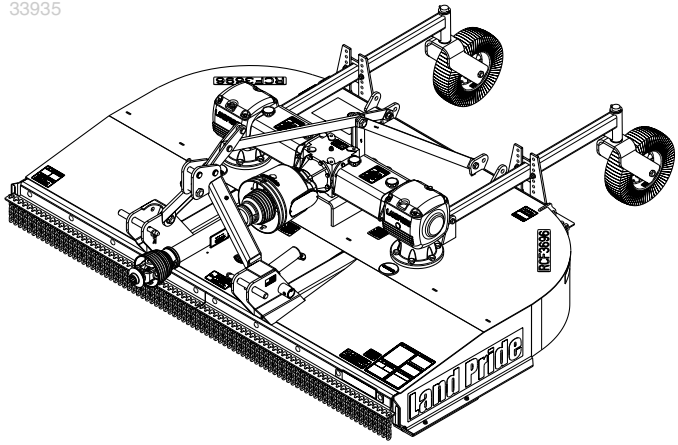
Rotary Cutters

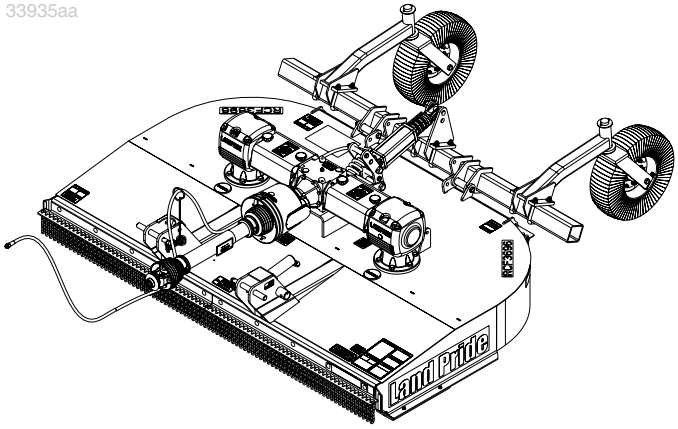
RCF3696, RCFM3696, RCF3610, & RCFM3610

33935



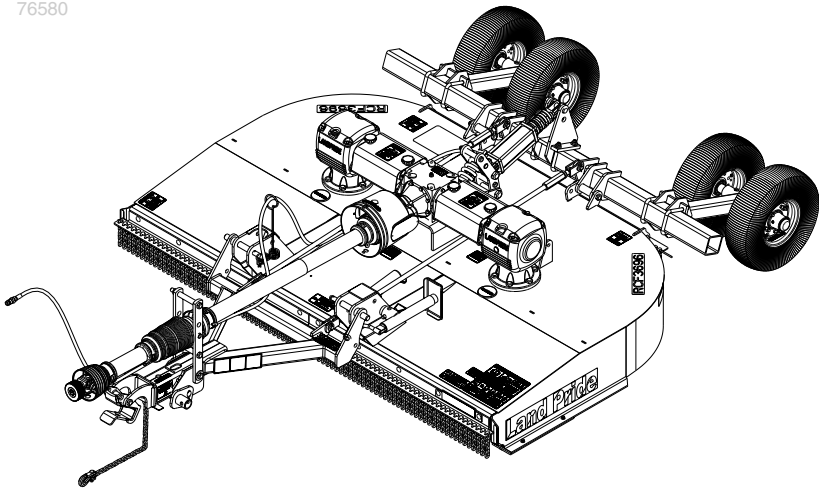
3-Point with Single Tailwheels on Beam Arms

33935aa



Semi-Mount with Single Tailwheels on Rear Axles

76580



Pull-Type with Dual Tailwheels on Rear Axles

326-600M
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.

Printed 8/20/21

Machine Identification

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

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

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

Dealer Contact Information

Name: _____

Street: _____

City/State: _____

Telephone: _____

Email: _____

California Proposition 65

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

Continue Table of Contents on next page

Manual QR Locator

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

RCF(M)3696

RCF(M)3610

Dealer QR Locator

The QR code below will link you to available dealers for Land Pride products.

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 a safe and secure area where children normally do not play. When needed, secure implement against falling with support blocks.

Look for the Safety Alert Symbol

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

Be Aware of Signal Words

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

⚠ DANGER: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

Be Aware of Special Notices

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

IMPORTANT: Indicates that equipment or property damage could result if instructions are not followed.

NOTE: Indicates supplementary explanations that will be helpful when using the equipment.

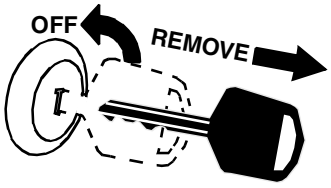
Safety Precautions for Children

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

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

Tractor Shutdown & Storage

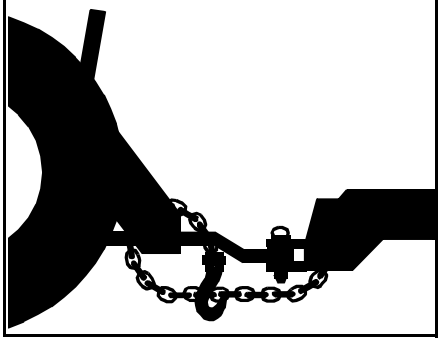
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic lines.
- ▲ Wait for all components to stop before leaving operator's seat.
- ▲ Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.



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

Use A Safety Chain

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

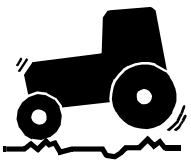


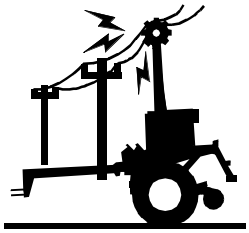
Transport Safely

- ▲ 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 unexpectedly. 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.

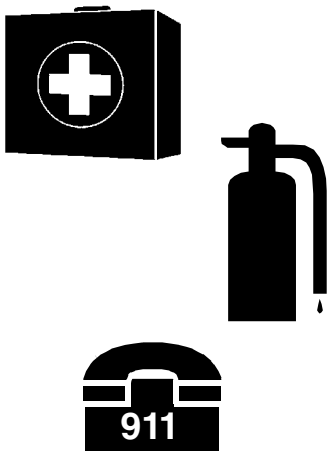
Practice Safe Maintenance

- ▲ 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 hydraulically supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- ▲ Use properly grounded electrical outlets and tools.
- ▲ Use correct tools and equipment for the job that are in good condition.
- ▲ Allow equipment to cool before working on it.
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement in a way which will adversely affect its performance.
- ▲ Do not grease or oil implement while it is in operation.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed.
- ▲ Remove all tools and unused parts from equipment before operation.
- ▲ Do not weld or torch on galvanized metal as it will release toxic fumes.

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

Prepare for Emergencies

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



Wear Personal Protective Equipment (PPE)

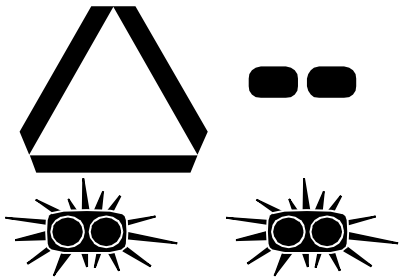
- ▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety, glasses, hard hat, dust mask, and ear plugs.
- ▲ Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- ▲ Prolonged exposure to loud noise can cause hearing impairment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

Avoid High Pressure Fluids

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

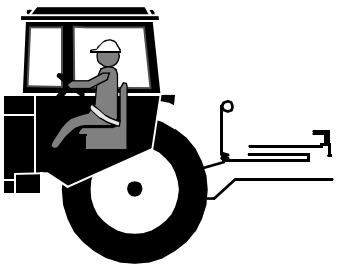
Use Safety Lights and Devices

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



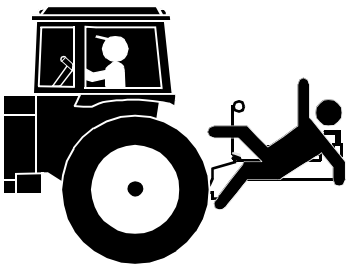
Use Seat Belt and ROPS

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

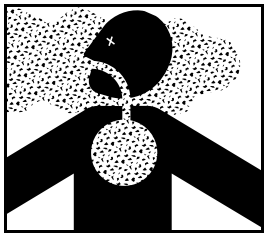


Listed below are common practices that may or may not be applicable to the products described in this manual.

Avoid crystalline Silica (quartz) Dust

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

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



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

Handle Chemicals Properly

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

Dig Safe - Avoid Underground Utilities

- ▲ **USA: Call 811**
  CAN: 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.*

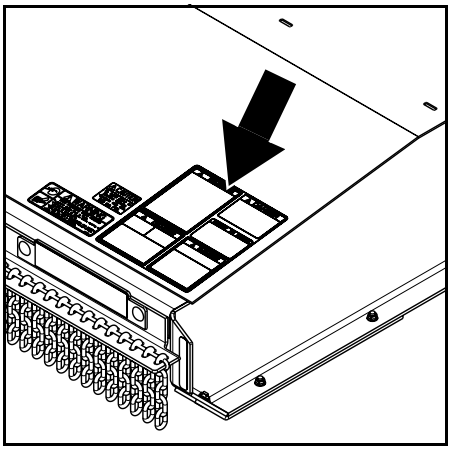
To install new labels:

a. *Clean surface area where label is to be placed.*

b. *Spray soapy water onto the cleaned area.*

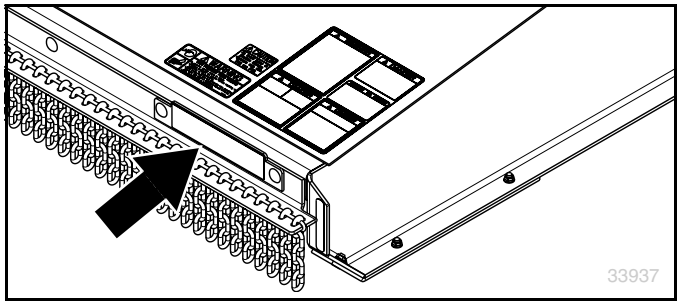
c. *Peel backing from label and press label firmly onto the surface.*

d. *Squeeze out air bubbles with edge of a credit card or with a similar type of straight edge.*



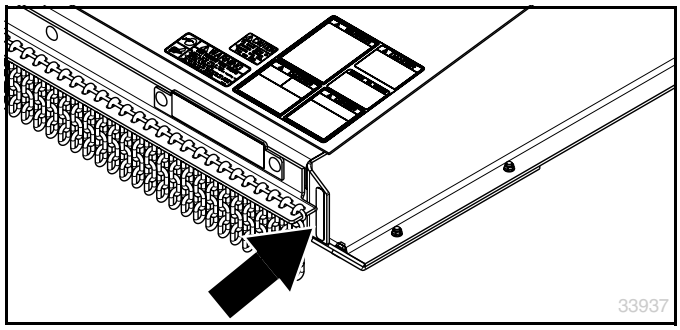
844-190C

Safety Combo:



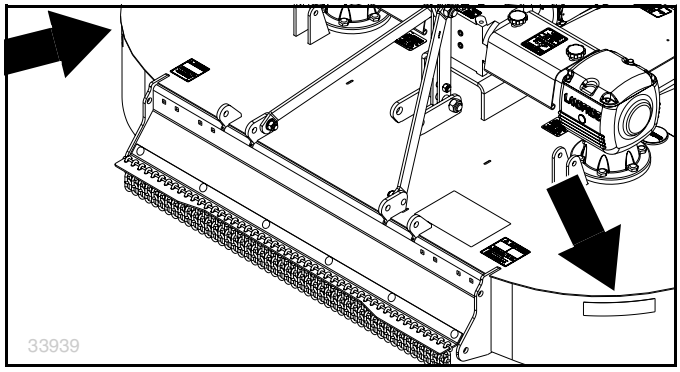
838-615C

2" x 9" Amber Reflector (Left side only)



838-062C

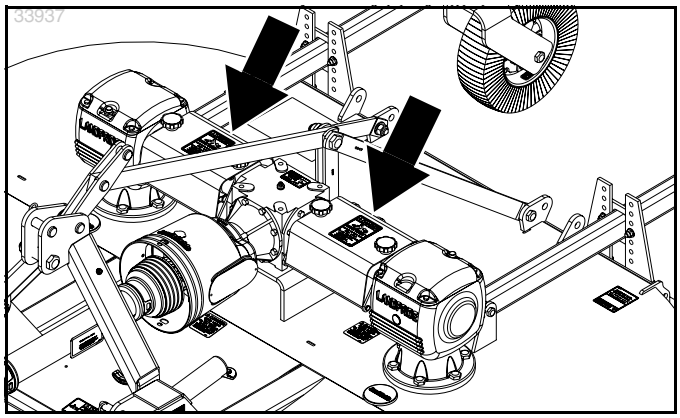
3/4" x 4 5/16" Amber Reflector
2 - Places (Left & right side)



Rear Gauge Wheels Not Shown for Clarity

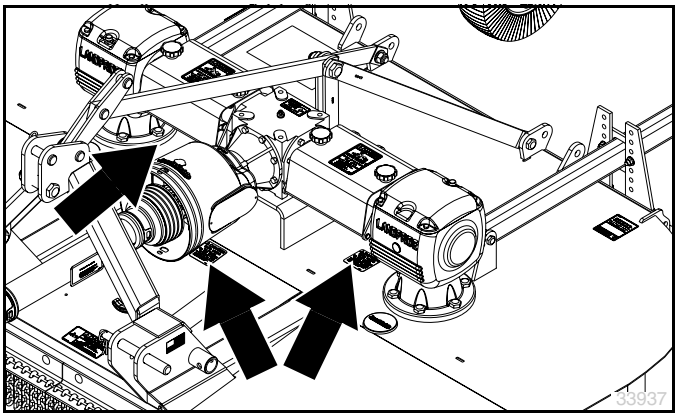
838-614C

2" x 9" Red Reflector
2 - Places (Left & right side)



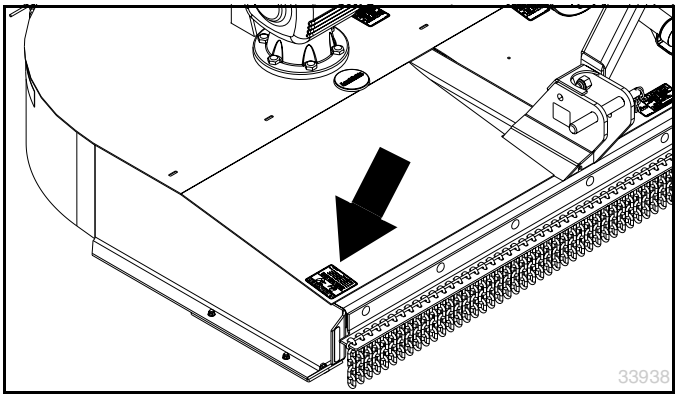
818-552C

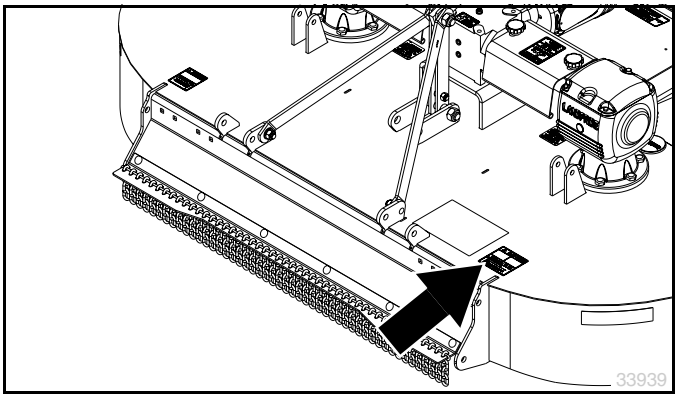
Danger: Rotating driveline
2 - Places



818-543C

Danger: Guard Missing
3 - Places (Beneath gearbox input shaft shields



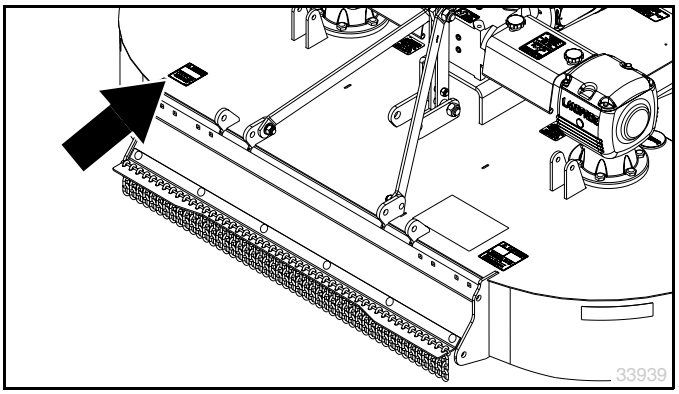


Rear Gauge Wheels Not Shown for Clarity

818-555C

Danger: Rotating Blades

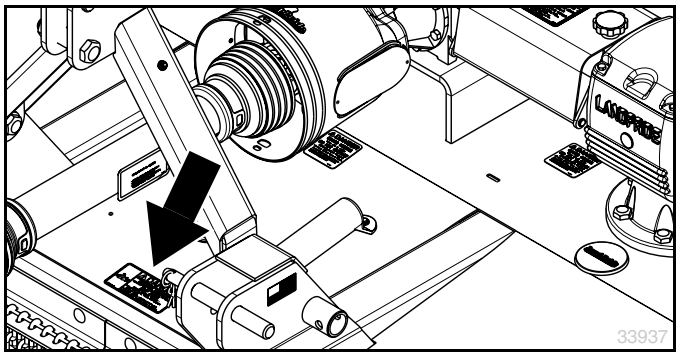
2- Places (Right front corner of deck and right back side of deck)

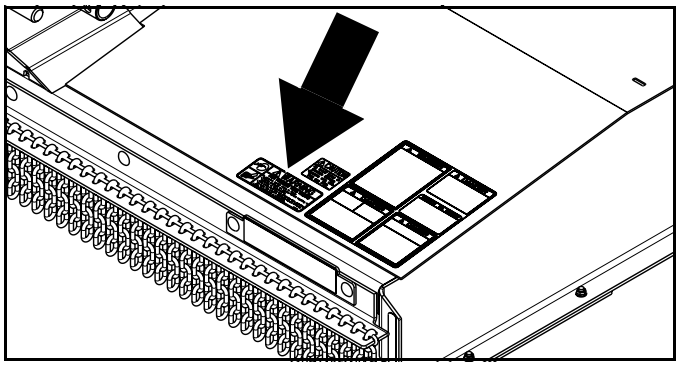


Rear Gauge Wheels Not Shown for Clarity

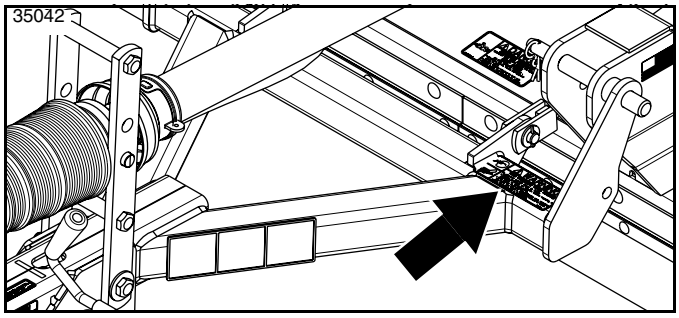
818-556C

Danger:
Thrown Object

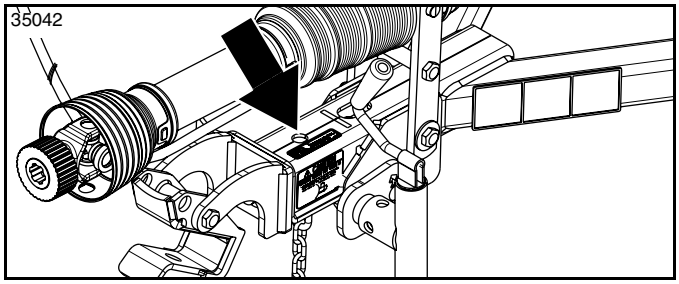


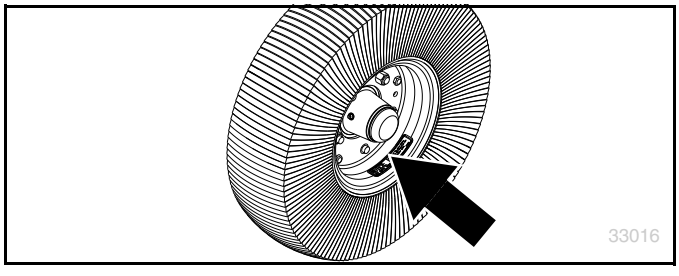


Semi-Mount Rotary Cutter Only



Pull-Type Rotary Cutter Only



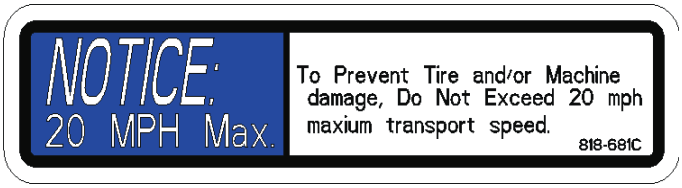


818-142C

Danger: Rotating Driveline

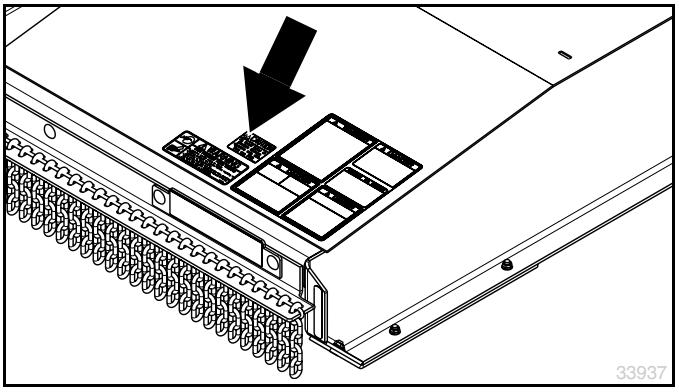
838-094C

Warning: High Pressure



818-681C

Notice: 20 MPH Max Travel Speed
Located on pull-type hitch and all gauge wheels

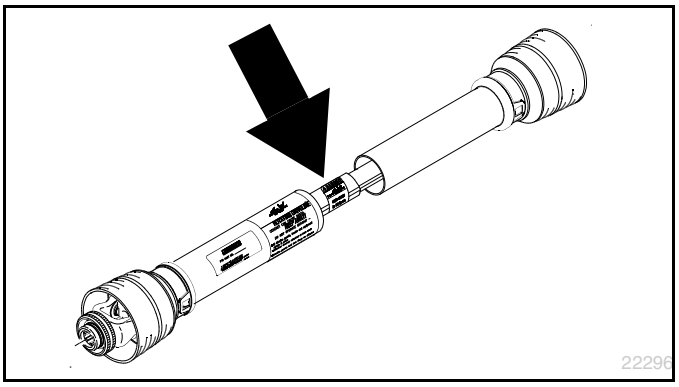


818-130C (Shown)

Warning: 540 rpm

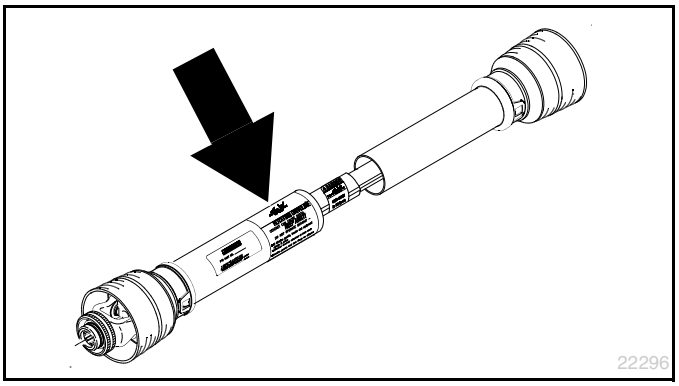
818-240C

Warning: 1000 rpm



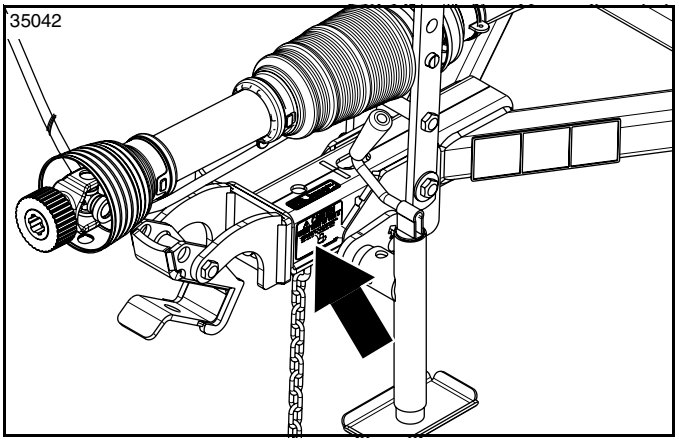
818-540C

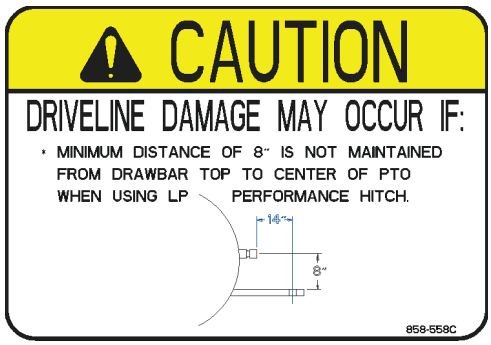
Danger: Guard Missing Do Not Operate



818-552C

Danger: Rotating Driveline Hazard Keep Away





858-558C

Caution: Driveline Damage

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 heavy duty RCF(M)3696 and RCF(M)3610 Series Rotary Cutters are designed and built by Land Pride to provide excellent cutting performance on gently sloping or slightly contoured right-of-ways, pastures, set-aside-acres, or row crop fields. Their 8' (2.44 m) or 10' (3.05 m) cutting width, 2" (5 cm) to 12" (30 cm) cutting height, and ability to cut weeds and brush up to 3" (7.6 cm) in diameter make them well suited for these applications. They offer Quick Hitch adaptability with 540 or 1000 rpm power take-off.

The RCF(M)3696 cutters are designed for Category I or II 3-point, semi-mount, or pull-type hitch. Tractor horsepower requirement varies based on hitch type:

- 3-point requires a 50-130 hp (37-97 kW) tractor
- Semi-mount requires a 40-130 hp (30-97 kW) tractor
- Pull-type requires a 35-130 hp (26-97 kW) tractor.

The RCF(M)3610 cutters are designed for Category II or III 3-point, semi-mount, or pull-type hitch. Tractor horsepower requirement varies based on hitch type:

- 3-point requires a 60-130 hp (45-97 kW) tractor
- Semi-mount and pull-type require a 50-130 hp (37-97 kW) tractor.

Heavy-duty stump jumpers, main driveline clutches, and outboard flex couplers are offered for driveline and gearbox protection. Safety guards around the cutter are offered in either single chain, double chain, or rubber.

See **"Specifications & Capacities"** on page 66 and **"Features & Benefits"** on page 68 for additional information and performance enhancing options.

Using This Manual

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

Terminology

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

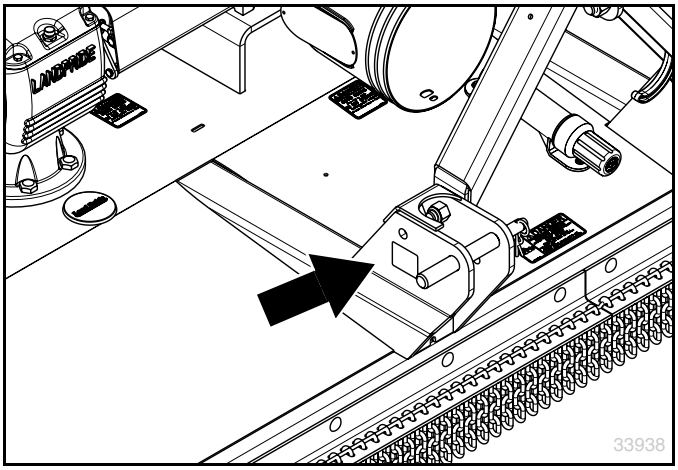
Owner Assistance

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

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

Serial Number

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



Serial Number Plate Location
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new 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
lpservicedept@landpride.com

Tractor Requirements

WARNING

To avoid serious injury or death:

- *Do not use a tractor that is too small or too large. Small tractors can be pushed around and flipped over. Large tractors can damage the attached implement.*
- *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.*

Tractor horsepower and weight must be capable of controlling the cutter under all operating conditions. Tractors outside the horsepower range must not be used.

