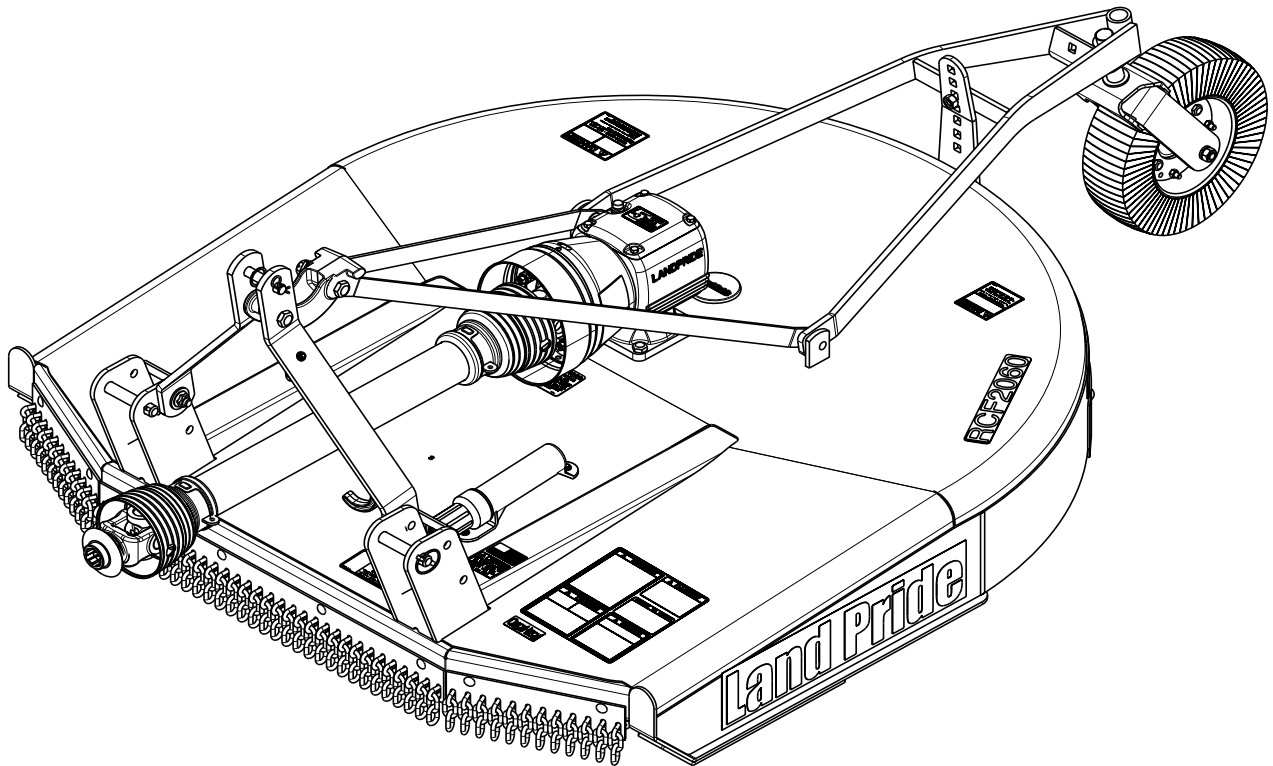


Rotary Cutters

RCF2060 and RCF2072



30982

326-459M
Operator's Manual



Read the Operator's Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover photo may show optional equipment not supplied with standard unit.

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Printed in the United States of America.

Important Safety Information

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

Safety at All Times

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

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

- ▲ The operator must not use drugs or alcohol as they can change the alertness or coordination of that person while operating equipment. The operator should, if taking over-the-counter drugs, seek medical advice on whether he/she can safely operate the equipment.
- ▲ Operator should be familiar with all functions of the tractor and attachments, and be able to handle emergencies quickly.
- ▲ Make sure all guards and shields are in place and secured before operating implement.
- ▲ Keep all bystanders away from equipment and work area.
- ▲ Operator must start tractor and operate controls from the driver's seat only. Never from the ground.
- ▲ Do not leave tractor or implement unattended with engine running.
- ▲ Dismounting from a moving tractor can cause serious injury or death.
- ▲ 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.
- ▲ Watch out for fences, trees, rocks, wires, etc., while operating and transporting implement.
- ▲ Turning tractor too tight may cause hitched machinery to ride up on wheels. This could result in injury or equipment damage.

Look For The Safety Alert Symbol



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

Be Aware of Signal Words

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

⚠ DANGER

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

⚠ WARNING

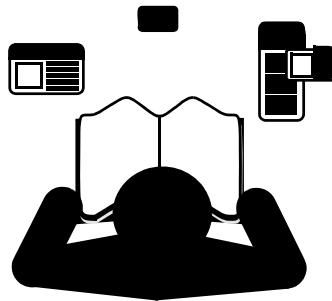
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

⚠ CAUTION

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

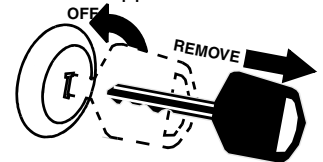
For Your Protection

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



Tractor Shutdown & Storage

- ▲ If engaged, disengage PTO.
- ▲ Lower attached implement to ground, put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- ▲ Wait for all components to come to a complete stop before leaving the operator's seat.
- ▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.



Parts Manual QR Locator

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



Dealer QR Locator

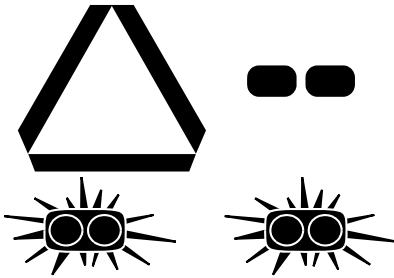
The QR code on the left will link you to available dealers for Land Pride products. Refer to Parts Manual QR Locator on this page for detailed instructions.

Important Safety Information

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

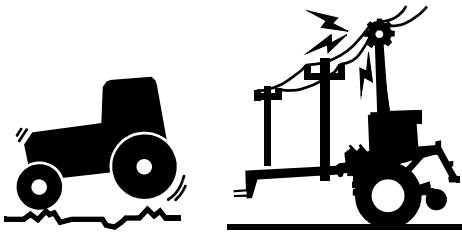
Use Safety Lights and Devices

- ▲ Slow moving tractors, self-propelled equipment, and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.



Transport Machinery Safely

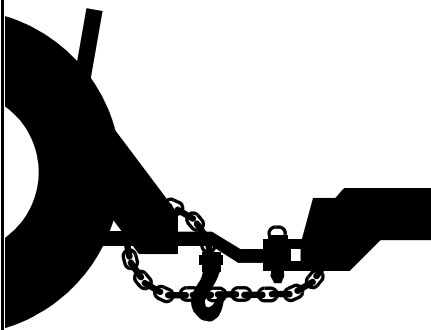
- ▲ Comply with state and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity.
- ▲ Secure equipment towed on a trailer with tie downs and chains.
- ▲ Sudden braking can cause a trailer to swerve and upset. Reduce speed if trailer is not equipped with brakes.
- ▲ Avoid contact with any over head utility lines or electrically charged conductors.
- ▲ Engage park brake when stopped on an incline.



- ▲ Maximum transport speed for an attached implement 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 an attached implement:
 - 20 mph** when weight of attached implement is less than or equal to the weight of machine towing the implement.
 - 10 mph** when weight of attached implement exceeds weight of machine towing implement but not more than double the weight.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the machine towing the load.

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 machinery.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- ▲ Do not use safety chain for towing.



Practice Safe Maintenance

- ▲ Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- ▲ Work in a clean dry area.
- ▲ Lower attached implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.
- ▲ Allow implement to cool before working on it.
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.

- ▲ Do not grease or oil implement while it is in operation.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this machine with genuine Land Pride parts only. Do not alter this machine in a way which will adversely affect its performance.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Remove all tools and unused parts from implement before operation.

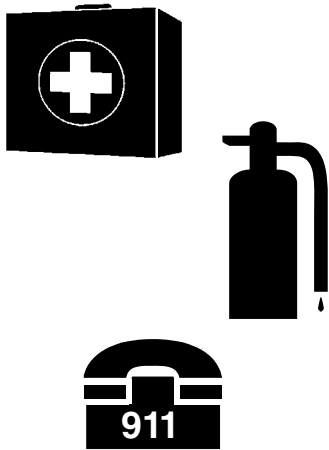


Important Safety Information

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

Prepare for Emergencies

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



Wear Protective Equipment

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



Avoid High Pressure Fluids Hazard

- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury.
- ▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- ▲ Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ **DO NOT DELAY.** If an accident occurs, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.



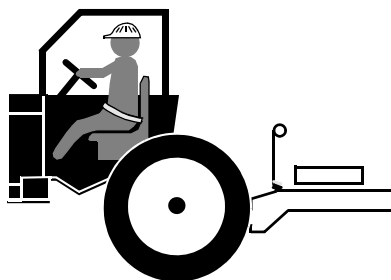
Tire Safety

- ▲ Tire changing can be dangerous and should be performed by trained personnel using the correct tools and equipment.
- ▲ When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- ▲ When removing and installing wheels, use wheel handling equipment adequate for the weight involved.



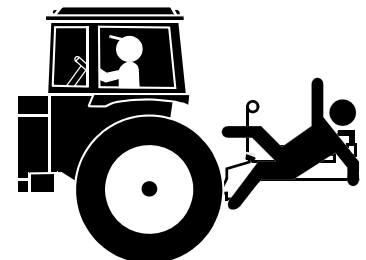
Use Seat Belt and ROPS

- ▲ Operate only tractors equipped with a Roll-Over Protective Structure (ROPS) and seat belt.
- ▲ Keep folding ROPS in the "locked up" position at all times.
- ▲ Fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.
- ▲ Wear protective equipment such as a hard hat, safety shoes, safety glasses, and ear plugs.



Keep Riders Off Machinery

- ▲ Never carry riders or use machinery as a person lift.
- ▲ Riders obstruct operator's view.
- ▲ Riders could be struck by foreign objects or thrown from the machine.
- ▲ Never allow children to operate equipment.



Important Safety Information

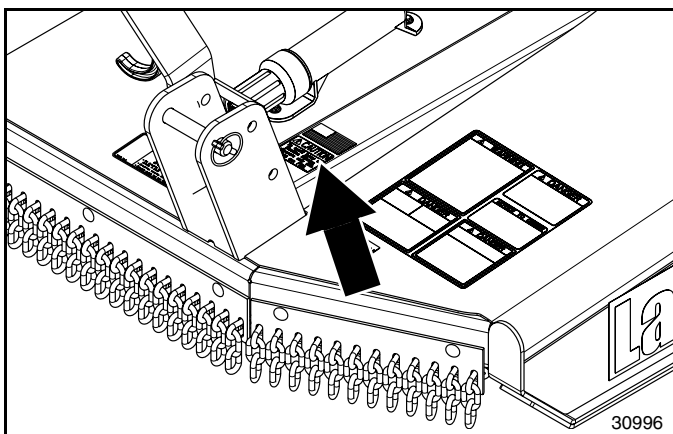
Safety Labels

Your Rotary 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

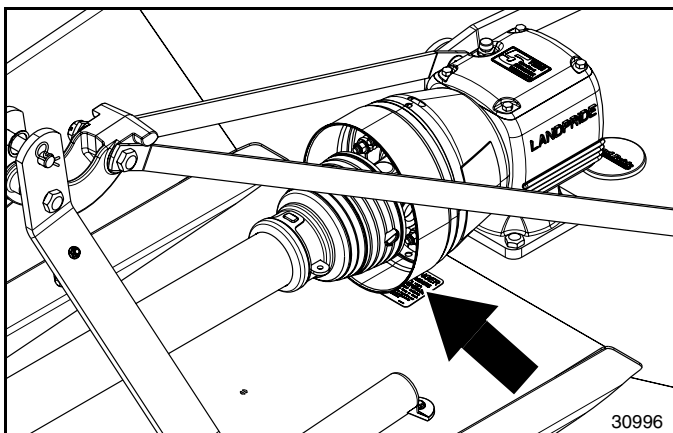
specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.

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.



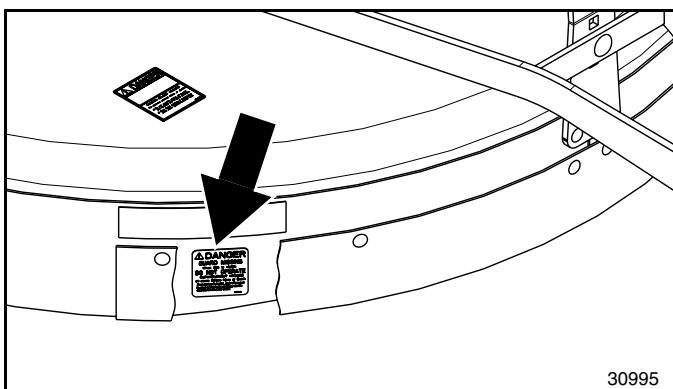
818-130C

Caution: 540 RPM

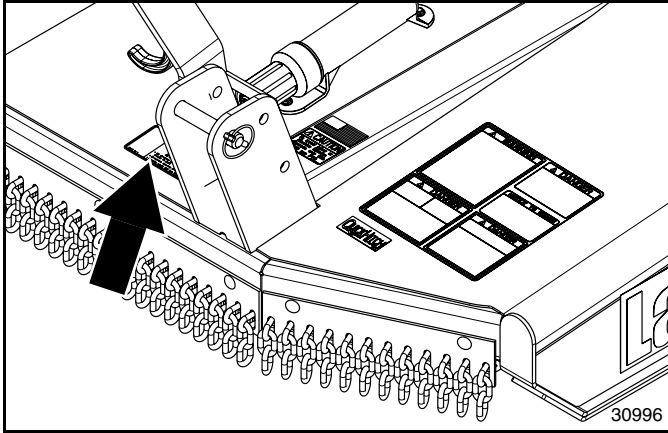


818-543C

Danger: Guard Missing
(2 places)

