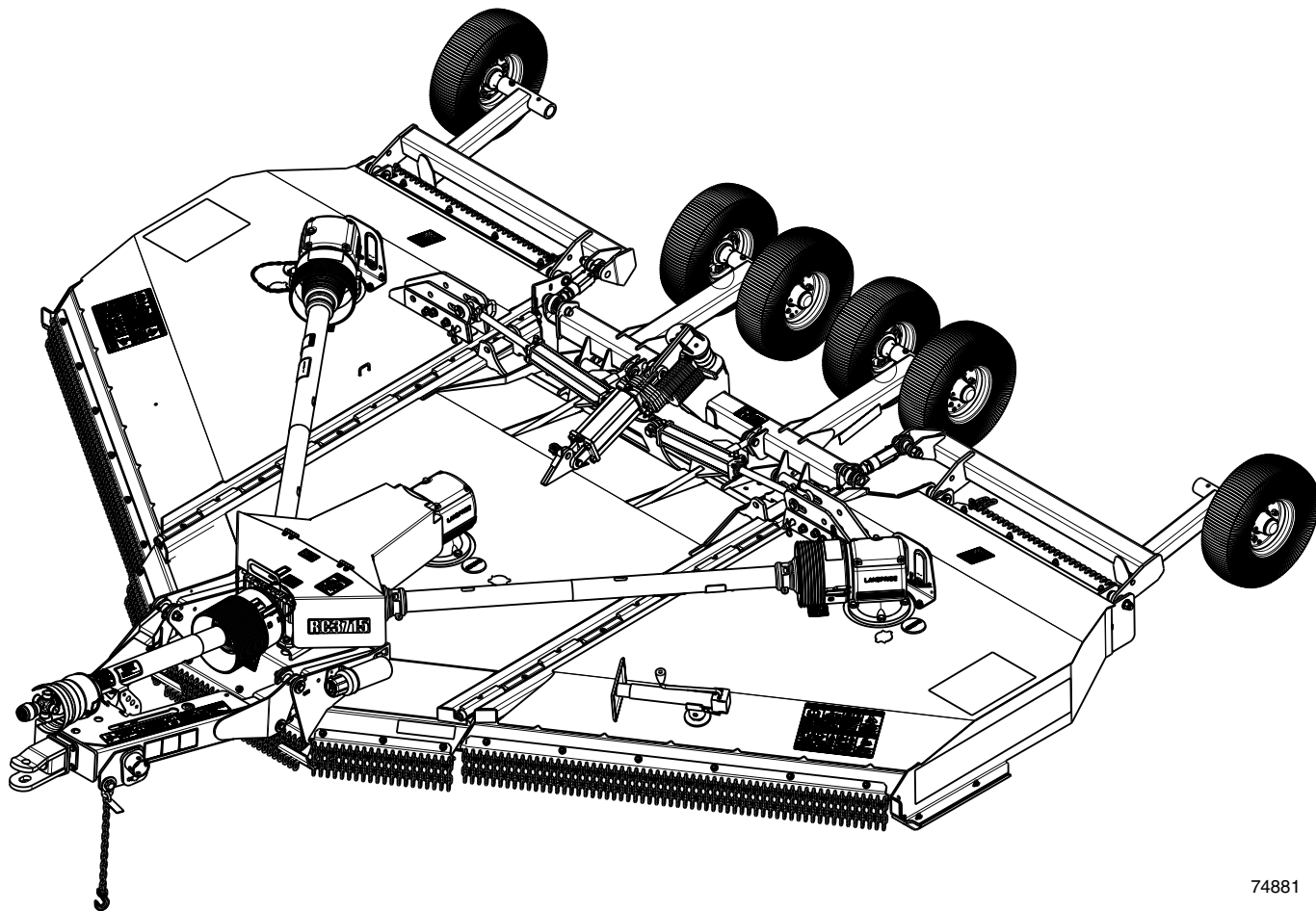


# Rotary Cutters

RC(M)3715 & RCG(M)3715



74881

## 334-114M Operator's Manual



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

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

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





## Machine Identification

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

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

<b>Model Number</b>	
<b>Serial Number</b>	
<b>Machine Height</b>	
<b>Machine Length</b>	
<b>Machine Width</b>	
<b>Machine Weight</b>	
<b>Delivery Date</b>	
<b>First Operation</b>	
<b>Accessories</b>	 <hr/> <hr/> <hr/>

## Dealer Contact Information

**Name:** \_\_\_\_\_

**Street:** \_\_\_\_\_

**City/State:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_

**Email:** \_\_\_\_\_



### California Proposition 65

WARNING: Cancer and reproductive harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)





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### **Parts Manual QR Locator**

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



### **Dealer QR Locator**

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

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

## Safety at All Times

Careful operation is your best assurance against an accident.