Horsepower rating (RCF3696 & RCFM3696)
- Three-Point Cat. I or II . . . . . 50-130 hp (37-97 kW)
- Semi-Mount. . . . . 40-130 hp (30-97 kW)
- Pull-Type . . . . . 35-130 hp (26-97 kW)

Horsepower rating (RCF3610 & RCFM3610)
- Three-Point . . . . . 60-130 hp (45-97 kW)
- Semi-Mount & Pull-Type . . . . 50-130 hp (37-97 kW)

3-Point hitch category
- RCF3696 & RCFM3696 . . . . . .Cat. I or II
- RCF3610 & RCFM3610. . . . . .Cat. II or III

Power take-off Speed
- RCF3696 and RCF3610 . . . . . 540 rpm
- RCFM3696 and RCFM3610 . . . . . .1000 rpm

Power take-off shaft type:
- RCF3696 and RCF3610 . . . . . 1 3/8"-6 Spline
- RCFM3696 and RCFM3610 . . . . . 1 3/8"-21 Spline

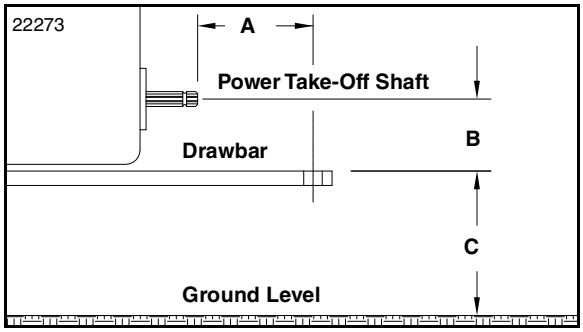
Pull-Type Hitch

Refer to Figure 1-1:

Distances between center of drawbar hitch pin hole to end of tractor power take-off shaft ("A" dimension) and from top of drawbar hitch to center of power take-off shaft ("B" dimension) must be maintained for Pull-type hitches.

"A" = 14" (36 cm) at 540 rpm
"A" = 16" (41 cm) at 1000 rpm
"B" = 8" (20 cm) at 540 and 1000 rpm

IMPORTANT: Power take-off damage may occur if distances "A" and "B" are not maintained.



Power Take-Off to Drawbar Distance
Figure 1-1

3-Point Hitch

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.

Dealer Preparations

WARNING

To avoid serious injury or death:

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

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

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

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

Pre-Assembly Checklist

	Check	Refer to
☐	Location of fasteners and pins. **NOTE:** All hardware from the factory has been installed in the location where it will be used. If a part is temporarily removed for assembly reasons, remember where it goes. Keep parts separated.	Operator's & Parts Manual
☐	Be sure parts get used in the correct location. By double checking while you assemble, you will lessen the chance of using a bolt that may be needed later.	Operator's Manual
☐	Grease fittings are in place and lubricated.	Section 4 Page 62
☐	Safety labels are correctly located and legible. Replace if damaged.	Page 6
☐	Inflate tires to specified PSI air pressure. Tighten wheel bolts to specified torque.	Section 9 Page 70
☐	Red and amber reflectors are correctly located and visible when the cutter is in the transport position.	Page 6
☐	Have a minimum of 2 people at hand while assembling the cutter.	Operator's Manual
☐	Have a forklift or loader along with chains and safety stands that are sized for the job ready for the assembly task.	Operator's Manual

Gearbox Vent Plugs & Dipsticks

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.

Vent Plug Installation

Refer to Figure 1-2:

A vent plug is shipped loose and packaged with the Operator's Manual. Remove temporary solid plug on top of T-box and replace with included 3/8" vent plug. See your nearest Land Pride dealer if vent plug is missing.

Vented Dipstick Installation

Refer to Figure 1-3:

Vented dipsticks are shipped loose and packaged with the Operator's Manual. See your nearest Land Pride dealer if dipstick is missing. Remove temporary pipe plug from top of each gearbox and replace with supplied dipsticks.

Torque Requirements

Refer to **"Torque Values Chart"** on page 70 to determine correct torque values for common bolts. See **"Additional Torque Values"** at bottom of chart for exceptions to standard torque values.

Tractor Shutdown Procedure

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

1. Reduce engine speed and 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.

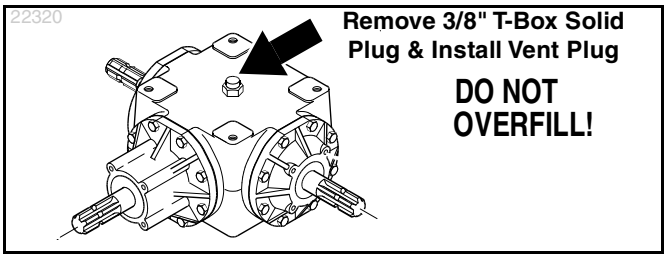


Figure 1-2

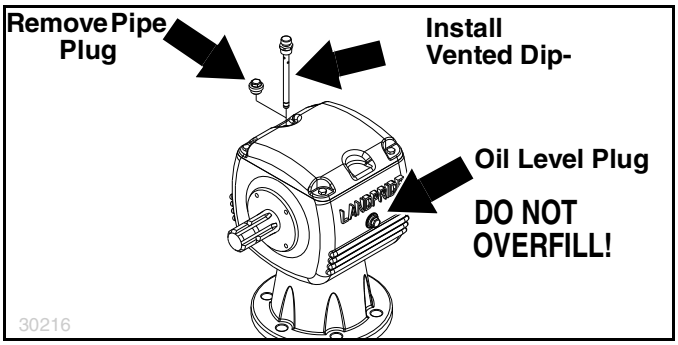


Figure 1-3

Getting Started

The RCF36 Series cutters can be purchased with either 3-point hitch, Semi-Mount hitch, or Pull-Type hitch.

3-Point Mounted Rotary Cutter

Refer to illustrations on cover of manual:

The 3-point Rotary Cutter is attached to the tractor's lower 3-point arms and upper center link. The lower 3-point arms are hydraulically adjusted to the cutting height. The height of the rear tailwheels are manually or hydraulically adjusted depending upon which option the cutter is set-up with. The tailwheels should be adjusted to hold the cutting blades slightly higher at the back than at the front. The **"3-Point Assembly & Set-Up"** instructions begin on page 14.

Semi-Mount Rotary Cutter

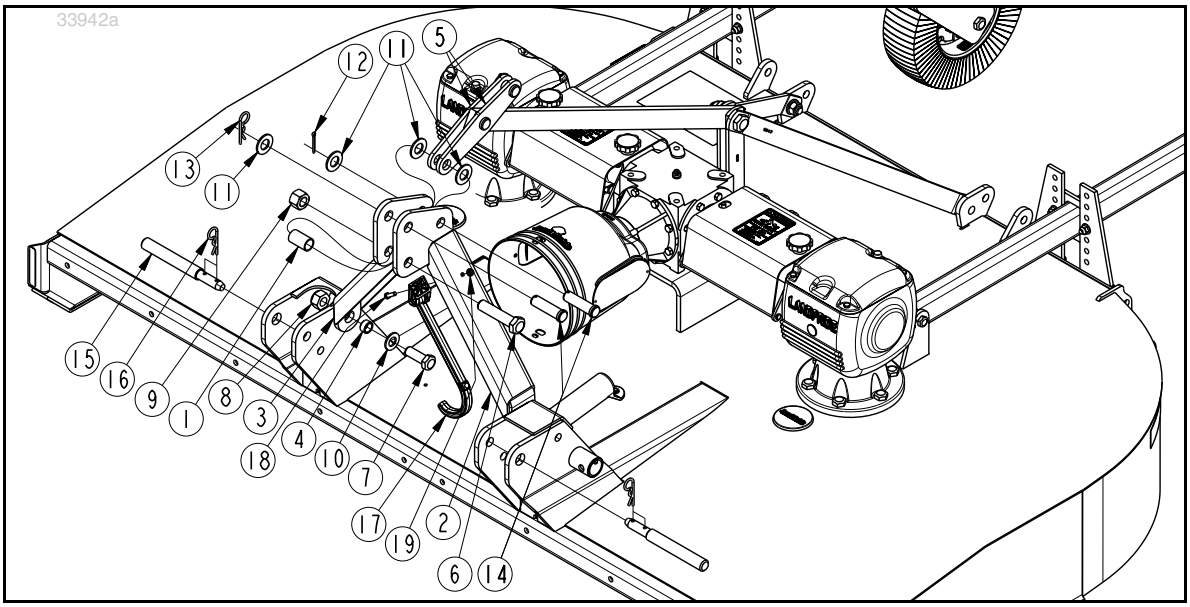
Refer to illustrations on Cover

The Semi-Mount cutter is attached to the tractor's lower 3-point arms and have more freedom to float over uneven terrain than does the 3-point mounted cutter. The lower 3-point arms are hydraulically adjusted to the cutting height. The rear tailwheels are manually adjusted with a ratchet jack or hydraulically adjusted to hold the cutting blades slightly higher at the back than at the front. The **"Semi-Mount Assembly & Set-Up"** instructions begin on page 23.

Pull-Type Rotary Cutter

Refer to illustrations on Cover

The Pull-Type cutter is attached to the tractor drawbar. Cutting height is controlled with a hydraulic cylinder or ratchet jack. Leveling rods keep the rear of the cutter slightly higher than the front. The **"Pull-Type Assembly & Set-Up"** instructions begin on page 30.



3-Point Hitch Assembly (RCF(M)3696 Shown)
Figure 1-4

3-Point Assembly & Set-Up

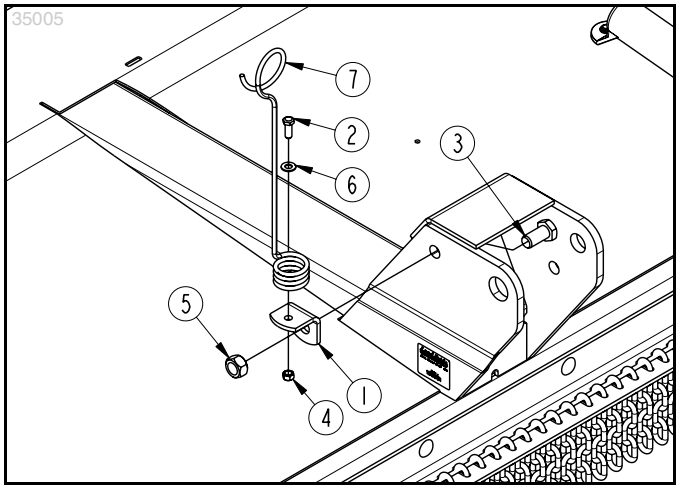
The following pages are Assembly and Set-Up Instructions for 3-point cutters. Not all instructions will apply to your cutter. See **"Semi-Mount Assembly & Set-Up"** on page 23 and **"Pull-Type Assembly & Set-Up"** on page 30.

Hitch Assembly (3-Point)

NOTE: Do not tighten hardware until assembly is complete. See **"Torque Values Chart"** on page 70.

Refer to Figure 1-4:

1. Attach Right-hand A-Frame (#3) to hitch plate as shown with 7/8"-9 x 2 1/2" GR5 cap screw (#7), flat washer (#10), bushing (#4), and nylock nut (#8).
2. Repeat step 1 for the left-hand A-Frame (#2).
3. Attach short braces (#5) to A-Frames (#2 & #3) with 1" x 3 3/16" clevis pin (#14), three flat washers (#11), and cotter pin (#12) at the back as shown. Bend one or more legs of the cotter pin to retain the clevis pin.
4. Secure 1 1/4" OD. bushing (#1) between the two A-Frame hitch plates (#2 & #3) with 1"-8 x 4 1/2" cap screw (#6) and nylon locknut (#9).
5. Install remaining clevis pin (#14), flat washer (#11) and hairpin cotter (#13) to the A-Frame hitch assembly (#2 & #3) as shown.
6. Attach driveline hook (#17) to A-frame (#2) using 5/16"-18 x 1 1/4" bolt (#18) and locknut (#19).
7. Tighten all hardware to the correct torque.
8. Insert hitch pins (#15) in clevis as shown and secure as follows:
   - **RCF(M)3696:** With hairpin cotters (#16) as shown.
   - **RCF(M)3610, Refer to Figure 1-10 on page 19:** With linchpins (#5) in hitch pins (#1).



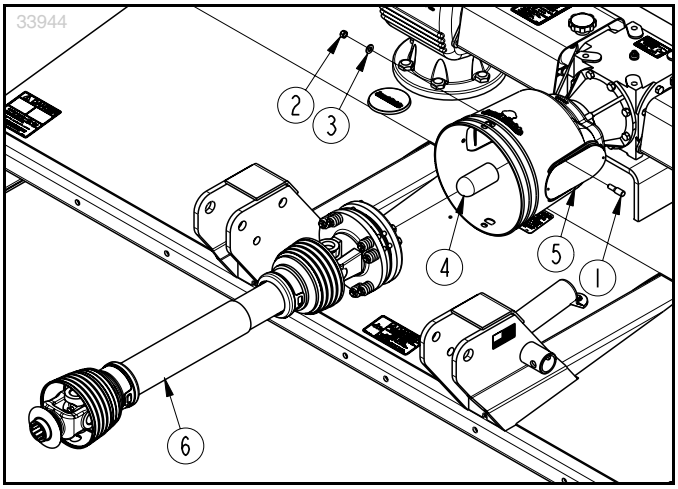
3-Point Spring Hose Loop Mount
Figure 1-5

Spring Hose Loop Assembly (3-Point)

Refer to Figure 1-5:

3-Point mounted cutters with hydraulic cylinder option are shipped with a spring hose loop. Skip to **"Driveline Installation (Semi-Mount)"** on this page if hydraulics are not included.

1. Attach mounting bracket (#1) with 3/4"-10 x 1 1/2" GR5 cap screw (#3) and locknut (#5) to the outside of the right-hand clevis as shown. Tighten locknut to the correct torque.
2. Attach spring hose loop (#7) to mounting bracket (#1) with 3/8"-16 x 1" GR5 cap screw (#2), flat washer (#6), and locknut (#4). Tighten locknut to the correct torque.



Driveline Installation (Hitch Removed For Clarity)
Figure 1-6

Driveline Installation (3-Point)

Refer to Figure 1-6:

DANGER

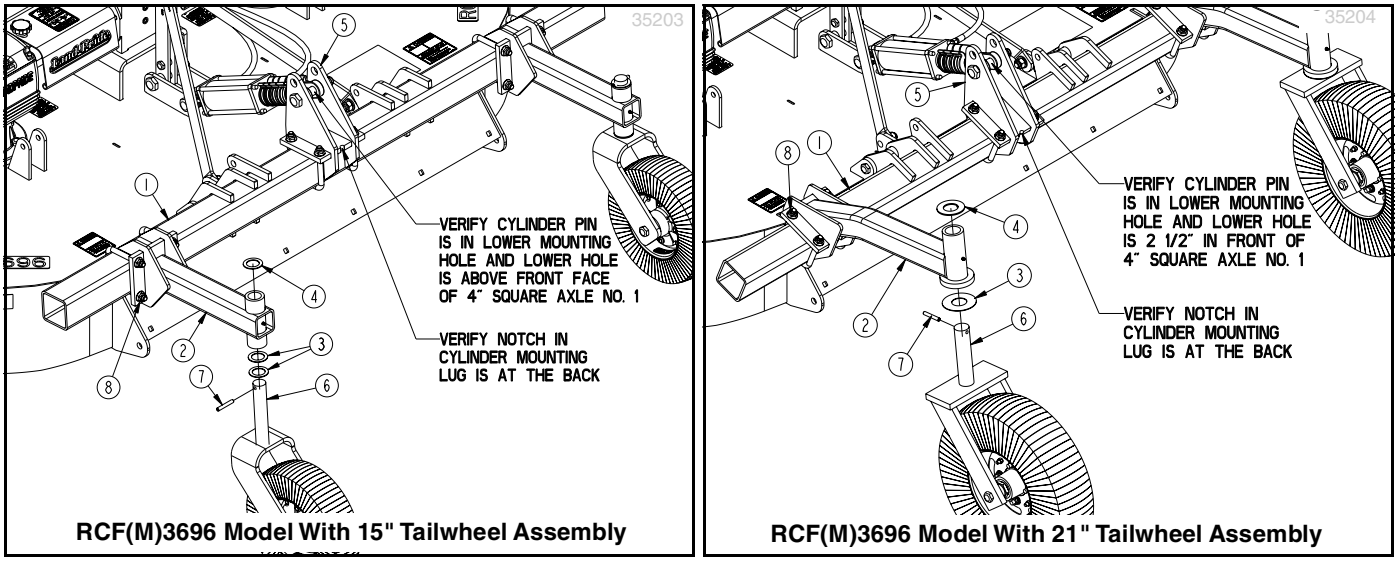
To avoid serious injury or death:

Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably.

IMPORTANT: The driveline must be lubricated before putting it into service. Refer to **"Lubrication Points"** on page 62.

NOTE: If preferred, the front guards may be assembled first. See **"Assembly of Optional Equipment"** on page 36 for front guard instructions.

1. Remove rubber protective sleeve (#4) from gearbox input shaft and discard.
2. Pry open access doors (#5) in the gearbox shield by placing a tool in the notch at the back of both doors.
3. Remove existing conical dog pin or bolts (#1), flat washer(s) (#3), and nut(s) (#2) from slip-clutch end of driveline (#6).
4. Slide slip-clutch end of driveline (#6) onto gearbox input shaft. Make certain that the slip-clutch is fully onto the shaft splines.
5. Attach slip-clutch end of driveline to gearbox input shaft with removed conical dog pin or bolts (#1), flat washer(s) (#3), and nut(s) (#2). Tighten conical dog pin or bolts (#1) to 45-50 ft-lb torque.
6. Push/pull on driveline yoke to ensure it is securely fastened to the gearbox shaft.
7. Rotate access doors (#5) closed and snap in place.
8. Rotate driveline storage hook down and place driveline (#6) in storage hook.



RCF(M)3696 3-Point Tailwheel Assembles
Figure 1-7

RCF(M)3696 Tailwheels (3-Point)

These instructions apply only to 96" models with the optional rear axle hydraulic lift. If hydraulics are not included with your cutter, skip to **"RCF(M)3696 Hitch Hook-Up (3-Point)"** on page 15.

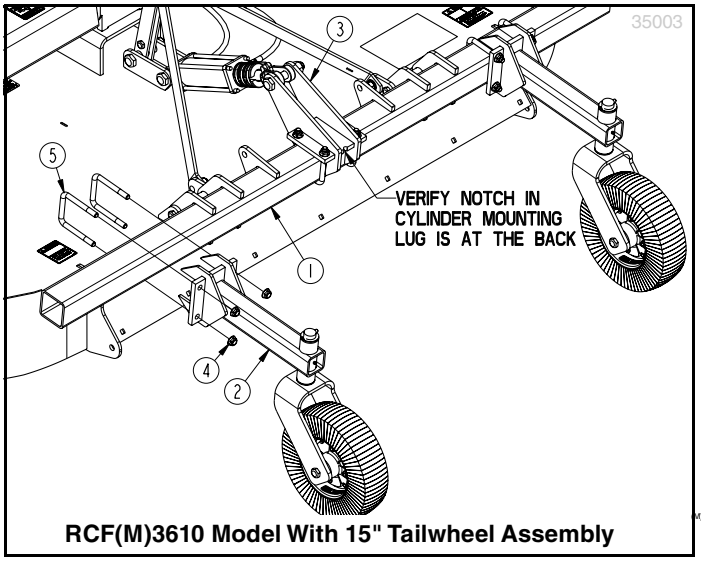
> **NOTE:** If preferred, rear guards may be assembled before the tailwheels. See **"Assembly of Optional Equipment"** on page 36 for rear guard instructions.

Refer to Figure 1-7:

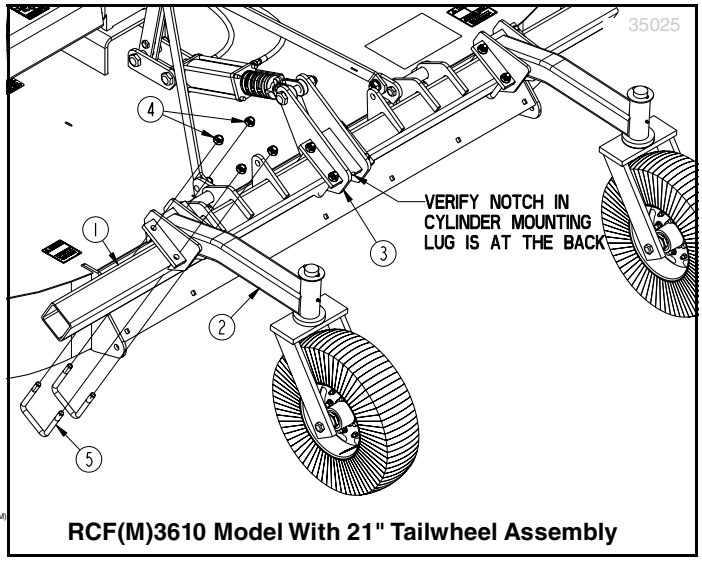
1. There are several cylinder mounting lugs (#5) that can be installed on axle (#1). Refer to **NOTES IN BOLD** in Figure 1-7 to make sure your cutter is equipped with the correct mounting lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if it is not correct.
2. Install washers (#3) as follows:

   RCF(M)3696 With 15" Tailwheels
   Install two 2 1/4" O.D. machine washers (#3) onto each tailwheel spindle (#6).

   RCF(M)3696 With 21" Tailwheels
   Install one special 4" O.D. harden washer (#3) onto each tailwheel spindle (#6).
3. Insert tailwheel spindle (#6) into pivot tube on end of tailwheel arm (#2).
4. Install 2 1/4" O.D. machine washers (#4) over each tailwheel spindle (#6) and secure with 3/8" x 2 1/2" roll pins (#7).
5. Tailwheel arms (#2) should be adjusted to customer preference. When completed, they should be equal distance from center line of hydraulic lift cylinder.
   a. Loosen hex flange locknuts (#8) and adjust tailwheel arms (#2) in or out to desired locations.
   b. Tighten locknuts (#8) to the correct torque.
6. Continue with **"RCF(M)3696 Hitch Hook-Up (3-Point)"** on page 18.



RCF(M)3610 Model With 15" Tailwheel Assembly



RCF(M)3610 Model With 21" Tailwheel Assembly

RCF(M)3610 3-Point Tailwheel Assembles
Figure 1-8

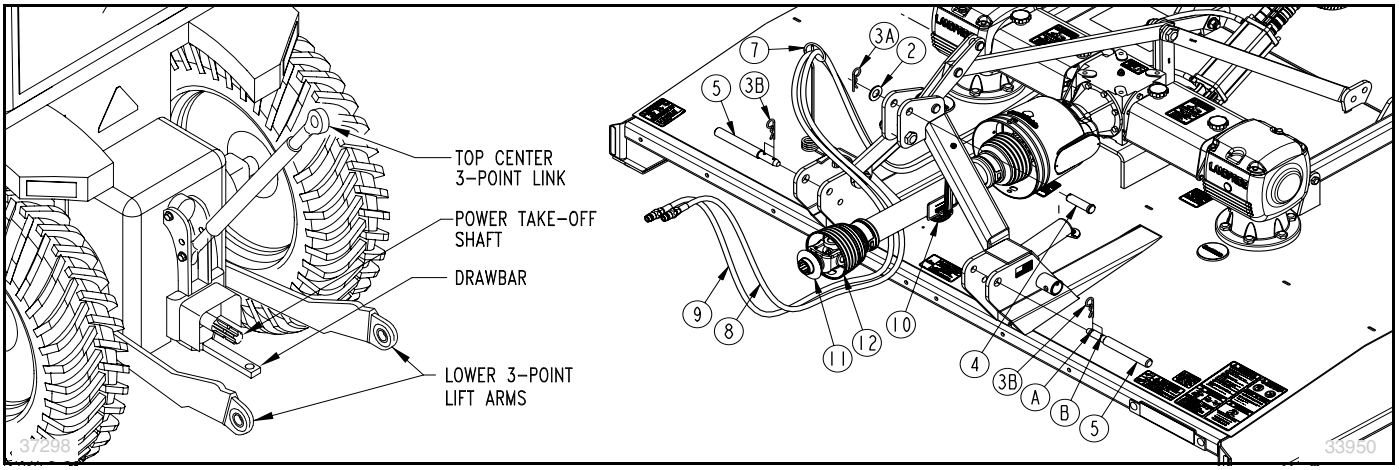
RCF(M)3610 Tailwheels (3-Point)

These instructions apply only to 10' models with the optional rear axle hydraulic lift. If hydraulics are not included with your cutter, skip to **"RCF(M)3610 Tailwheels (3-Point)"** on page 15.

NOTE: If preferred, rear guards may be assembled before the tailwheels. See **"Assembly of Optional Equipment"** on page 36 for rear guard instructions.

Refer to Figure 1-8:

1. There are several cylinder mounting lugs (#3) that can be installed on axle (#1). Refer to **NOTES IN BOLD** in Figure 1-8 to make sure your cutter is equipped with the correct mounting lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if it is not correct.
2. Attach left and right-hand tailwheel arms (#2) to axle tube (#1) with 5/8"-11 U-bolts (#5) and hex flange locknuts (#4). Do not tighten locknuts.
3. Adjust tailwheel arms to customer preference and then tighten locknuts (#4) to the correct torque. When completed, the tailwheel arms should be equal distance from center line of hydraulic lift cylinder.
4. Continue with **"RCF(M)3610 Hitch Hook-Up (3-Point)"** on page 19.



3-Point Hook-up to RCF(M)3696 Cutters
Figure 1-9

RCF(M)3696 Hitch Hook-Up (3-Point)

Refer to Figure 1-9:

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.*

WARNING

To avoid serious injury or death:

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

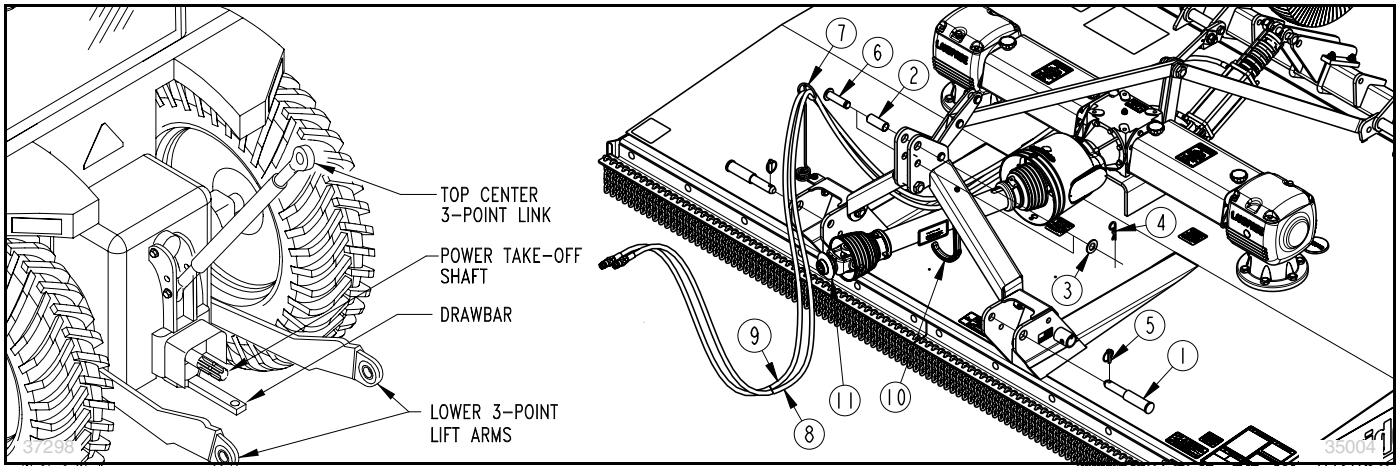
NOTE: Land Pride's Quick Hitch can be attached to the tractor to provide quick and easy 3-point hook-up and detachment. See your nearest Land Pride dealer to purchase a Quick-Hitch.

The following hook-up instructions are for RCF(M)3696 cutters. See page 19 for **"RCF(M)3610 Hitch Hook-Up (3-Point)"**.

1. Make sure you have read and follow all Safety Alerts and Important Notes above before continuing.
2. The RCF(M)3696 cutter is equipped with Cat. I & II hitches. Make sure your tractor's hitch is compatible with the cutter's hitch.
3. Remove lower hairpin cotters (#3B) and hitch pins (#5). Remove upper hairpin cotter (#3A), flat washer (#2), and hitch pin (#4).
4. Slowly back tractor to cutter while using tractor's 3-point control lever to align lower 3-point arm holes with clevis hitch pin holes.
5. Shut tractor down before dismounting using **"Tractor Shutdown Procedure"** on page 13.

NOTE: All Cat. I and most Cat. II 3-point lift arms are positioned inside the clevis hitch plates. Refer to **"Hitch Pin Modification (3-Point & Semi)"** on page 21 if hooking-up Cat. II 3-point lift arms or Cat. II quick hitch outside the clevis hitch plates.

6. Attach lower 3-point arms to clevises with hitch pins (#5). Secure Cat. I hitch pins with hairpin cotters (#3B).
7. Connect center 3-point link to upper hitch with clevis pin (#4), flat washer (#2), and hairpin cotter (#3A).
8. Adjust stabilizers on the tractor's lower 3-point arms to stop lateral float. Please consult your tractor's manual for adjusting instructions.
9. Manually adjust one of the lower 3-point lift arms up or down to level the cutter from left to right. Detailed leveling instructions are provided later. Refer to **"Deck Leveling & Height Adjustment"** on page 42.
10. Continue with **"Driveline Hook-up (3-Point)"** on page 20.



3-Point Hook-up to RCFM3610
Figure 1-10

RCF(M)3610 Hitch Hook-Up (3-Point)

Refer to Figure 1-10:

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.*

WARNING

To avoid serious injury or death:

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

The following hook-up instructions are for RCF(M)3010 cutters. See page 18 for **"RCF(M)3696 Hitch Hook-Up (3-Point)"**.