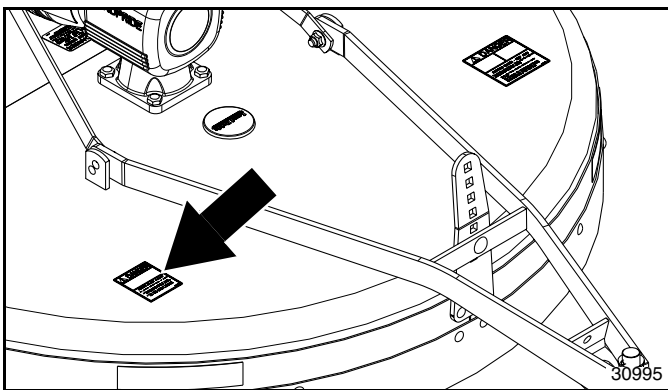


Important Safety Information



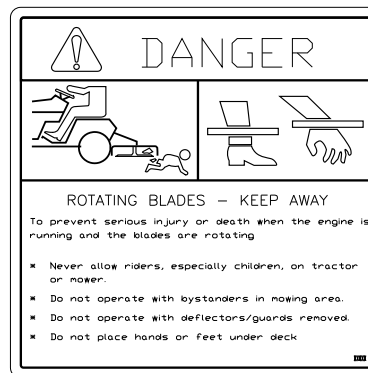
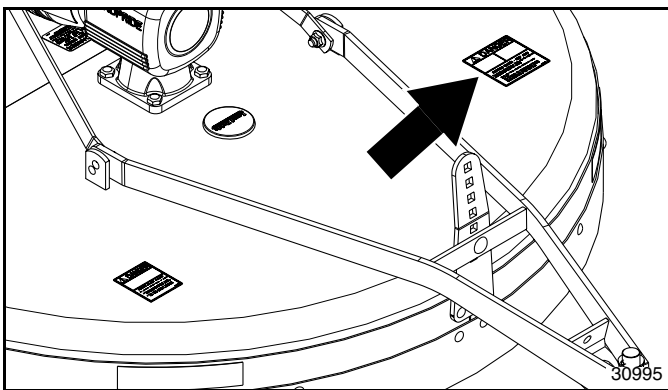
818-142C

Danger: Rotating Driveline



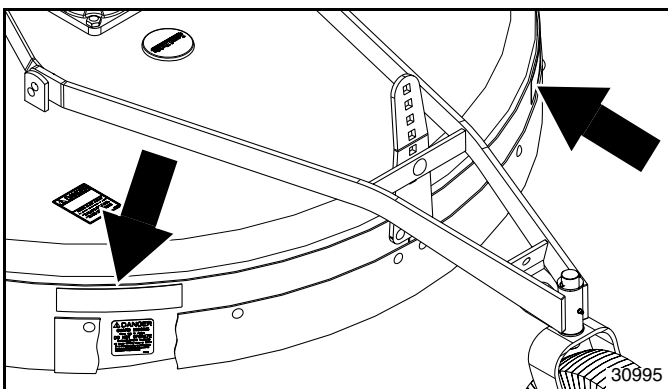
818-556C

Danger: Thrown Object



818-564C

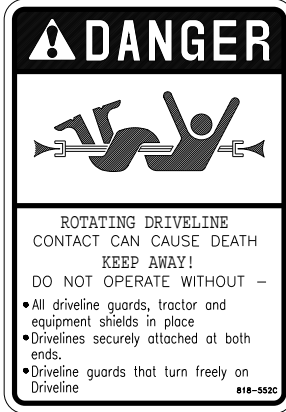
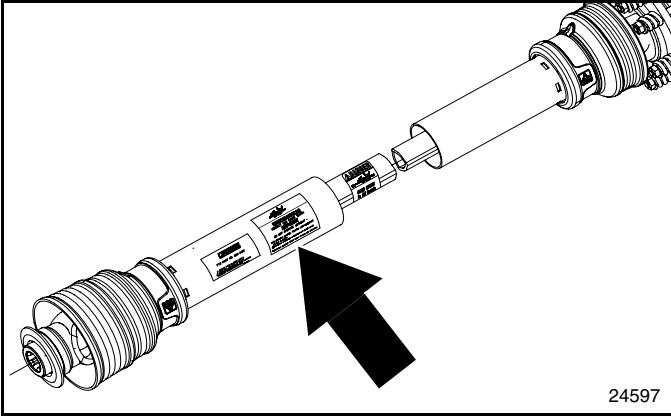
Danger: Rotating Blades



838-614C

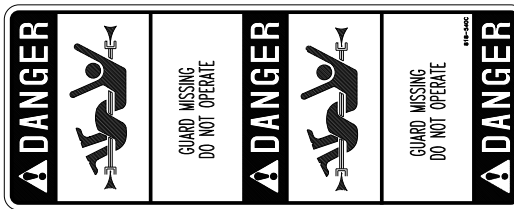
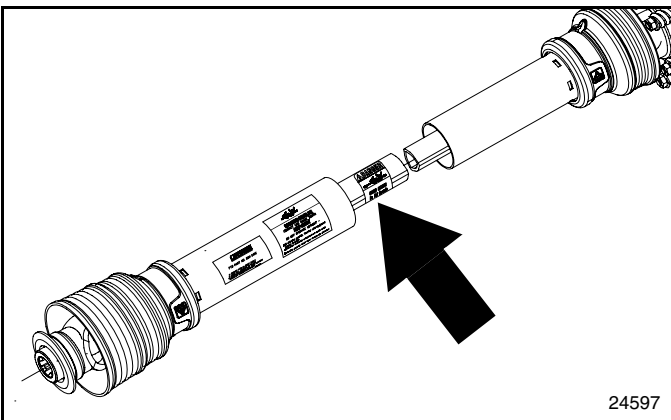
2" x 9" Red Reflector
(2 places)

Important Safety Information



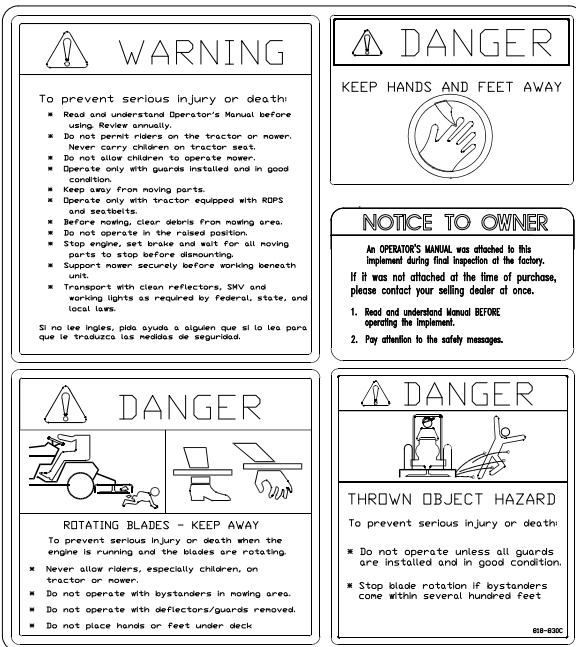
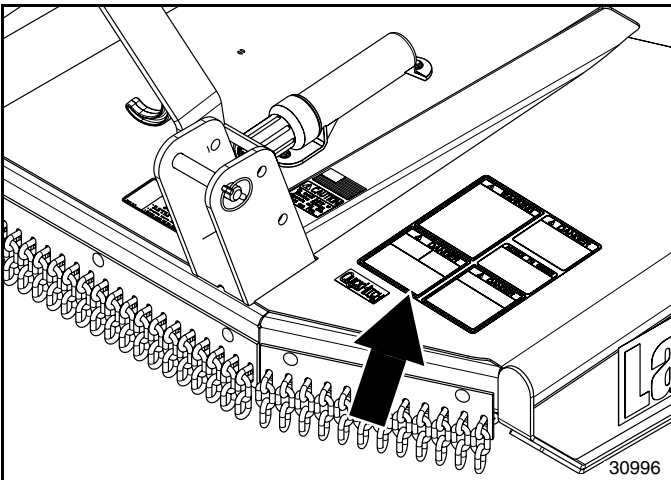
818-552C

Danger: Rotating Driveline



818-540C

Danger: Guard Missing



818-830C

Safety Combo

Introduction

Land Pride welcomes you to the growing family of new product owners.

This Rotary Cutter has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this machine.

Application

Land Pride's RCF20 Series Rotary Cutters are built and designed by Land Pride for cutting on gentle slopes or slightly contoured right-of-ways, pastures, around the farm, or around town. The cutting widths, 60" for RCF2060 and 72" for RCF2072, are compatible with the more maneuverable 20 to 65 horsepower tractors with 540 RPM PTO speed. These cutters have a Category I 3-point hitch that is Quick Hitch adaptable. The standard ASAE Category III driveline is offered with either shear bolt or slip-clutch protection and the tailwheel is offered laminated or solid rubber.

RCF20 Series cutters cut through grass, weeds, and light brush up to 2 in. diameter and have a cutting height range of 1-1/2" to 12". Cutting blade tip speed for the RCF2060 is 16,363 FPM and for the RCF2072 is 14,955 FPM. These units come with 24" diameter standard-duty stump jumpers. A metal band shield is standard equipment for the rear. Optional shields for the front and rear are rubber deflectors and chain guards.

See "**Specifications & Capacities**" on page 28 and "**Features & Benefits**" on page 30 for additional information and performance enhancing options.

Using This Manual

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

Terminology:

"Right" or "Left" as used in this manual is determined by facing the direction the machine will operate while in use unless otherwise stated.

Definitions:

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

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

Owner Assistance

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

The parts on your Rotary 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

Model No. _____ Serial No. _____

For quick reference and prompt service, record model number and serial number in the spaces provided above and again on warranty page 33. Always provide model number and serial number when ordering parts and in all correspondences with your Land Pride dealer. Refer to Figure 1 for location of your serial number.

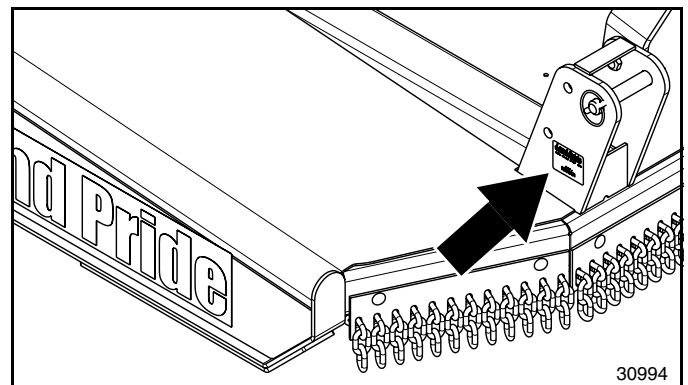


Figure 1

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 the matter with your dealership service manager making sure that person is aware of any problems you may have and has had the opportunity to assist you.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem, and request assistance.
3. For further assistance write to:

Land Pride Service Department
1525 East North Street
 P.O. Box 5060
 Salina, Ks. 67402-5060

E-mail address
lp servicedept@landpride.com

Section 1: Assembly & Set-up

Tractor Requirements

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

- Tractor Horsepower Rating20 to 65 HP
- Hitch Category Cat I
- PTO Speed.540 RPM
- PTO Shaft Type 1 3/8"-6 Spline

! WARNING

Front tractor weights and/or ballast to tires may be required to offset weight of implement. Consult your tractor manual to determine if additional ballast is required.

Torque Requirements

Refer to "Torque Values Chart" on page 32 to determine correct torque values for common bolts. See "Additional Torque Values" at bottom of chart for exceptions to standard torque values.

Uncrating Instructions

! WARNING

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

1. Secure cutter with a hoist or other lifting device before removing shipping hardware.
2. Cut shipping straps securing driveline and hitch straps (#5) to the shipping crate. Remove driveline from shipping crate and lay gently hitch straps down onto the shipping crate.
3. **5-pack only:** Remove bar at the top connecting this cutter to other cutters. Be sure to replace the bolts in the cutter and to tighten it to the correct torque.
4. Remove lag screws securing front face of cutter to the crate.
5. Using lifting device, remove tension on hitch pins securing clevis plates to shipping crate.
6. Remove hitch pins from clevis plates and lift cutter from shipping crate.

NOTE: When lowering cutter onto the working area, keep hitch straps (#5) from falling onto the manual tube and breaking the tube.

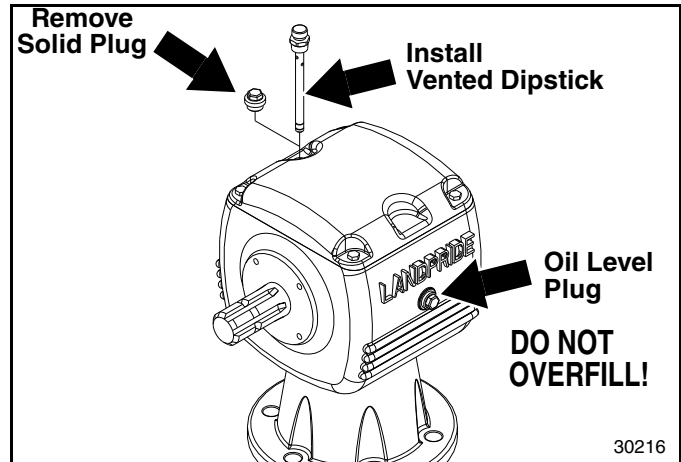
7. Gently lower cutter onto the working area. Be careful not to allow hitch straps (#5) to fall onto the plastic manual tube.

Gearbox Vented Dipstick

Refer to Figure 1-1:

IMPORTANT: Rotary Cutters are shipped with a solid plug in the gearbox to prevent loss of oil during shipping and handling. The solid plug on top of the gearbox must be replaced with a vented dipstick. Do not operate cutter without vented dipstick installed.