All operators, no matter how much experience they may have, should carefully read this manual and other related manuals, or have the manuals read to them, before operating the power machine and this implement.

- ▲ Thoroughly read and understand the "Safety Label" section. Read all instructions noted on them.
- ▲ Do not operate the equipment while under the influence of drugs or alcohol as they impair the ability to safely and properly operate the equipment.
- ▲ The operator should be familiar with all functions of the tractor and attached implement, and be able to handle emergencies quickly.
- ▲ Make sure all guards and shields appropriate for the operation are in place and secured before operating the implement.
- ▲ Keep all bystanders away from equipment and work area.
- ▲ Start tractor from the driver's seat with hydraulic controls in neutral.
- ▲ Operate tractor and controls from the driver's seat only.
- ▲ Never dismount from a moving tractor or leave tractor unattended with engine running.
- ▲ Do not allow anyone to stand between tractor and implement while backing up to implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.
- ▲ Do not turn tractor so tight as to cause hitched implement to ride up on the tractor's rear wheel.
- ▲ Store implement in an area where children normally do not play. When needed, secure implement against falling with support blocks.



## Look for the Safety Alert Symbol

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

### Be Aware of Signal Words

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

#### DANGER

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

#### WARNING

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

#### CAUTION

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

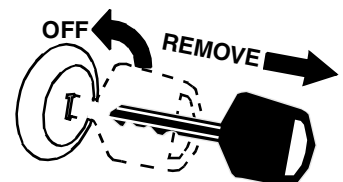
## Safety Precautions for Children

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

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

## Tractor Shutdown & Storage

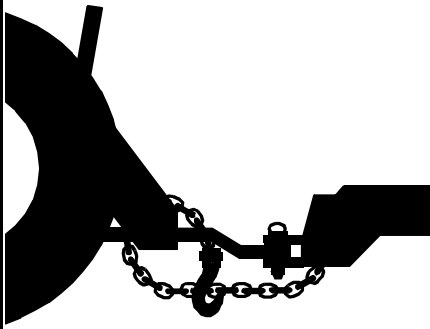
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic lines.
- ▲ Wait for all components to stop before leaving operator's seat.
- ▲ Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.
- ▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.



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

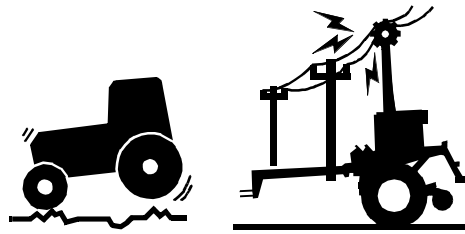
## Use A Safety Chain

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



## Transport Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- ▲ Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if towed trailer is not equipped with brakes.
- ▲ Avoid contact with any over head utility lines or electrically charged conductors.
- ▲ Always drive with load on end of loader arms low to the ground.
- ▲ Always drive straight up and down steep inclines with heavy end of a tractor with loader attachment on the "uphill" side.



- ▲ Engage park brake when stopped on an incline.
- ▲ Maximum transport speed for an attached equipment is 20 mph. **DO NOT EXCEED.** Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- ▲ As a guideline, use the following maximum speed weight ratios for attached equipment:

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

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

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



## Tire Safety

- ▲ Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- ▲ Always properly match the wheel size to the properly sized tire.
- ▲ Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's Manual.
- ▲ When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- ▲ Securely support the implement when changing a wheel.
- ▲ When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- ▲ Make sure wheel bolts have been tightened to the specified torque.



## Practice Safe Maintenance

- ▲ Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- ▲ Work on a level surface in a clean dry area that is well-lit.
- ▲ Lower implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- ▲ Do not work under any hydraulic supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- ▲ Use properly grounded electrical outlets and tools.
- ▲ Use correct tools and equipment for the job that are in good condition.
- ▲ Allow equipment to cool before working on it.