1. Make sure you have read and follow all Safety Alerts and Important Notes above before continuing.
2. The RCF(M)3610 cutter is equipped with Cat. II & III hitches. Make sure your tractor's hitch is compatible with the cutter's hitch.
3. Remove lower linchpins (#5) and hitch pins (#1). Remove upper hairpin cotter (#4), flat washer (#3), hitch tube (#2), and clevis pin (#6).
4. Slowly back tractor to cutter while using tractor's 3-point control lever to align lower 3-point arm holes with clevis hitch pin holes.
5. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
6. Attach lower 3-point arms to clevises with hitch pins (#1). Secure hitch pins with linchpins (#5).
7. The upper center 3-point link can be attached to the cutter in one of two locations depending on which hitch category the tractor has.
   a. Connect Cat. II center 3-point link to the middle hitch holes in upper hitch plates with clevis pin (#6), flat washer (#3), and hairpin cotter (#4). Hitch tube (#2) is not used and should be stored with cutter for safe keeping.
   b. Connect Cat. III center 3-point link to the upper hitch holes in upper hitch plates with clevis pin (#6), hitch tube (#2), flat washer (#3), and hairpin cotter (#4).
8. Adjust stabilizers on the tractor's lower 3-point arms to stop lateral float. Please consult your tractor's manual for adjusting instructions.
9. Manually adjust one of the lower 3-point lift arms up or down to level the cutter from left to right. Detailed leveling instructions are provided later. Refer to **"Deck Leveling & Height Adjustment"** on page 42.
10. Continue with **"Driveline Hook-up (3-Point)"** on page 20.

Driveline Hook-up (3-Point)

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.*
- *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.*
- *All guards and shields must be installed and in good working condition while operating the implement.*
- *Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably.*

WARNING

To avoid serious injury or death:

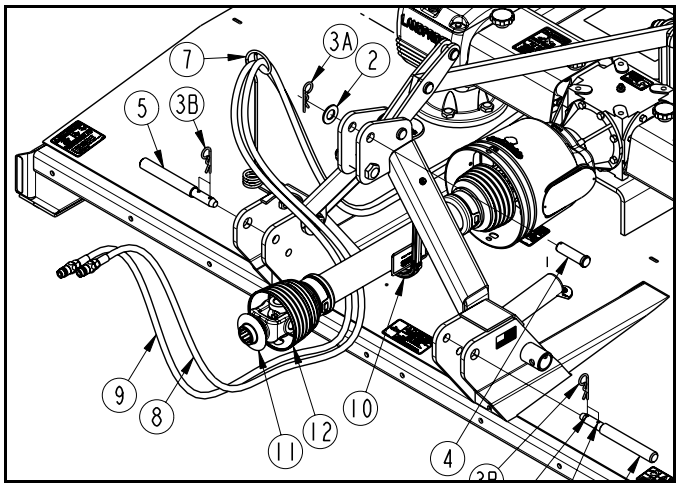
- *Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.*
- *Check driveline when lowering implement to make sure it does not interfere with the tractor drawbar at maximum depth. If needed, shut tractor off and move or remove drawbar to prevent driveline damage.*

IMPORTANT: The drivelines must be lubricated before putting them into service. Refer to **"Lubrication Points"** on page 62.

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 58.

IMPORTANT: Check driveline minimum collapsible length before hooking-up the driveline. Structural damage to the tractor and cutter can occur if this check is not made. Refer to **"Check Driveline Collapsible Length"** on page 28.



Driveline Hook-up (RCF3696 Shown)
Figure 1-11

Refer to Figure 1-11:

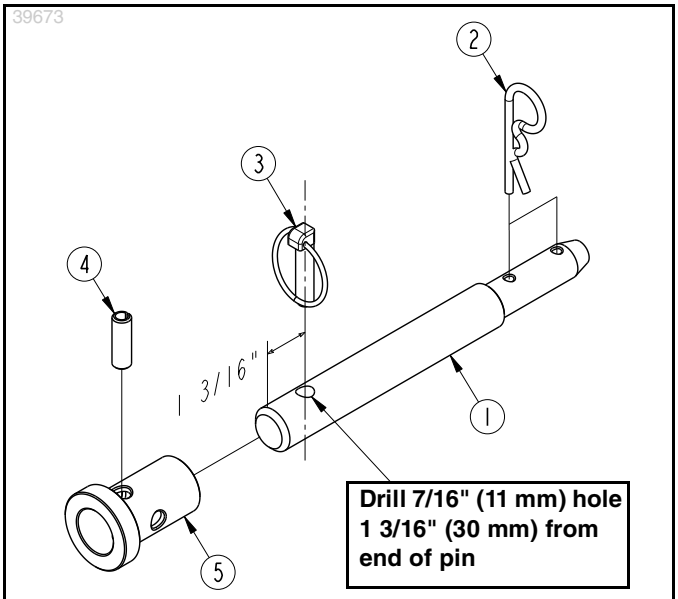
The cutter driveline fastens to the tractor power take-off shaft with pull collar coupler (#11).

1. If driveline collapsible length has not been checked, go to **"Check Driveline Collapsible Length"** on page 28. Otherwise, continue with step 2 below.
2. Park tractor and cutter on a level surface.
3. Shut tractor down before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 13.
4. Lubricate the driveline. Refer to **"Lubrication Points"** on pages 64-65.
5. If tractor drawbar interferes with the driveline during hook-up, move drawbar forward, to the side, or remove.
6. Lift driveline (#12) off of driveline support (#10). Driveline support will rotate up until secure against A-frame as it is spring loaded.
7. Pull back on driveline pull collar (#11) and push driveline yoke onto tractor power take-off shaft. Release pull collar and continue to push driveline yoke forward until pull collar locks in place.
8. Pull on both ends of driveline to make sure it is secured to the tractor and implement.
9. Continue with **"Hydraulic Hook-up Option (3-Point)"** on page 21.

Hydraulic Hook-up Option (3-Point)

Refer to Figure 1-11 on page 20:

1. Thread hydraulic hoses (#8 & #9) through spring hose loop (#3) and attach to tractor duplex outlet.
2. Hydraulic cylinder should extend when pushing control lever. Reverse hook-up if cylinder retracts.
3. Continue with **"Check Driveline Clearance"** on page 29.



Item	Pt. No.	Description
1	805-485C	PIN HTCH C1-C2 10.18 L
2	805-088C	PIN, HAIR COTTER 3/16 WIRE DIA
3	805-103C	PIN LINCH 7/16 X 1 3/4
4	805-393C	PIN ROLL 7/16 X 1 3/8 PLT
5	890-938C	ADAPTER QH CAT II LWR 3PT

Add 7/16" Dia. Hitch Pin Hole
Figure 1-12

Hitch Pin Modification (3-Point & Semi)

Refer to Figure 1-12:

NOTE: Linchpin (#3), adapter bushing (#5), and roll pin (#4) are accessories and can be purchased from your nearest Land Pride dealer.

A 7/16" (11 mm) diameter hole must be drilled 1 3/16" (30 mm) from end of hitch pin (#1) as shown to receive linchpin (#3) or roll pin (#4). Make sure the hole is straight, vertical, and passes through the center of the hitch pin diameter.

Linchpin #3 is used to securing Cat. II lower 3-point arms outside of the cutter hitch plates.

The Cat. II quick hitch attaches to adapter bushing (#5) outside the cutter hitch plates. Secure bushing (#5) to hitch pin (#1) with roll pin (#4)

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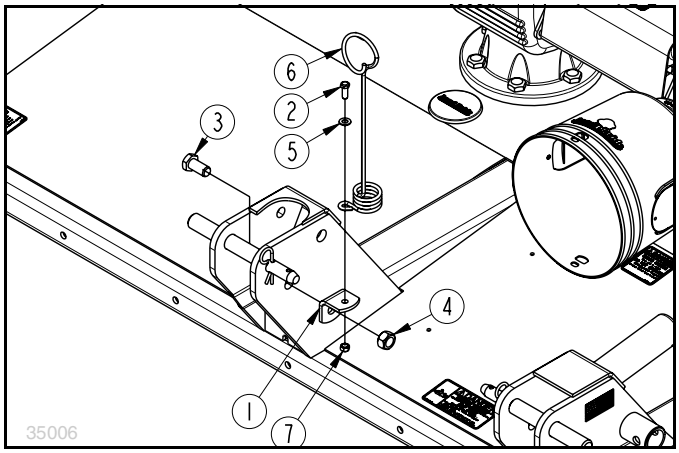
Semi-Mount Assembly & Set-Up

The following pages are Assembly & Set-Up Instructions for Semi-Mount cutters. See **"3-Point Assembly & Set-Up"** on page 14 and **"Pull-Type Assembly & Set-Up"** on page 30.

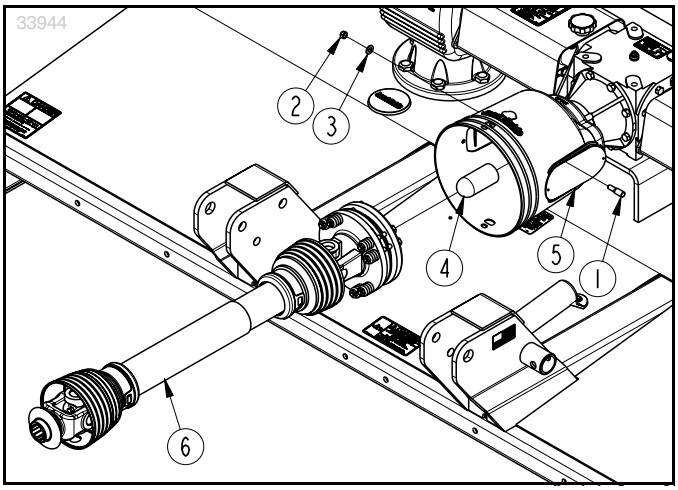


Spring Hose Loop Assembly
Figure 1-13

Spring Hose Loop Assembly (Semi-Mount)

Refer to Figure 1-13:

1. Attach mounting bracket (#1) with 3/4"-10 x 1 1/2" GR5 cap screw (#3) and locknut (#4) to the right-hand clevis as shown. Tighten nut to the correct torque.
2. Attach spring hose loop (#6) to mounting bracket (#1) with 3/8"-16 x 1" GR5 cap screw (#2), flat washer (#5), and locknut (#4). Tighten nut to the correct torque.



Semi-Mount Driveline Installation
Figure 1-14

Driveline Installation (Semi-Mount)

Refer to Figure 1-14:

DANGER

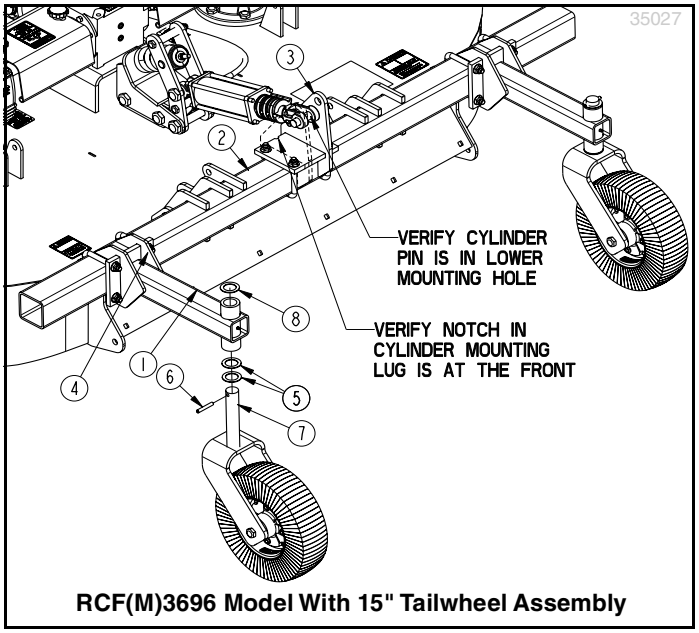
To avoid serious injury or death:

Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably.

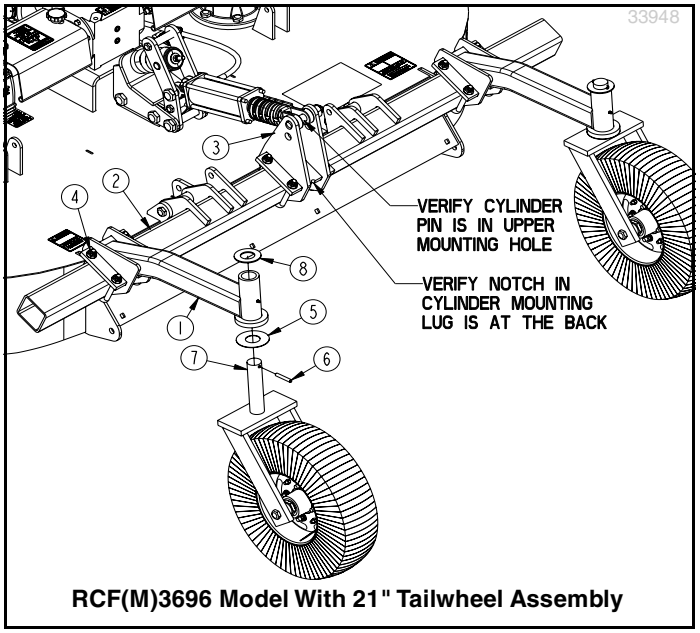
IMPORTANT: The driveline must be lubricated before putting it into service. Refer to **"Lubrication Points"** on page 62.

NOTE: If preferred, the front guards may be assembled first. See **"Assembly of Optional Equipment"** on page 36 for front guard instructions.

1. Remove rubber protective sleeve (#4) from gearbox input shaft and discard.
2. Pry open access doors (#5) by placing a tool in the notch at the back of both doors.
3. Remove existing conical dog pin or bolts (#1), flat washer(s) (#3), and nut(s) (#2) from slip-clutch end of driveline (#6).
4. Slide slip-clutch end of driveline (#6) onto gearbox input shaft. Make certain that the slip-clutch is fully onto the shaft splines.
5. Attach slip-clutch end of driveline to gearbox input shaft with removed conical dog pin or bolts (#1), flat washer(s) (#3), and nut(s) (#2). Tighten conical dog pin or bolts (#1) to 45-50 ft-lb torque.
6. Push/pull on driveline yoke to ensure it is securely fastened to the gearbox shaft.
7. Rotate access doors (#5) closed and snap in place.



RCF(M)3696 Model With 15" Tailwheel Assembly



RCF(M)3696 Model With 21" Tailwheel Assembly

RCF(M)3696 Semi-Mount Tailwheel Assembles
Figure 1-15

RCF(M)3696 Tailwheels (Semi-Mount)

Refer to Figure 1-15:

NOTE: If preferred, rear guards may be assembled before the tailwheels. See **"Assembly of Optional Equipment"** on page 36 for rear guard instructions.

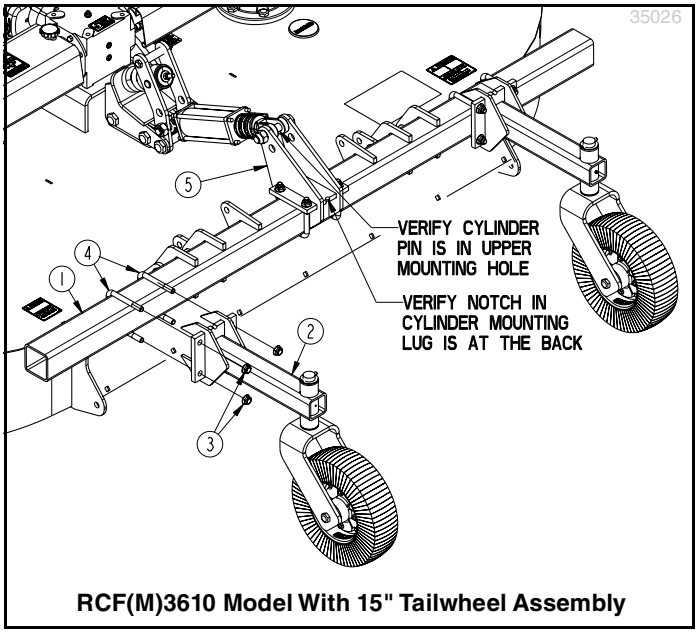
1. There are several cylinder mounting lugs (#3) that can be installed on axle (#2). Refer to **NOTES IN BOLD** in Figure 1-15 to make sure your cutter is equipped with the correct mounting lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if it is not correct.
2. Install washers (#5) as follows:

   RCF(M)3696 With 15" Tailwheels

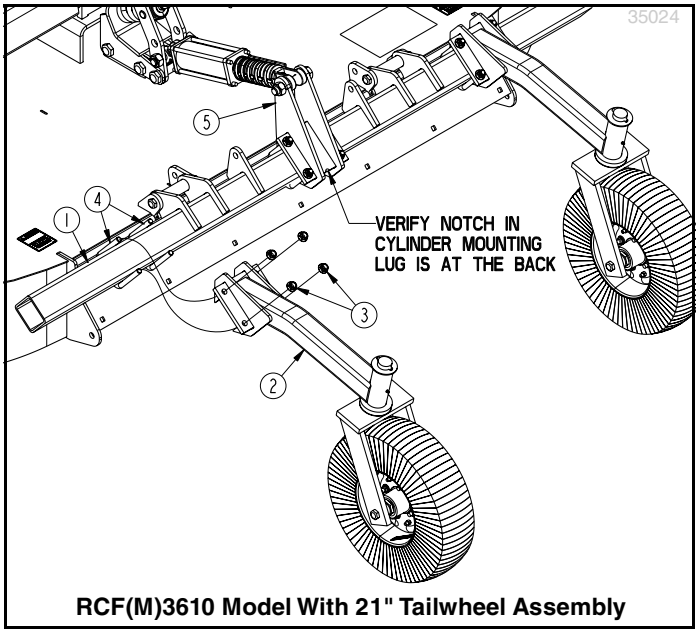
   Install two 2 1/4" O.D. machine washers (#5) onto each tailwheel spindle (#7).

   RCF(M)3696 With 21" Tailwheels

   Install one special 4" O.D. harden washer (#5) onto each tailwheel spindle (#7).
3. Insert tailwheel spindle (#7) into pivot tube on end of tailwheel arm (#1).
4. Install 2 1/4" O.D. machine washers (#5) over each tailwheel spindle (#7) and secure with 3/8" x 2 1/2" roll pins (#6).
5. Tailwheel arms (#1) should be adjusted to customer preference. When completed, they should be equal distance from center line of hydraulic lift cylinder.
   a. Loosen hex flange locknuts (#4) and adjust tailwheel arms (#1) in or out to desired locations.
   b. Tighten locknuts (#4) to the correct torque.
6. Continue with **"Hitch Hook-Up (Semi-Mount)"** on page 26.



RCF(M)3610 Model With 15" Tailwheel Assembly



RCF(M)3610 Model With 21" Tailwheel Assembly

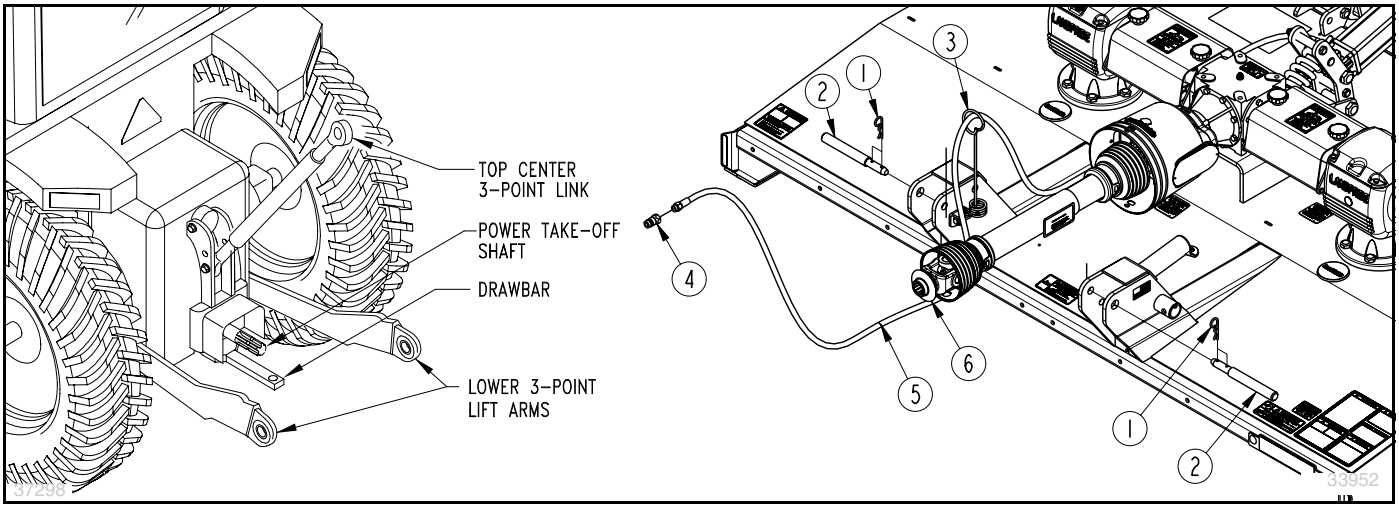
RCF(M)3610 Semi-Mount Tailwheel Assembles
Figure 1-16

RCF(M)3610 Tailwheels (Semi-Mount)

Refer to Figure 1-16:

NOTE: If preferred, rear guards may be assembled before the tailwheels. See **"Assembly of Optional Equipment"** on page 36 for rear guard instructions.

1. There are several cylinder mounting lugs (#5) that can be installed on axle (#1). Refer to **NOTES IN BOLD** in Figure 1-16 to make sure your cutter is equipped with the correct mounting lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if it is not correct.
2. Attach left and right-hand tailwheel arms (#2) to axle tube (#1) with 5/8"-11 U-bolts (#4) and hex flange locknuts (#3). Do not tighten locknuts.
3. Adjust tailwheel arms to desired locations and tighten locknuts (#3) to the correct torque. When completed, the tailwheel arms should be equal distance from center line of hydraulic lift cylinder.
4. Continue with **"Hitch Hook-Up (Semi-Mount)"** on page 26.



Semi-Mount Hook-Up
Figure 1-17

Hitch Hook-Up (Semi-Mount)

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.*

WARNING

To avoid serious injury or death:

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

Refer to Figure 1-17:

1. Make sure you have read and follow all Safety Alerts and Important Notes listed on page 26 before continuing.
2. Locate cutter on a flat level surface.
3. The cutter is equipped with Cat. I, II, & III hitches. Make sure your tractor's hitch is compatible with the cutter's hitch.
4. Remove lower hairpin cotters (#1) and hitch pins (#2).

NOTE: All Cat. I and most Cat. II 3-point lift arms are positioned inside the clevis hitch plates. Refer to **"Hitch Pin Modification (3-Point & Semi)"** on page 21 if hooking-up Cat. II 3-point lift arms or Cat. II quick hitch outside the clevis hitch plates.

NOTE: The spring hose loop (#3) may need to be moved if using a Quick Hitch and the Quick Hitch interferes with spring hose loop mounting bolt. See **"Spring Hose Loop Assembly (3-Point)"** on page 15 for alternate location.

5. Slowly back tractor to cutter while using tractor's 3-point hydraulic control lever to align holes in lower 3-point lift arms with clevis hitch pin holes.
6. Shut tractor down before dismounting using **"Tractor Shutdown Procedure"** on page 13.
7. Attach lower 3-point arms to clevises with hitch pins (#2) and secure hitch pins as follows:
   - **RCF(M)3696:** With hairpin cotters (#1) as shown.
   - **RCF(M)3610, Refer to Figure 1-10 on page 19:** With linchpins (#5) in hitch pins (#1).
8. Manually adjust one of the lower 3-point lift arms up or down to level the cutter from left to right. Detailed leveling instructions are provided later. Refer to **"Deck Leveling & Height Adjustment"** on page 42.
9. 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 (Semi-Mount)

Refer to Figure 1-17 on page 26:

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.*

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 62.

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 58.

IMPORTANT: Check driveline minimum collapsible length before completing **"Driveline Hook-up (Semi-Mount)"**. Structural damage to the tractor and cutter can occur if this check is not made. Refer to **"Check Driveline Collapsible Length"** on page 28.

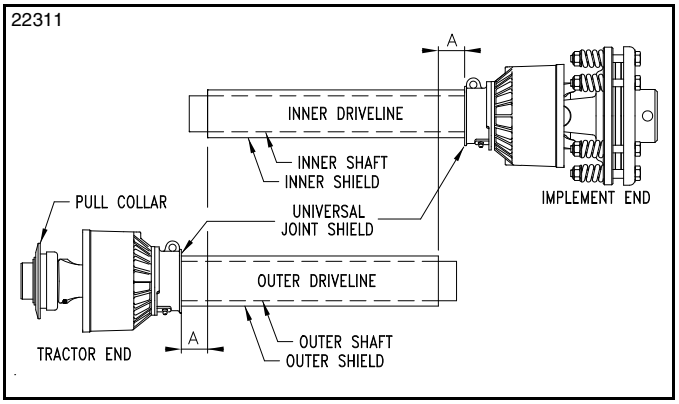
The cutter driveline fastens to the tractor power take-off shaft with pull collar coupler (#6).

1. If driveline collapsible length has not been checked, go to **"Check Driveline Collapsible Length"** on page 28. Otherwise, continue with step 2 below.
2. Park tractor and cutter on a level surface.
3. Shut tractor down before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 13.
4. Lubricate the driveline. Refer to **"Lubrication Points"** on pages 64-65.
5. If tractor drawbar interferes with the driveline during hook-up, move drawbar forward, to the side, or remove.
6. Pull back on driveline pull collar (#6) and push driveline yoke onto the tractor's power take-off shaft. Release pull collar and continue to push the driveline yoke forward until the pull collar locks in place.
7. Pull on both ends of the driveline to make sure it is secured to the tractor and implement.
8. Continue with **"Hydraulic Hook-up (Semi-Mount)"** below.

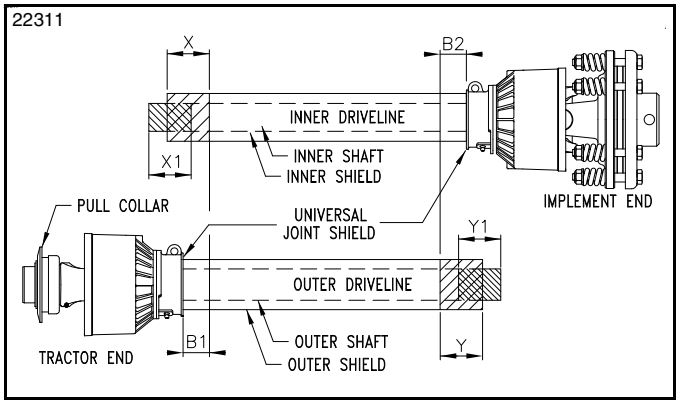
Hydraulic Hook-up (Semi-Mount)

Refer to Figure 1-17 on page 26:

1. Thread hydraulic hose (#5) through spring hose loop (#3) and attach to tractor duplex outlet.
2. Hydraulic cylinder should extend when pushing control lever. Reverse hook-up if cylinder retracts.
3. Continue with **"Check Driveline Clearance"** on page 29.



Check Driveline Minimum Length
Figure 1-18



Driveline Shortening
Figure 1-19

Check Driveline Collapsible Length

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

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

1. With the driveline attached only to the 3-point implement, remove outer driveline (tractor end) from inner driveline to separate the two profiles.
2. Park tractor and implement on a level surface.
3. Raise implement until the gearbox input shaft is level and in-line with the tractor power take-off shaft.
4. Securely block cutter at this height to keep the unit from lowering.
5. With implement resting on the support blocks, Shut tractor down according to **"Tractor Shutdown Procedure"** on page 13.

Refer to Figure 1-18:

6. Attach outer driveline to the tractor's power take-off shaft. Refer to steps 6-7 under **"Driveline Hook-up (Semi-Mount)"** on page 27.
7. Hold inner and outer drivelines parallel to each other as shown and measure distance "A".
   - If "A" is less than 1" (2.5 cm), skip to step 10.
   - If "A" is greater than or equal to 1" (2.5 cm), continue with step 8 below.
8. Remove outer driveline from the tractor power take-off shaft.
9. Continue with **"Assemble Inner & Outer Driveline Halves"** on this page.

Refer to Figure 1-19:

10. Shorten driveline as follows:
    a. Measure 1" (2.5 cm) (**"B1"** dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.
    b. Measure 1" (2.5 cm) (**"B2"** dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.
11. Remove outer driveline from the tractor power take-off shaft and inner driveline from the implement's gearbox shaft.
12. 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).
13. 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).
14. Remove all burrs and cuttings.
15. Continue with **"Assemble Inner & Outer Driveline Halves"** below.

Assemble Inner & Outer Driveline Halves

Refer to Figure 1-19:

1. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline halves.
2. If removed, reattach the driveline to the implement's gearbox input shaft. Refer to:
   - **"Driveline Installation (3-Point)"** on page 15
   - **"Driveline Installation (Semi-Mount)"** on page 23
3. Continue with driveline hook-up. Refer to:
   - **"Driveline Hook-up (3-Point)"** on page 20
   - **"Driveline Hook-up (Semi-Mount)"** on page 27.

