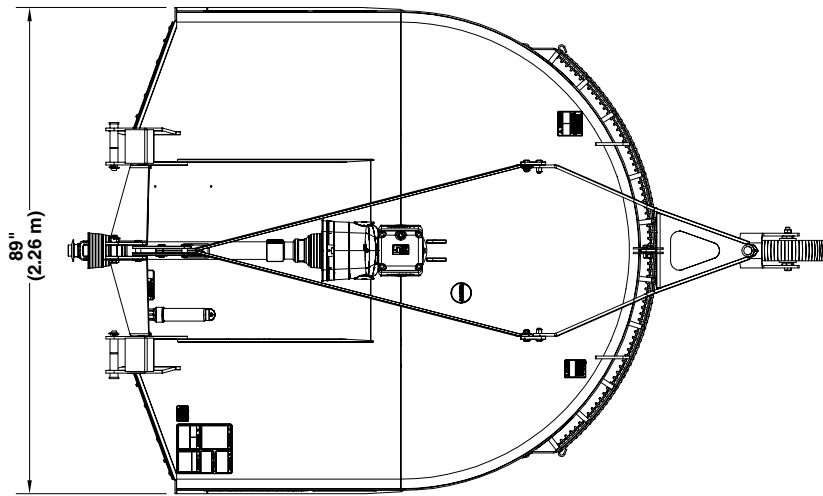
Quantity = Until grease purges from threads.