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

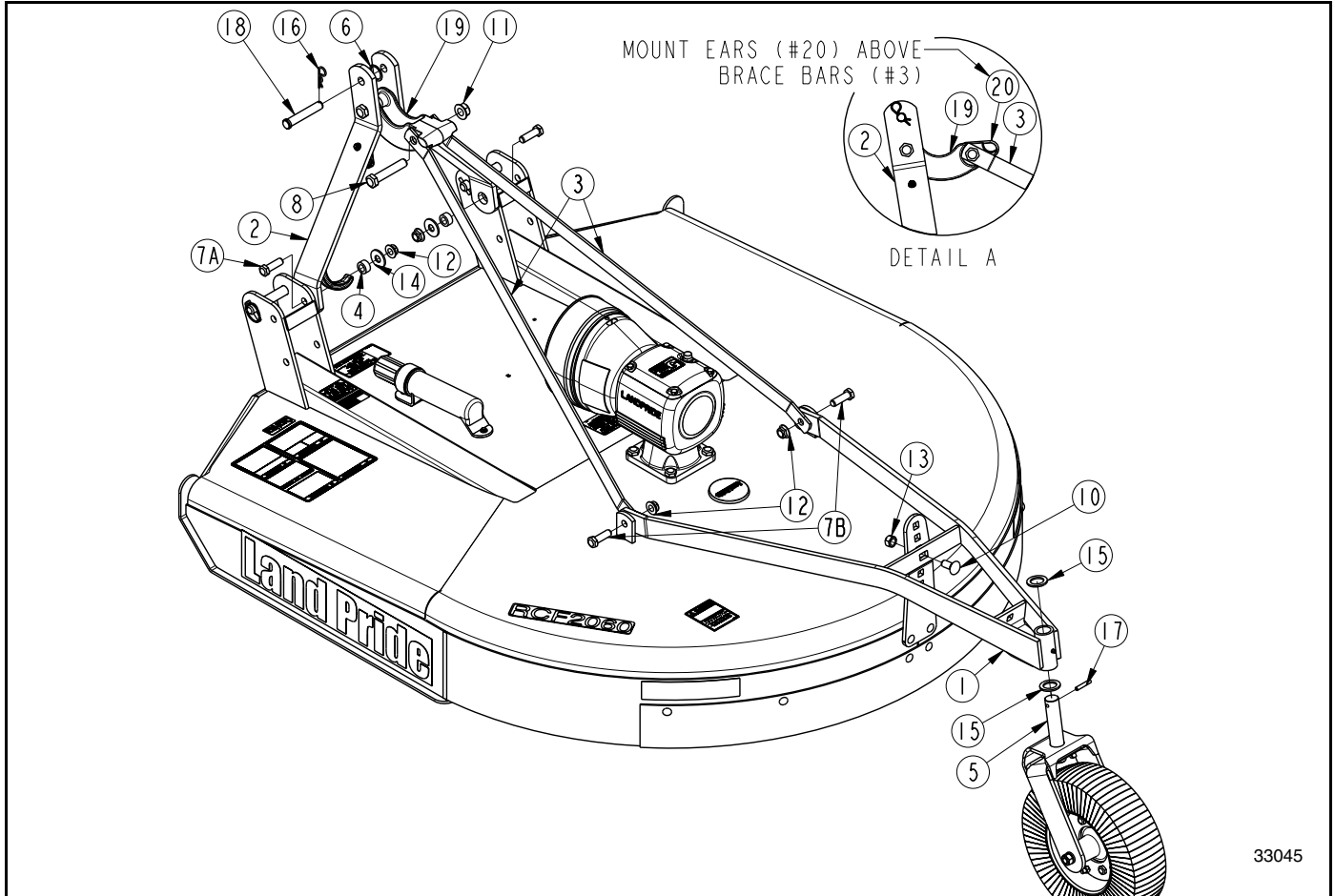


Gearbox Vented Dipstick Installation
Figure 1-1

3-Point Hitch & Tailwheel Assembly

Refer to Figure 1-2 on page 9:

1. Bushings (#4) are zip tied to top hitch (#19).
2. Snap ring (#6) is shipped stored on clevis pin (#18). Remove hairpin cotter (#16), clevis pin (#18), and snap ring (#6).
3. Reattach clevis pin (#18) to A-frames (#2) with hairpin cotter (#16). Keep snap ring (#6) for driveline assembly.
4. Remove flat washers (#14) and lock nuts (#12) from bolts (#7A).
5. Reattach A-frames (#2) with 5/8"-11 x 2" GR5 bolts (#7A), bushings (#4), flat washers (#14), and lock nuts (#12). Tighten lock nuts (#12).
6. Unbolt short crossbar of tailwheel A-frame (#1) from adjusting bracket.
7. Attach A-frame (#1) and 11/16" diameter holes in rear brace bars (#3) to the rear deck lugs as shown using 5/8"-11 x 2" GR5 bolts (#7B) and hex flange lock nuts (#12). Draw lock nuts up snug and then back off 1/4 turn.



**Hitch Assembly
Figure 1-2**

8. Attach tailwheel A-frame (#1) to adjusting bracket with 5/8"-11 x 1 1/2" carriage bolt (#10) and 5/8" top lock nut (#13). Tighten locknut to the correct torque.

IMPORTANT: See Detail A in Figure 1-2. Floating top hitch (#19) must be installed with ears (#20) above rear brace bars (#3).

9. Rotate A-frame/floating top hitch (#2 & #19) up and rotate left rear brace (#3) up until holes in rear braces (#3) align with hole in floating top hitch (#19).
10. Insert 3/4"-10 x 4" GR5 bolt (#8) into the left rear brace (#3), floating top hitch (#19), and right rear brace (#3).
11. Secure bolt (#8) with hex flange lock nut (#11). Draw lock nut (#11) up snug and then back off 1/4 turn.
12. Install one machine washer (#15) on pivot shaft of tailwheel (#5).
13. Insert tailwheel pivot shaft (#5) into tailwheel A-frame (#1).

14. Install second machine washer (#15) on pivot shaft of tailwheel (#5) and secure with roll pin (#17).

NOTE: After assembly of hitch and tailwheel, push on top of A-frame assembly (#2). It should rotate backward and floating top link (#19) should rotate upward. If they are too stiff to rotate, loosen nuts (#11) until they will rotate freely.

33045

Section 1: Assembly & Set-up

Driveline Installation

DANGER

Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.

DANGER

All guards and shields must be installed and in good working condition while operating implement to avoid injury or death.

WARNING

Always disengage PTO, 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.

WARNING

Do not over-speed PTO or equipment breakage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO does not exceed 540 RPM.

WARNING

Do not use a PTO adapter. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline. It will also defeat the purpose of the tractor's PTO shield and could cause bodily injury or death.

IMPORTANT: An additional driveline may be required if the implement is hooked to different tractors or when implementing a Quick Hitch.

IMPORTANT: The driveline must be lubricated before putting it into service. Refer to "Lubrication Points" on page 26.

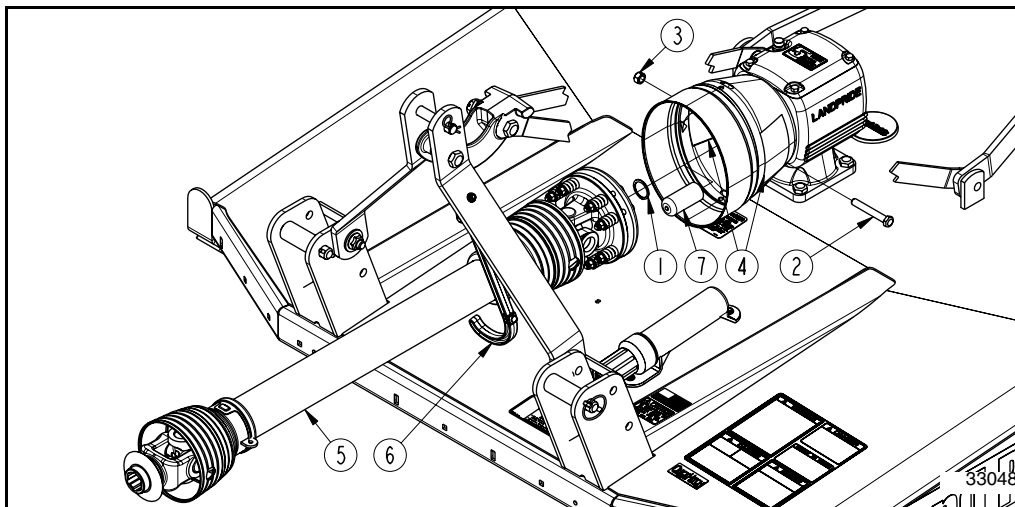
IMPORTANT: The tractor PTO shaft and gearbox input shaft must be aligned and level with each other when hooking-up the driveline to the tractor.

Refer to Figure 1-3:

1. Remove rubber protective sleeve (#7) from gearbox input shaft and discard.
2. Unsnap side access covers (#4) from both sides of the gearbox shield. Save covers for reuse.
3. Remove bolt (#2) from end of driveline (#5).
4. Slide driveline (#5) onto gearbox input shaft until holes in driveline yoke align with hole in gearbox input shaft.
5. Insert bolt (#2) through driveline yoke and gearbox input shaft.
6. Secure bolt with removed nut (#3). Tighten hex nut to the correct torque.
7. Skip to step #8 if installing a slip clutch driveline.

NOTE: Snap ring (#1) is for extra security should driveline shear bolt (#2) break. Do not use snap ring with a slip clutch driveline.

8. If driveline (#5) has a shear bolt instead of a slip clutch, install snap ring (#1) onto the gearbox input shaft groove. Discard snap ring if driveline has a slip clutch.
9. Reinstall access covers (#4).
10. Raise driveline (#5) up and rotate driveline hook (#6) down.
11. Lower driveline (#5) until resting in driveline hook (#6).
12. Continue with "Tractor Hook-Up" on page 11.



Driveline Installation
Figure 1-3

Section 1: Assembly & Set-up

Tractor Hook-Up

Refer to Figure 1-4:

! DANGER

A Crushing Hazard exists while hooking-up and unhooking implement. Do not allow anyone to stand between tractor and implement while backing-up to implement or pulling away from implement. Do not operate hydraulic 3-point lift controls while someone is directly behind tractor or near implement.

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

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

1. Locate cutter on a flat level surface.
2. Slowly back tractor up to the Rotary Cutter while using the tractor's 3-point hydraulic control to align lower 3-point arm holes with hitch pin holes "A".
3. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
4. Attach lower lift arms to clevises with hitch pins (#1) and secure with linchpins (#2).
5. Connect top center 3-point link to upper hitch with clevis pin (#3) and hairpin cotter (#4).
6. The tractor's lower 3-point lift arms should be adjusted for lateral float. Please consult your tractor's manual for adjusting instructions.

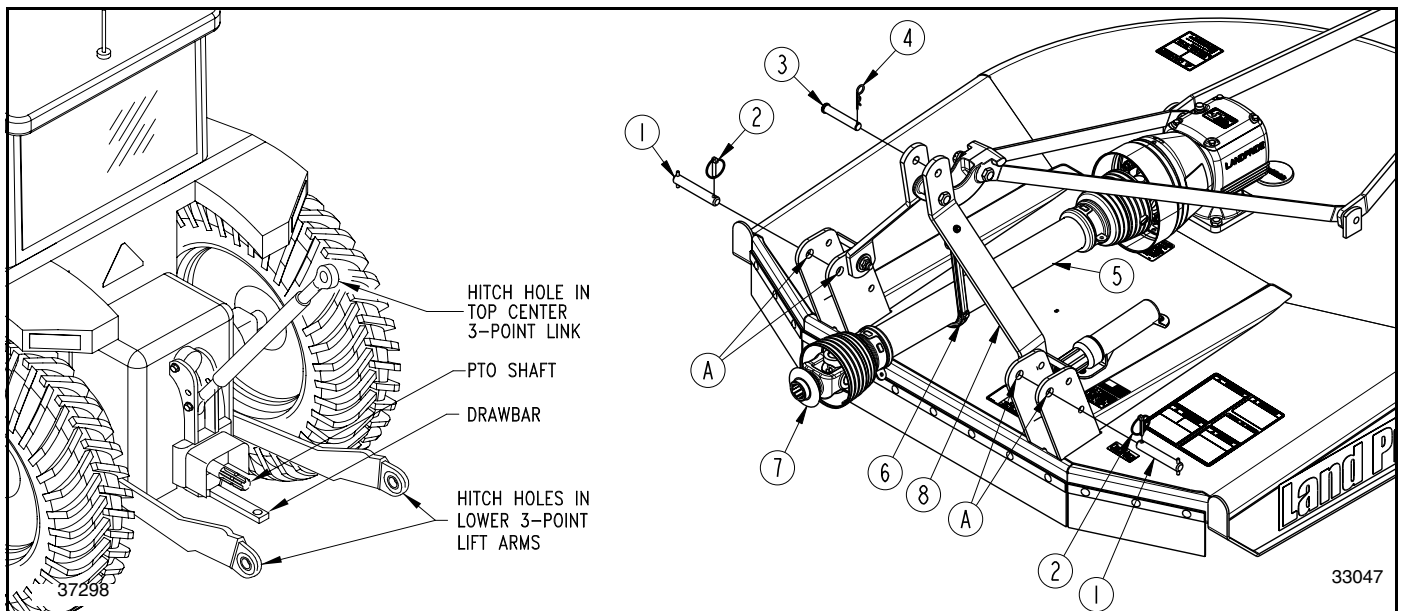
Hook-Up Driveline to Tractor PTO

Refer to Figure 1-4:

1. Park tractor on a level surface. Place gear selector in park or set park brake. Make sure PTO is disengaged.
2. Slowly engage tractor 3-point lift lever to raise cutter until gearbox input shaft is at the same height as the tractor PTO shaft.
3. Support cutter deck at this height with support jacks or blocks to keep cutter from drifting down.
4. Shut tractor engine off and remove switch key.
5. Lift driveline (#5) off of driveline support (#6).
6. Driveline support (#6) will rotate up until secure against A-frame (#8) as it is spring loaded.
7. Collapse driveline (#5) by pushing tractor end of driveline toward the gearbox.

IMPORTANT: Skip to "Check Driveline Collapsible Length" on page 12 if driveline is too long to start onto tractor PTO shaft.

8. Pull back on driveline yoke collar (#7) and push driveline yoke onto the tractor PTO shaft. Release pull collar and continue to push driveline yoke forward until pull collar locks in place.
9. The driveline should now be moved back and forth to ensure both ends are secured to the tractor PTO shaft and gearbox input shaft. Reattach any end that is loose.



Tractor Hook-Up
Figure 1-4

Section 1: Assembly & Set-up

Check Clearances

1. Return to tractor and slowly raise and lower cutter carefully to ensure drawbar, tires, and other equipment on the tractor do not contact cutter frame. Move or remove drawbar if it interferes with cutter.
2. Manually adjust one of the lower lift arms up or down to level the Rotary Cutter from left to right.
3. Manually adjust length of top-center-link to align center hitch pin vertically above lower hitch pins. Final deck leveling adjustments will be made later.

Check Driveline Collapsible Length

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

1. Make sure driveline is properly installed and level before checking driveline collapsible length. (Refer to “**Driveline Installation**” instructions on page 10.)

Refer to Figure 1-5:

2. With driveline level, measure (“**B**” dimension) back from universal joint shield to end of outer driveline shield as shown in Figure 1-5. If measurement is less than 1”, then shorten driveline using instructions provided below.

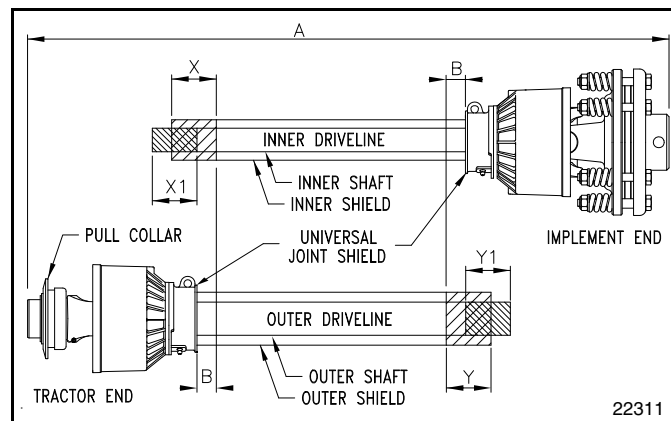
Shorten Driveline

Refer to Figure 1-5:

Be sure to check driveline collapsed length first. If required, shorten driveline.