Check Driveline Clearance

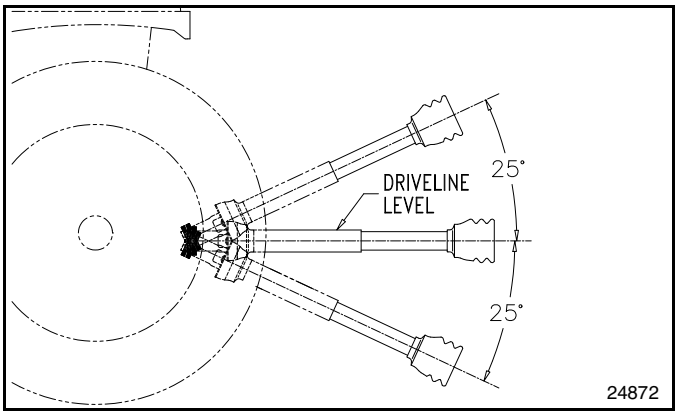
Refer to Figure 1-20:

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. Start tractor and raise implement slightly off the support blocks used to **"Check Driveline Collapsible Length"** on page 28. Drive forward until the implement is clear of the support blocks.
2. Slowly and carefully lower and raise cutter to ensure drawbar, tires, and other equipment on the tractor 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 13
   c. Move or remove drawbar if it interferes with the cutter and make any other necessary corrections.
   d. Repeat steps 1-2 to verify the cutter does not interfere with the tractor.
3. 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.
4. Without changing the 3-point lift height, shut tractor down using **"Tractor Shutdown Procedure"**.
5. Check to make sure the driveline angle does not exceed 25 degrees above horizontal as shown in Figure 1-21.
6. If driveline angle exceeds 25 degrees above horizontal, adjust 3-point lift height as follows:
   a. Adjust tractor 3-point lift limiter to the height that will keep the driveline within the recommended lift angle.
   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.
7. Start tractor and drive forward enough to clear the support blocks.
8. Lower implement to ground and shut tractor down using **"Tractor Shutdown Procedure"**.



Maximum Driveline Movement During Operation
Figure 1-20

Pull-Type Assembly & Set-Up

The following pages are **"Assembly & Set-Up Instructions"** for Pull-Type cutters. Not all instructions apply to your cutter. See **"3-Point Assembly & Set-Up"** on page 14 and **"Semi-Mount Assembly & Set-Up"** on page 23.

Tailwheel Lift Options

The cutter is shipped with an attached ratchet jack or hydraulic cylinder. Hydraulic cylinder option includes hydraulic hose, stroke control spacers and quick disconnect couplings. The ratchet jack option is lever operated at the jack.

Axle Assembly (Pull-Type)

Refer to Figure 1-21:

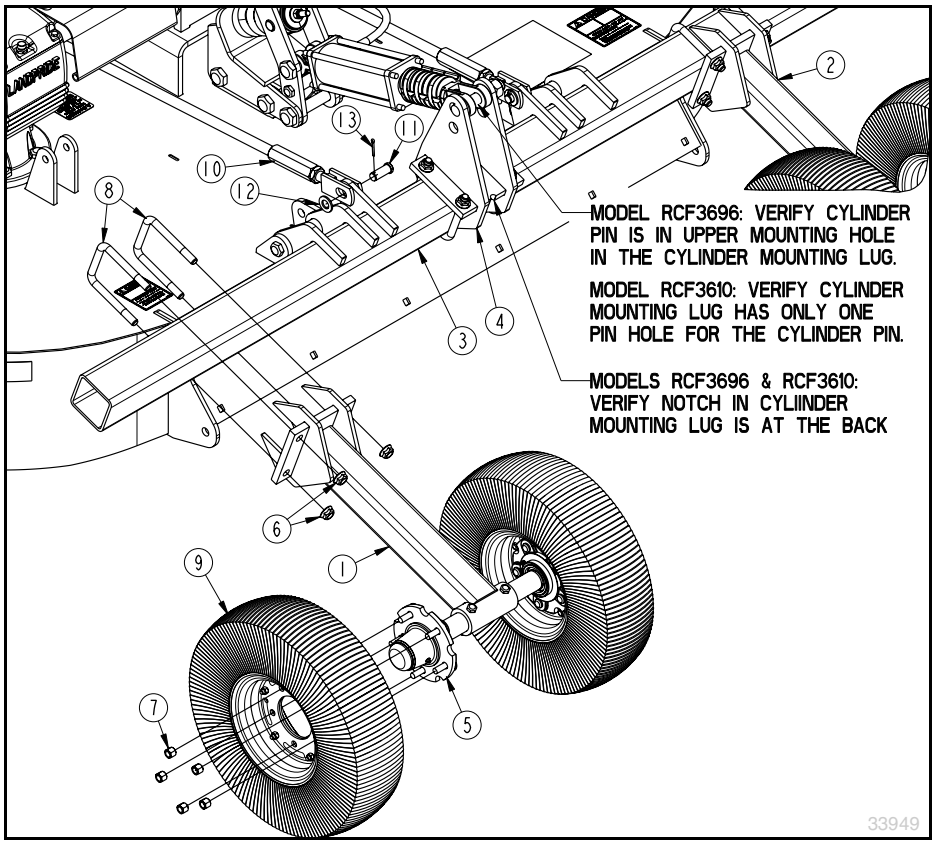
NOTE: If preferred, rear guards may be assembled before tailwheels. See **"Section 2: Assembly of Optional Equipment"** on page 36 for chain or rubber rear guard assembly instructions.

There are several hydraulic cylinder/ratchet jack mounting lugs (#4) that can be installed on axle (#3). Make sure this cutter is equipped with the correct lug and that the notch in the lug is located on the axle properly. See your nearest Land Pride dealer if mounting lug is not installed correctly or is the wrong mounting lug.

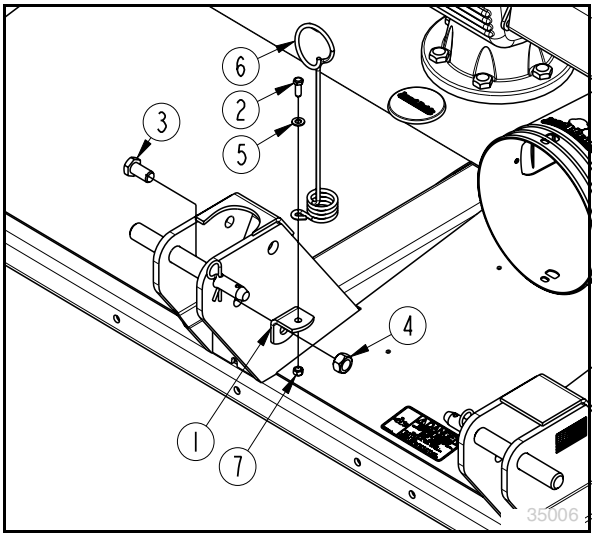
1. Verify mounting lug is correct as follows:
   - **Models RCF(M)3696 & RCF(M)3610:** Notch in cylinder mounting lug (#4) must be positioned at the back.
   - **Model RCF(M)3696:** The rod end cylinder pin must be in upper mounting hole in mounting lug (#4).
   - **Model RCF(M)3610:** The cylinder mounting lug (#4) has only one pin hole for the cylinder pin.
2. Attach left and right-hand tailwheel arms (#1 & #2) to axle (#3) with 5/8"-11 U-bolts (#8) and hex flange locknuts (#6). Do not tighten locknuts.
3. Adjust tailwheel arms to desired locations. Tighten locknuts (#6) to the correct torque.

NOTE: Pull-Type cutters are supplied with either two single tailwheels or four tailwheels arranged in dual tailwheel fashion. All tailwheels are shipped loose and must be mounted to the axle hubs (#5).

4. Attach tailwheels (#9) to axle hubs (#5) with 1/2"-20 x 5/8" high hex nuts (#7). Tighten 1/2" hex nuts to the correct torque in a crisscross pattern.
5. If leveling rods (#10) were removed while uncrating the unit, reattach them to axle (#3) as shown with clevis pins (#11), flat washers (#12), and cotter pins (#13). Bend one or more legs of cotter pins to secure it in place.



Pull-Type Tailwheel Assembly (Dual Laminated Tires Shown)
Figure 1-21



Spring Hose Loop Assembly
Figure 1-22

Spring Hose Loop (Pull-Type)

Refer to Figure 1-22:

1. Attach mounting bracket (#1) with 3/4"-10 x 1 1/2" GR5 cap screw (#3) and locknut (#4) to the right-hand clevis as shown. Tighten nut to the correct torque.
2. Attach spring hose loop (#6) to mounting bracket (#1) with 3/8"-16 x 1" GR5 cap screw (#2), flat washer (#5), and locknut (#4). Tighten nut to the correct torque.

Tongue Assembly (Pull-Type)

NOTE: If preferred, the front guards may be assembled first. See **"Assembly of Optional Equipment"** on page 36 for front guard assembly instructions.

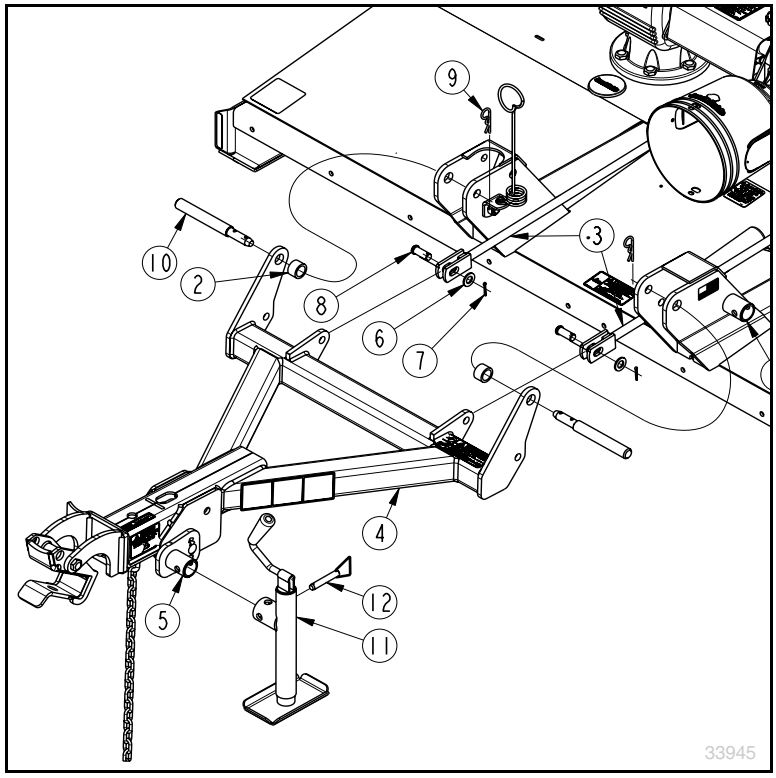
NOTE: Do not tighten hardware to the correct torque until assembly is complete.

Refer to Figure 1-23 for RCF(M)3696 and Figure 1-24 for RCF(M)3610 cutters:

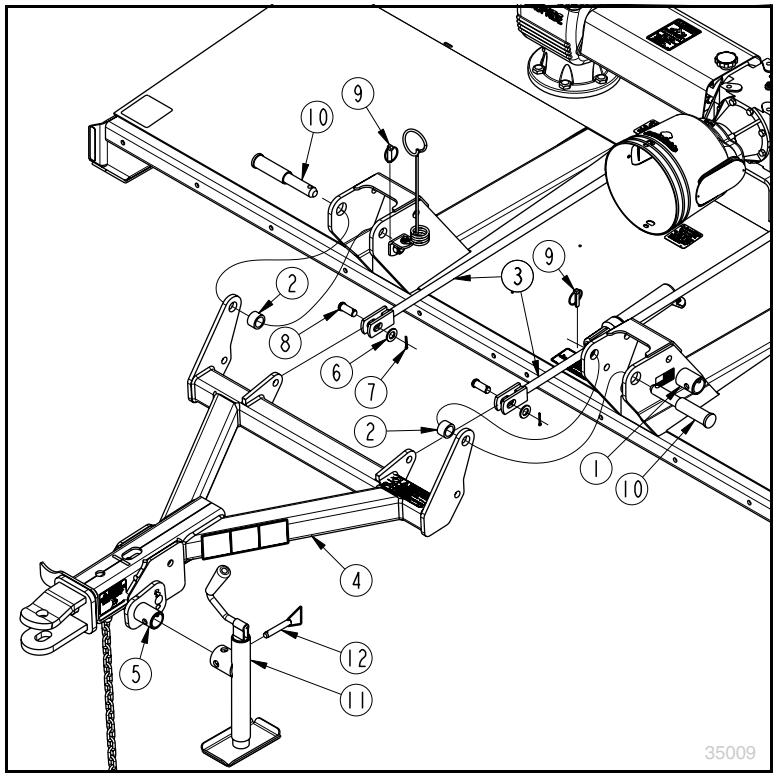
1. Assemble tongue (#4) to the deck with hitch pins (#10), spacer tubes (#2), and linchpins (#9) as shown.
2. Attach level rods (#3) to tongue (#4) with clevis pins (#8), flat washers (#6), and cotter pins (#7).

Park Jack Assembly (Pull-Type)

1. Remove park jack (#11) from storage mount (#1) and attach to adjustable jack mount (#5) with ball detent pin (#12). Make sure detent pin is fully inserted.
2. Adjust park jack to be vertical. Refer to **"Park Jack Angle Alignment"** on page 41.



RCF(M)3696 Tongue Assembly
Figure 1-23



RCF(M)3610 Tongue Assembly
Figure 1-24

Equal Angle Driveline (Pull-Type)

The following instructions are for installation of an **"Equal Angle Driveline"**. Instructions for **"Constant Velocity Driveline"** begin on page 33.

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.*
- *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:

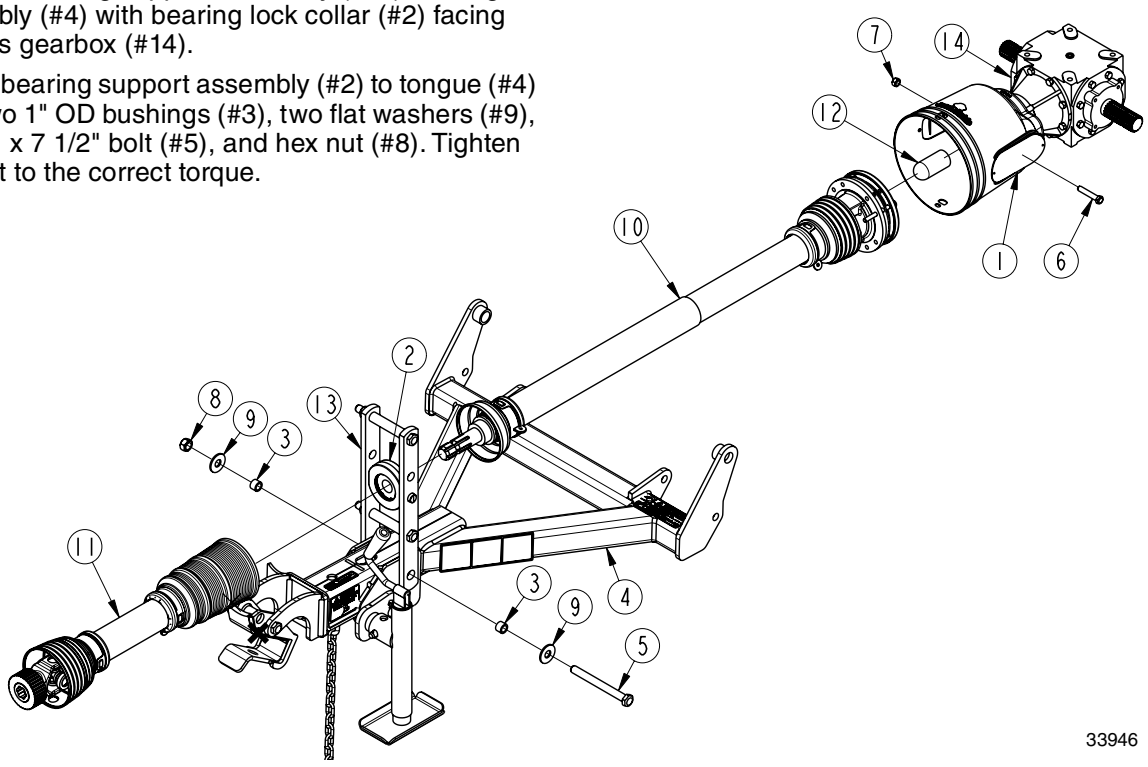
Maximum equal angle driveline turning angle is limited to 35 degrees. Exceeding this angle can cause the driveline to break and send flying objects.

IMPORTANT: The drivelines must be lubricated before putting them into service. Refer to **"Lubrication Points"** on page 62.

NOTE: Make sure bearing locking collar is facing rearward toward the cutter gearbox.

Refer to Figure 1-25:

1. Position bearing support assembly (#13) on tongue assembly (#4) with bearing lock collar (#2) facing towards gearbox (#14).
2. Attach bearing support assembly (#2) to tongue (#4) with two 1" OD bushings (#3), two flat washers (#9), 5/8"-11 x 7 1/2" bolt (#5), and hex nut (#8). Tighten hex nut to the correct torque.
3. Remove rubber protective sleeve (#12) from gearbox input shaft and discard.
4. Pry open access doors (#1) by placing a tool in the notch at the back of both doors.
5. Remove conical dog pin or bolts (#6) and fastening hardware (#7) from slip-clutch end of driveline (#10).
6. Slide slip-clutch end of driveline (#10) onto gearbox input shaft. Make certain that the slip-clutch is fully onto the shaft splines.
7. Attach slip-clutch end of driveline to gearbox input shaft with existing conical dog pin or bolts (#6) and removed hardware (#7). Tighten conical dog pin or bolts (#6) to 45-50 ft-lb torque.
8. Push/pull on driveline yoke to be sure it is securely fastened to the gearbox shaft.
9. Rotate access doors (#1) closed and snap in place.
10. Insert jackshaft of driveline (#10) through bearing lock collar (#2). Pull bearing lock collar fully against driveline (#10) to extend jackshaft splines fully through the bearing.
11. Install main driveline (#11) to jackshaft of driveline (#10) by pulling on the driveline lock collar and pushing driveline yoke forward onto the jackshaft until driveline locking collar has locked in place. Make certain lock collar has engaged by pulling on the main driveline.
12. Tighten set screw in bearing lock collar (#2).



Equal Angle Hitch Assembly
Figure 1-25

Constant Velocity Driveline (Pull-Type)

The following instructions are for installation of a **"Constant Velocity Driveline"**. Instructions for **"Equal Angle Driveline"** begin on page 32.

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.*
- *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:

Maximum constant velocity driveline turning angle is limited to 80 degrees Exceeding this angle can cause the driveline to break and send flying objects.

IMPORTANT: The drivelines must be lubricated before putting them into service. Refer to **"Lubrication Points"** on page 62.

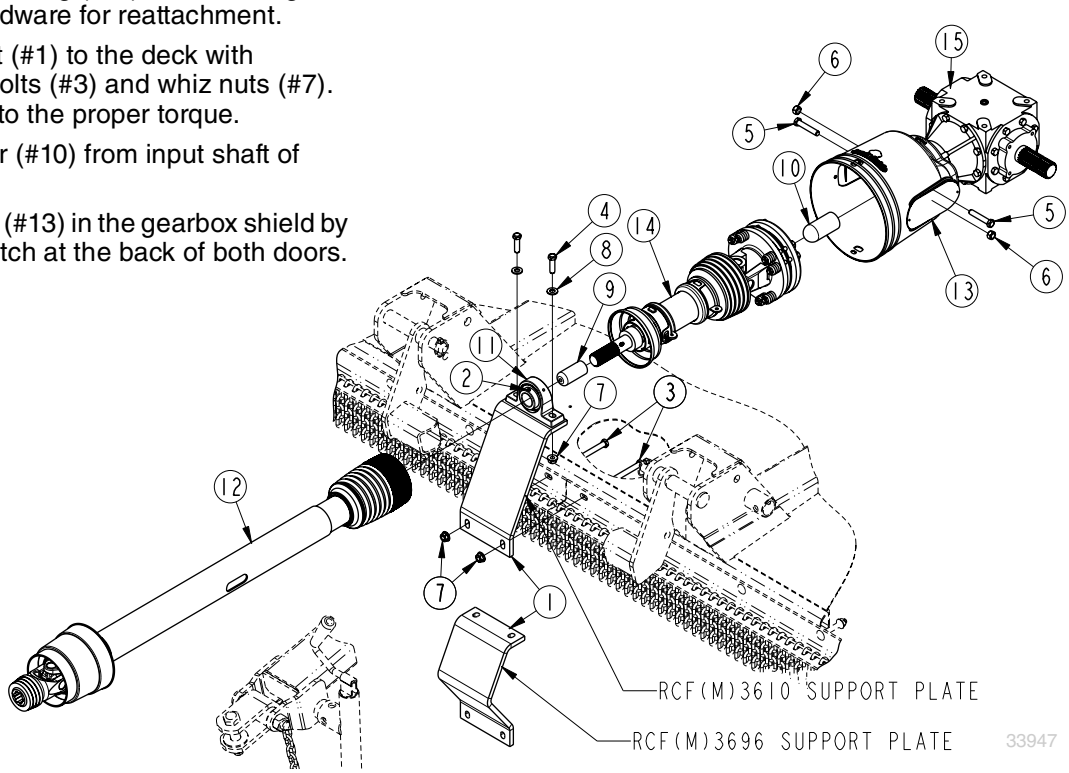
NOTE: Bearing support is to be placed in front of chain/rubber guarding.

Refer to Figure 1-26:

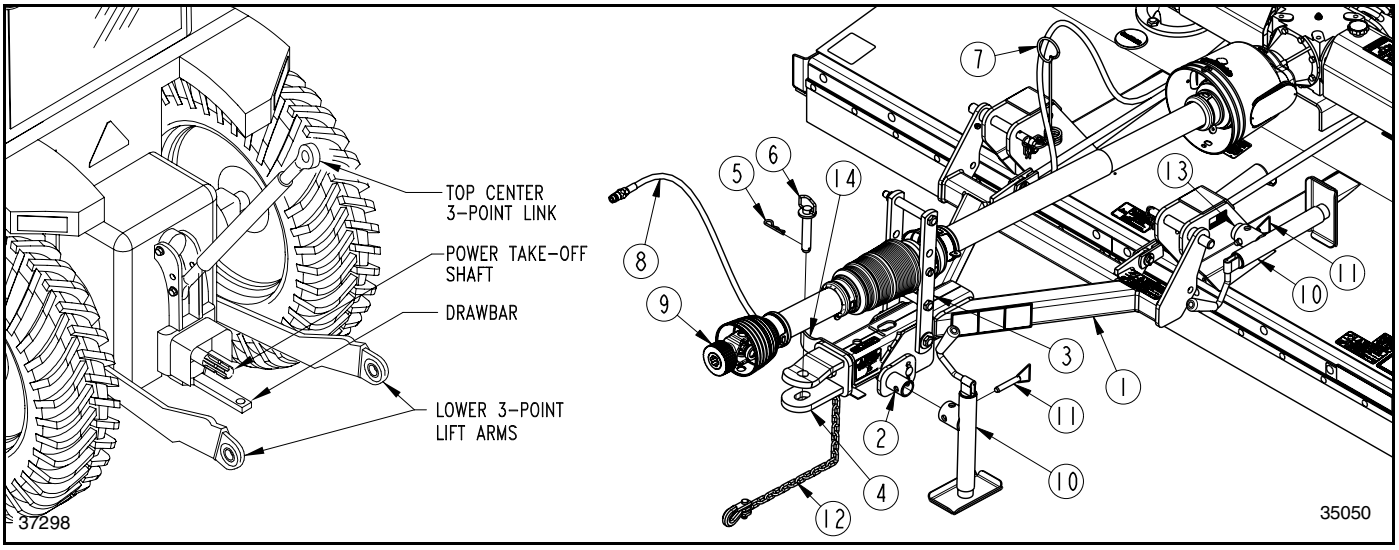
1. Remove pillow block bearing (#11) from bearing support (#1). Keep hardware for reattachment.
2. Attach bearing support (#1) to the deck with 1/2"-13 x 3 3/4" GR5 bolts (#3) and whiz nuts (#7). Tighten hex whiz nuts to the proper torque.
3. Remove shaft protector (#10) from input shaft of gearbox (#15).
4. Pry open access doors (#13) in the gearbox shield by placing a tool in the notch at the back of both doors.
5. Remove conical dog pin or bolts (#5) and fastening hardware (#6) from slip-clutch end of driveline (#14).
6. Slide slip-clutch end of driveline (#14) onto gearbox input shaft.
7. Attach slip-clutch end of driveline to gearbox input shaft with existing conical dog pin or bolts (#5) and removed hardware (#6). Tighten conical dog pin or bolts (#5) to 45-50 ft-lb torque.
8. Push/pull on driveline yoke to be sure it is securely fastened to the gearbox shaft.
9. Rotate access doors (#13) closed and snap in place.
10. Remove rubber protective sleeve (#9) from end of jackshaft driveline (#14).

NOTE: Make sure bearing locking collar (#2) is facing forward toward the tractor.

11. Fully insert jackshaft driveline (#14) into pillow block bearing (#11).
12. With locking collar (#2) facing forward, attach pillow block bearing (#11) to bearing support (#1) with 1/2"-13 x 1 3/4" cap screws (#4), flat washers (#8), and hex whiz nuts (#7). Tighten nuts to the correct torque.
13. Rotate locking collar clockwise until tight and then tighten set screw in locking collar (#2).
14. Attached bolted coupler end of main driveline (#12) to jackshaft driveline (#14). Push main driveline onto the jackshaft driveline as far as possible and then tighten the bolted connection.



Constant Velocity Hitch Assembly (RCF3610 Shown)
Figure 1-26



Pull-Type Tractor Hook-Up
Figure 1-27

Hitch Hook-Up (Pull-Type)

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.*

WARNING

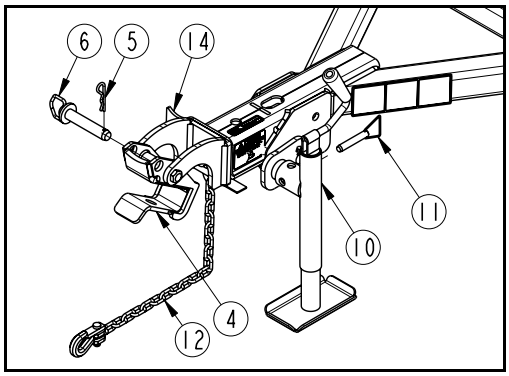
To avoid serious injury or death:

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

IMPORTANT: Distances between center of drawbar hitch hole to end of power take-off shaft and from top of drawbar to center of power take-off shaft must be maintained for Pull-Type cutters. Refer toPull-Type Hitch on page 12.

Refer to Figure 1-27:

1. Make sure you have read and follow all Safety Alerts and Important Notes on this page.
2. Make certain park jack (#10) is properly attached to mount (#2) and secured with ball detent pin (#11). If park jack is not vertical, refer to **"Park Jack Angle Alignment"** on page 41
3. Adjust drawbar length so that center of drawbar hitch pin hole and end of tractor power take-off shaft is set at the correct distance. See **"Pull-Type Hitch"** on page 12 for distance.
4. If hooking-up to the LP Performance Hitch, insert customer-supplied hitch pin (#6) through horizontal holes in clevis (#4) as shown in Figure 1-28. Secure hitch pin with hairpin cotter (#5).
5. Store the tractor's upper center 3-point link in its storage hook.
6. Start tractor and raise lower 3-point arms fully up.
7. Carefully back tractor within close proximity of clevis (#4).
8. Put tractor in park or set park brake, turn off tractor engine, and remove switch key to prevent unauthorized starting before dismounting tractor.
9. Verify tractor drawbar is adjusted correctly. Refer to **"Pull-Type Hitch"** dimensions on page 12.
10. Raise or lower park jack (#10) to align clevis (#4) with tractor drawbar. Drawbar should fit between lower and upper plates of clevis.
11. Start tractor and continue to back tractor up to cutter hitch until hole in tractor drawbar and holes in hitch clevis (#4) are aligned.
12. Put tractor in park or set park brake, turn off tractor engine, and remove switch key.
13. Insert hitch pin (#6) through clevis (#4) and tractor drawbar. Secure hitch pin with hitch pin keeper (#5). One inch diameter hitch pin (#6) and hitch pin keeper (#5) are customer supplied.



LP Performance Hitch Hook-Up
Figure 1-28

14. **Refer to Figure 1-28:** If hooking-up to the LP Performance Hitch, remove hairpin cotter (#5) and hitch pin (#6) from clevis (#4).
15. Lower park jack (#10) until cutter tongue (#1) is supported by tractor drawbar.

IMPORTANT: Always store park jack on the deck storage holder and not on the hitch. Storing park jack on the hitch can damage the jack.

16. Fully retract park jack (#10), remove ball detent pin (#11), and store park jack attached to storage holder (#13) on the cutter deck with ball detent pin securing the park jack.
17. If needed, collapse driveline by pushing tractor end of driveline toward the cutter gearbox.
18. Pull back on yoke lock collar (#9) and slide yoke over the tractor's power take-off shaft.
19. Release lock collar (#9) and continue to push yoke end of driveline onto the tractor power take-off shaft until lock collar snaps in place.
20. Driveline (#5) should be moved back and forth to ensure both ends are secured to tractor and gearbox shafts. Reattach any end that is loose.

Safety Chain Hook-Up For Pull-Type

Refer to Figure 1-27 on page 34:

When towing implements on public roads, use safety chain (#12) with tensile strength equal to or greater than gross weight of implement being towed. This will control the implement in the event the hitch pin is lost.