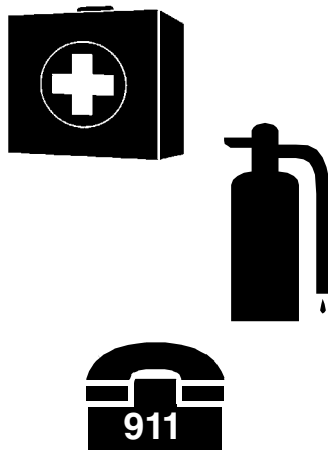
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement in a way which will adversely affect its performance.
- ▲ Do not grease or oil implement while it is in operation.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed.
- ▲ Remove all tools and unused parts from equipment before operation.
- ▲ Do not weld or torch on galvanized metal as it will release toxic fumes.



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

### Prepare for Emergencies

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



### Wear Personal Protective Equipment (PPE)

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



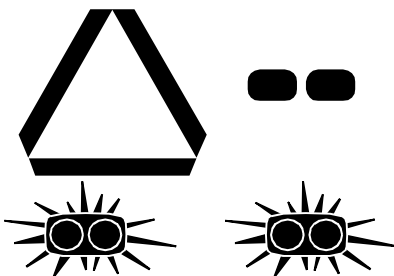
### Avoid High Pressure Fluids

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



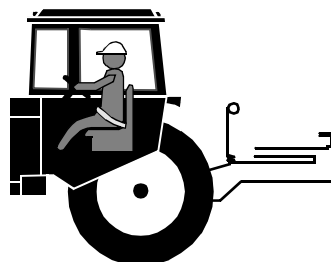
### Use Safety Lights and Devices

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



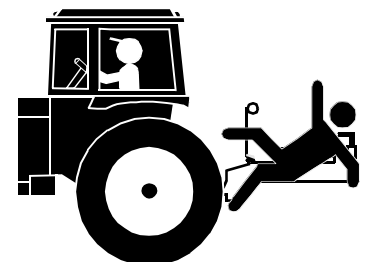
### Use Seat Belt and ROPS

- ▲ Land Pride recommends the use of a CAB or roll-over-protective-structures (ROPS) and seat belt in almost all power machines. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the power machine should be upset.
- ▲ If ROPS is in the locked-up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.



### Keep Riders Off Machinery

- ▲ Never carry riders on the tractor or implement.
- ▲ Riders obstruct operator's view and interfere with the control of the power machine.
- ▲ Riders can be struck by objects or thrown from the equipment.
- ▲ Never use tractor or implement to lift or transport riders.



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

### **Avoid crystalline Silica (quartz) Dust**

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

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



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

### **Handle Chemicals Properly**

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



### **Dig Safe - Avoid Underground Utilities**

- ▲ **USA: Call 811**  
**CAN: [digsafecanada.ca](http://digsafecanada.ca)**  
Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- ▲ Be sure to ask how close you can work to the marks they positioned.