RCF2784 & RCR2684 Models

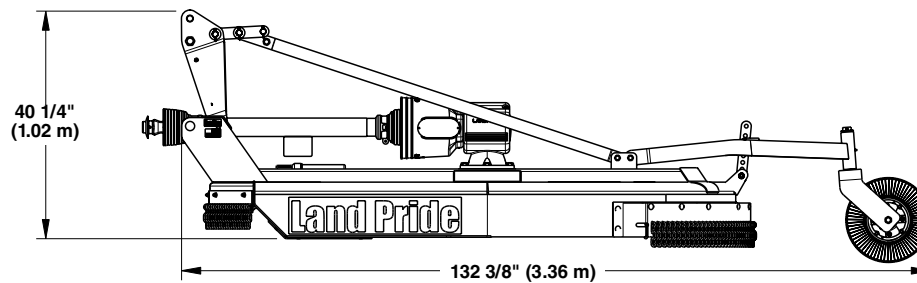
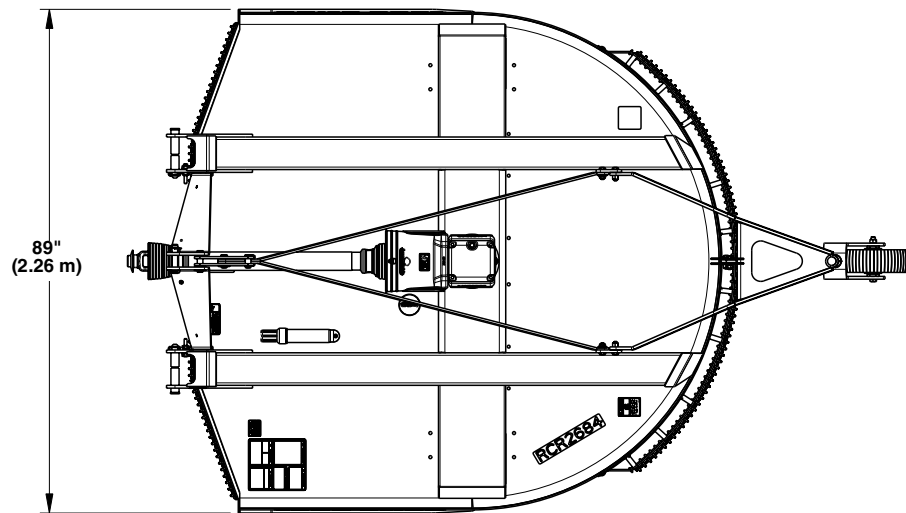
Specifications & Capacities			
		RCF2784	RCR2684
Machine weight 3-Point single tailwheel 3-Point dual tailwheel Pull-type dual tailwheel	lbs (kg)	1,354 (614) with front & rear chain guards 1,427 (647) with front & rear chain guards 1,632 (740) with front & rear chain guards and hydraulic adjustment	1,225 (556) with front & rear chain guards 1,298 (589) with front & rear chain guards N/A
3-Point hitch		Category II & III with floating top linkage, quick hitch adaptable	
Pull type tongue weight	lbs (kg)	687 (312)	N/A
Cutting width	in (m)	84 (2.13)	
Overall width	in (m)	89 (2.26)	
Overall length 3-Point single tailwheel 3-Point dual tailwheel Pull-type dual tailwheel	in (m)	132 1/2 (3.37) 130 3/8 (3.31) 159 1/4 (4.04)	132 1/2 (3.37) 130 3/8 (3.31) N/A
Deck height (bottom of deck to bottom of skid shoe)	in (cm)	10 1/8 (25.7)	9 7/8 (25.1)
Cutting height	in (cm)	1 1/2 (3.8) to 12 (30.5)	
Cutting capacity	in (cm)	3 (7.6) Diameter	
Recommended tractor horsepower	hp (kW)	60-130 (44.7-96.9)	
Power take-off speed		540 rpm	
Gearbox ratio		1:1.21	
Gearbox construction	in (cm)	Speed-up beveled gears, cast iron housing, 1 3/8 (3.5) - 6 spline input shaft and 2 (5.1) output shaft	
Gearbox oil capacity & type		6.5 Pints of EP 80-90W gear lube	
Deck construction		All welded deck	
Deck material thickness	ga (mm)	10 (3.4)	
Side skirt material thickness	in (mm)	1/4 (6)	
Skid shoes	in (mm)	1/4 (6) thick bolt-on replaceable skid shoes	
Stump jumper	in (cm)	3/16 (.5) x 24 (61) x 38 (96.5) Oval pan with 1 (2.5) thick blade holder bar	
Blades (2)	in (cm)	1/2 (1.3) x 4 (10.2) x 31 (78.7) Heat treated alloy steel free-swinging high lift	
Blade bolts		Keyed with harden flat washers & locknuts.	
Blade tip speed	fpm (mps)	14,369 (73)	
Driveline		ASAE Category 4	
Driveline protection		4 Plate slip clutch	
Tailwheel mount		Welded A-arm and caster fork with 360 degree swivel	
Tailwheel	in (cm)	4 (10.2) x 8 (20.3) x 15 (38.1) Laminated tire with cast iron hub	
Front guard		Rubber guard (optional) Single chain guard (optional) Double chain guard (optional)	Single chain guard (optional)
Rear guard		Metal band (standard) Single chain guard (optional) Double chain guard (optional)	Metal band (standard) Single chain guard (optional)