After attaching safety chain (#12) to the tractor, make a trial run by driving tractor to the right and to the left for a short distance to check safety chain adjustment. If necessary, re-adjust chain length to eliminate a tight or loose chain. Make sure chain hook is securely locked in place.

Hydraulic Hook-Up (Pull-Type)

⚠ WARNING

To avoid serious injury or death:

Hydraulic fluid under high pressure will penetrate the skin 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. If an accident occurs, seek immediate emergency medical care or gangrene may result. DO NOT DELAY.

Refer to Figure 1-27 on page 34:

1. Route hydraulic hose (#8) through spring hose loop (#7) and attach to tractor hydraulic outlet.
2. If cutter is provided with a CV driveline, route hydraulic hose beneath trunnion support (#3).
3. Check driveline for adequate clearance under all ranges of cutter height.
   a. With driveline attached to tractor and cutter, slowly raise and lower cutter to its upper and lower limits while observing clearances between hitch and driveline.
   b. Adjust tractor drawbar height and/or length if driveline interferes. See Figure 1-1 on page 12 for correct drawbar dimensions.
4. Cycle hydraulic system by extending and retracting lift cylinder several times. It may be necessary to purge hydraulic system of trapped air if operation is sluggish. Refer to **"Purge Hydraulic System (Pull-Type)"** on this page.

Purge Hydraulic System (Pull-Type)

⚠ 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 hydraulic cylinder to purge trapped air from the hydraulic system.
4. After all air is purged from the hydraulic system and all hydraulic pressure is relieved, tighten hose fitting at the hydraulic cylinder.

Chain Safety Guards (Optional)

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. Double row chain guards should be used when cutting along roadways and in areas where people may be present. 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.

NOTE: Do not tighten hardware until assemblies are complete. Refer to **"Torque Values Chart"** on page 70.

Front Chain Guards

Refer to Figure 2-2:

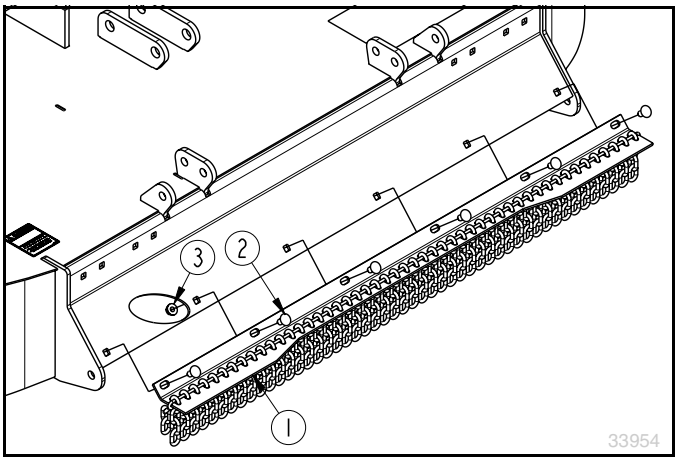
NOTE: The two carriage bolts "A" are not used if CV driveline option is included. See **"Constant Velocity Driveline (Pull-Type)"** on page 33.

1. Locate Single or Double Chain Guards (#1 & #2) with notched ends out. Attach chain guards and reflector bracket (#5) to the deck with 1/2" -13 x 3 1/2" long carriage bolts (#3) and hex whiz nuts (#4).
2. If Constant Velocity driveline is included, attach bearing support to front chain guards using steps 1 & 2 on page 33 for installation instructions.
3. Tighten hex whiz nuts (#4) to the correct torque.

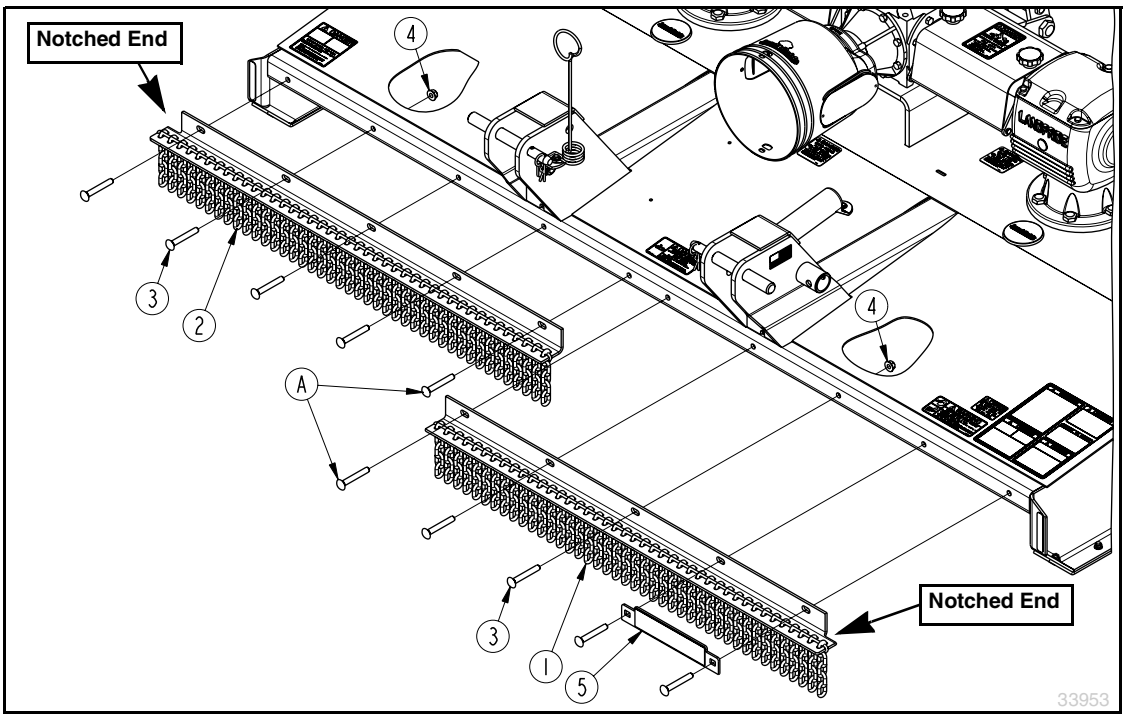
Rear Chain Guard

Refer to Figure 2-1:

1. Install Single or Double Rear Chain Guard (#1) to the deck rear with 1/2" -13 x 1 1/2" carriage bolts (#2), and 1/2" flange nuts (#3).
2. Tighten hex whiz nuts (#3) to the correct torque.



Rear Chain Guard (RCF(M)3696 Double Chain Shown)
Figure 2-1



Front Chain Guard (RCF(M)3696 Single Chain Shown)
Figure 2-2

Rubber Safety Guards (Optional)

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. Double row chain guards should be used when cutting along roadways and in areas where people may be present. 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.

NOTE: Do not tighten hardware until assemblies are complete. Refer to **"Torque Values Chart"** on page 70.

Front Rubber Guards

Refer to Figure 2-4:

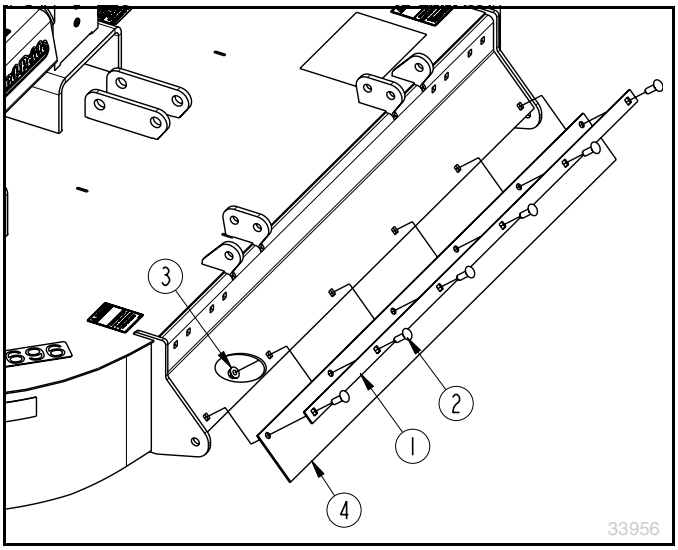
NOTE: The two carriage bolts "A" are not used if CV driveline option is included. See **"Constant Velocity Driveline (Pull-Type)"** on page 33.

1. Attach front Rubber Deflectors (#1) and reflector bracket (#4) to the deck front with 1/2" -13 x 3 1/2" long carriage bolts (#2) and hex whiz nuts (#3).
2. If Constant Velocity driveline is included, attach bearing support to front rubber guards using steps 1 & 2 on page 33 for installation instructions.
3. Tighten hex whiz nuts (#3) to the correct torque.

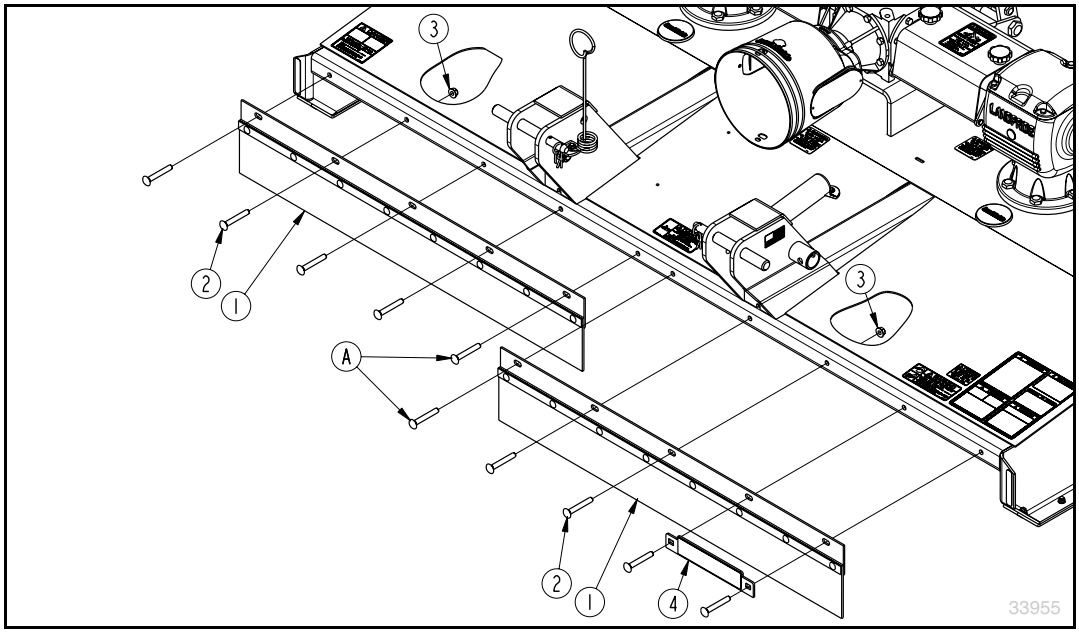
Rear Rubber Guard

Refer to Figure 2-3:

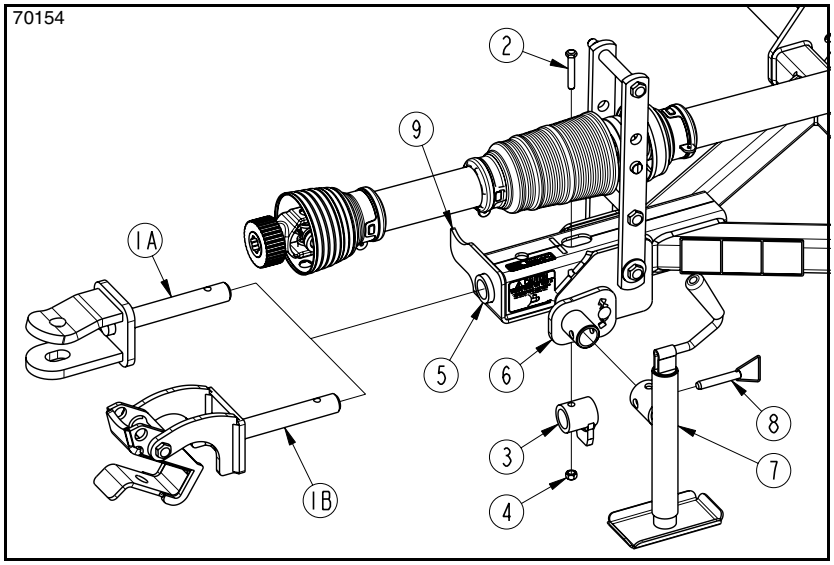
1. Attach rear rubber guard (#4) and rear guard strap (#1) to the deck rear with 1/2" -13 x 1 1/2" long carriage bolts (#2), and hex whiz nuts (#3).
2. Tighten hex whiz nuts (#3) to the correct torque.



Rear Rubber Guard (RCF(M)3696 Shown)
Figure 2-3



Front Rubber Guard (RCF(M)3696 Shown)
Figure 2-4



Land Pride Performance Hitch
Figure 2-5

Pull-Type Hitch Options

The RCF3096, RCF3010, & RCFM3010 cutters have two hitch options, swivel clevis hitch shown in Figure 2-6 or Land Pride Performance hitch shown in Figure 2-7. See your nearest Land Pride dealer should you want to change your hitch set-up.

Refer to Figure 2-5:

The driveline is cradled on support rest (#9) when unhooked from the tractor power take-off shaft. Jack mount (#6) can be adjusted to position park jack (#7) vertical to support the cutter hitch.

Swivel Clevis Hitch

Refer to Figure 2-6:

The hitch has a bent lower lip to allow single-person hook-up and can swivel side-to-side about the tractor drawbar. Pivoting up and down at the hitch is limited to the lower slot in the clevis and hole size in the drawbar. Customer to supply hitch pin and hitch pin keeper.

Land Pride Performance Hitch

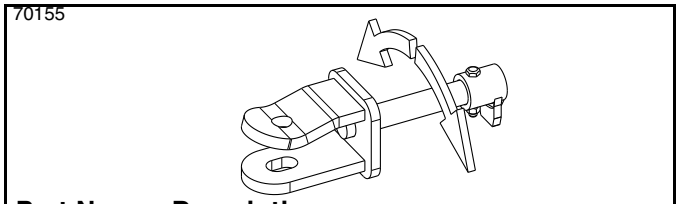
Refer to Figure 2-7:

The LP Performance Hitch is a drawbar friendly, self-leveling hitch that pivots up and down, and side-to-side. It has a bent lower lip and horizontal holes on top for hitch pin storage to allow single-person hook-up. Customer to supply hitch pin and hitch pin keeper.

Change Out Hitches

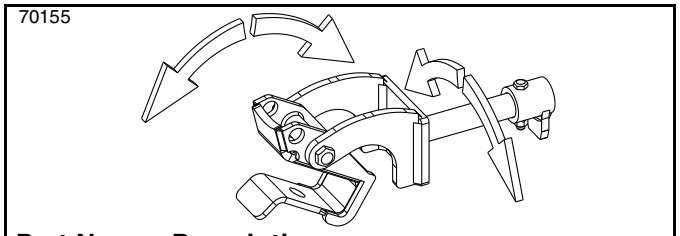
Refer to Figure 2-5:

IMPORTANT: Cutter must be parked on level ground, unhooked form the tractor, hitch supported with park jack (#7), and ball detent pin (#8) fully inserted to protect against cutter falling.



Part No.	Description
334-006A	Swivel Clevis

Swivel Clevis
Figure 2-6



Part No.	Description
334-007A	(LPH) Performance Hitch Self Leveling

Land Pride Performance Hitch
Figure 2-7

1. Remove locknut (#4) and bolt (#2).
2. Remove hitch (#1A or #1B) from tongue (#5). Bushing (#3) will fall from tongue (#5).
3. Hold supplied bushing (#3) with tab down and to the back while insert bushing through slotted hole in the bottom of tongue (#5).
4. Insert preferred hitch (#1A or #1B) through hole in the end of tongue (#5) and bushing (#3).
5. Insert existing bolt (#2) through bushing (#3) and hitch (#1A or #1B). Secure bolt with locknut (#4). Draw locknut up snug, do not torque tight.

Check Chains (Accessory)

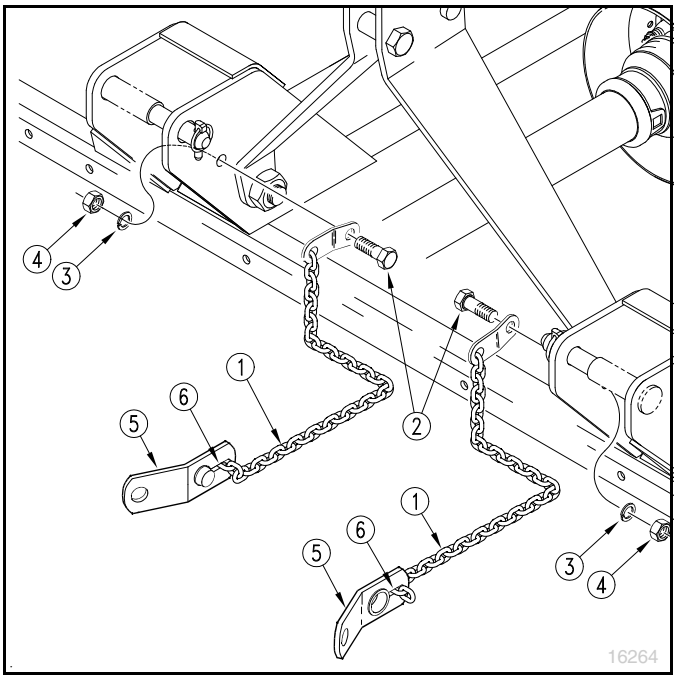
For 3-Point & Semi-Mount Cutters

(Available through Land Pride parts department.)

Refer to Figure 2-8:

Check chains are used to control the cutting height and allow the cutter to be lowered to the same preset cutting height effortlessly. Install lower end of check chain (#1) to the inner hitch ear as shown in Figure 2-8, using the 3/4"-10 x 1 1/2 long bolts (#2), lock washers (#3) and nuts (#4). Tighten securely. Install chain lugs (#5) on either side of the tractor top link mount using pin (not supplied). Cutting height is then set by placing proper chain link in key slot (#6).

NOTE: For additional safety in transport, raise cutter as high as possible, and shorten check chains to prevent inadvertent falling in transport.



Check Chain Assembly
Figure 2-8

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Park Jack Angle Alignment

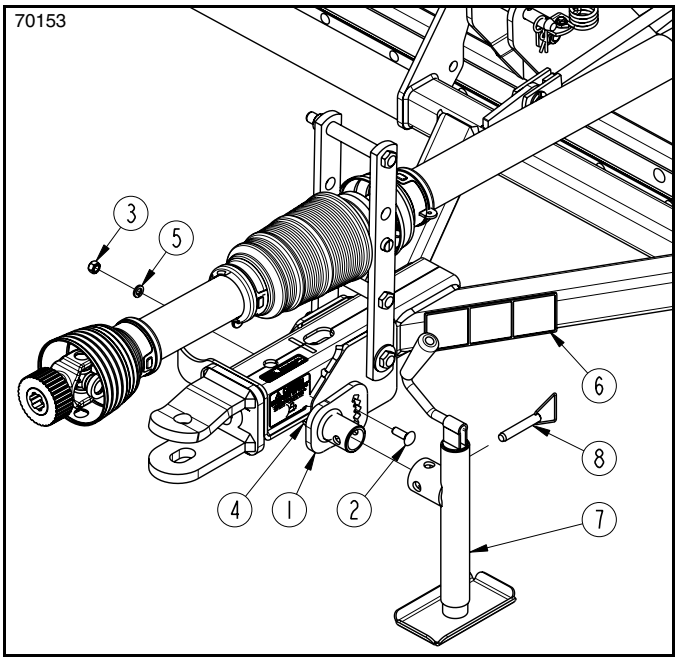
Refer to Figure 3-1:

The jack mount angle should be adjusted to position the park jack vertical while supporting the cutter hitch. This angle will vary depending on the number and size of stroke control spacers placed on the lift cylinder rod.

NOTE: If cutter is not hitched securely to a tractor, support blocks should be placed under the skid shoes close to the front to support cutter while aligning the park jack vertically.

NOTE: Refer to decal (#6) and instructions below for jack alignment and torque value instructions.

1. With cutter hitched to a tractor, lower cutter to storage height.
2. Shut tractor down properly before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 13.
3. Install park jack (#7). See **"Park Jack Assembly (Pull-Type)"** on page 31. Check jack angle. If jack is vertical, skip to step 9, otherwise, proceed with step 4 below.
4. Remove hex nut (#3), lock washer (#5) and carriage bolt (#2).
5. Loosen 1" hex nut (#4). Do not remove.
6. Rotate jack mount (#1) to align jack as near vertical as possible.
7. Replace 1/2"-13 x 1 1/2" GR5 carriage bolt (#2) and secure with lock washer (#5) and hex nut (#3). Tighten hex nut to the correct torque.
8. Tighten 1" hex nut (#4) to 645 ft-lbs.
9. If moving cutter, skip to step 10. If unhooking cutter, see **"General Operating Instructions"** on page 54 for detailed instructions.
10. If cutter is to be moved, remove park jack (#7) from hitch frame and attach it to the left-hand wing storage base. Make sure base of park jack is level with or lower than the head, especially after the wings are folded up. See cover picture for correct positioning.



Park Jack Angle Alignment
Figure 3-1

Deck Leveling & Height Adjustment

Depending on your cutter set-up, instructions for leveling the deck and adjusting cutting height will vary. Follow instructions for your particular cutter set-up. Refer to:

3-Point With Beam Arms on page 42

3-Point or Semi-Mount With Rear Axle on page 44

Pull-Type With Rear Axle on page 46

3-Point With Beam Arms

The following instructions are for leveling and setting the cutting height of 3-point mounted cutters with tailwheels mounted on beam arms. There are four primary adjustments that should be made prior to actual field operations:

- **Level Left To Right**
- **Cutting Height Adjustment**
- **Level Front To Back**
- **Center Link Adjustment**

Proper adjustment of each of these items will provide higher efficiency, improved cutting performance and longer blade life.

WARNING

To avoid serious injury or death:

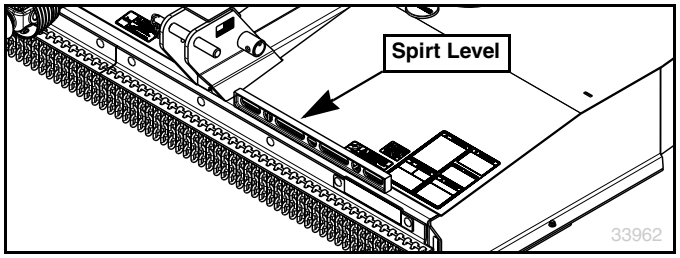
Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.

Level Left To Right

Refer to Figure 3-2:

The Rotary Cutter must operate level from side to side at all times. Make certain gauge wheels are adjusted to identical heights before adjusting lower 3-point lift arms.

1. Locate tractor and cutter on a flat level surface.
2. Use tractor's hydraulic 3-point control lever to lower cutter until tailwheels make contact with ground.
3. Place a spirit level or other suitable leveling device across the front of the deck.
4. Adjust either one or both of the tractor's lower 3-point lift arms up or down to level the deck from left to right. Some tractors have only a single adjustable lift arm.



Deck Leveling
Figure 3-2

Cutting Height Adjustment

WARNING

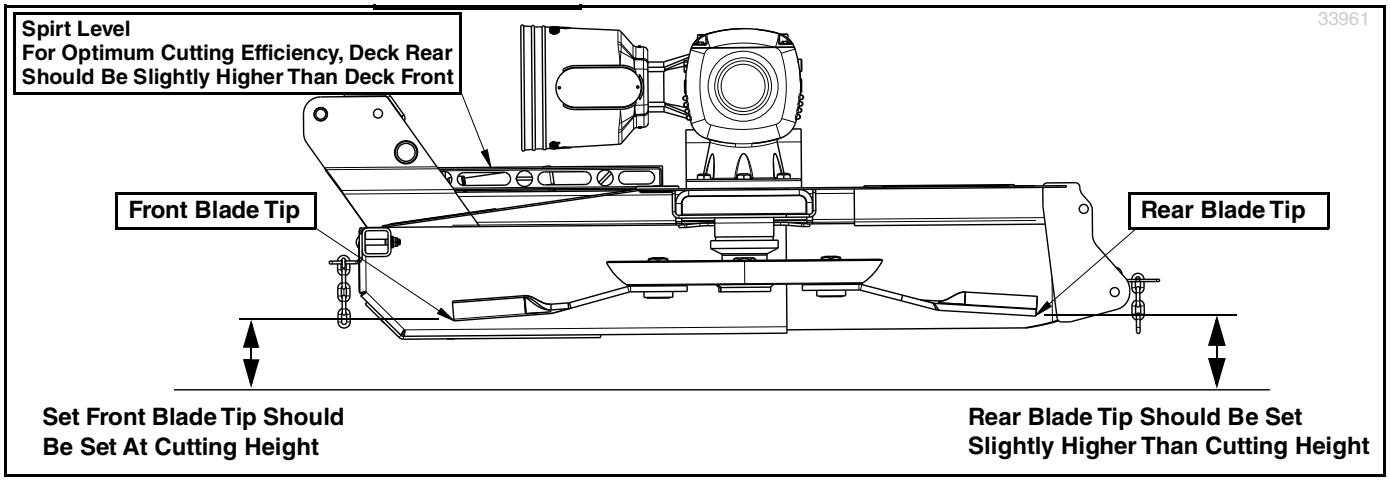
To avoid serious injury or death:

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

IMPORTANT: The front blade tip should be slightly lower than the rear blade tip (about 1" (25 cm) lower) If not, the cutter is subject to continuous material flow under it's deck causing horsepower loss, grass clumps, blade wear, and frequent blade sharpening.

Refer to Figure 3-3:

1. With gloves on, carefully rotate blade tips on one side of the cutter to 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 lever, raise or lower the 3-point arms until the front blade tip is at the desired cutting height.



Cutting Height and Deck Leveling Front to Back
Figure 3-3

4. The top center link should be loose when deck rear is supported by the tailwheel. If not, lengthen center link until loose. Final adjustment will be made later.
5. Set tractor's 3-point control lever stop once the 3-point arms are properly adjusted.

Level Front To Back

Refer to Figure 3-3 on page 42:

NOTE: The unit cuts most efficiently if front of cutter is slightly lower than back of cutter.

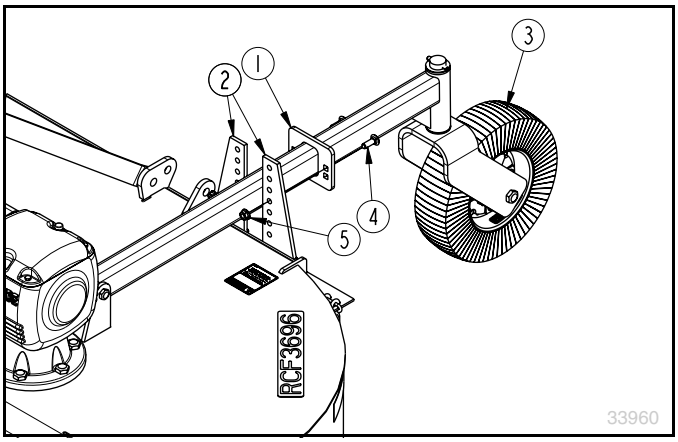
With Rotary Cutter lowered to approximate cutting height, measure distance from end of front blade cutting tip to ground and from end of rear blade cutting tip to ground. The tailwheel must be adjusted up or down if the rear blade tip is one of the following:

- Same distance off the ground as the front blade.
- Lower than the front blade.
- More than 1" (2.5 cm) higher off the ground than the front blade.

Refer to Figure 3-4:

Adjust tailwheel if cutting height is too high or too low.

1. Use the tractor's 3-point hydraulic control lever to lift the cutter until tailwheel (#3) clears the ground.
2. Remove existing hardware; 1/2" -13 x 1 1/2" long carriage bolts (#4) and 1/2" flange nuts (#5).
3. Adjust tailwheel (#3) up or down to the desired cutting height by repositioning adjusting plate (#1) against mounting brackets (#2) and replacing carriage bolts (#4) and hex flange nuts (#5).
4. Tighten 1/2" flange nuts (#5) to the correct torque. Refer to **"Torque Values Chart"** on page 70.
5. Recheck cutting height. If required, repeat **"Cutting Height Adjustment"** instructions on page 42 and instructions for **"Level Front To Back"** on this page.

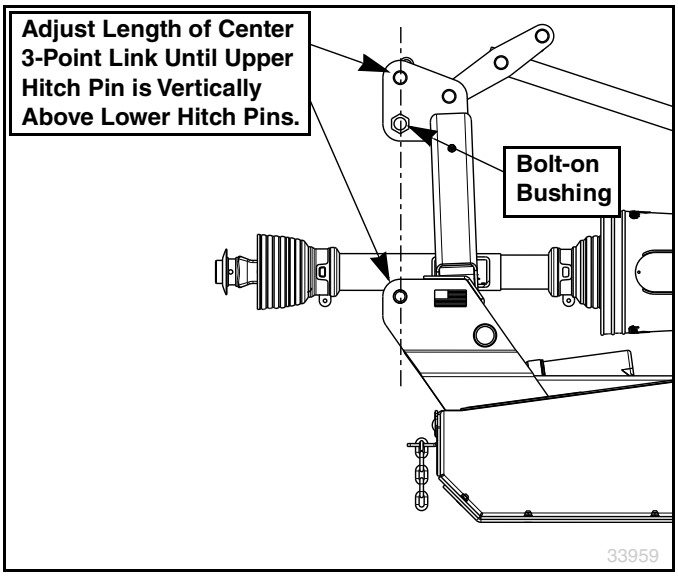


3-Point Cutter Height Adjustment
Figure 3-4

Center Link Adjustment

Refer to Figure 3-5:

1. Lower cutter deck to preset cutting height.
2. Adjust length of top center 3-point link until upper hitch pin is vertically above lower hitch pins.
3. Lock center 3-point link in this position.