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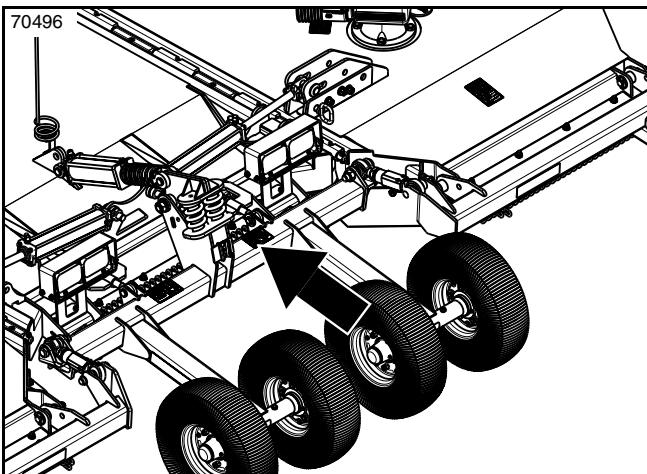
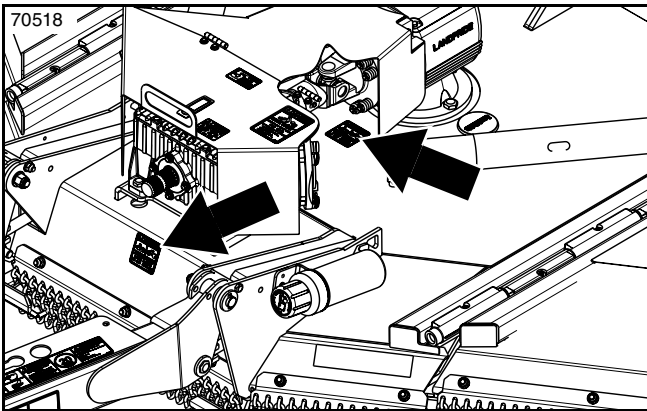
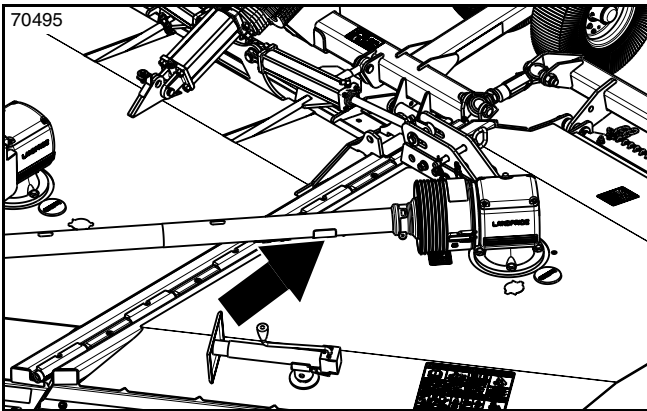
### Safety Labels

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

1. Keep all safety labels clean and legible.
2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at [www.landpride.com](http://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.



#### 858-956C

Danger! Guard Missing

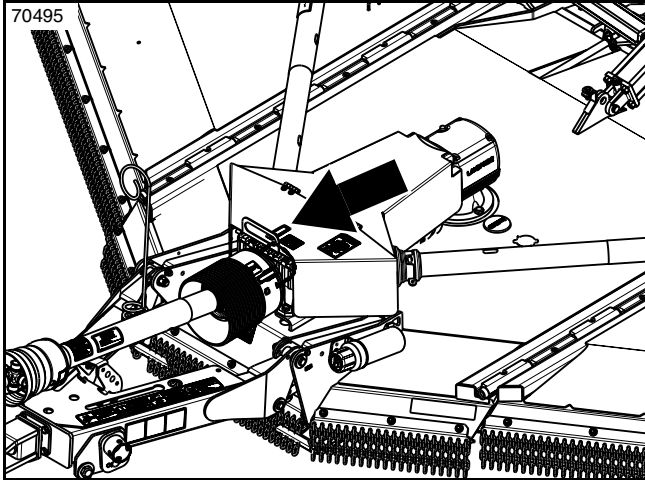
4-Places (Under all drivelines)



#### 858-951C

Warning! Crushing Hazard





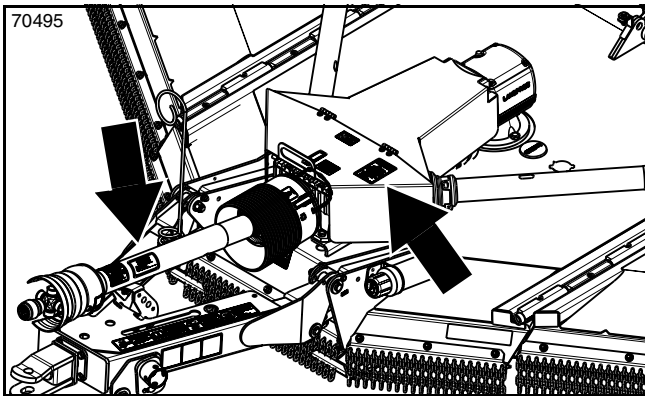
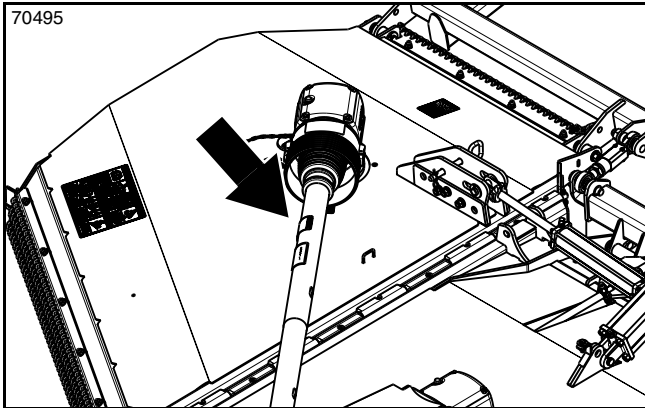
### 818-130C