1. Unhook driveline tractor PTO shaft. Pull outer and inner drivelines apart.
2. Reattach outer driveline to tractor PTO shaft. Pull on inner and outer driveline yokes to be sure universal joints are properly secured.
3. Hold inner and outer drivelines parallel to each other:
 - a. Measure 1” (“**B**” dimension) back from outer driveline universal joint shield and make a mark at this location on the inner driveline shield.
 - b. Measure 1” (“**B**” dimension) back from the inner driveline universal joint shield and make a mark at this location on the outer driveline shield.
4. Remove driveline from tractor PTO shaft and gearbox shaft.
5. Measure from end of inner shield to scribed mark (“**X**” dimension). Cut off inner shield at the mark. Cut same amount off the inner shaft (“**X1**” dimension).
6. Measure from end of outer shield to scribed mark (“**Y**” dimension). Cut off outer shield at the mark. Cut same amount off the outer shaft (“**Y1**” dimension).
7. Remove all burrs and cuttings.

8. Continue with “**Check Driveline Maximum Length**”.



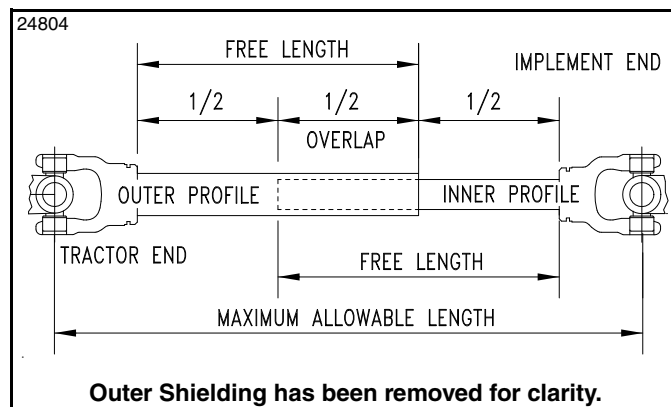
Driveline Shortening
Figure 1-5

Check Driveline Maximum Length

Refer to Figure 1-6:

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

1. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.



Driveline Maximum Extended Length
Figure 1-6

2. Assemble the two driveline profiles together with just 1/2 overlapping of the profile tubes as shown. Once assembled, measure and record maximum allowable length here. _____
3. Continue with “**Check Driveline Interference**” on page 13.

Section 1: Assembly & Set-up

Check Driveline Interference

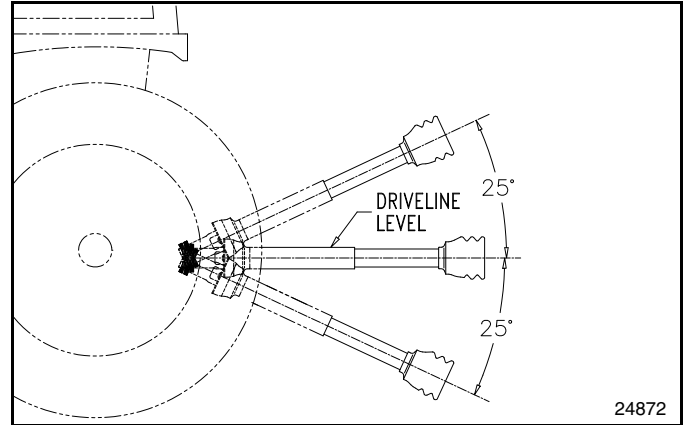
Refer to Figure 1-7:

1. Make certain driveline yokes are properly attached.
2. Start tractor and raise Rotary Cutter just enough to remove support blocks from under the cutter.
3. Slowly engage tractor hydraulic 3-point control lever to lower cutter while checking for sufficient drawbar clearance. Move drawbar ahead, aside, or remove if required.

WARNING

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

4. With PTO off, raise implement fully up to make the following checks below. If driveline exceeds any of the limits listed, set tractor 3-point lift limiter at a height that will keep the driveline within its lift limits and to avoid premature driveline breakdown.
 - Driveline does not exceed 25° up.
 - Driveline does not exceed maximum allowable length recorded in step 2 under “**Check Driveline Maximum Length**”.



Maximum PTO Driveline Movement During Operation
Figure 1-7

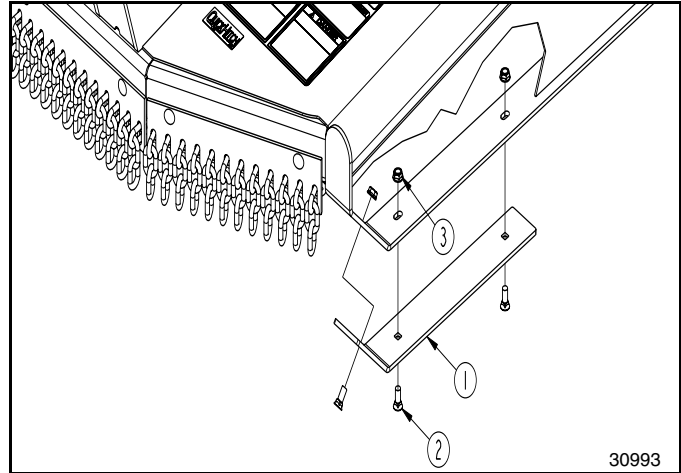
Replaceable Skid Shoes (Accessory)

Refer to Figure 2-1:

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

Replaceable skid shoes can be purchased from your nearest Land Pride dealer. They bolt to the weld-on skid shoes and help protect weld-on skid shoes and side skirts from wear.

1. Attach skid shoes (#1) to weld-on skid shoes with 3/8"-16 x 1" GR5 plow bolt (#2) and whiz nuts (#3).
2. Tighten whiz nuts to the correct torque.



Skid Shoe Accessory
Figure 2-1

Optional Front Guards

DANGER

Rotary Cutters have the ability to discharge objects at high speeds; therefore, the use of front and rear safety guards is strongly recommended when cutting along highways or in areas where people may be present.

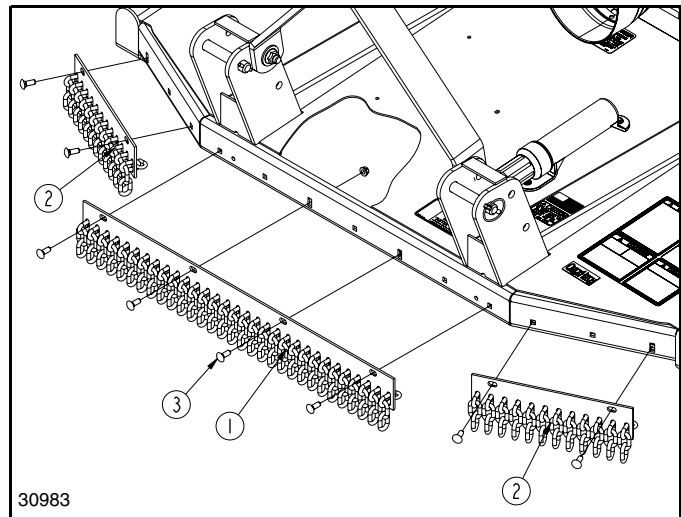
WARNING

Not all objects will be stopped by safety guards. Therefore, 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 within several hundred feet.

Front Single Chain Guard Assembly

Refer to Figure 2-2:

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

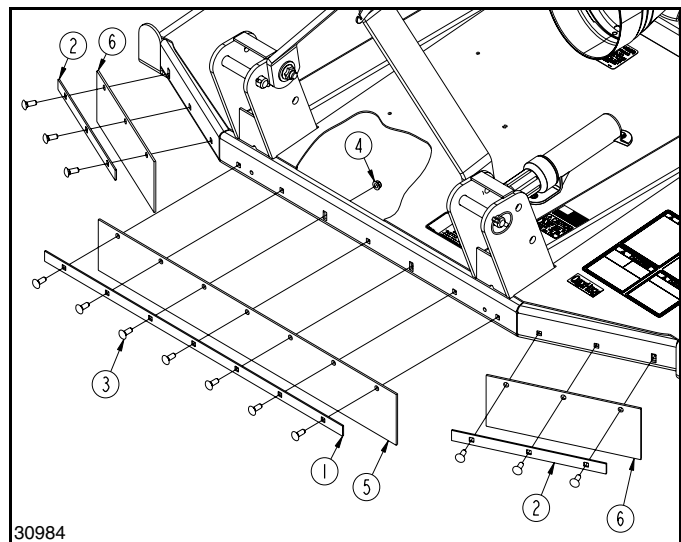


Front Single Chain Guard Option
Figure 2-2

Front Rubber Guard Assembly

Refer to Figure 2-3:

1. Install Front Rubber Guards (#5 & #6) as shown with 3/8"-16 x 1" GR5 carriage bolts (#3), front deflector straps (#1 & #2), and hex whiz nuts (#4).
2. Tighten all nuts to the correct torque.



Front Rubber Guard Option
Figure 2-3

Optional Rear Guards



DANGER

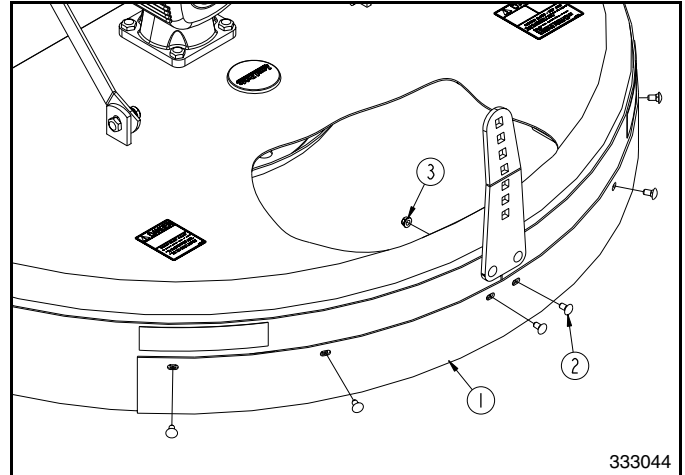
Do not operator cutter without a rear guard. Do not remove rear guard unless it is replaced by an approved

Removal of Rear Metal Band Deflector

Refer to Figure 2-4:

A metal band deflector is supplied standard with the cutter and must be removed before the optional Rear Single Chain Guard or Rear Rubber Guard can be installed.

1. Unscrew 3/8" hex whiz nuts (#3).
2. Remove carriage bolts (#2) and Rear Metal Band Deflector (#1).
3. Reattach whiz nuts (#3) and carriage bolts (#2) to metal band deflector (#1) for safe keeping.
4. Store Rear Metal Band Deflector with hardware for future use when not using chain guard or rubber guard.



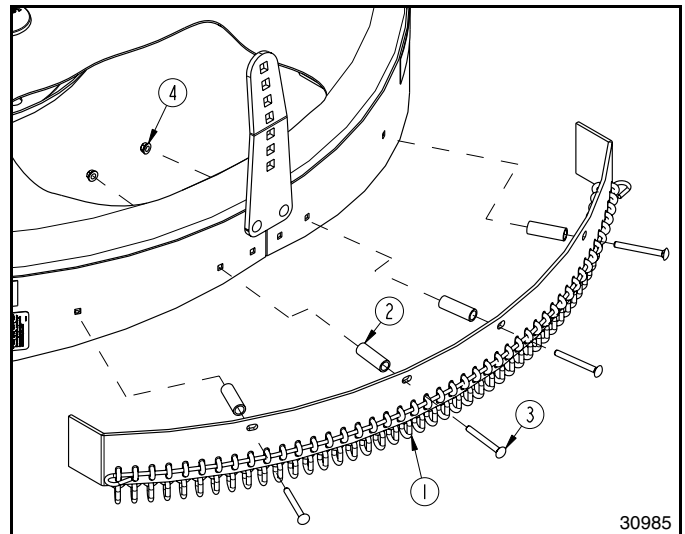
Rear Metal Band Deflector (Standard)
Figure 2-4

333044

Rear Single Chain Guard

Refer to Figure 2-5:

1. Remove Rear Metal Band Deflector. See “**Removal of Rear Metal Band Deflector**” above.
2. Install rear chain guard (#1) with 3/8"-16 x 3 1/2" GR5 carriage bolts (#3), deflector spacers (#2), and 3/8" whiz nuts (#4).
3. Tighten all hex whiz nuts (#4) to the correct torque.



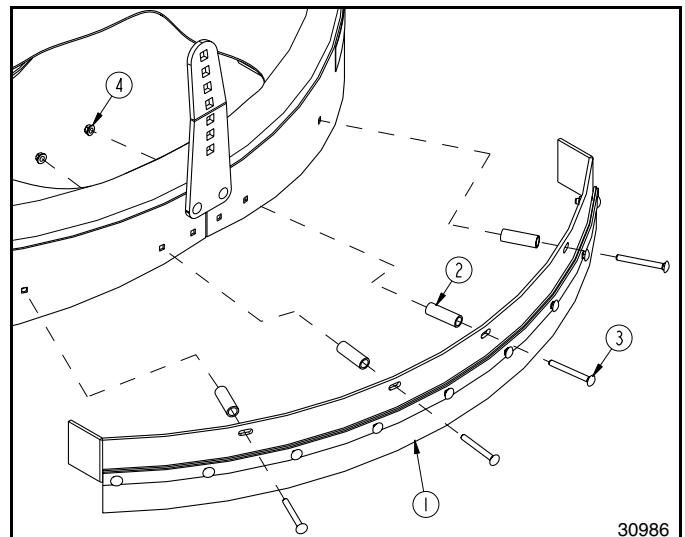
Rear Single Chain Guard Option
Figure 2-5

30985

Rear Rubber Guard installation

Refer to Figure 2-6:

1. Remove Rear Metal Band Deflector. See “**Removal of Rear Metal Band Deflector**” above.
2. Install Rear Rubber Guard (#1) with 3/8"-16 x 3 1/2" GR5 carriage bolts (#3), deflector spacer (#2), and 3/8" whiz nuts (#4).
3. Tighten all hex whiz nuts (#4) to the correct torque.



Rear Rubber Guard Option
Figure 2-6

30986

Section 3: Adjustments

Deck Leveling & Cutting Height

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

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

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

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

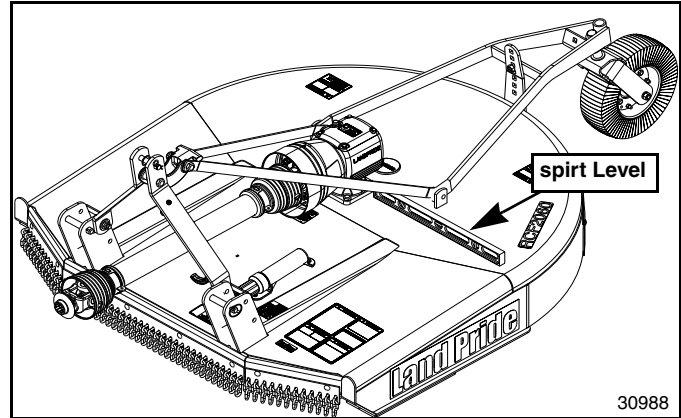
! WARNING

Always disengage PTO, 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.