3-Point Cutter Height Adjustment
Figure 3-5

3-Point or Semi-Mount With Rear Axle

The following instructions are for leveling and cutting height adjustments for 3-Point or Semi-Mount cutters with rear axles. There are three primary adjustments that should be made prior to actual field operations:

- **Level Left To Right**
- **Cutting Height Adjustment**
- **Level Front To Back**

Proper adjustment of each of these items will provide higher efficiency, improved cutting performance and longer blade life.

WARNING

To avoid serious injury or death:

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

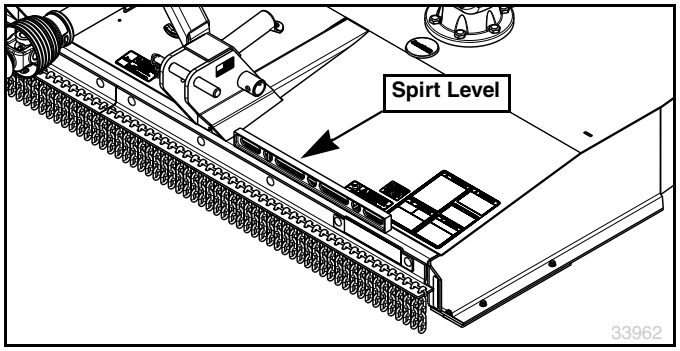
Level Left To Right

This adjustment should be made with cutter hooked to the tractor that will be used for field operations

1. Having completed **"Tractor Hook-up"**, locate tractor and cutter on a flat, level surface.
2. Use tractor's hydraulic 3-point control to lower the cutter until the front of the skid shoes are 2 to 3 inches off the ground.

Refer to Figure 3-6:

3. Place a spirit level or other suitable leveling device across the front of the deck.
4. Adjust either one or both of the tractor's lower lift arms up or down to level the deck from left to right. Some tractors have only a single adjusting crank.



Deck Leveling
Figure 3-6

Cutting Height Adjustment

Refer to Figure 3-7:

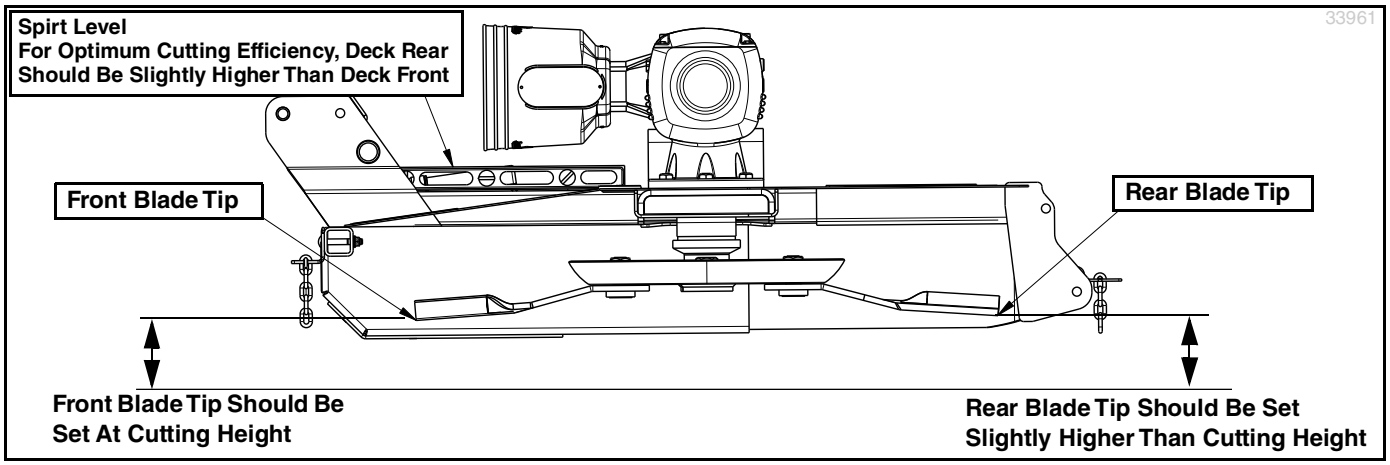
WARNING

To avoid serious injury or death:

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

IMPORTANT: The front blade tip should be slightly lower than the rear blade tip (about 1" (25 cm) lower) If not, the cutter is subject to continuous material flow under it's deck causing horsepower loss, grass clumps, blade wear, and frequent blade sharpening.

1. With gloves on, carefully rotate blade tips on one side of the cutter to the position shown in Figure 3-7.
2. Measure distance from end of blade (cutting tip) to ground. This distance is the cutting height.
3. Using tractor's 3-point hydraulic control lever, raise or lower the 3-point arms until the front blade tip is at the desired cutting height.
4. Set tractor's 3-point hydraulic control stop once the tailwheel and 3-point arms are properly adjusted.



Cutting Height & Deck Leveling Front To Back
Figure 3-7

Level Front To Back

Refer to Figure 3-7 on page 44:

> **NOTE:** The cutter cuts most efficiently if the front of the cutter is slightly lower than the back.

Rear lift mechanism for Semi-Mount units can be either a ratchet jack (#1) or hydraulic cylinder (#2). Adjust rear lift mechanism to change the levelness from front to back.

1. Place a spirit level or other suitable leveling device on one of the main deck channels to check deck profile. Deck profile should be slightly higher at the back than at the front.

Refer to Figure 3-8:

2. Raise or lower deck rear with ratchet jack (#1) or hydraulic cylinder (#2) as follows:

   Ratchet Jack Instructions

   a. Raise or lower deck rear with ratchet jack (#1) by setting mechanism in the jack handle.

   b. Pump jack handle to raise or lower deck rear until deck is slightly higher at the back than at the front.

   c. If ratchet jack is working opposite of what is needed, reset mechanism in jack handle and return to pumping the jack handle.

   Hydraulic Cylinder Instructions

   a. Stroke control spacers (#3) are included with hydraulic cylinder (#2). They consist of cast aluminum halves with spring clips to hold the two halves together.

   b. With tractor hydraulics, extend hydraulic cylinder to free up space on the cylinder rod.

   c. Remove all stroke control spacers (#3) from cylinder rod by spreading spacers apart at the break line.

   d. Retract or extend hydraulic cylinder until deck profile is slightly higher at the back.

> **NOTE:** Removing stroke control spacers lowers the deck rear and adding spacers raises the deck rear.

   e. Select required size and number of stroke control spacers (#3) 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

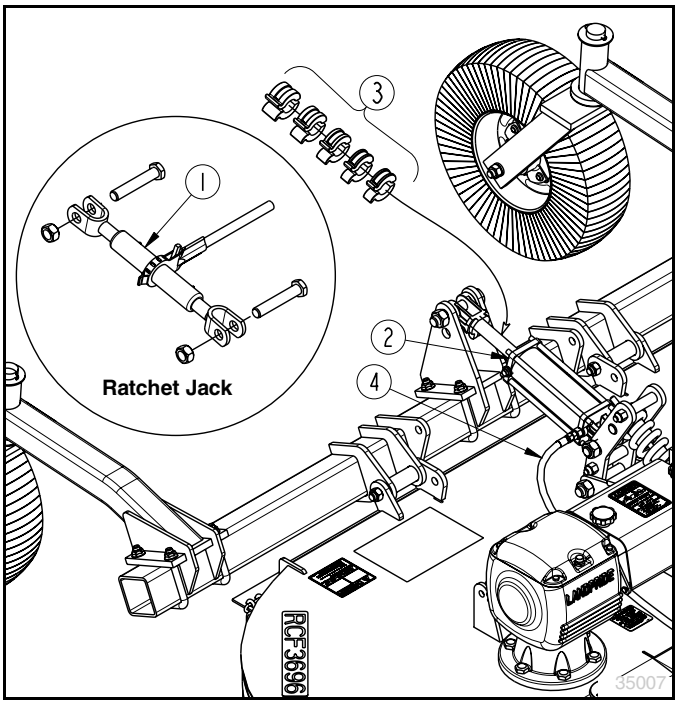
   f. Return to the tractor and raise Rotary Cutter up. Install selected size and number of stroke control spacers on the cylinder rod.

   g. Retract hydraulic cylinder until stroke control spacers are supporting the cutter weight.

   h. Recheck deck profile. If needed, adjust size and quantity of stroke control spacers until correct deck profile is achieved.

   i. Unused stroke control spacers may be stored on hydraulic hose (#4) near the hydraulic cylinder.

3. Recheck cutting height. If required, repeat **"Cutting Height Adjustment"** instructions on page 44 and **"Level Front To Back"** instructions on this page.



Cutting Height Adjustment For Semi-Mount
Figure 3-8

Pull-Type With Rear Axle

The following instructions are for leveling and setting the cutting height of a Pull-Type cutter. There are two primary adjustments that should be made prior to actual field operations:

- **Level Front To Back**
- **Cutting Height Adjustment**

Proper adjustment of each of these items will provide higher efficiency, improved cutting performance and longer blade life.

WARNING

To avoid serious injury or death:

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

Level Front To Back

1. Having completed **"Tractor Hook-up"**, locate tractor and cutter on a flat, level surface.
2. Use tractor's hydraulics to adjust cutter height until front of skid shoes are 2 to 3 inches off the ground.

Refer to Figure 3-11 on page 47:

3. Place a spirit level (#3) or other suitable leveling device on one of the main deck channels to check deck profile. Deck profile should be slightly higher at the back than at the front.

IMPORTANT: The front blade tip should be slightly lower than the rear blade tip (about 1" (25 cm) lower) If not, the cutter is subject to continuous material flow under it's deck causing horsepower loss, grass clumps, blade wear, and frequent blade sharpening.

Refer to Figure 3-9:

NOTE: Lengthening leveling rods with adjusting nuts (#2) raises the back of the cutter.

4. If cutter deck is not approximately 1" (2.5 cm) lower at the front than at the back, then loosen jam nuts (#1) on both sides of the deck and rotate leveling rod adjusting nuts (#2) equally until deck is slightly higher at the back.
5. Be sure that the right and left leveling rods are equally tight and then re-tighten jam nuts (#1).

Cutting Height Adjustment

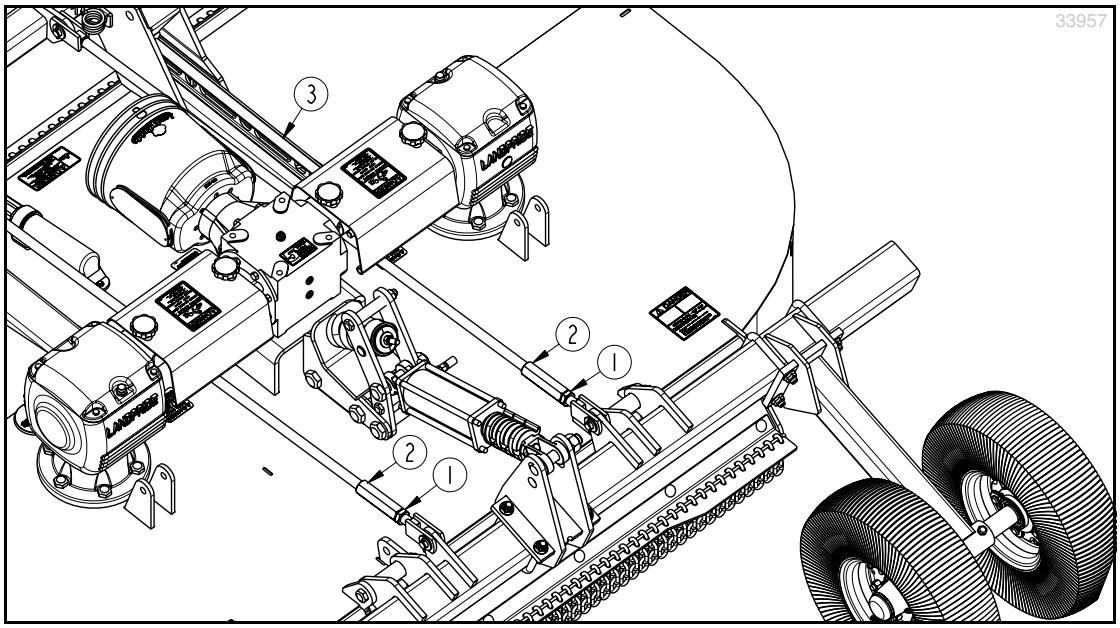
Refer to Figure 3-11 on page 47:

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.

1. With gloves on, carefully rotate blade tips on one side of the cutter to the position shown in Figure 3-11 on page 47.
2. Measure distance from end of blade (cutting tip) to ground. This distance is the cutting height.



Deck Leveling
Figure 3-9

Refer to Figure 3-10:

3. Adjust cutting height with either the ratchet jack (#1) or hydraulic cylinder (#2) as follows:

Ratchet Jack Instructions

a. Raise or lower cutter with the ratchet jack (#1) by setting the mechanism in the jack handle.

b. Pump jack handle to raise or lower cutter until set to the desired traveling height or cutting height.

c. If ratchet jack is working opposite of what is needed, reset mechanism in jack handle and return to pumping the jack handle.

Hydraulic Cylinder Instructions

a. Stroke control spacers (#3) are included with hydraulic cylinder (#2). They consist of cast aluminum halves with spring clips to hold the two halves together.

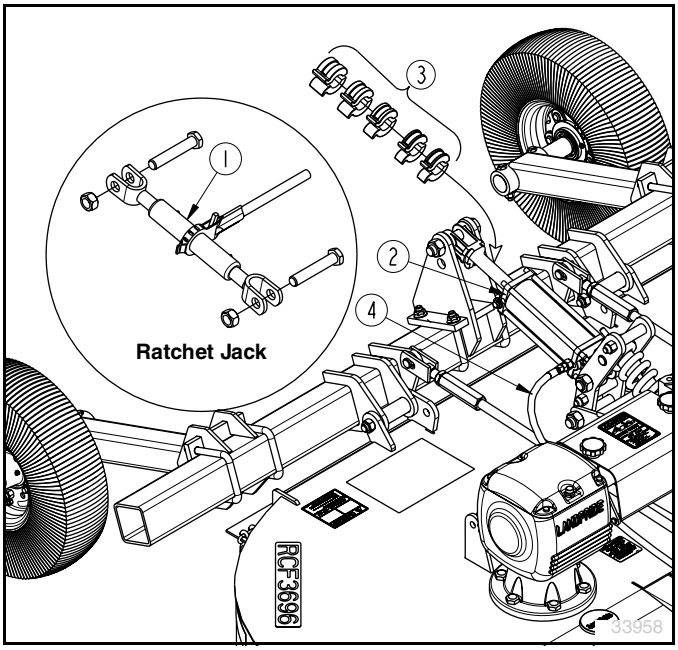
b. With tractor hydraulics, extend hydraulic cylinder to free up space on the cylinder rod.

c. Remove all stroke control spacers (#3) from cylinder rod by spreading spacers apart at the break line.

d. Using tractor hydraulic cylinder control lever, lower Rotary Cutter to the desired cutting height. Measure this distance to verify cutting height is correct.

e. Select required size and number of stroke control spacers (#3) 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



Cutting Height Adjustment For Pull-Type
Figure 3-10

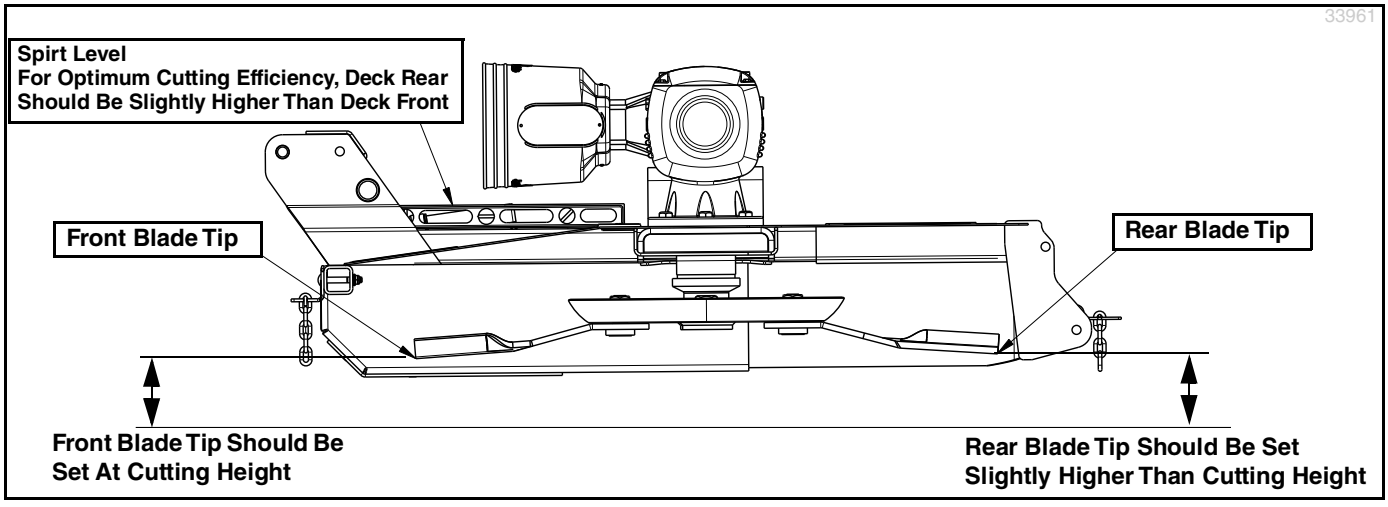
f. Return to the tractor and raise Rotary Cutter up. Install selected size and number of stroke control spacers on the cylinder rod.

g. Retract hydraulic cylinder until stroke control spacers are supporting the cutter weight.

h. Recheck deck profile. If needed, adjust size and quantity of stroke control spacers until correct deck profile is achieved.

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

i. Unused stroke control spacers may be stored on hydraulic hose (#4) near the hydraulic cylinder.



Cutting Height & Deck Leveling
Figure 3-11

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 cutter unless they have read, fully understood, and are totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, pages 1
- **Section 1: Assembly & Set-Up,** page 12
- **Section 3: Adjustments**, page 41
- **Section 4: Operating Instructions**, page 48
- **Section 5: Maintenance & Lubrication**, page 55

Perform the following inspections before using your Rotary Cutdter.

Operating Checklist

✔	Check	Page
	Read and follow all safety information carefully. Refer to "Important Safety Information".	1
	Make sure all guards and shields are in place. Refer to "Important Safety Information".	1
	Make sure there are no hydraulic leaks on the unit. Refer to "Avoid High Pressure Fluids Hazard".	3
	Read and follow hook-up instructions. Refer to "Section 1: Assembly & Set-Up".	12
	Read and make all required adjustments. Refer to "Section 3: Adjustments".	41
	Read and follow all operating procedures. Refer to "Section 4: Operating Instructions".	48
	Read and follow all maintenance instructions. Refer to "Section 5: Maintenance & Lubrication".	55
	Read and follow all lubrication Instructions. Refer to "Lubrication Points".	62
	Check cutter initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	70
	Make sure all gearboxes are properly lubricated. Refer to Gearbox lubrication.	63

Safety Information

DANGER

To avoid serious injury or death:

- *Clear area to be cut of debris and other unforeseen removable objects before cutting. Mark non-removable hazards such as tree stumps, post stubs, protruding objects, rocks, drop-offs, holes, etc. with a visible flag.*
- *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.*
- *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.*
- *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.*
- *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.*
- *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.*
- *Rotary Cutters have the ability to discharge objects at high speeds; therefore, the use of front & rear safety guards is mandatory with this cutter. Double row chain guards should be used when cutting along roadways and in areas where people may be present. 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.*
- *Always disconnect the driveline from the power take-off shaft before servicing underside of cutter. The tractor can be started with the power take-off engaged.*
- *Do not use cutter as a fan. Cutting blades are not properly designed or guarded for this use.*

WARNING

To avoid serious injury or death:

- *Allow only persons to operate this implement who have fully read and comprehended this manual, and who have been properly trained in the safe operation of this implement. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.*
- *Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds. Always remove the implement from use until the damaged driveline can be repaired or replaced.*
- *Do not operate and/or travel across inclines where the tractor and/or implement can rollover. Consult your tractor's manual for acceptable inclines the tractor is capable of traveling across.*
- *Never carry riders on the implement or tractor. Riders can obstruct the operator's view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.*
- *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.*

- *Hydraulic fluid under high pressure will penetrate the skin 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. If an accident occurs, seek immediate emergency medical care or gangrene may result. DO NOT DELAY.*
- *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.*
- *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.*
- *Select a safe ground speed that will allow adequate control of steering and stopping. Never exceed 20 mph (32.2 km/h) with attached equipment. Rough terrain requires a slower speed.*
- *Always disengage power take-off, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.*
- *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.*
- *Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level.*
- *Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris.*
- *Do not use implement to lift objects; to pull objects such as fence posts, stumps, etc; or to push objects. The unit is not designed or guarded for these uses.*
- *Do not use implement as a man lift or work platform. It is not properly designed or guarded for this use.*
- *Some tractors are equipped with two power take-off speeds. Be certain your tractor's power take-off shaft is set-up to operate the implement at its rated power take-off speed. Do not exceed implement's rated power take-off speed. Excessive speed can damage drive components, cutter blades, and/or increase the risk of a thrown object hazard. RC models are rated for 540 rpm and RCM models are rated for 1000 rpm.*

Inspect Tractor & Cutter

Make the following inspections with cutter attached to a tractor, power take-off disengaged, and all moving components 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. Carefully raise and lower implement to ensure that the drawbar, tires, and other equipment on the tractor do not contact cutter frame or driveline.
7. Check all hoses and wires to be sure that they will not come in contact with rotating driveline.
8. With cutter resting on solid supports, power take-off disengaged, and blade rotation completely stopped:
   - Check for and remove foreign objects wrapped around blade spindles.
   - Check for nicked, bent, broken, and worn cutting blades. Replace or sharpen blades as required. Refer to **"Cutter Blade Maintenance"** on page 56.
9. Inspect Hydraulic hoses for wear, damage and hydraulic leaks. See **"Avoid High Pressure Fluids Hazard"** on page 3. Replace damaged and worn hoses with genuine Land Pride parts.

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

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 the implement at its rated power take-off speed. Do not exceed implement's rated power take-off speed. Excessive speed can damage drive components, cutter blades, and/or increase the risk of a thrown object hazard. See Specifications & Capacities for rated power take-off speed.*

10. Start tractor and raise cutter up enough to remove solid supports from under the deck.
11. Lower cutter down to a height 2 to 3 inches off the ground.
12. 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.
13. Once cutter is running smoothly, slowly increase tractor power take-off speed to 540 rpm. Stop power take-off rotation immediately if vibration occurs.
14. Investigate cause of vibration and make repairs before putting cutter back into service.

Transporting

WARNING

To avoid serious injury or death:

- *When traveling on public roads, use LED lights, slow moving vehicle sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. If implement blocks visibility of slow moving vehicle sign, relocate sign so it is visible from the back at all times. Always comply with all federal, state, and local laws.*
- *Select a safe ground speed that will allow adequate control of steering and stopping. Never exceed 20 mph (32.2 km/h) with attached equipment. Rough terrain requires a slower speed.*
- *Reduce ground speed when turning and leave enough clearance to avoid making contact with obstacles such as buildings, trees, fences, etc.*
- *Always disengage power take-off and wait for the driveline to stop rotating before raising the implement to the transport position.*

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

Blade Engagement & Disengagement

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

Blade Engagement

1. Increase throttle speed just enough to get the blades rotating without stalling tractor while slowly engaging power take-off. 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, remove switch key, and wait for blades to come to a complete stop.
3. Check blades for a lock-up situation. Block cutter deck up before working under the unit. Unlock blades, remove support blocks, and repeat **"Blade Engagement"** instructions.

Blade Disengagement

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

Field Operation

DANGER

To avoid serious injury or death:

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

WARNING

To avoid serious injury or death:

Do not back pull-type cutter into solid objects. The joint where the tongue is pinned to the deck will pivot upward causing damage to the deck and driveline.

IMPORTANT:

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

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

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

Periodically disengage power take-off, turn off tractor, remove key and 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 70.

1. Thoroughly inspect area to be cut for debris and unforeseen objects. Mark any potential hazards.
2. Follow **"Blade Engagement"** instructions on this page to start cutter blades turning.
3. Optimum ground speed depends on density of material, horsepower, and terrain. Always operate tractor at cutter's full-rated power take-off speed in a gear range (2 to 5 mph) that allows the cutter to make smooth cuts without lugging the tractor down.
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 tractor engine off, remove key, and check for foreign objects wrapped around blade spindles. 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 70.
8. For additional information, see **"General Operating Instructions"** on page 54.

Crossing Steep Ditches & Banks

Refer to Figure 4-1:

WARNING

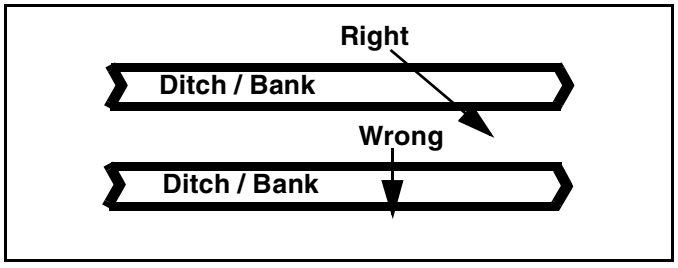
To avoid serious injury or death:

Damage to the tractor's power take-off and/or driveline can cause driveline to come loose and cause bodily injury to the operator and others.

IMPORTANT: Always cross ditches and banks at a diagonal. Never cross straight across and never back into a ditch or bank.

Cutting over ditches and backing up hills can tilt the cutter's back side up excessively resulting in "**Bottoming Out**" the driveline. Bottoming out is when the driveline shaft has shortened to the point it is pressing against the gearbox and tractor power take-off shafts. Once a driveline has bottomed out, it can not be shortened anymore without causing serious damage to the tractor power take-off components, cutter gearbox and driveline.

Do not operate a pull-type cutter at an angle exceeding 25 degrees up or down or at any angle that will force the driveline to bind and/or hit the tractor drawbar.

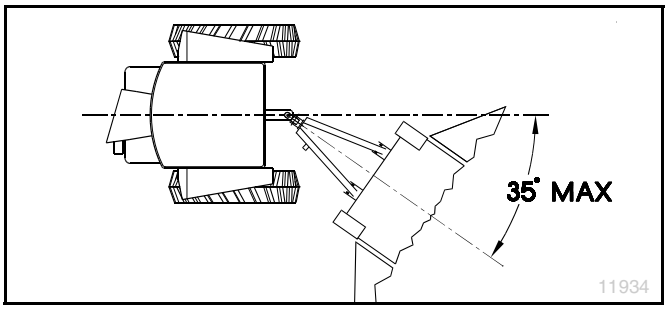


Crossing Steep Ditches and Banks
Figure 4-1

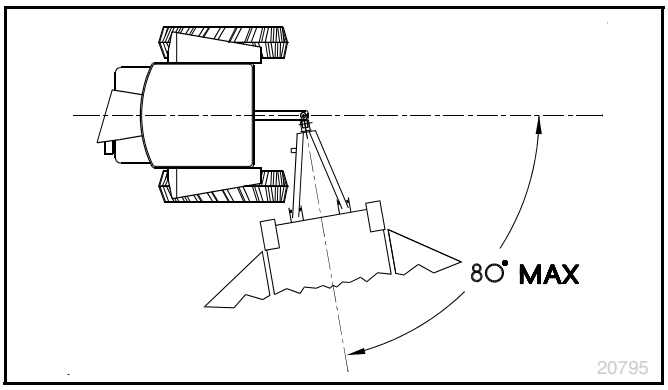
Turning Angles for Pull-Type Cutters

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

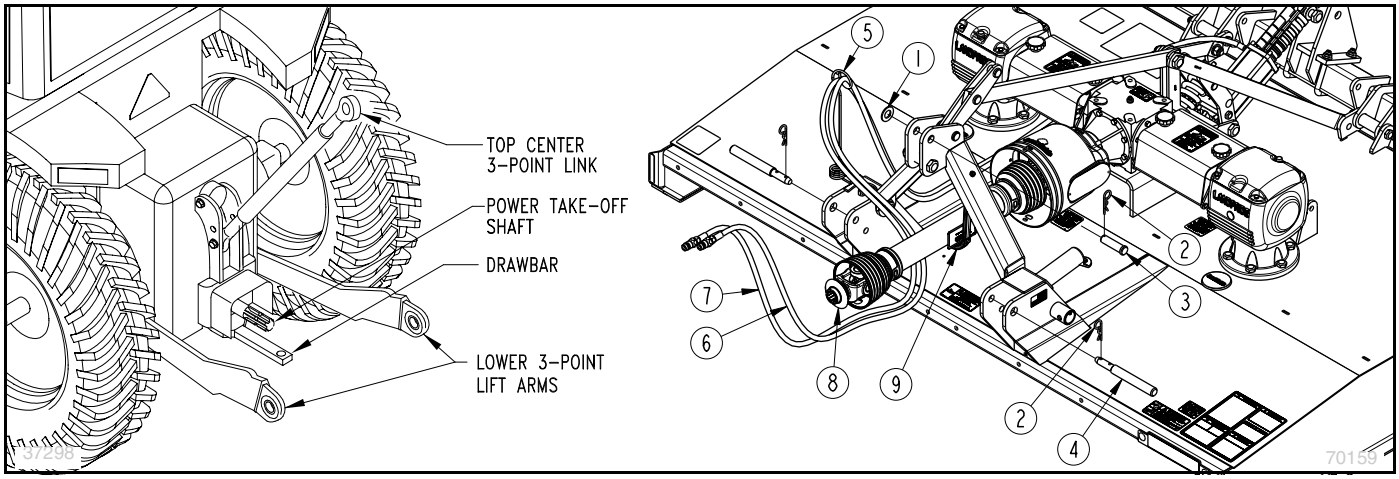
Avoid tractor-to-cutter turning angles exceeding 35 degrees if main driveline is a standard conventional drive shaft. The turning angle may be increased to 80 degrees if equipped with a constant velocity driveline shaft. These extreme angles are intended for intermittent usage only and not prolonged usage. Plan your field cutting to minimize the number of turns as well as extreme angles where turns are necessary.