RC Series cutters only  
Warning! Use 540 rpm power take-off



### 818-240C

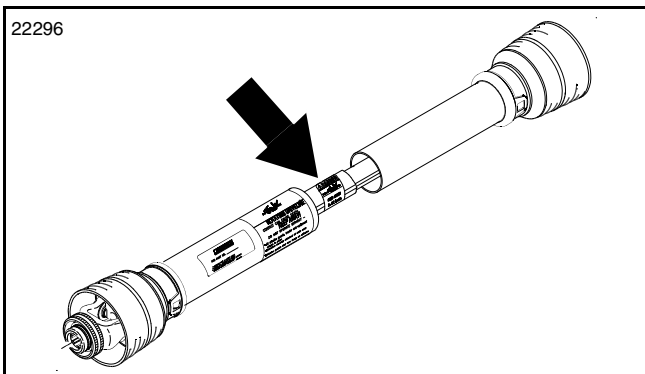
RCM Series cutters only  
Warning! Use 1000 rpm power take-off



### 818-552C

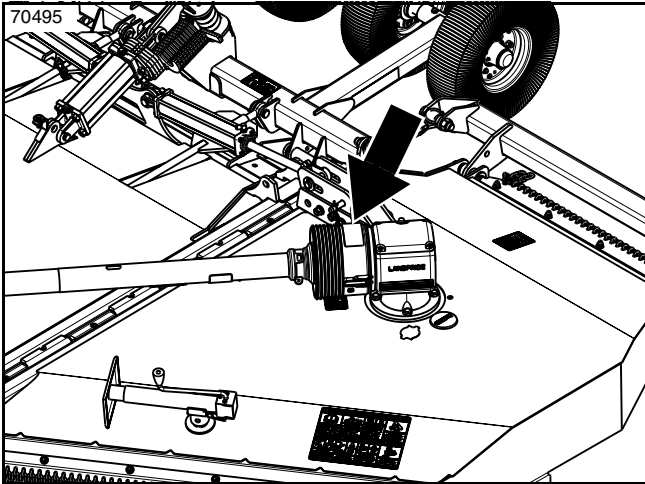
Danger! Rotating Driveline - Keep Away

4-Places (Top of splitter shield, main driveline and 2-wing drivelines)



### 818-540C

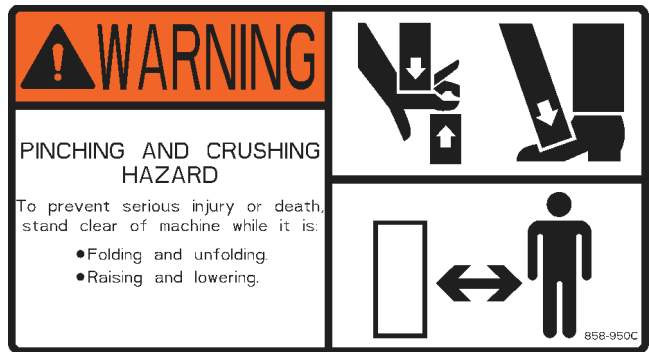
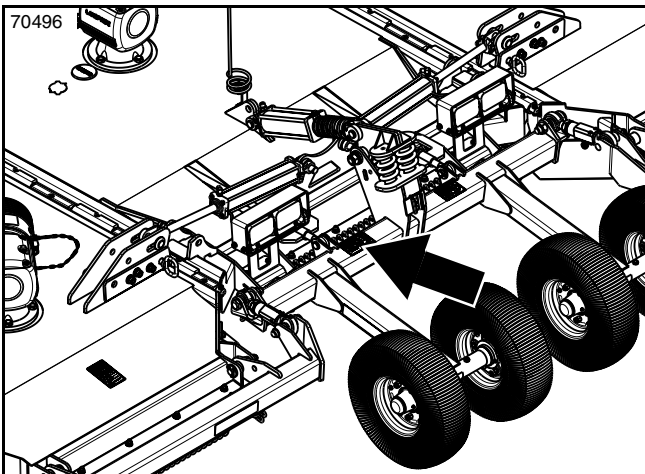
Danger! Shield Missing - DO NOT Operate  
3-Places (Located on main and two wing drivelines)