Deck Leveling From Left to Right

Refer to Figure 3-1:

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



Deck Leveling
Figure 3-1

Deck Cutting Height

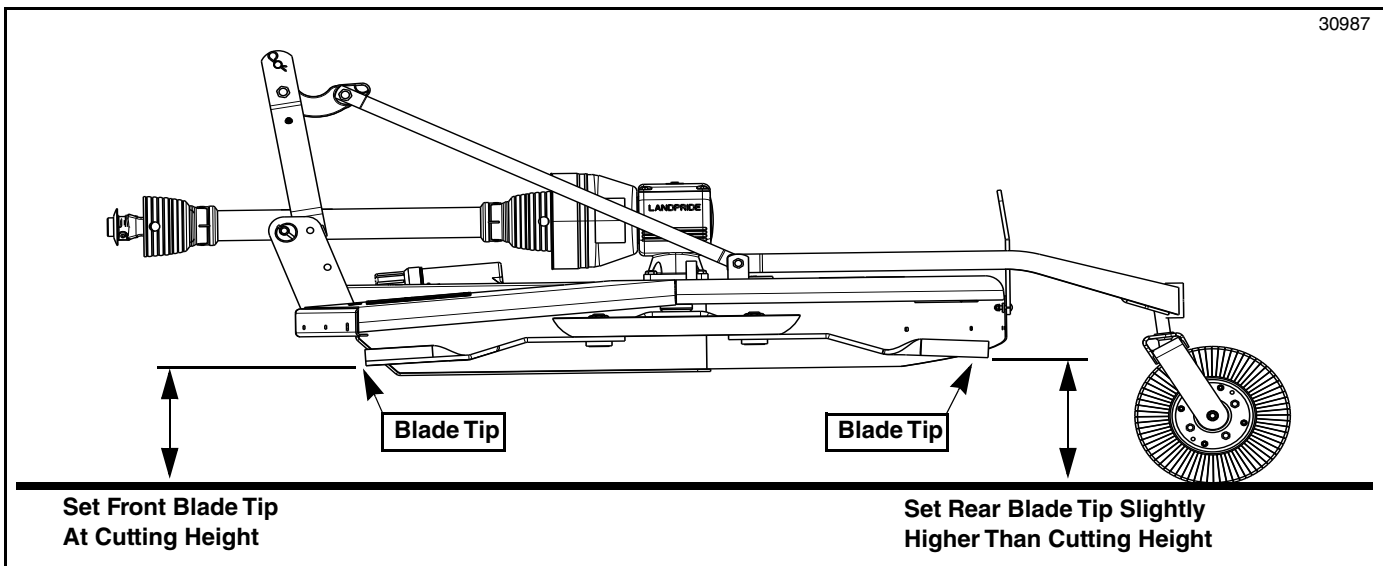
Refer to Figure 3-2:

! CAUTION

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

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

1. With gloves on, carefully rotate each blade tip to the position shown in Figure 3-2.
2. Measure distance from cutting tip of front blade to ground surface. This distance is the cutting height.



Cutting Height
Figure 3-2

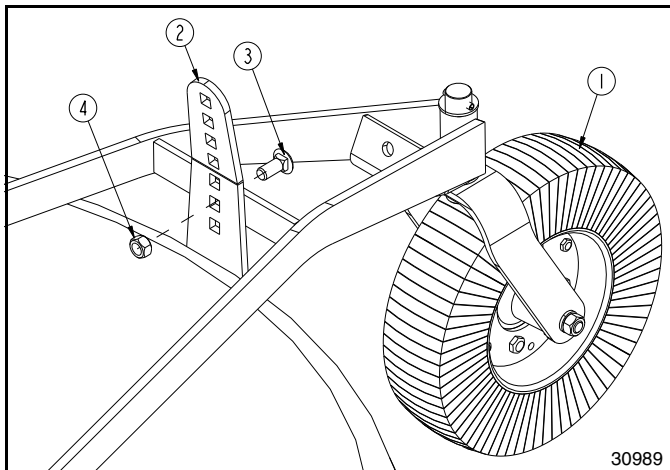
Section 3: Adjustments

3. Using tractor's 3-point hydraulic control, raise or lower 3-point lift arms until the front blade tip is at the desired cutting height.
4. The top center link should be loose when deck rear is supported by the tailwheel. If not, lengthen center link until loose. Final adjustment will be made later.
5. Measure distance from cutting tip of rear blade to ground. This distance should be slightly higher than the front blade but not more than 1" higher.
6. If rear blade is lower than the front blade or is more than 1" higher than the front blade, then the tailwheel height must be adjusted. If needed, see "**Tailwheel Height Adjustment**" instructions below.
7. Repeat steps 1 through 6 until tailwheel and 3-point arms are adjusted to the desired cutting height.
8. Set tractor's 3-point hydraulic control stop once the tailwheel and 3-point arms are adjusted properly.

Tailwheel Height Adjustment

Refer to Figure 3-3:

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

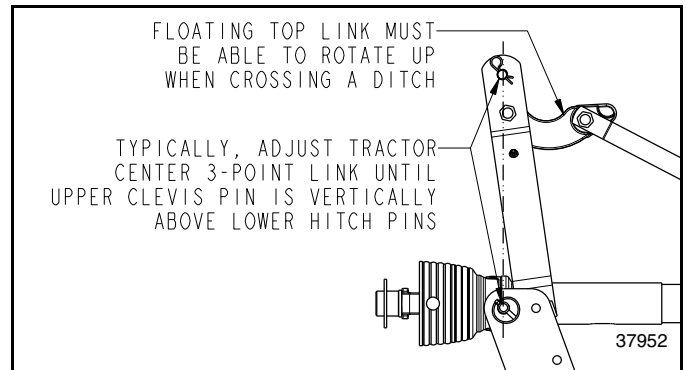


Tailwheel Height Adjustment
Figure 3-3

1. Use tractor's 3-point hydraulic control to lift cutter until tailwheel (#1) clears the ground.
2. Remove hex top locknut (#4) and carriage bolt (#3).
3. Adjust tailwheel as follows:
 - To lower cutting height, raise tailwheel up.
 - To increase cutting height, lower tailwheel down.
4. With tailwheel adjusted to the correct height, replace 5/8"-11 x 1 1/2" GR5 carriage bolt (#3) and top locknut (#4). Tighten top locknut to the correct torque.
5. Readjust tractor's lower 3-point lift arms as needed. See **Deck Cutting Height** instructions on page 16.

Tractor Center 3-Point Adjustment

Refer to Figure 3-4:



Center 3-Point Link Adjustment
Figure 3-4

1. Lower cutter deck to the nominal cutting height.

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

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

Section 4: Operating Instructions

Operating Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Rotary Cutter. Therefore, it is absolutely essential that no one operates the Rotary Cutter without first having read, fully understood, and become totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, pages 1 to 6
- **Section 1: Assembly & Set-up**, page 8
- **Section 2: Accessory & Options Set-up**, page 14
- **Section 3: Adjustments**, page 16
- **Section 4: Operating Instructions**, page 18
- **Section 5: Maintenance & Lubrication**, page 22

The following inspection should be performed before using the cutter.

Operating Checklist

| ✓ | Check | Page No. |
|---|---|----------|
| | Make sure all guards and shields are in place. Refer to "Important Safety Information". | Page 1 |
| | Follow hook-up & driveline installation. Refer to "Tractor Hook-Up" & "Driveline Installation". | Page 10 |
| | Make all required adjustments. Refer to "Section 3: Adjustments". | Page 16 |
| | Perform all required maintenance. Refer to "Section 5: Maintenance & Lubrication". | Page 22 |
| | Lubricate cutter and driveline as needed. Refer to "Lubrication Points". | Page 26 |
| | Lubricate all gearboxes and replace oil plugs properly. Refer to "Gearbox". | Page 26 |
| | Check cutter initially and periodically for loose bolts and pins. Refer to "Torque Values Chart". | Page 32 |

Safety Information

 **DANGER**

To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, who have been properly trained in the safe operation of this implement, and who are age 16 or older. 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 can break apart while rotating at high speeds causing serious injury or death. Always remove implement from service until the damaged driveline can be repaired or replaced.
- Always disconnect driveline from tractor PTO shaft before servicing underside of cutter. If tractor is started with PTO engaged, the cutter can cause bodily injury or death.
- Tractor PTO shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid injury or death from driveline entanglement and projectiles flying off of the driveline.

- All guards and shields must be installed and in good working condition while operating implement to avoid injury or death.
- Do not engage tractor PTO while hooking-up and unhooking driveline or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline resulting in serious injury or death.
- Keep others away while cutter is operating. It can discharge objects at high speeds. The use of front and rear safety guards is required when cutting along highways and in areas where people may be present. Stop blade rotation if a bystander is within several hundred feet.
- Never place hands or feet under the deck or attempt to make adjustments to the cutter with PTO engaged. Cutter blades rotating at high speeds cannot be seen and are located close to the deck housing. Body extremities can be cut off instantly.
- Do not operate and/or travel across steep inclines where tractor and/or implement can rollover resulting in serious injury or death. Consult your tractor's manual for acceptable inclines the tractor is capable of traveling across.
- Do not use cutter as a fan. Cutting blades are not properly designed or guarded for this use. Using cutter as a fan can result in injury or death.

 **WARNING**

To avoid serious injury or death:

- Do not over-speed PTO or equipment breakage may result. Some tractors are equipped with multispeed PTO ranges. Be certain your tractor's PTO does not exceed 540 RPM.
- Always disengage PTO, 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.
- A rotating driveline must not exceed an angle of 25 degrees up or down, and never engage a driveline while at an angle exceeding 25 degrees up or down. The driveline can break and send flying projectiles causing serious bodily injury or death.
- Always disengage PTO before lifting cutter fully up. Never operate cutter in the raised position. The cutter can discharge objects at high speeds resulting in serious injury or death.
- Never carry riders on the tractor or implement. Riders can be struck by foreign objects, pinched by moving components, thrown by sudden shifts in movement, entangled in rotating components, can fall from equipment, or can obstruct the operator's view causing serious injury or death.
- Do not use a PTO adapter. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage to shaft and driveline. It will also defeat the purpose of the tractor's PTO shield and could cause bodily injury or death.
- Do not use deck as a working platform. It is not properly designed or guarded for this use. Using it as a working platform can cause serious injury or death.

Section 4: Operating Instructions

- Keep blade bolt access hole covered at all times except when servicing cutter blades. Make sure driveline is disconnected from the tractor before servicing cutter blades.
- Perform schedule maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and high wear. Make repairs before putting the implement back into service. Serious breakdowns can result in injury or death.
- Use this implement for its intended purpose only. Do not use implement to lift or carry objects; to pull fence posts, stumps, or other objects; or to tow other equipment. Doing so can damage the unit, cause serious bodily injury, or death.

CAUTION

To avoid serious injury:

- Buildup of debris around moving parts and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.
- Do not exceed rated cutting capacity of your cutter. See specifications & capacities for specified cutting capacity. Exceeding rated cutting capacities can damage drive components, cutter blades, and deck components.

Inspection of Tractor & Cutter

Make the following inspections with cutter attached to a tractor, PTO disengaged, and completely stopped:

1. Park tractor and cutter on a level surface.
2. Disengage PTO, 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 PTO 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 deck resting on solid supports, PTO 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 22.

9. Remove solid supports from under the deck.
10. Verify cutter is set at the correct cutting height. See **“Deck Leveling & Cutting Height”** on page 16.

The remaining inspections are made by engaging the PTO to check for vibrations.

WARNING

Stop PTO immediately if vibration continues after a few revolutions during start-up and anytime thereafter. Wait for PTO to come to a complete stop before dismounting from tractor to check for probable causes. Make necessary repairs and adjustments before continuing.

IMPORTANT: Do not exceed implement's rated PTO speed. Excessive speed will cause damage to the power train components.

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

Transporting

WARNING

When traveling on roadways, transport in such a way that other vehicles may pass safely. Use accessory lights, clean reflectors, and a slow moving vehicle (SMV) sign that are visible to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.

IMPORTANT: Always disengage PTO before raising 3-point arms and implement to transport position.

1. Make sure driveline does not contact tractor or cutter when raising cutter to transport position.
2. Reduce tractor ground speed when turning and leave enough clearance so cutter does not contact obstacles such as buildings, trees, or fences.
3. Limit transport speed to 20 mph. Transport only with a 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.

Section 4: Operating Instructions

Blade Engagement & Disengagement

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

Blade Engagement

1. Increase throttle to a speed just enough to get the cutter started without stalling tractor while slowly engaging PTO drivelines. Use tractor’s PTO 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 PTO speed for at least 3 seconds. If excessive vibration continues after 3 seconds at full PTO speed, disengage PTO immediately, shut down tractor, and remove switch key.
3. Check blades for a lock-up situation. Block cutter deck up before working under the unit. Unlock blades, remove support blocks, and repeat “**Blade Engagement**” instructions.

Blade Disengagement

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

Unhook Rotary Cutter

Unhook Rotary Cutter from the tractor as follows:

1. See “**Long Term Storage**” on page 25 if cutter is to be stored for a long time.
2. Park on a level solid surface and lower deck to ground level or onto blocks supporting the deck just above ground level.
3. Engage tractor park brake, shut tractor engine off, and remove switch key. Stay on tractor until blades have come to a complete stop.
4. Pull back on driveline pull collar and hold while pulling driveline yoke from tractor PTO shaft.
5. Unhook 3-point hitch from tractor and drive tractor forward several feet.
6. Reinstall hitch pins, linchpins, and hair pin cotters in cutter hitch for safe keeping.
7. Collapse driveline by pushing tractor end of driveline towards cutter gearbox.
8. Rotate driveline storage hook down and place driveline in storage hook.

Field Operation



Clear area to be cut of debris and other unforeseen removable objects before cutting. Mark any potential hazards that cannot be removed such as tree stumps, post, rocks, holes, and drop-offs with a visible flag.

IMPORTANT: Maintain correct PTO speed. Loss of PTO speed will allow blades to swing back resulting in ragged, uneven cutting. Excessive engine speed will cause damage to the power train components.

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

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

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

NOTE: Frequently inspect cutter for loose bolts and nuts. Tighten all loose hardware as indicated in the “**Torque Values Chart**” on page 32.