Conventional U-Joint Driveline
Figure 4-2



CV Driveline
Figure 4-3



Unhook 3-Point & Semi-Mount (RCF3696 3-Point Shown)
Figure 4-4

Unhook 3-Point or Semi-Mount

Refer to Figure 4-4:

WARNING

To avoid serious injury or death:

Always disengage power take-off, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.

1. See **"Long-Term Storage"** on page 61 when storing cutter for long periods and at the end of the season.
2. Disengage power take-off, park on a level solid surface and engage tractor park brake.
3. Lower cutter to ground as follows:

   If equipped with hydraulic cylinder

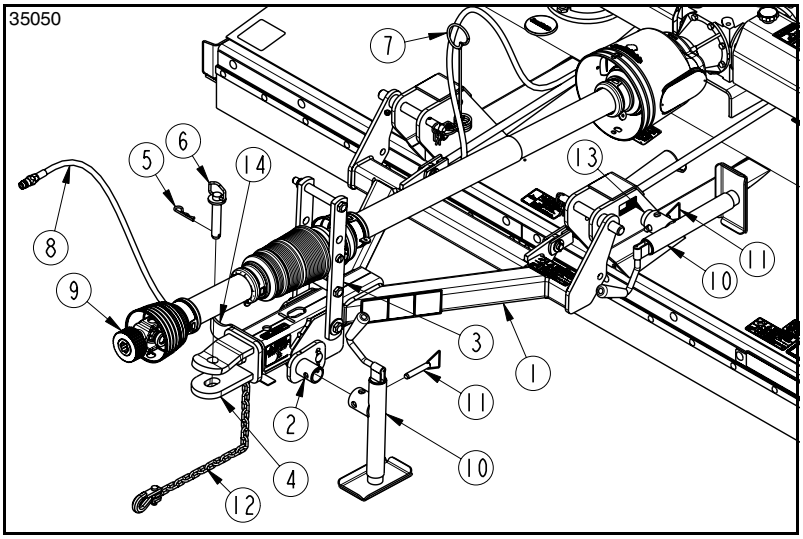
   a. Fully raise deck up to transport position, shut tractor engine off, and remove switch key. Wait for blades to stop before dismounting from tractor.

   b. Remove stroke control spacers from cylinder rod.

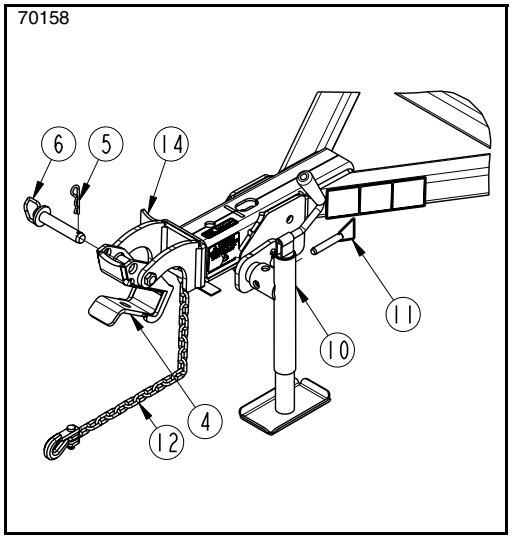
   c. Lower 3-point arms and rear axle until cutter is resting on the ground or support blocks.

   If equipped without hydraulic cylinder

   a. Lower 3-point arms until cutter is resting on the ground or support blocks.
4. Shut tractor down before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 13.
5. Move cylinder lift levers back and forth to release all hydraulic pressure at the couplers.
6. If equipped with hydraulic hoses (#6 & #7), disconnect hose from tractor. Insert couplers through spring hose loop (#5) to keep couplers out of the dirt.
7. Pull back on lock collar (#8) and pull driveline from tractor power take-off shaft.
8. Collapse driveline by pushing tractor end of driveline toward the cutter gearbox.
9. Store driveline on driveline support (#9). Do not store yoke end in the dirt.
10. Unhook 3-point or semi-mount cutter hitch from the tractor lower arms and upper center link by removing hitch pins (#3 & #4).
11. Start tractor and drive slowly forward several feet while watching to make sure no components are still hooked to the tractor.
12. Shut tractor down before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 13.
13. Reinstall hitch pins, linchpins, and/or hair pin cotters in cutter hitch for safe keeping.



Unhook Pull-Type With Standard Clevis Shown)
Figure 4-5



Unhook Performance Hitch
Figure 4-6

Unhook Pull-Type

Refer to Figure 4-5:

⚠ WARNING

To avoid serious injury or death:

- *Always disengage power take-off, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.*
- *Always place park jack on a firm surface or place a board under the park jack for additional support.*

1. See **"Long-Term Storage"** on page 61 when storing cutter for long periods and at the end of the season.
2. Park cutter on a level solid hard surface. Place tractor gear selector in park or set park brake.
3. Fully raise deck up to transport position and shut tractor down with deck raised fully up. Refer to **"Tractor Shutdown Procedure"** on page 13.
4. Remove stroke control spacers from cylinder rod.
5. Return to the tractor seat and without starting the tractor, lower cutter down until it is resting on the ground or support blocks. See **"Hydraulic Cylinder Instructions"** on page 45.
6. Replace stroke control spacers as needed to support wheels at this position.
7. Move cylinder lift levers back and forth to release all hydraulic pressure at the couplers.
8. Remove park jack (#10) from cutter deck and secure to cutter tongue by fully inserting ball detent pin (#11) through park jack and mounting bracket.
9. Disconnect hydraulic hose (#8) from the tractor. Insert couplers through spring hose loop (#7) to keep couplers out of the dirt.
10. Disconnect hitch safety chain (#12) from the tractor.
11. Pull back on lock collar (#9) and pull driveline from tractor power take-off shaft.
12. Collapse driveline by pushing tractor end of driveline toward the cutter gearbox.
13. Store yoke end of driveline on the cutter hitch support rest (#14). Do not store yoke end in the dirt.
14. Adjust park jack (#10) up until hitch weight is removed from tractor drawbar.
15. Remove hairpin (#5) and hitch pin (#6) from clevis hitch (#4).
16. Replace hitch pin (#6) as follows:
    b. If unhooking standard clevis, reinstall hitch pin (#6) in clevis (#4) and secure with hairpin cotter (#5) as shown in Figure 4-5.
    c. If unhooking LP Performance Hitch, store hitch pin (#6) in horizontal holes in clevis hitch (#4) and secure with hairpin cotter (#5) as shown in Figure 4-6.
17. Start tractor and drive slowly forward several feet while watching to make sure no components are still hooked to the tractor.

General Operating Instructions

Now that you have familiarized yourself with the Operator's Manual, completed Operator's Checklist, properly attached your cutter to your tractor, made leveling adjustments, and preset cutting height, you're almost ready to use your Land Pride Rotary Cutter.

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

It's now time to do a running operational safety check. Shut the tractor off immediately and remove the key if at any time during this safety check you detect a malfunction in either the cutter or tractor. Make necessary repairs or adjustments before continuing on.

If you have a 3-point hitch model, make sure the tractor's park brake is engaged, power take-off is disengaged, and cutter is resting on the ground. Start tractor and then back tractor throttle off until engine is at low idle. With tractor's rear hydraulic lift control lever, raise cutter to transport position making sure that the power take-off shaft is not in a bind and does not come in contact with cutter frame. Lower cutter to ground and, with tractor still at low idle, engage power take-off. If everything is running smoothly at this point increase engine rpm until the tractor's engine reaches full power take-off operating speed. The RCF3696 and RCF3610 will be 540 rpm. RCFM3696 and RCFM3610 is designed to operate at 1000 rpm power take-off speed. Slowly raise cutter to transport height to make sure driveline does not bind or chatter. Then return engine to low idle, disengage power take-off, and position adjustable stops on the tractor's hydraulic lift lever so the cutter can be consistently returned to the same cutting and transport height.

If you have a pull-type or semi-mount cutter make sure the park brake is on and the cutter is on the ground in mowing position. Start the tractor and reduce engine speed to low idle. Engage power take-off and increase engine rpm until you reach full power take-off speed. If everything is running smoothly and your running safety check has been completed, you may disengage power take-off and shut tractor engine off.

You should now be ready to move to the cutting site to begin mowing. You should have inspected and only be cutting in an area you are familiar with which is free of debris and unseen objects. Never assume an area is clear and cut extremely tall grass twice to detect potential hazards. In the event you do strike an object, stop the tractor and cutter immediately to inspect the cutter. Make necessary repairs before resuming operation. It pays to inspect a new area and to develop a plan before you cut.

Normal mowing speed will be between 2-5 mph and you will need to maintain power take-off speed to produce a clean cut so make a tractor gear and range selection that will maintain this combination. Generally the quality of cut will be better at lower ground speeds; and cutting denser ground cover will create the need to slow down. In certain conditions tractor tires will roll grasses down resulting in an uneven cutting height when the grass fails to rebound before being cut. When this happens you may need to reverse the cutting direction and double cut to achieve the desired finish. You will want to 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 tractor and cutter up. Slow down in turns and avoid sharp turns if at all possible. Remember to look back often.

Now that you're prepared and well briefed you may begin cutting by:

- Reducing tractor's engine rpm and lower cutter to the preferred cutting height.
- Engage power take-off and then raise engine rpm to the appropriate power take-off speed. Begin cutting.

When it is difficult to make a wide turn and you need to reverse direction, the 3-point hitch models can be lifted into transport position to make a tight turn. Operators of pull-type or semi-mount models must plan ahead and choose a cutting pattern that allows for wider turns. Try increasing or decreasing ground speed to determine the effect on quality of cut. With a little practice you will be pleased with what you and your Land Pride cutter can do.

When you are done mowing, need to take a break, or just need to make a few adjustments to the cutter, remember to always reduce tractor's engine rpm, disengage power take-off, stop on level ground, set park brake, turn off engine, remove switch key, and stay on the tractor until the cutter blades have come to a complete dead stop.

See "**Features and Benefits**" section or **"Features & Benefits"** for additional information and performance enhancing options.

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 cutter 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:

- *Perform maintenance only on a cutter that is not running. Disengage power take-off, place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to come to a complete stop before dismounting tractor to perform maintenance.*
- *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:

- *Make sure controls are all in neutral position or park before starting the power machine.*
- *Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.*
- *Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.*
- *Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris.*
- *Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level.*

Hydraulic System

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

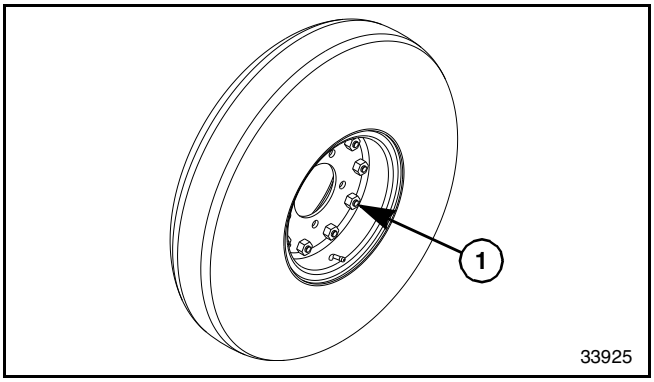
Use a clean cloth to wipe hose ends before attaching them to your tractor. Replace your tractor's hydraulic filter element at the prescribed intervals. These simple maintenances will go a long way to prevent occurrence of control valve and hydraulic cylinder problems.

Tire Maintenance

WARNING

To avoid serious injury or death:

- *Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment. When removing and installing wheels, use wheel handling equipment adequate for the weight involved.*
- *Always release all air pressure in air-filled airplane tires before removing hardware bolting the split rims together. Not doing so can cause the split rims to blow apart instantly and could result in serious injury or death.*
- *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. Do not over inflate tires.*
- *Do not weld on or heat a rim. Air pressure inside the tire can increase enough to cause an explosion. High heat can weaken and/or warp the rim, damage the tire, and destroy foam filling inside a tire.*



Air Filled Airplane Tires with split Rims
Figure 5-1

1. Check tires for low air pressure, missing nuts, missing lug bolts, wear, separated rubber, and bent, broken, or cracked wheel rims.
2. Inflate air filled tires to the proper pressure. Refer to **"Tire Inflation Chart"** on page 70.

Refer to Figure 5-1:

3. Replace wheel rims and tires as needed with genuine Land Pride parts. Do not loosen split rim hardware (#1) until all air pressure in the tire has been removed.

Cutter Blade Maintenance

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

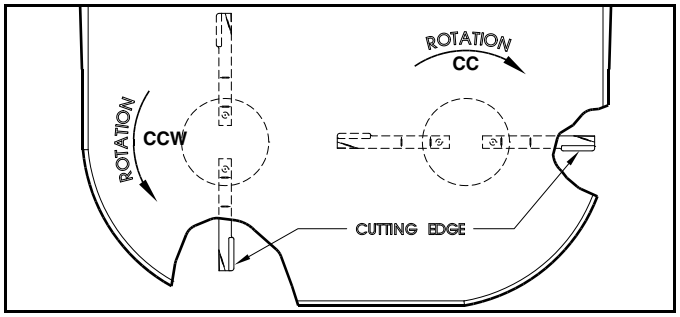
IMPORTANT: Replace cutter blades in pairs with genuine Land Pride blades only. Replacing single blades can result in an out-of-balance condition that will contribute to premature bearing wear/breakage and/or structural cracks in gearbox and/or deck.

Always inspect cutting blades before each use. Make certain they are properly installed and in good working condition. Replace any blade that is damaged, worn, bent, or excessively nicked. Never try to straighten a bent blade! Small nicks can be ground out when sharpening. Refer to Figure 5-3 on page 57 when ordering Land Pride replacement blade components.

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

Refer to Figure 5-3 on page 57:

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



Blade Positioning and Rotational Directional
Figure 5-2

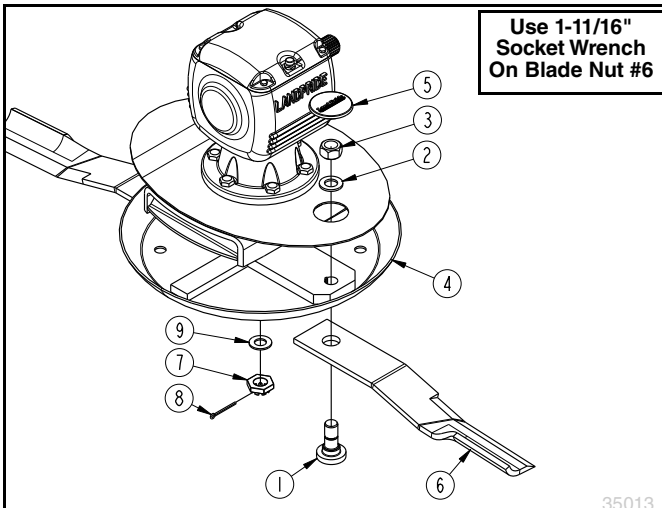
Refer to Figure 5-2:

7. Make certain when installing cutter blades that the blades on one spindle is positioned 90 degrees to the blades on the other spindle as shown in Figure 5-2.
8. Carefully check cutting edges of blades in relation to blade carrier rotation to ensure correct blade placement. Blade rotation is counterclockwise on the left side and clockwise on the right side. Airfoil (lift) must be oriented towards the top of the deck.

Refer to Figure 5-3:

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

9. Insert blade bolt (#1) through blade (#6), dish pan (#4), and flat washer (#2). Secure blade with a **new locknut (#3)** and torque to 450 ft-lbs.
10. If replacing dishpan (#4), castle nut (#7) on gearbox output shaft should be torqued to 550 ft-lbs. minimum and secured with cotter pin (#8) with both legs bent opposite directions around the nut.
11. Replace access rubber plug (#5) and reconnect main driveline to tractor power take-off shaft.



Land Pride Cutter Blade Parts

Item	Part No.	Part Description
	318-586A	BLADE BOLT KIT (Includes items 1, 2, 3, & 4 below)
1	802-277C	BLADE BOLT 1 1/8-12 x 3 7/16 WITH KEY
2	312-075D	BLADE SPACER 16 GA. (.060")
2	312-082D	BLADE SPACER 18 GA. (.048")
2	312-089D	BLADE SPACER 20 GA. (.036")
2	312-808D	BLADE SPACER 24 GA. (.024")
3	804-147C	WASHER FLAT 1 HARD ASTMF436
4	803-170C	NUT HEX TOP LOCK 1 1/8-12 PLATE
5	826-430H	RCF3696 DISHPAN WELDMENT
5	326-429H	RCF3610 DISHPAN WELDMENT
6	840-273C	PLUG LP 3" ID RUBBER
7	----------	SEE LIST OF CUTTER BLADES BELOW

Land Pride List of Cutter Blades

Part No.	Part Description
820-195C	RCF3696 CUTTER BLADE 1/2 x 4 x 20 CCW
820-196C	RCF3696 CUTTER BLADE 1/2 x 4 x 20 CW
820-137C	RCF3610 CUTTER BLADE 1/2 x 4 x 25 CCW
820-112C	RCF3610 CUTTER BLADE 1/2 x 4 x 25 CW

Optional Low Lift Cutter Blades

820-210C	RCF3696 BLADE 1/2X4X20.5 LL CCW
820-211C	RCF3696 BLADE 1/2X4X20.5 LL CW
820-193C	RCF3610 BLADE 1/2X4X25 LL CCW
820-209C	RCF3610 BLADE 1/2X4X25 LL CW

Cutter Blade Assembly
Figure 5-3

Driveline Slip-Clutch

Cutter drive components are protected from shock loads by a friction slip-clutch. The clutch must be capable of slippage during operation to protect the gearbox, driveline and other drivetrain parts.

Clutch Run-In

Refer to Figure 5-4:

WARNING

To avoid serious injury or death:

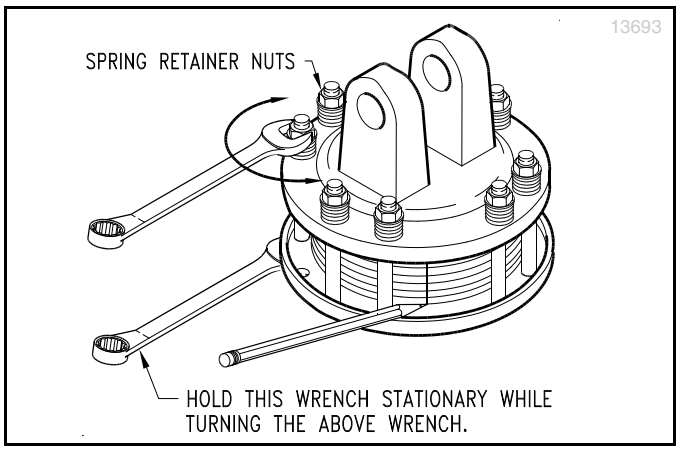
Always disengage power take-off, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.

Friction clutches should be “run-in” prior to initial operation and after long periods of inactivity to remove any oxidation that may have accumulated on friction surfaces. To prevent driveline and gearbox damage, repeat “run-in” instructions at beginning of each season and when moisture and/or condensation seizes inner friction plates.

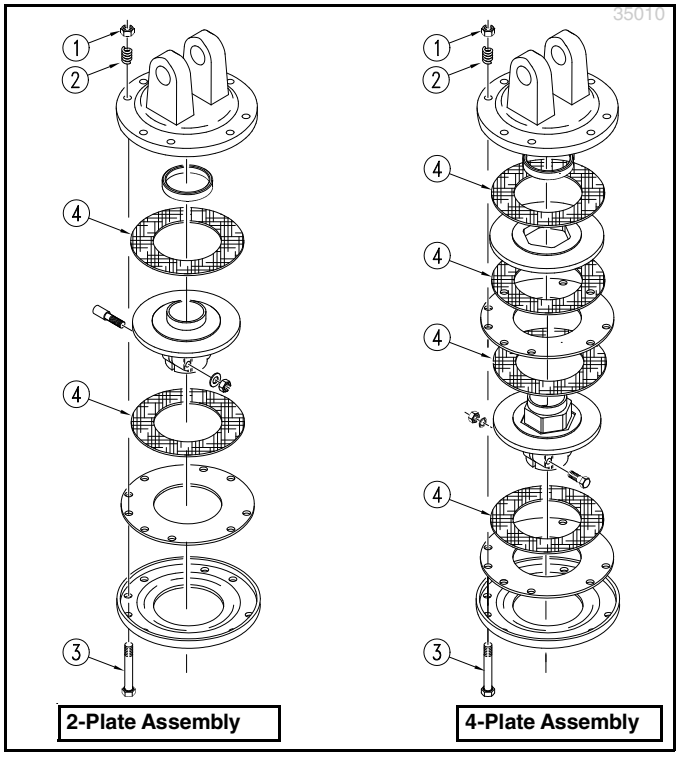
1. Using a pencil or other marker, scribe a line across the exposed edges of the clutch plates and friction discs.
2. Carefully loosen each of the 8 spring retainer nuts on the clutch housing a total of EXACTLY 2 revolutions. It will be necessary to hold the hex end of the retainer bolt in order to count the exact number of revolutions.
3. Start tractor and engage driveline for 2-3 seconds to permit slippage of the clutch surfaces. Disengage the power take-off, then re-engage a second time for 2-3 seconds. Disengage power take-off, shut off tractor and remove key. Wait for all components to stop before dismounting from tractor.
4. Inspect clutch and ensure that 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.

IMPORTANT: If clutch run-in procedure indicated that one or more friction disks did not slip, the clutch must be disassembled to separate the friction discs.

5. Tighten each spring retainer nut on the clutch housing exactly 2 revolutions to restore clutch to original setting pressure. See Figure 5-6 on page 59 and tables below Figure 5-6 for exact spring length.
6. The clutch should be checked during the first hour of cutting and periodically each week. An additional set of scribe marks can be added to check for slippage.



Clutch
Figure 5-4



Slip Clutch Assembly
Figure 5-5

Clutch Disassembly

Refer to Figure 5-5:

Disassembly of the clutch is simply a matter of removing the spring retainer nuts (#1), springs (#2) and bolts (#3) from the assembly. Each friction disc (#4) must then be separated from the metal surface adjacent to it.

Clutch 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" (3.2 mm) and should be replaced if thickness falls below 3/64" (1.1 mm). 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 yoke joints.

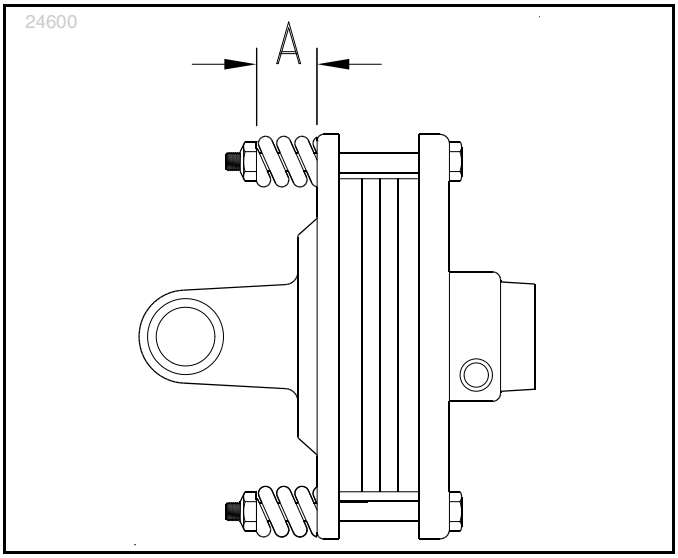
Clutch Assembly

Refer to Figure 5-5:

Install new friction discs if needed and reassemble all components in proper order. Reassemble each friction disc (#4) next to the metal plate it was separated from. Install bolts (#3) through the end plates and intermediate plates as shown. Place springs (#2) over the bolts and secure with nuts (#1).

Refer to Figure 5-6:

Progressively tighten each spring retainer bolt until correct spring height “A” is reached.



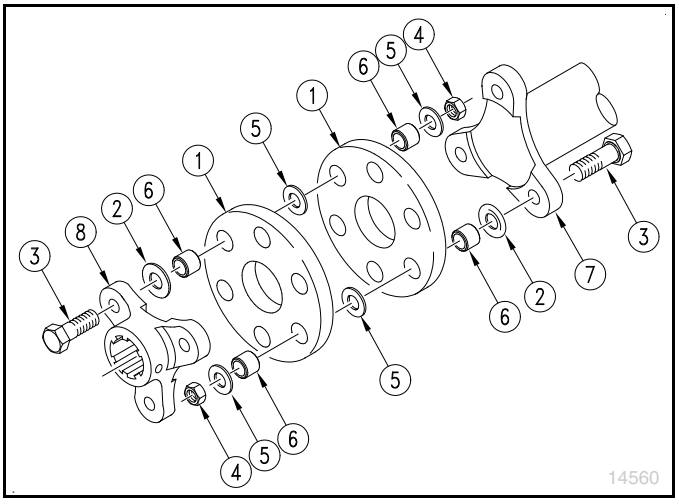
Clutch Adjustment
Figure 5-6

RCF(M)3696

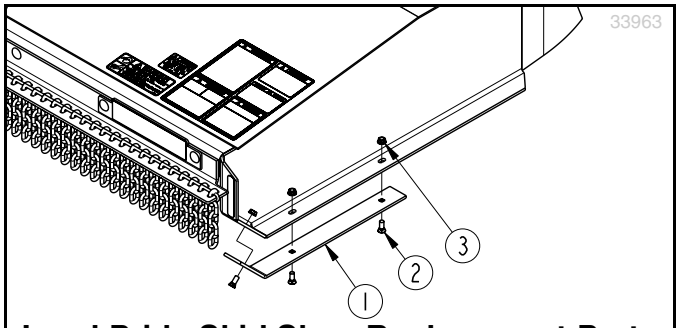
Driveline No.	Driveline Location	Power Take-Off Speed	Cat No.	A Spring Height
826-255C 826-256C 826-225C	Main Jack Shaft Stub Shaft	540	4	1.18" (30 mm)
826-889C 826-882C 826-881C	Main Jack Shaft Stub Shaft	540	4	1.27" (32.2 mm)
826-258C 826-259C	Main Jack Shaft	1000	4	1.09" (28 mm)

RCF(M)3610

Driveline No.	Driveline Location	Power Take-Off Speed	Cat No.	A Spring Height
826-215C 826-220C 826-225C	Main Jack Shaft Stub Shaft	540	4	1.18" (30 mm)
826-872C 826-880C 826-881C	Main Jack Shaft Stub Shaft	540	4	1.27" (32.2 mm)
826-216C 826-221C 826-226C	Main Jack Shaft Stub Shaft	1000	4	1.09" (28 mm)
826-888C	Main	1000	4	1.27" (32.2 mm)



Flex Couplers
Figure 5-7



Land Pride Skid Shoe Replacement Parts

Part No.	Part Description
326-479D	SKID SHOE
802-603C	PLOW 3/8" - 16 x 1" GR5
803-198C	NUT HEX WHIZ 3/8-16 PLT

Skid Shoe Replacement
Figure 5-8

Flex Couplers

Refer to Figure 5-7:

Replace two rubber discs (#1), (Land Pride Part No. 1785273), as follows: If additional repair parts are required, refer to Land Pride's Parts Manuals 326-600P for RCF(M)3696 and 326-423P for RCF(M)3610 cutters.

1. Insert three bolts (#3) through the holes in flange weldment (#7).
2. Place beaded washers (#2) over the three bolts with bead facing rubber disc (#1).
3. Place bushings (#6), rubber disc (#1), washers (#5), 2nd rubber disc (#1), 2nd bushing (#6) and 2nd washer (5) over the three bolts as shown.
4. Secure with nuts (#4). Do not tighten.
5. Insert three bolts (#3) through holes in flanged hub (#8).
6. Repeat steps 2 through 4.
7. Tighten nuts (#4) evenly with nuts torqued 35 to 40 ft-lb. Beaded washers (#2) should be embedded halfway into the rubber disc.