RCF2784

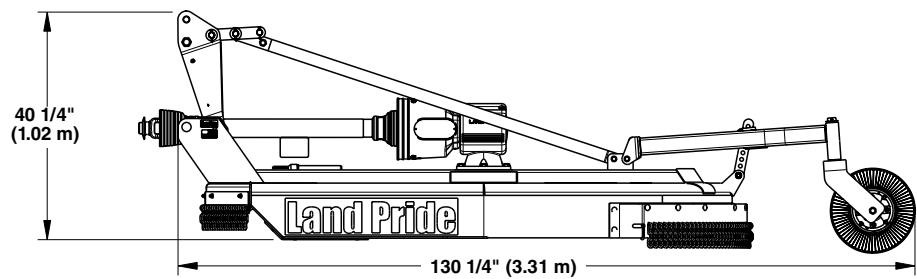


33037

RCR2684



3-POINT WITH SINGLE TAILWHEEL



3-POINT WITH DUAL TAILWHEELS



RCF2784 & RCR2684







Features	Benefits
Surpassed rugged industry standards	All Land Pride cutters have been designed and tested and meet rigorous voluntary testing procedures specified by ANSI.
5 Year gearbox warranty	A rugged heavy built gearbox capable of handling heavy cutting applications. Shows Land Pride's confidence in gearbox integrity.
Gearbox seal protection	Gearbox bottom seal protection for longer bearing life.
130 Horsepower gearbox	A rugged heavy built gearbox capable of handling heavy cutting applications.
Cat. 4 driveline with 4-plate slip-clutch	Excellent gearbox protection with the slip-clutch slipping when encountering obstruction in blade path. Standard slip-clutch offers convenience over shear-bolts.
Cat. II or III hitch with floating top link	Permits deck to follow the terrain for an even cut.
Quick Hitch Capability	Quick Hitch provides for fast hook-up.
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.
84" Cutting width	Wide cutting width, Reduces cutting time in the field.
Heavy 10 gauge deck & 1/4" side skirt construction	10 gauge deck can withstand more abuse than lighter gauge decks and 1/4" side skirts provide excellent reinforcement and also protect sides from debris being thrown against them from the blades.
Box tubing deck supports	Makes for a stronger rigid deck.
Fully welded deck	Robotic welded. Adds additional strength and deck integrity.
Extended cutter front	For increased material flow and added protection.
Round back design	Helps discharge grass better than enclosed or partially enclosed cutters. Also allows for more efficient handling.
Deck Height 10 1/8" (RCF2784) 9 7/8" (RCR2684)	Allows cutter to handle heavy cutting conditions.
1 1/2" to 12" Cutting height	Provides for a wide range of cutting conditions.
High cutting capacity	Can cut brushy areas with saplings up to 3".
Full length skids with replaceable shoes	Full length skids protect side plate structure, replaceable shoes for convenience.
1/2" x 4" Heat-treated free swinging blades	Free swinging protects from obstructions. Heat-treated offers longer life.
Splined blade bar	Allows for tight positive fit of stump jumper and blade bar to gearbox output shaft.
Oval stump jumper	Standard stump jumper aids in sliding over obstructions such as stumps, rocks and debris, which also helps protect gearbox output shaft.
High blade tip speed	Ensures clean cut. (14,369 fpm)
Available with single or dual tailwheel	Dual tailwheels offer greater stability in uneven terrain.
15" Laminated tailwheel	Laminated material is long lasting in rough conditions. Can't go flat.
1 1/2" Heavy-duty spindle on tailwheel(s)	Tailwheels take a beating, spindle gives the strength to protect tailwheel assembly.
Optional front guarding	Protect against flying debris. Customer can choose to include single chain, double chain or rubber guarding.
Optional rear guarding	Protect against flying debris. Customer can choose to include single chain or double chain.
Standard rear metal band	Protects against flying debris. Acts as a baffle o help mulch cuttings into smaller pieces.



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 rpms and then slowly increase engine speed to full power take-off speed. See Blade Engagement on page 32.
	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 32.
Blades wearing excessively	Cutting on sandy ground	Raise cutting height
	Contacting ground frequently	Raise cutting height
Blades breaking	Hitting solid objects	Avoid hitting solid objects
Blades coming loose	Blades not tightened properly	Tighten blade hardware (refer to "Cutter Blade Maintenance" on page 38)
	Improper deck attitude	Lower front of deck, see page 27
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	39	72	53
3/8" - 24	31	22	47	35	67	49	M10 X 0.75	39	29	61	45	85	62
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.													
Additional Torque Values													
Blade Bolt Lock Nut						450 ft-lbs							
Blade Carrier Hub Nut						450 ft-lbs Minimum							

Warranty

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

Overall Unit and Driveline: One year Parts and Labor

Gearbox: 5 years Parts and Labor

Blades, tires and slip clutch 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 purchase.

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

Model Number _____

Serial Number _____



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