1. Thoroughly inspect area to be cut for debris and unforeseen objects. Mark any potential hazards.
2. Follow “**Blade Engagement**” instructions on right side of this page to start cutter blades turning.
3. Optimum ground speed depends on density of material being cut, horsepower rating of tractor, and terrain. Always operate tractor at cutter’s full rated PTO speed in a gear range that allows the cutter to make a smooth cut without lugging the tractor down, usually between 2 to 5 mph.
4. Follow “**Blade Disengagement**” instructions on right side of this page to stop cutter blades. After the first 50 feet, disengage PTO and check to see that the cutter is adjusted properly.
5. Do not engage PTO when cutter is fully raised.
6. Periodically disengage PTO, shut down tractor, remove key, and check for foreign objects wrapped around the blade spindle. Block cutter deck up before removing objects.
7. Frequently inspect cutter for loose bolts and nuts. Tighten all loose bolts and nuts as indicated in the “**Torque Values Chart for Common Bolt Sizes**” on page 32.
8. For additional information, see “**General Operating Instructions**” on page 21.

Section 4: Operating Instructions

General Operating Instructions

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

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

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

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

It is important that you inspect the area where you will be cutting and clear it of safety hazards and foreign objects either before or after you arrive at the cutting site. Never assume the area is clear. Cut only in areas you are familiar with and are free of debris and unseen objects. Extremely tall grass should be cut twice to detect potential hazards. In the event you do strike an object stop the cutter and tractor immediately to inspect and make necessary repairs to the cutter before resuming operation. It really pays to inspect a new area and to develop a safe plan before cutting.

You will need to maintain 540 RPM PTO speed and 2 to 5 mph ground speed to produce a clean cut. Make a tractor gear and range selection that will enable you to maintain these speed combinations. Generally the quality of cut is better at lower ground speeds. Dense ground cover will create the need to slow down even more. In certain conditions tractor tires will roll grass down resulting in an uneven cut when the grass fails to rebound. Should this happen you may try reversing the direction of cut and/or double cut to achieve the desired finish. Avoid very low cutting heights especially on extremely uneven terrain. Always cut downward on slopes and avoid crossing the face of steep slopes. Avoid sharp drops and cross diagonally through dips to prevent hanging up the tractor and cutter. Slow down in turns. Remember to look back often. Now that you're prepared and well briefed you may begin cutting. Begin mowing by doing the following:

- Reducing tractor's engine RPM and set cutter is on the ground in the cutting position.
- Engage PTO and then raise engine RPM to the appropriate PTO speed and begin cutting.

Make wide turns when possible. Three-point hitch and optional Quick Hitch models can be lifted into transport position to make tight turns and to reverse direction. Try increasing or decreasing ground speed to determine the effect on quality of cut. With a little practice you will be pleased with what you and your Land Pride Rotary Cutter can do. Whether you are done mowing, need to take a break, or just need to make a few adjustments to the cutter, remember to always do the following:

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

Section 5: Maintenance & Lubrication

Maintenance

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

Check all bolts and pins after using the unit for several hours and on a regular basis thereafter to ensure they are tight and secured. Replace worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride Dealer.

DANGER

To avoid serious injury or death:

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

WARNING

Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or have the same quality. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine Land Pride parts.

CAUTION

To avoid serious injury:

- Buildup of debris around moving parts and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.

Cutter Blade Maintenance

WARNING

To avoid serious injury or death:

- Keep blade bolt access hole covered at all times except when servicing cutter blades. Make sure driveline is disconnected from the tractor before servicing cutter blades.
- 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 from the cutter at high speeds causing serious injury or death.
- 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 new Land Pride blades to assure safety.

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

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

Remove blades and sharpen or replace as follows:

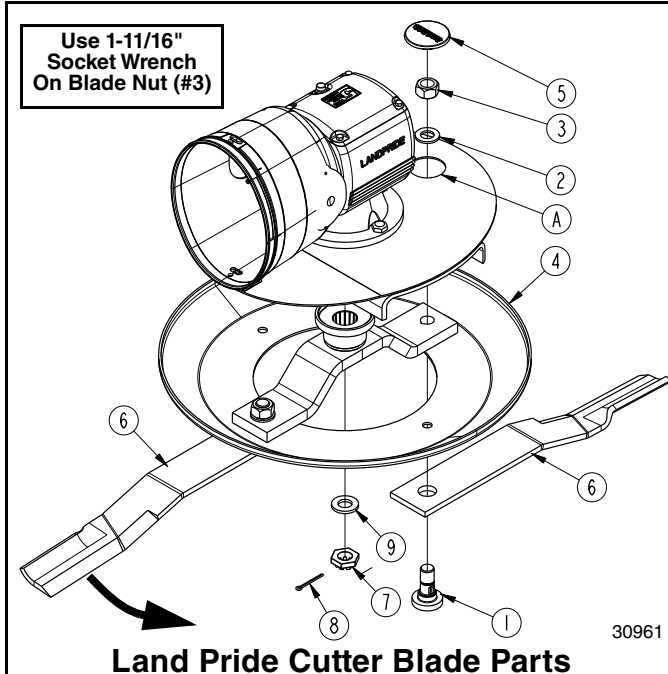
1. Place tractor gear selector in park and set brakes, shut engine off, and remove ignition key.
2. Disconnect main driveline from tractor PTO and secure cutter deck in the up position with solid supports before servicing underside of cutter.
3. Inspect cutting blades. Make certain they are properly installed and are in good working condition. Replace any blade that is damaged, worn, bent, or excessively nicked. Small nicks can be ground out.

Refer to Figure 5-1 on page 23:

4. Remove access cover (#5).
5. Rotate blade bolt (#1) until in alignment with access hole (A).
6. Blade bolt (#1) is keyed and will not turn freely. Unscrew locknut (#4) to remove cutting blade (#6).
7. Repeat steps 5 & 6 for the other blade.
8. Both blades should be sharpened at the same angle as the original cutting edge and must be replaced or re-ground at the same time to maintain proper balance. The following precautions should be taken when sharpening blades:
 - a. Do not remove more material than necessary.
 - b. Do not heat and pound out a cutting edge.
 - c. Do not grind blades to a razor edge. Leave a blunt cutting edge approximately 1/16" thick.
 - d. Always grind cutting edge so end of blade remains square to cutting edge and not rounded.
 - e. Do not sharpen back side of blade.
 - f. Both blades should weigh the same with not more than 1 1/2 oz. difference. Unbalanced blades will cause excessive vibration which can damage gearbox bearings and create structural cracks.
9. Carefully check cutting edges of blades in relation to blade carrier rotation to ensure correct blade placement. Blade rotation is counterclockwise with cutting edge leading. Airfoil (lift) must be oriented towards the top of the deck.

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

Section 5: Maintenance & Lubrication



Land Pride Cutter Blade Parts

| Item | Part No. | Part Description |
|------|----------|--|
| | 318-586A | BLADE BOLT KIT (items 1, 2, & 3 below) |
| 1 | 802-277C | BLADE BOLT 1 1/8-12 x 3 7/16 WITH KEY |
| 2 | 804-147C | WASHER FLAT 1 HARD ASTM F436 |
| 3 | 803-170C | NUT HEX TOP LOCK 1 1/8-12 PLATE |
| 4 | 312-815H | RCF2060 DISHPAN WELDMENT |
| 5 | 840-273C | PLUG LP 3" ID RUBBER |
| 6 | 820-198C | RCF2060 STANDARD BLADE 25"LG. CCW |
| 6 | 820-199C | RCF2072 STANDARD BLADE 31"LG. CCW |
| 6 | 820-212C | RCF2060 LOW LIFT BLADE 25"LG. CCW |
| 6 | 820-213C | RCF2072 LOW LIFT BLADE 31"LG. CCW |

Cutter Blade Assembly (Counterclockwise Rotation)
Figure 5-1

IMPORTANT: Locknuts can lose their ability to lock properly once removed. Always use a new locknut when installing blades.

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

Driveline Protection

The drive-train is protected from shock loads with a shear bolt or a slip clutch depending on which option the cutter is set-up with.

Shearbolt Protected Drivelines

The Standard Shear Bolt Driveline is secured to the cutter with a shearbolt for protection of driveline and gearbox. The shearbolt is designed to shear off when the blade impacts objects that the cutter is not designed to cut through. Replace shearbolt & nuts with genuine Land Pride part numbers only. Refer to Figure 1-3 on page 10.

- 802-264C SHEARBOLT
- 803-020C HEX NUT
- 803-036C HEX JAM NUT

Slip-Clutch Protected Drivelines

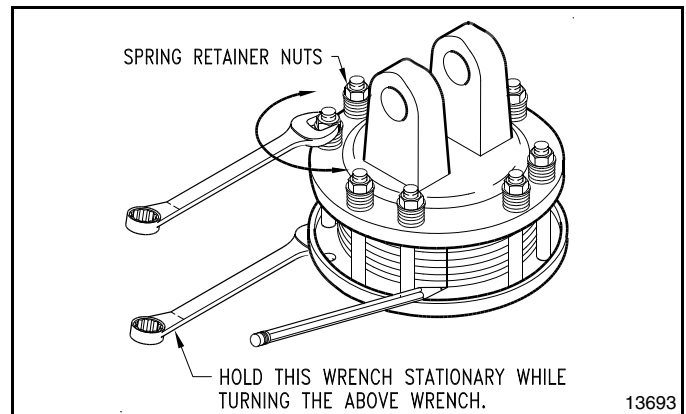
The drivetrain is protected from shock loads with a two plate slip-clutch. The slip-clutch must be capable of slippage during operation. Always do a “clutch run-in” operation at the beginning of each season and after long periods of inactivity to remove any oxidation that may have accumulated on the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

WARNING

Always disengage PTO, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for all moving parts to stop before dismounting tractor to make adjustments.

Clutch Run-In

Refer to Refer to Figure 5-2:

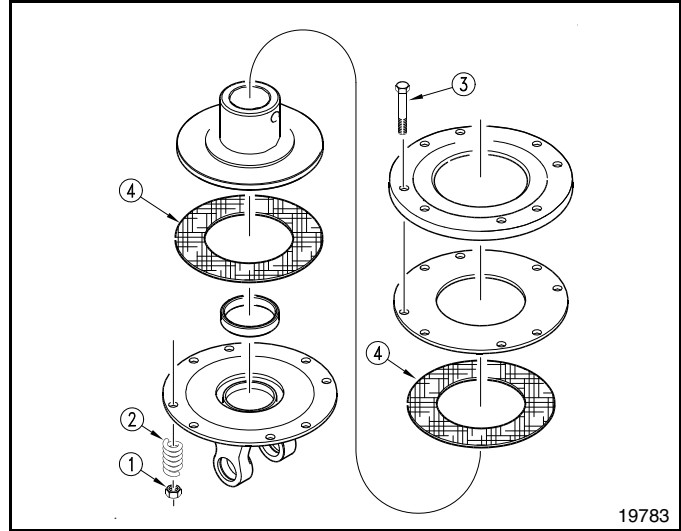


Clutch Run-In
Figure 5-2

1. Using a pencil or other marker, scribe a line across the exposed edges of the clutch plates and friction discs.
2. Carefully loosen each of the 8 spring retainer nuts by exactly 2 revolutions. It will be necessary to hold hex end of retainer bolt in order to count the exact number of revolutions.

Section 5: Maintenance & Lubrication

3. Start tractor and engage PTO drive for 2-3 seconds to permit slippage of the clutch surfaces. Disengage PTO, then re-engage a second time for 2-3 seconds. Disengage PTO, shut off tractor, and remove key. Wait for all components to stop before dismounting from tractor.
4. Inspect clutch and ensure that the scribed markings made on the clutch plates have changed position. Slippage has not occurred if any two marks on the friction disc and plate are still aligned. A clutch that has not slipped must be disassembled to separate the friction disc plates. See “Clutch Assembly and Disassembly” on page 24.
5. Tighten each of the 8 spring retainer nuts on the clutch housing exactly 2 revolutions to restore the clutch to the original setting pressure.
6. The clutch should be checked during the first hour of cutting and periodically each week. An additional set of scribe marks can be added to check for slippage. See Figure 5-4 on page 24 to adjust spring length.



Clutch Disassembly
Figure 5-3

Clutch Assembly and Disassembly

Disassembly

Refer to Figure 5-3:

IMPORTANT: Refer to Figure 5-4. Be Sure to measure and record length (“A”) of each clutch spring before disassembling clutch.

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

Inspection

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

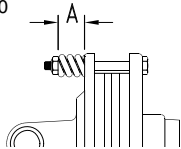
Assembly

Refer to Figure 5-4:

Reassemble each friction disc (#4) next to the metal plate it was separated from. Install bolts (#3) through the end plates and intermediate plates as shown. Place springs (#2) over bolts (#3) and secure with nuts (#1).

Refer to Figure 5-4:

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

| 24600 |  | <p>A = Measured length of each spring before disassembling slip clutch.</p> <p>Use “A” dimension in table below if measurements were not taken before disassembling slip clutch.</p> | | |
|-----------|--|--|---------|--------------------------|
| Model No. | Driveline No. | PTO Speed | Cat No. | A (inches) Spring Height |
| RCF2060 | 312-026A | 540 | 3 | 1.269" to 1.312" |
| | 826-657C | | | |
| RCF2072 | 312-728A | 540 | 3 | 1.269" to 1.312" |
| | 826-656C | | | |

Clutch Adjustment
Figure 5-4

Accessory Skid Shoe Maintenance

Refer to Figure 5-5 on page 25:

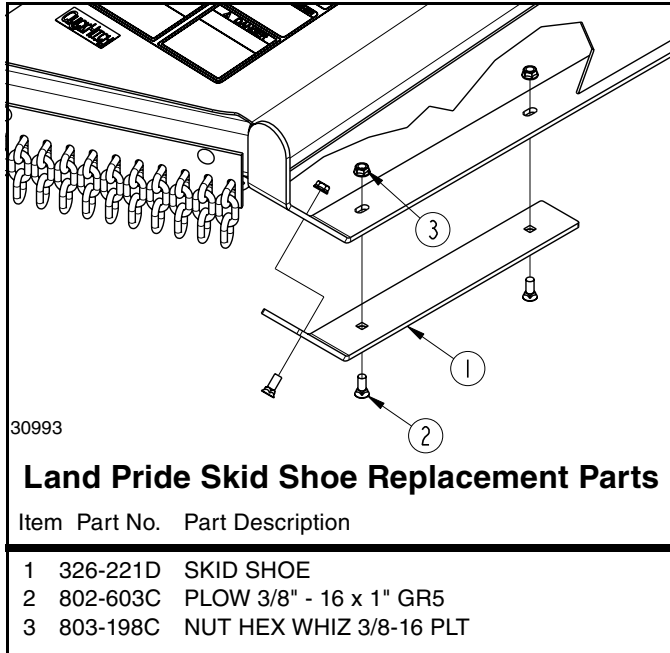
WARNING

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

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

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

Section 5: Maintenance & Lubrication



**Skid Shoe Replacement
Figure 5-5**

Long Term Storage

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

DANGER

Always disconnect driveline from tractor PTO shaft before servicing drive train and cutter blades. The PTO can be engaged if tractor is started causing bodily injury or death.