### 818-142C

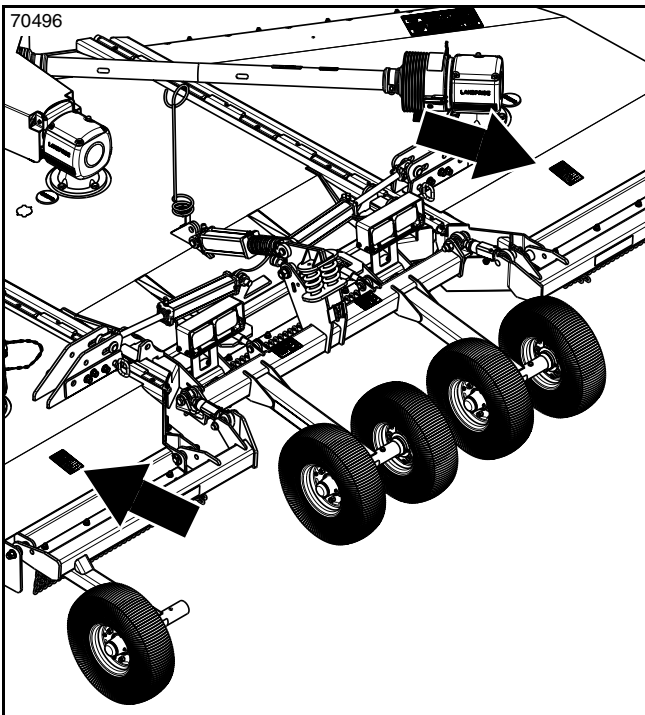
Danger! Rotating Driveline - Keep Away

2-Places (Located on right wing and left wing)



### 858-950C

Warning! Pinching & Crushing Hazard

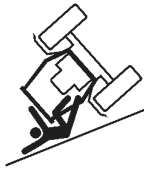


### 858-947C

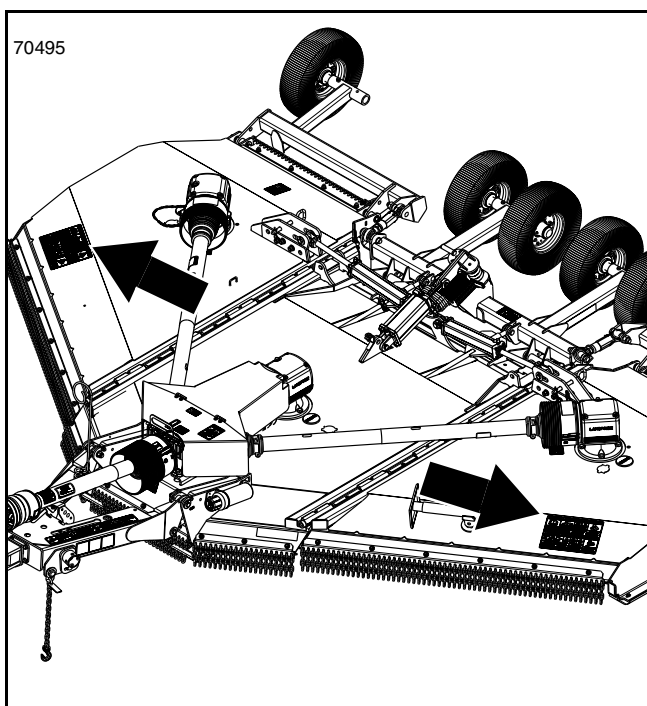
Danger! Thrown Object & Rotating Blade Hazard

2-Places (Located on back side of left & right wing)