Skid Shoe Maintenance

Refer to Figure 5-8:

WARNING

To avoid serious injury or death:

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

A skid shoe is mounted to each side of the cutter. Check both skid shoes for wear and replace if needed. 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 if necessary.
3. Attach new skid shoe (#1) to cutter with existing 3/8" plow bolts (#2) and secure with 3/8" hex whiz nuts. Torque to 31 ft. lbs.
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 accumulated dirt and grease and scrape off compacted dirt under the deck. Wash surface thoroughly with a garden hose.
2. Check blades and blade bolts for wear and replace if necessary. See **"Cutter Blade Maintenance"** on page 56.
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. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

Land Pride Touch-up Paint

Part No.	Part Description
821-011C	PAINT LP BEIGE SPRAY CAN
821-054C	PAINT MEDIUM RED SPRAY CAN
821-058C	PAINT GREEN 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"** on page 62. A coating of oil may also be applied to the lower deck area to minimize oxidation.
7. Store cutter on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer cutter life.
8. Follow all unhooking instructions on page 52 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.

81 . . . . . Green	**83 . . . . . Red**
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

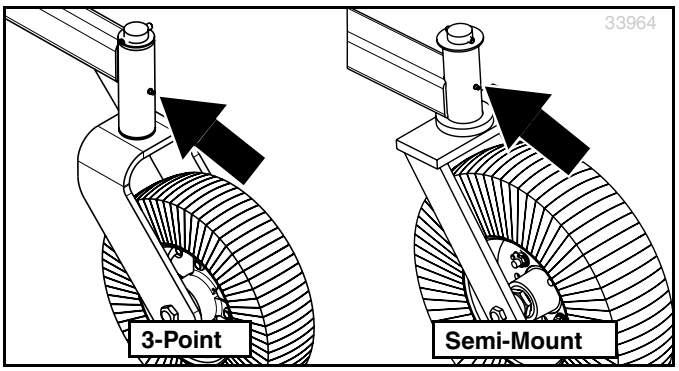
Lubrication Legend

Multi-purpose spray lube

Multi-purpose grease lube

Multi-purpose oil lube

50 Hrs — Intervals in hours at which lubrication is required



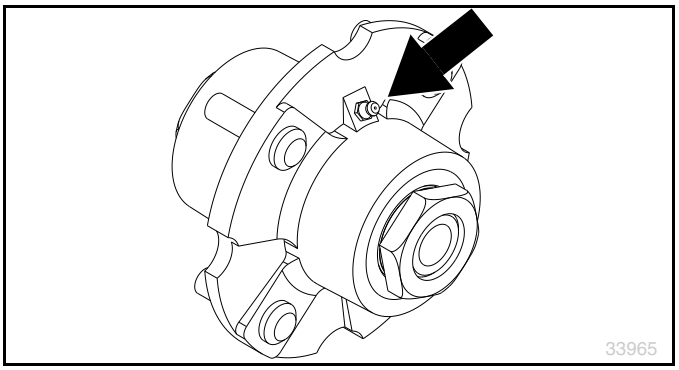
24 Hrs

Tailwheel Spindle Tubes

3-Point & Semi-Mounted Cutters

Type of Lubrication: Multi-Purpose Grease

Quantity = 6 pumps



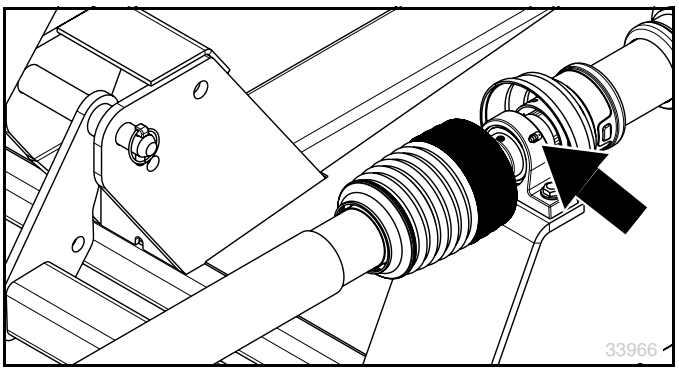
24 Hrs

Tailwheel Hubs

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

Type of Lubrication: Multi-purpose Grease

Quantity = Until grease purges from the relief hole



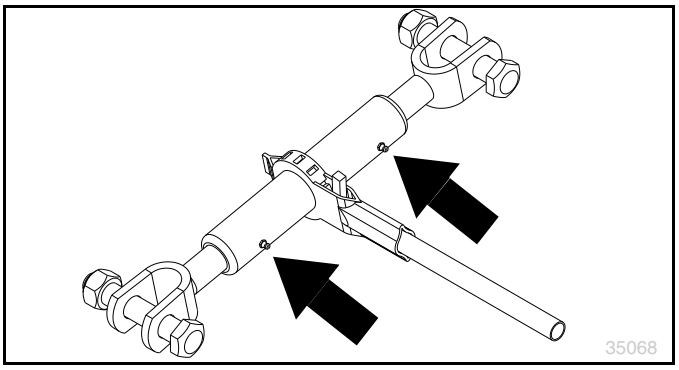
8 Hrs

Pillow Bearing (Pull-Type Cutter)

(RCF3610 & RCFM3610)

Type of Lubrication: Multi-Purpose Grease

Quantity = As required

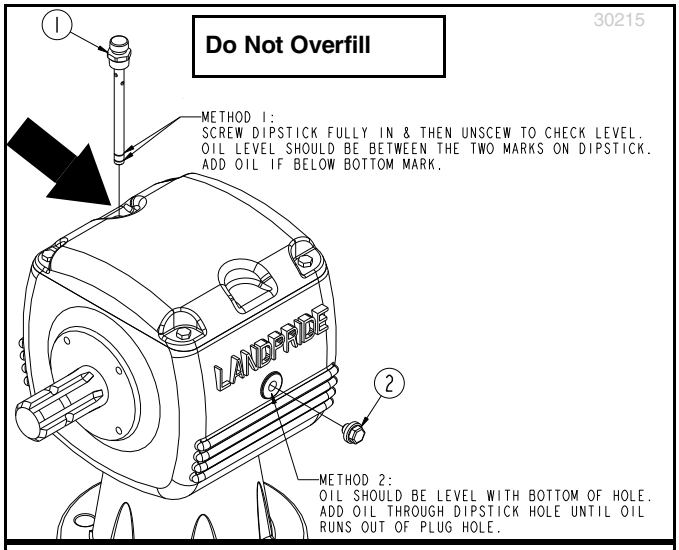


As Required

Ratchet Jack

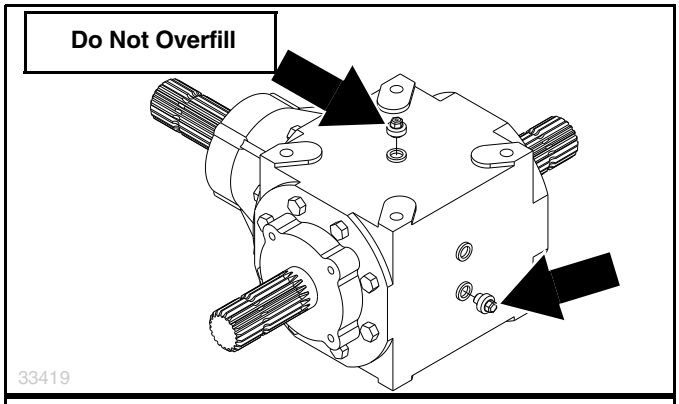
Type of Lubrication: Multi-Purpose Grease

Quantity = As required



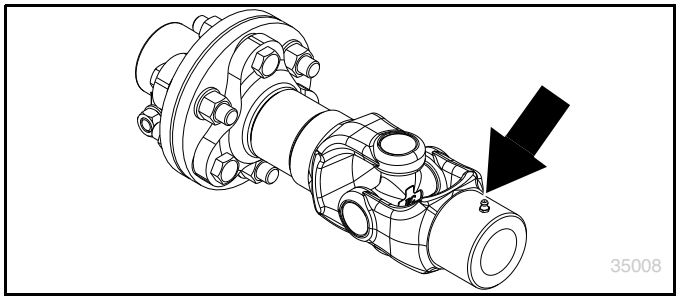
IMPORTANT: Gearboxes are shipped with solid plugs in them to prevent oil loss during shipping and handling. The solid plug on top of the gearbox must be replaced with a vented dipstick before operating the implement.

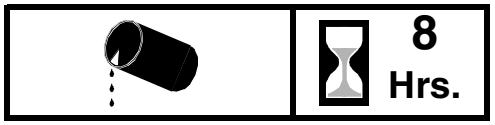
NOTE: Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.



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.

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





Gearbox

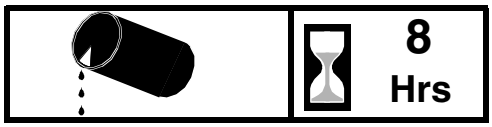
NOTE: Do not overfill! Cutter should be level when checking oil. Oil expands when hot, therefore, always check oil level when cold.

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.



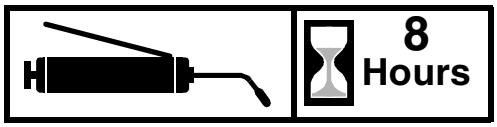
T-Gearbox

Check oil level in gearbox by removing lower rear plug in gearbox case. If oil is below lower rear plug hole, add recommended gear lube through top plug hole until oil flows out of lower rear plug hole. Reinstall oil plugs and tighten.

NOTE: Do not overfill! Cutter should be level when checking oil.

Type of Lubrication: 80-90W EP Oil

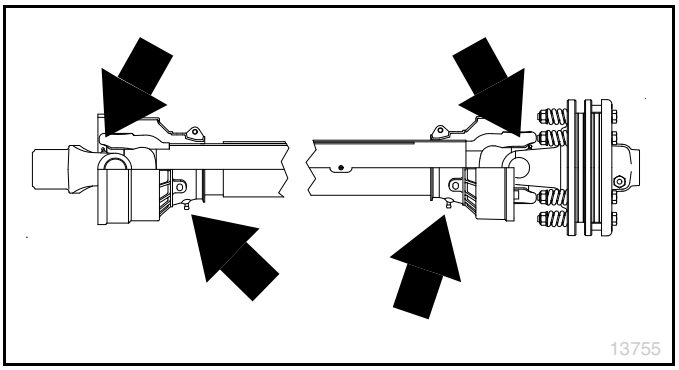
Quantity = Fill until oil flow from upper rear port of gearbox case.

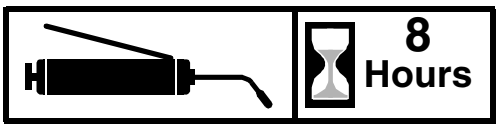


RCF(M)3610 Flex Coupler

Type of Lubrication: Multi-Purpose Grease

Quantity = As required

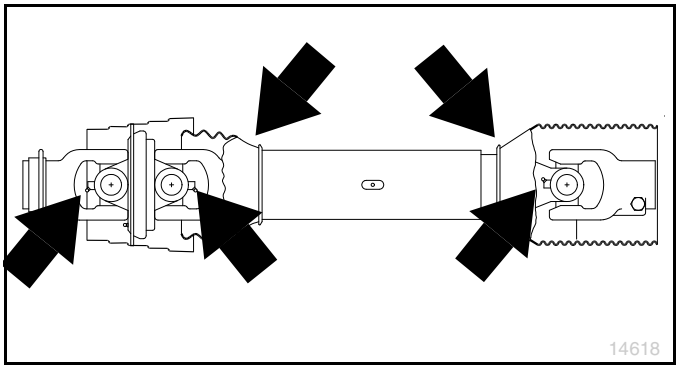


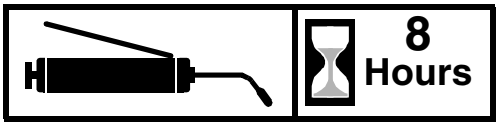


Driveline U-Joints & Profile Shields

Type of Lubrication: Multi-Purpose Grease

Quantity = 6 pumps

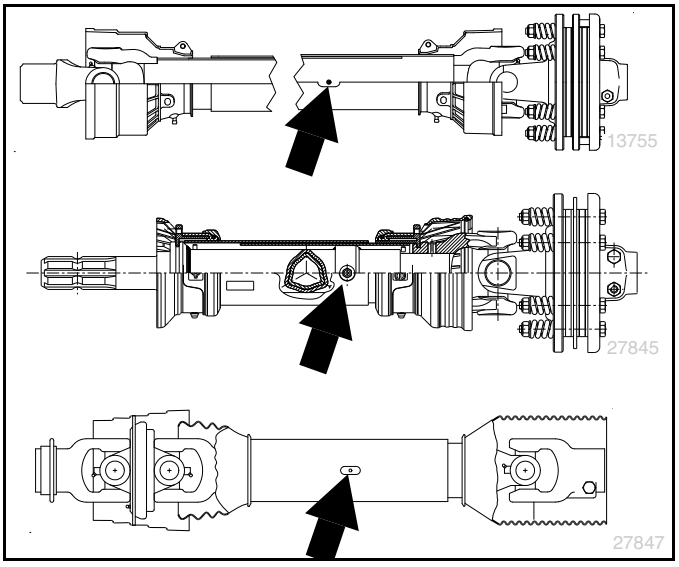


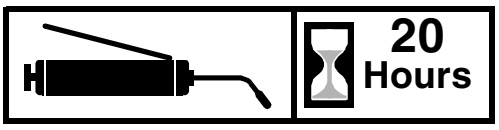


CV Driveline U-Joints & Profile Shields

Type of Lubrication: Multi-Purpose Grease

Quantity = 6 pumps

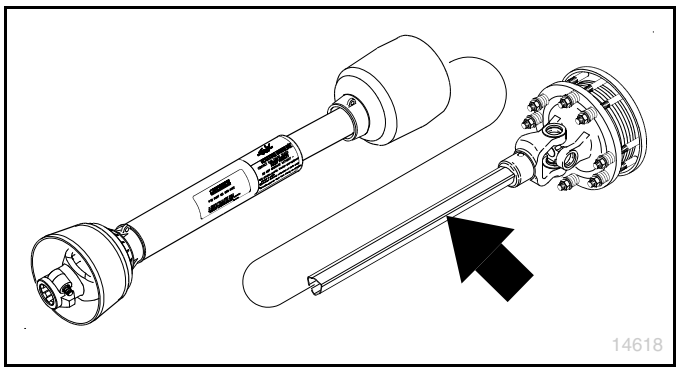


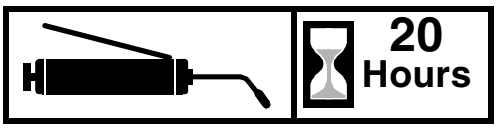


Telescoping Driveline Profiles With Zerks

Type of Lubrication: Multi-Purpose Grease

Quantity = 6 pumps

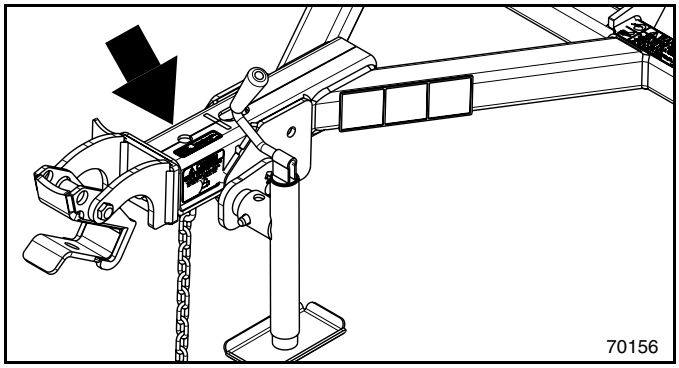


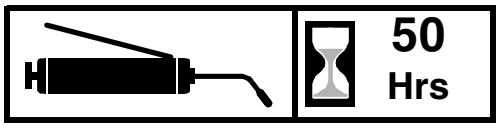


Telescoping Driveline Profiles Without Zerks

Type of Lubrication: Multi-Purpose Grease

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





Pull-Type Hitch

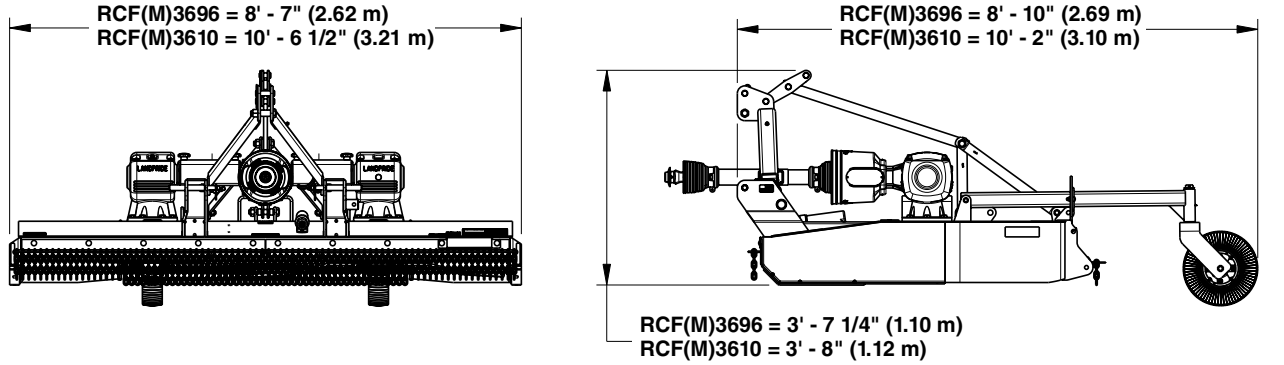
(RCF3010 & RCFM3010)

Type of Lubrication: Multi-Purpose Grease

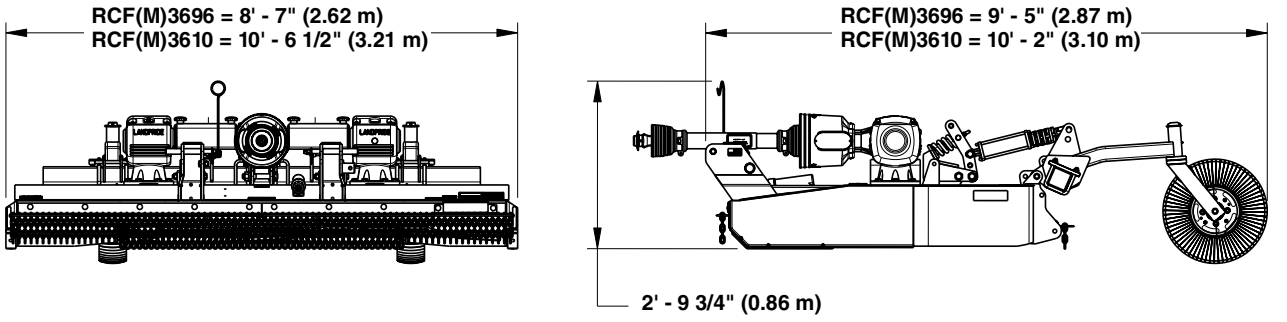
Quantity = As required

RCF(M)3696 & RCF(M)3610 Models

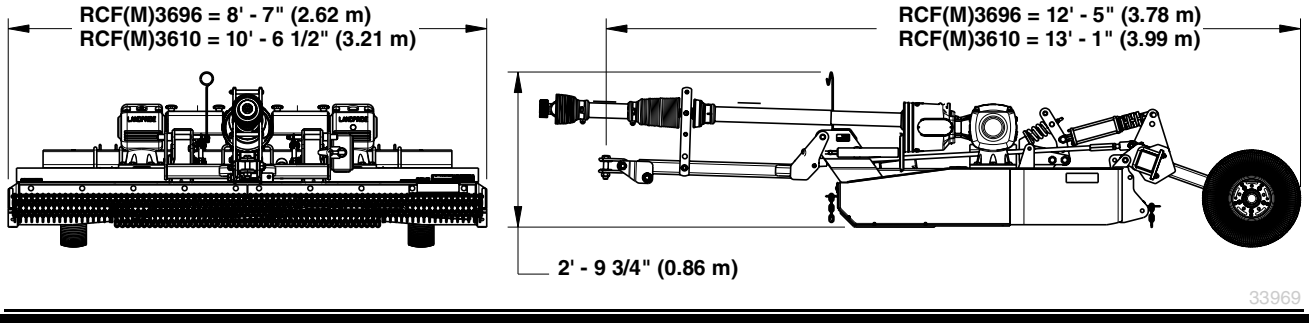
Specifications & Capacities		
Model Numbers	**RCF3696 (540 rpm) RCFM3696 (1000 rpm)**	**RCF3610 (540 rpm) RCFM3610 (1000 rpm)**
Machine weight with front and rear rubber guards. Includes hydraulic cylinder and 21" wheels with semi-mount and pull type units	**3-Point mount =** 1,750 lbs (793.8 kg) **Semi-mount** = 1,915 lbs (868.6 kg) **Pull-type =** 2,090 lbs (948.0 kg)	**3-Point mount =** 2,230 lbs (1011.5 kg) **Semi-mount** = 2,270 lbs (1029.7 kg) **Pull-type =** 2,430 lbs (1102.2 kg)
Hitch	3-Point and semi-mount Category 1 & 2	3-Point and semi-mount Category 2 & 3
	Quick Hitch Adaptable Pull-type - with dual self level rods	
Pull type tongue weight	933 lbs (423.2 kg)	1087 lbs (493.1 kg)
Park jack	Parking jack attaches to the tongue of the pull type cutter	
Cutting width	8' - 0" (2.44 m)	10' - 0" (3.05 m)
Overall width	8' - 7" (2.62 m)	10' - 6 1/2" (3.21 m)
Overall length 3-point mounted semi-mounted pull-type	8' - 10" (2.69 m) 9' - 5" (2.87 m) 12' - 5" (3.78 m)	10' - 2" (3.10 m) 10' - 2" (3.10 m) 13' - 1" (3.99 m)
Deck height	13" (33.0 cm)	
Cutting height	2" - 12" (5.1 cm - 30.5 cm)	
Cutting capacity	3" (7.6 cm)	
Tractor Hp rating	Lift-type - 50 - 130 (37.3 - 96.9 kw) Semi mount - 40 - 130 (29.8 - 96.9 kw) Pull-type - 35 - 130 (26.1 - 96.9 kw)	Lift-type - 60 - 130 (44.7 - 96.9 kw) Pull/semi - 50 - 130 (37.3 - 96.9 kw)
Gearbox horsepower rating	T-Box - 210 hp (156.6 kw), outboard 205 hp (152.9 kw)	
Gearbox	540 rpm or 1000 rpm driven gearbox. Cast iron housing, beveled gears	
Gearbox input / output shaft size	Input shaft = 1 3/4" (4.4 cm) - 20 spline Output shaft = 2 3/8" (6.0 cm) Dia.	
Gearbox lubrication	80-90w EP gear lube	
Gearbox oil capacity end boxes T-box	Omni = 5.5 pints (2.60 L) or Comer = 10 pints (4.73 L) Comer = 4.5 pints (2.13 L)	
Deck material thickness	10 gauge (3.4 mm)	
Deck side skirt thickness	1/4" (6 mm)	
Skids	Replaceable	
Stump jumper	2 ea. - 3/16" (5 mm) Round pan	
Blades (4)	1/2" x 4" (1.3 cm x 10.2 cm) Heat treated Free-swinging suction blades	
Blade bolts	Keyed with harden flat washer and locknut	
Blade tip speed	540 rpm 17,100 fpm (86.9 mps) 1000 rpm 17,400 fpm (88.4 mps)	540 rpm 17,100 fpm (86.9 mps) 1000 rpm 17,400 fpm (88.4 mps)
Driveline 3-point & semi-mount pull type	ASAE Cat 4 ASE Cat. 4 equal angle shaft or constant velocity u-joint	
Driveline protection	540 rpm - 4 plate slip clutch, Rubber flex coupler to wing boxes 1000 rpm - 2 plate slip clutch, Rubber flex coupler to wing boxes	
Tailwheel options		
3-point without rear axle: 2 tires	4" x 8" x 15 1/4" Caster laminated	
3-point with rear axle: 2 tires	4" x 8" x 15 1/4" Caster laminated or 6" x 9" x 21" caster laminated	
semi-mount: 2 tires	4" x 8" x 15 1/4" Caster laminated or 6" x 9" x 21" caster laminated	
pull-type w/single spindle: 2 tires	6" x 9" x 21" Laminated or 24" x 7.7" recap foam filled aircraft or 29" x 16 ply aircraft	
pull-type w/dual spindles: 4 tires	6" x 9" x 21" Laminated or 24" x 7.7" recap foam filled aircraft or 29" x 16 ply aircraft	
Wheel bearings	Tapered roller bearing in cast iron hub	
Shock absorption	Spring shock absorber on axle of semi-mount and pull type	
Front guard	Optional: Rubber deflector, single chain guard, or double chain guard	
Rear guard	Optional: Rubber deflector, single chain guard, or double chain guard	



3-Point Mounted Rotary Cutter (RC3696 Shown)



Semi-Mounted Rotary Cutter (RC3696 Shown)



Pull-Type Rotary Cutter (RC3696 Shown)

RCF(M)3696 & RCF(M)3610 Models

Features	Benefits
Surpassed rugged industry standards	All Land Pride Cutters have been designed and tested and meet rigorous voluntary testing procedures.
540 or 1000 rpm	Fits wider variety of tractors.
High gearbox hp rating	Gearboxes are built rugged. See Specifications for actual Gearbox hp ratings.
5 Yr. limited gearbox warranty	Shows our confidence in the gearbox integrity.
3 Gearboxes	Allows equal torque to be spread to left and right gearbox.
Splined rubber flex-couplers between the center and outboard gearboxes	Protects the driveline and gearboxes from hard objects in the blade path.
Pull-Type constant velocity driveline Option	Constant velocity driveline reduces chatter and extends life of U-joint during turns.
Slip-clutch protection on main driveline	Slip-clutch is more convenient than shear-bolt, protects gearbox against sudden impact.
8'- Cat. 1 & 2 or 10'- Cat. 2 & 3 3-point and semi-mount hitches or pull-type hitch	Fits a wide range of tractors. Semi-Mount and Pull-Type fit older tractors without a top link and smaller tractors without enough lift capacity.
10 Gauge deck, fully welded	Fully welded deck adds rigidity.
1/4" Thick sidewalls	Protects sidewalls from thrown objects.
Round back design	Allows for cleaner and efficient discharge of material, helps eliminate damage to rear corners by not sticking out.
Pull-Type w/dual leveling rods	Dual leveling rods eliminate deck twisting when going over uneven terrain.
Chain or rubber guard option	Reduces flying debris.
Full length skids with replaceable shoes	Adds reinforcement to side panels. Replaceable shoes allow for change before wearing through to weld-on piece.
Splined blade hub	Splined blade hub offers tight non-slipping attachment to output shaft.
3/16" Round stump jumper	Standard stump jumper aids in sliding over obstructions, which helps protect gearbox output shaft.
1" x 5" Blade bar	Heavy-duty blade bar adds support to stump jumper as well as gearbox output shaft.
1/2" x 4" Heat-treated blades	Heat-treated blades last longer than non-heat-treated blades.
3" Diameter cutting capacity	Aids in cutting brush.
High blade tip speed	Means cleaner cutting. See Specifications for actual blade tip speeds.
Laminated tires	Laminated tires can handle almost any condition and don't go flat.
Quick Hitch adaptable	3-Point and semi-mount are Quick Hitch adaptable.

RCF(M)3696 & RCF(M)3610 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
Driveline telescoping tube failing	Shock load	Avoid hitting solid objects
Driveline telescoping tube wearing	Needs lubrication	Lubricate every 20 hours
Blades wearing excessively	Cutting on sandy ground	Raise cutting height
	Contacting ground frequently	Raise cutting height
Blades breaking	Hitting solid objects	Avoid hitting solid objects
	Blades hitting each other	Blade carriers need to be timed
Blades coming loose	Blades not tightened properly	Tighten blade hardware. Refer to “Service Cutting Blades” on page 56.
	Improper deck attitude	Lower front of deck, see page 56 and page 44
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 Grade 2		Grade 5		Grade 8	
in-tpi [1]	N · m [2]	ft-lb [3]	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16" - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1-1/8" - 12	540	395	1210	890	1960	1440
1-1/4" - 7	680	500	1520	1120	2460	1820
1-1/4" - 12	750	555	1680	1240	2730	2010
1-3/8" - 6	890	655	1990	1470	3230	2380
1-3/8" - 12	1010	745	2270	1670	3680	2710
1-1/2" - 6	1180	870	2640	1950	4290	3160
1-1/2" - 12	1330	980	2970	2190	4820	3560

Bolt Size (Metric)	Bolt Head Identification 5.8 Class 5.8		8.8 Class 8.8		10.9 Class 10.9	
mm x pitch [4]	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

[1] in-tpi = nominal thread diameter in inches-threads per inch

[2] N· m = newton-meters

[3] ft-lb= foot pounds

[4] mm x pitch = nominal thread diameter in millimeters x thread pitch

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

Additional Torque Values

Flex Coupler Nuts	35 to 40 ft-lbs. (Beaded washer should be embedded halfway into rubber
Blade Bolt Locknut	450 ft-lbs
Blade Carrier Hub Nut	450 ft-lbs minimum
Wheel Lug Nuts	85 ft-lbs

Tire Inflation Chart

Tire Size	Inflation PSI
29" AC Tire	**40**

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 Drivelines: One year Parts and Labor

Gearbox: Five years on Parts and Labor.

Hydraulic Cylinder: One year Parts and Labor
Hoses and seals are considered wear items

Blades, Tires, and Driveline Friction Discs: Considered wear items.

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

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

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

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

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

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

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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