DANGER

Always secure equipment with solid supports before working under it. Never work under equipment supported by concrete blocks or hydraulics. Concrete blocks can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.

CAUTION

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.

- Clean off any dirt and grease that may have accumulated on the cutter and moving parts. Scrape off compacted dirt from the bottom of deck and then wash surface thoroughly with a garden hose. A coating of oil may also be applied to the lower deck area to minimize oxidation.

- Check blades and blade bolts for wear and replace if necessary. See “**Cutter Blade Maintenance**” on page 22.
- Inspect for loose, damaged or worn parts, and adjust or replace as needed.
- 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 Aerosol Touch-up Paint

| Part No. | Part Description |
|----------|-------------------------------------|
| 821-011C | PAINTE LP BEIGE AEROSOL SPRAY CAN |
| 821-002C | PAINTE LP BLACK AEROSOL SPRAY CAN |
| 821-054C | PAINTE MEDIUM RED AEROSOL SPRAY CAN |
| 821-058C | PAINTE GREEN AEROSOL SPRAY CAN |
| 821-066C | PAINTE ORANGE AEROSOL SPRAY CAN |

- Replace all damaged or missing decals.
- Lubricate as noted in “**Lubrication Points**” starting on page 26.
- Store cutter on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer cutter life.
- Follow all unhooking instructions on page 20 when disconnecting tractor from cutter.

Ordering Replacement Parts

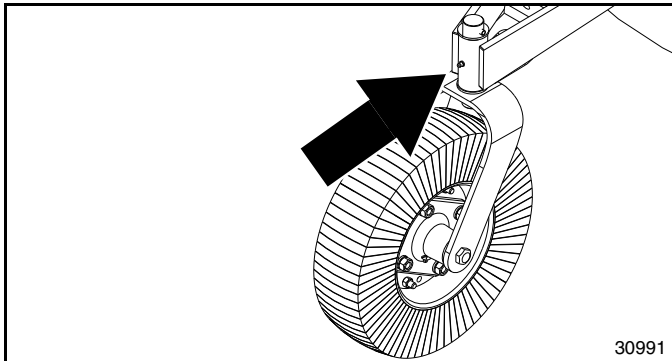
Land Pride offers equipment in factory standard beige color with black highlights. Equipment in special colors may be purchased in Green, Red, or Orange. Because of the variety of colors available, special attention must be given to the part number to prevent ordering the wrong replacement part. A suffix number corresponding to one of the colors below must be added at the end of Land Pride’s part number when ordering a replacement part with that color. Parts ordered without a 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 red, then add the suffix 83 to the end of the number to make the part number read 555-555C83.

Lubrication Points

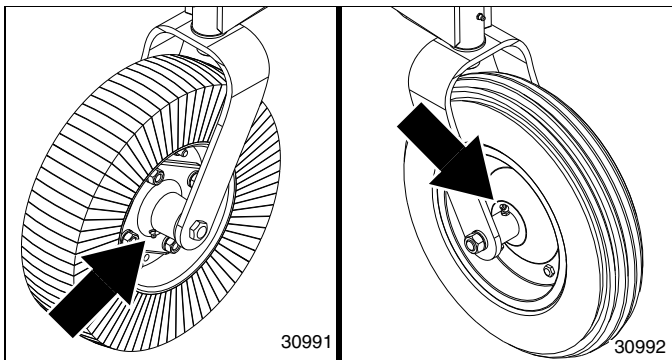
| | | | | | |
|---------------------------|--------------------------|---------------------------|------------------------|--------|---|
| Lubrication Legend | Multi-purpose spray lube | Multi-purpose grease lube | Multi-purpose oil lube | 50 Hrs | Intervals in hours at which lubrication is required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



| | |
|--|----------|
| | 24 Hours |
|--|----------|

Gauge Wheel Spindle Tube

Type of Lubrication: Grease
Quantity = 6 pumps



Laminated Tire

Solid Rubber Tire

| | |
|--|---------|
| | 8 Hours |
|--|---------|

Gauge Wheel Hub

Type of Lubrication: Multi-purpose Grease
Quantity = 2 pumps

| | |
|--|---------|
| | 8 Hours |
|--|---------|

Gearbox

30215

Do Not Overfill

METHOD 1: SCREW DIPSTICK FULLY IN & THEN UNSCREW TO CHECK LEVEL. OIL LEVEL SHOULD BE BETWEEN THE TWO MARKS ON DIPSTICK. ADD OIL IF BELOW BOTTOM MARK.

METHOD 2: OIL SHOULD BE LEVEL WITH BOTTOM OF HOLE. ADD OIL THROUGH DIPSTICK HOLE UNTIL OIL RUNS OUT OF PLUG HOLE.

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

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

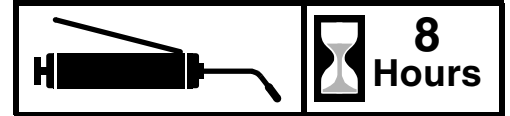
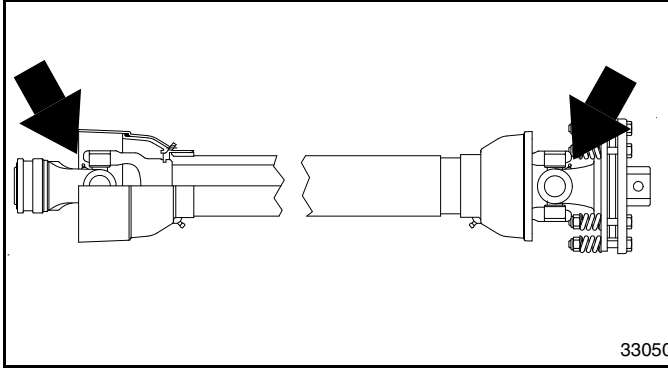
Method 2: Remove side oil plug (#2). If oil is below bottom of plug hole, add recommended gear lube through top dipstick hole until oil flows out of side plug hole. Reinstall and tighten side oil plug (#2) and vented dipstick (#1).

Type of Lubrication: 80-90W EP Gear Lube

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

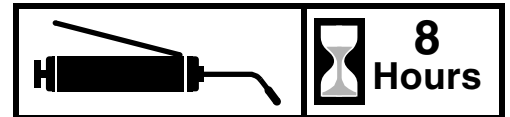
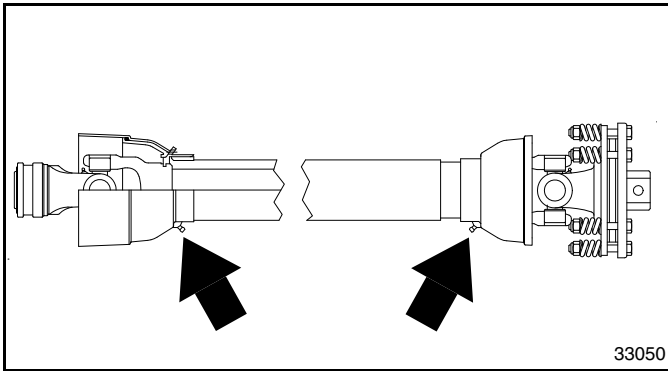
IMPORTANT: This implement is shipped with a vented dipstick packaged in the Operator's Manual bag and should have been installed in the gearbox by your dealer. Please consult your dealer if vented dipstick was not included.

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



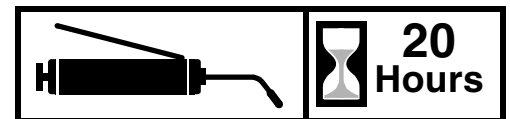
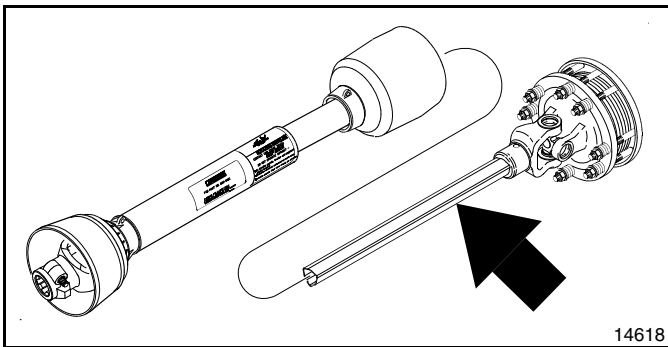
Driveline U-Joints

Type of Lubrication: Grease
Quantity = 6 pumps



Driveline Shield Bearings

Type of Lubrication: Grease
Quantity = 6 pumps



Driveline Profiles

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

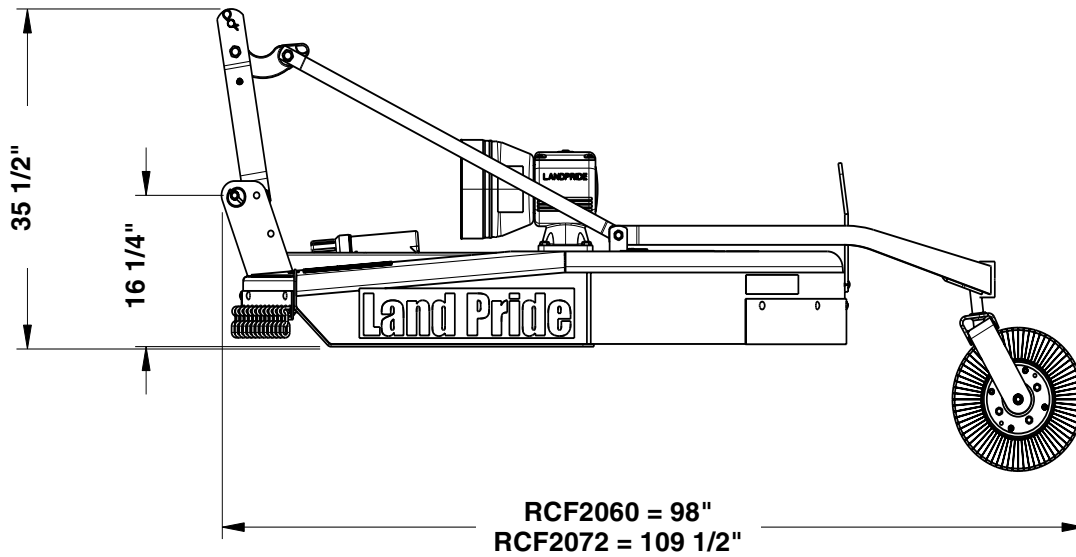
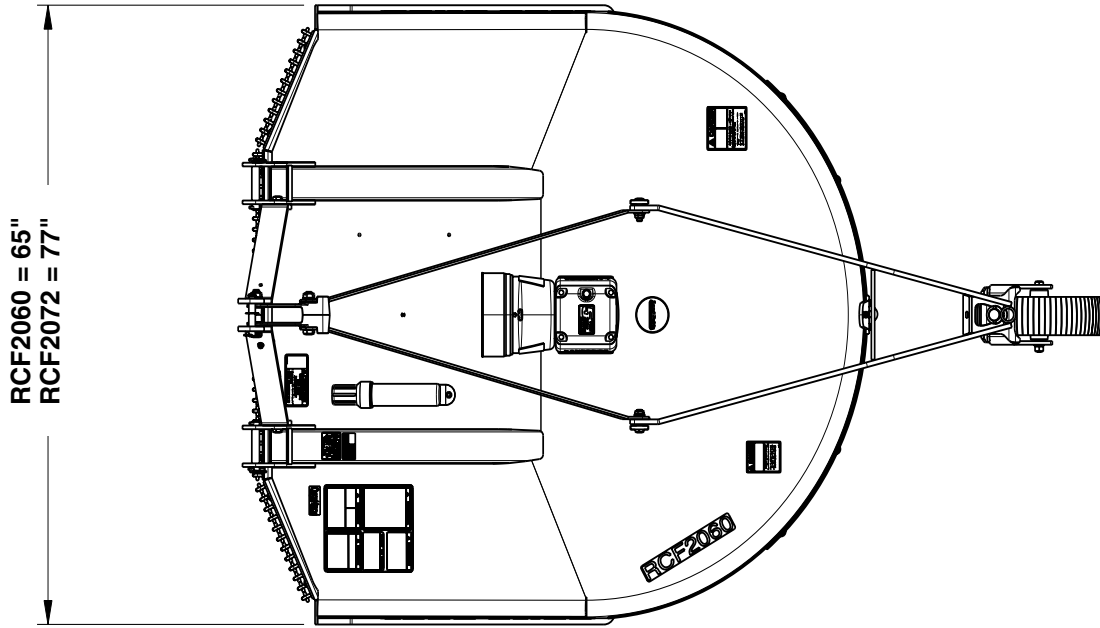
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Section 6: Specifications & Capacities



RCF2060 & RCF2072 Models

| Specifications & Capacities | | |
|--|--|--|
| Model Numbers | RCF2060 | RCF2072 |
| Machine Weight | 620 lbs. | 745 lbs. |
| | With laminated tailwheel, slip clutch driveline, Front Rubber Guards and Rear Metal Band. | |
| Hitch | Category I with floating top linkage, Quick Hitch ready | |
| Cutting Width | 60" | 72" |
| Overall Width | 65" | 77" |
| Overall Length | 98" | 109 1/2" |
| Deck Height (Bottom of Deck to Bottom of Skid Shoe) | 9 11/16" | 11" |
| Cutting Height | 1 1/2" to 12" | |
| Cutting Capacity | 2" Diameter | |
| Recommended Tractor PTO HP | 20-65 HP | |
| PTO Speed | 540 RPM | |
| Gearbox Ratio | 1:1.93 | 1:1.47 |
| Gearbox Construction | Speed-up beveled gears, cast iron housing, 1 3/8"-6 spline input shaft and 2" output shaft | |
| Gearbox Lubricant | EP 80-90W oil | |
| Gearbox oil Capacity | 4.5 Pints | 4 Pints |
| Deck Construction | All welded deck | |
| Deck Material Thickness | 10 Gauge (.134") | |
| Side Skirt Material Thickness | 10 Gauge (.134") | |
| Skid Shoes | Full length weld-on skid shoes | |
| Standard Accessory | 1/4" x 2 1/2" x 18 7/16" Long bolt-on replaceable skid shoes (Bolts to weld-on skid shoes) | |
| Stump Jumper | 10 GA. x 24" Round Pan with 1" thick blade holder bar | |
| Blades (2) | 1/2" x 3" x 25" Heat treated alloy steel free-swinging high lift | 1/2" x 3" x 31" Heat treated alloy steel free-swinging high lift |
| Blade Bolts | Keyed with harden flat washers & lock nuts. | |
| Blade Tip Speed | 16,363 FPM | 14,955 FPM |
| Driveline | ASAE Category 3 | |
| Driveline Protection | Optional | Optional |
| | Shearbolt protection 2 Plate slip clutch | |
| Tailwheel Mount | Welded A-arm and caster fork with 360 degree swivel | |
| Tailwheel | Optional | Optional |
| | 4" x 8" x 15" Laminated tire with cast iron hub 4" x 16" Molded rubber tire | |
| Front Guard | Optional | Optional |
| | Rubber Belting Single Chain Guard | |
| Rear Guard | Standard | Optional |
| | Optional | Optional |
| | Metal Band Rubber Belting Single Chain Guard | |



30997



RCF2060 & RCF2072 Models

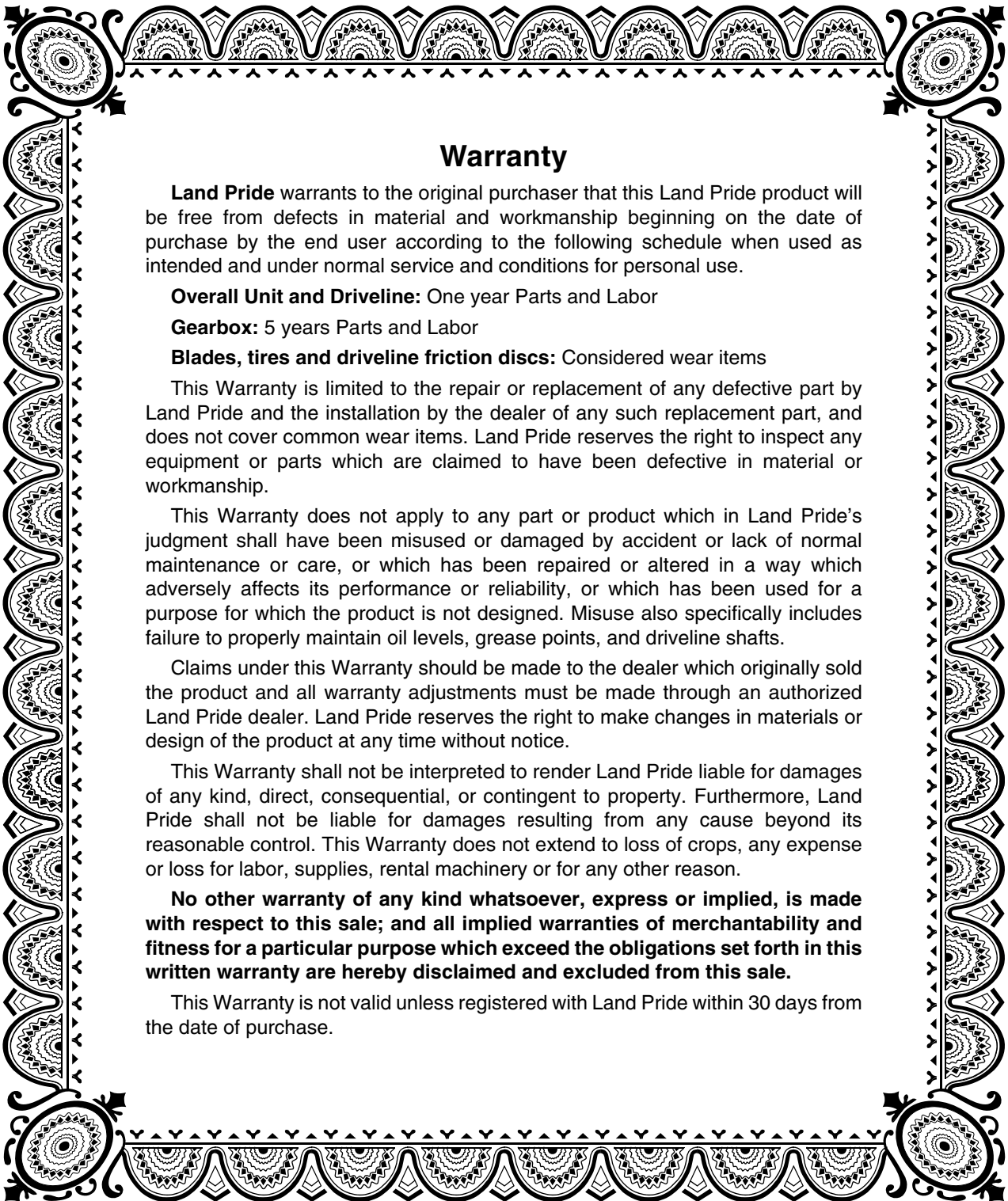
| Features | Benefits |
|--|---|
| Surpassed rugged industry standards | All Land Pride Cutters have been designed and tested and meet rigorous voluntary testing procedures specified by ANSI. |
| 5 Year gearbox warranty | Shows our confidence in the gearbox integrity. |
| Gearbox Seal Protection | Gearbox bottom seal protection for longer bearing life. |
| Cat. 3 driveline with shear-bolt Option | Shear-bolt offers maximum driveline protection. |
| Cat. 3 driveline with 2-plate slip-clutch Option | Slip-clutch driveline offers convenience for continual work. |
| Dual position clevis type 3-point floating top link | Permits deck to follow the terrain for an even cut. |
| Lower clevis type 3-point hitch | Allows for ease of hook-up to tractor. Also adds additional strength allowing for an even pull from the tractor's lower arms, vs. pulling on a single pin design. |
| Heavy 10 gauge deck & side skirt construction | Can withstand more abuse than lighter gauge decks. |
| Box tubing deck supports | Makes for a stronger rigid deck. |
| Fully welded deck | Adds additional strength. |
| Extended cutter front | For increased material flow and added protection. |
| Round back design | Helps discharge grass better than enclosed or partially enclosed cutters. |
| Deck Height | 9 11/16" Deck height on 60" and 11" deck height on 72" model Allows cutter to handle heavy cutting conditions. |
| 1 1/2" to 12" Cutting height | Provides for a wide range of cutting conditions. |
| Full length skid shoes | Provides sidewall reinforcement and full protection to bottom of sidewall. |
| 1/2" x 3" Heat-treated free swinging blades | Free swinging protects from obstructions. Heat-treated offers longer life. |
| Splined blade bar hub | Allows for tight positive fit of stump jumper and blade bar to gearbox output shaft. |
| 10 Gauge stump jumper | Standard round stump jumper slides over stumps, rocks, and debris. |
| High blade tip speed | Ensures clean cut. |
| 15" Laminated tailwheel | Laminated material is long lasting in rough conditions. Can't go flat. |
| 4" x 16" Solid rubber tailwheel | Can't go flat. |
| 1 1/4" Heavy-duty spindle on tailwheel | Tailwheels take a beating, spindle gives the strength to protect tailwheel assembly. |
| Optional Guarding | Protect against flying debris. Customer can choose to include single chain or rubber guarding on the front and back. Rear Metal Band standard on the back. |
| Driveline Holder | Keeps driveline up out of dirt. Easier hook up of driveline. |



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 |
| | PTO being engaged too fast at high engine RPM | Slowly engage PTO at low engine RPM |
| | Cutting over solid objects | Avoid solid objects |
| Bent Driveline (NOTE: driveline should be repaired or replaced if bent) | Contacting frame | Reduce lift height in transport position |
| | Contacting drawbar | Reposition drawbar |
| | Bottoming out | Shorten driveline |
| | Binding up | Not lubricating enough |
| Driveline telescoping tube failing | Shock load | Avoid hitting solid objects |
| Driveline telescoping tube wearing | Needs lubrication | Lubricate every 20 hours |
| Blades Lock-up | Tractor has instant on PTO | Engage PTO at low RPMs and then slowly increase engine speed to full PTO speed. See Blade Engagement on page 20. |
| | Tractor has Instant off PTO | Decrease engine speed slowly to an idle and then disengage PTO. See Blade Disengagement on page 20. |
| Blades wearing excessively | Cutting on sandy ground | Raise cutting height |
| | Contacting ground frequently | Raise cutting height |
| Blades breaking | Hitting solid objects | Avoid hitting solid objects |
| Blades coming loose | Blades not tightened properly | Tighten blade hardware (refer to “Cutter Blade Maintenance” on page 22 |
| | Improper deck attitude | Lower front of deck, see page 17 |
| Blade carrier becomes loose | Running loose in the past | Replace gearbox output shaft and blade carrier |
| | Blade carrier hardware not tight enough | Tighten to specified torque |
| Blade bolt holes worn | Blade hardware running loose | Replace blades and blade bolts if worn |
| Blade carrier bent | Hitting solid objects | Avoid hitting solid objects and replace blade carrier |
| Excessive side skid wear | Cutting height not level | Adjust cutter height |
| | Soil abrasive | Adjust cutter height |
| | Cutting too low | Adjust cutter height |
| Tailwheel support failing | Lowering too fast | Adjust rate of drop |
| | Hitting objects when turning | Reduce speed on turns |
| Excessive vibration | Driveline bent | Replace driveline |
| | Blades loose | Tighten blade bolts |
| | Blade carrier bent | Replace blade carrier |
| | Blade broken | Replace blade |
| | Blade will not swing | Remove and inspect blade |
| | Blades have unequal weight | Replace both blades |

| Torque Values Chart for Common Bolt Sizes | | | | | | | | | | | | | |
|--|--------------------------|--------------------|---------|-------|---------|-------|--|--------------------------|-------|-----------|-------|------------|-------|
| Bolt Size (inches) | Bolt Head Identification | | | | | | Bolt Size (Metric) | Bolt Head Identification | | | | | |
| | Grade 2 | | Grade 5 | | Grade 8 | | | Class 5.8 | | Class 8.8 | | Class 10.9 | |
| in-tpi ¹ | N · m ² | ft-lb ³ | N · m | ft-lb | N · m | ft-lb | mm x pitch ⁴ | N · m | ft-lb | N · m | ft-lb | N · m | ft-lb |
| 1/4" - 20 | 7.4 | 5.6 | 11 | 8 | 16 | 12 | M 5 X 0.8 | 4 | 3 | 6 | 5 | 9 | 7 |
| 1/4" - 28 | 8.5 | 6 | 13 | 10 | 18 | 14 | M 6 X 1 | 7 | 5 | 11 | 8 | 15 | 11 |
| 5/16" - 18 | 15 | 11 | 24 | 17 | 33 | 25 | M 8 X 1.25 | 17 | 12 | 26 | 19 | 36 | 27 |
| 5/16" - 24 | 17 | 13 | 26 | 19 | 37 | 27 | M 8 X 1 | 18 | 13 | 28 | 21 | 39 | 29 |
| 3/8" - 16 | 27 | 20 | 42 | 31 | 59 | 44 | M10 X 1.5 | 33 | 24 | 52 | 39 | 72 | 53 |
| 3/8" - 24 | 31 | 22 | 47 | 35 | 67 | 49 | M10 X 0.75 | 39 | 29 | 61 | 45 | 85 | 62 |
| 7/16" - 14 | 43 | 32 | 67 | 49 | 95 | 70 | M12 X 1.75 | 58 | 42 | 91 | 67 | 125 | 93 |
| 7/16" - 20 | 49 | 36 | 75 | 55 | 105 | 78 | M12 X 1.5 | 60 | 44 | 95 | 70 | 130 | 97 |
| 1/2" - 13 | 66 | 49 | 105 | 76 | 145 | 105 | M12 X 1 | 90 | 66 | 105 | 77 | 145 | 105 |
| 1/2" - 20 | 75 | 55 | 115 | 85 | 165 | 120 | M14 X 2 | 92 | 68 | 145 | 105 | 200 | 150 |
| 9/16" - 12 | 95 | 70 | 150 | 110 | 210 | 155 | M14 X 1.5 | 99 | 73 | 155 | 115 | 215 | 160 |
| 9/16" - 18 | 105 | 79 | 165 | 120 | 235 | 170 | M16 X 2 | 145 | 105 | 225 | 165 | 315 | 230 |
| 5/8" - 11 | 130 | 97 | 205 | 150 | 285 | 210 | M16 X 1.5 | 155 | 115 | 240 | 180 | 335 | 245 |
| 5/8" - 18 | 150 | 110 | 230 | 170 | 325 | 240 | M18 X 2.5 | 195 | 145 | 310 | 230 | 405 | 300 |
| 3/4" - 10 | 235 | 170 | 360 | 265 | 510 | 375 | M18 X 1.5 | 220 | 165 | 350 | 260 | 485 | 355 |
| 3/4" - 16 | 260 | 190 | 405 | 295 | 570 | 420 | M20 X 2.5 | 280 | 205 | 440 | 325 | 610 | 450 |
| 7/8" - 9 | 225 | 165 | 585 | 430 | 820 | 605 | M20 X 1.5 | 310 | 230 | 650 | 480 | 900 | 665 |
| 7/8" - 14 | 250 | 185 | 640 | 475 | 905 | 670 | M24 X 3 | 480 | 355 | 760 | 560 | 1050 | 780 |
| 1" - 8 | 340 | 250 | 875 | 645 | 1230 | 910 | M24 X 2 | 525 | 390 | 830 | 610 | 1150 | 845 |
| 1" - 12 | 370 | 275 | 955 | 705 | 1350 | 995 | M30 X 3.5 | 960 | 705 | 1510 | 1120 | 2100 | 1550 |
| 1-1/8" - 7 | 480 | 355 | 1080 | 795 | 1750 | 1290 | M30 X 2 | 1060 | 785 | 1680 | 1240 | 2320 | 1710 |
| 1-1/8" - 12 | 540 | 395 | 1210 | 890 | 1960 | 1440 | M36 X 3.5 | 1730 | 1270 | 2650 | 1950 | 3660 | 2700 |
| 1-1/4" - 7 | 680 | 500 | 1520 | 1120 | 2460 | 1820 | M36 X 2 | 1880 | 1380 | 2960 | 2190 | 4100 | 3220 |
| 1-1/4" - 12 | 750 | 555 | 1680 | 1240 | 2730 | 2010 | ¹ in-tpi = nominal thread diameter in inches-threads per inch ² N · m = newton-meters ³ ft-lb= foot pounds ⁴ mm x pitch = nominal thread diameter in millimeters x thread pitch | | | | | | |
| 1-3/8" - 6 | 890 | 655 | 1990 | 1470 | 3230 | 2380 | | | | | | | |
| 1-3/8" - 12 | 1010 | 745 | 2270 | 1670 | 3680 | 2710 | | | | | | | |
| 1-1/2" - 6 | 1180 | 870 | 2640 | 1950 | 4290 | 3160 | | | | | | | |
| 1-1/2" - 12 | 1330 | 980 | 2970 | 2190 | 4820 | 3560 | | | | | | | |
| Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above. | | | | | | | | | | | | | |
| Additional Torque Values | | | | | | | | | | | | | |
| Blade Carrier Hub Nut | | | | | | | 450 ft-lbs. Minimum | | | | | | |
| Blade Bolt Locknut | | | | | | | 450 ft-lbs. | | | | | | |



Warranty

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

Overall Unit and Driveline: One year Parts and Labor

Gearbox: 5 years Parts and Labor

Blades, tires and 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 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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