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

858-949C



## 858-949C

### Safety Combo

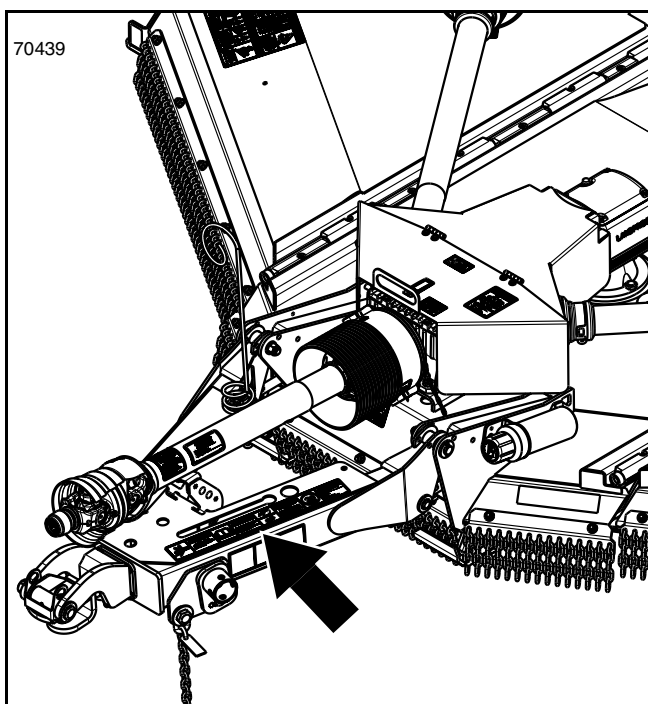
2-Places (Located on the right and left wing decks)



	<div style="background-color: red; color: white; padding: 5px; text-align: center;"><b>! DANGER</b></div> <p style="text-align: center;"><b>CRUSHING HAZARD</b></p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> <li>• Do not stand between implement and tractor when hitching together.</li> <li>• Keep others away.</li> </ul>		<div style="background-color: orange; color: black; padding: 5px; text-align: center;"><b>! WARNING</b></div> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> <li>• Avoid unsafe operation or maintenance.</li> <li>• Do not operate or work on this machine without reading and understanding the Operator's Manual.</li> <li>• If manual is lost, contact your nearest dealer for new manual.</li> </ul>
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	<div style="background-color: orange; color: black; padding: 5px; text-align: center;"><b>! WARNING</b></div> <p style="text-align: center;"><b>HIGH PRESSURE FLUID HAZARD</b></p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> <li>• Relieve pressure on system before repairing, adjusting, or disconnecting.</li> <li>• Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.</li> <li>• Keep all components in good repair.</li> </ul>	<div style="border: 2px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <p style="font-size: 2em; margin: 0;">20</p> <p style="margin: 0;">mile/h</p> </div> </div>	<div style="background-color: orange; color: black; padding: 5px; text-align: center;"><b>! WARNING</b></div> <p>Do not exceed 20 miles per hour transport speed.</p> <p>To prevent machine damage, limit speed while:</p> <ul style="list-style-type: none"> <li>• Transporting.</li> <li>• Turning.</li> <li>• In windy conditions.</li> <li>• In rough and hilly terrain.</li> </ul>
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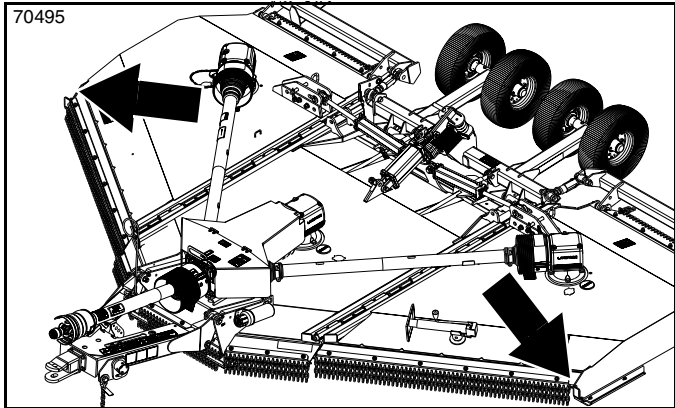
858-954C



### 858-954C

Safety Combo

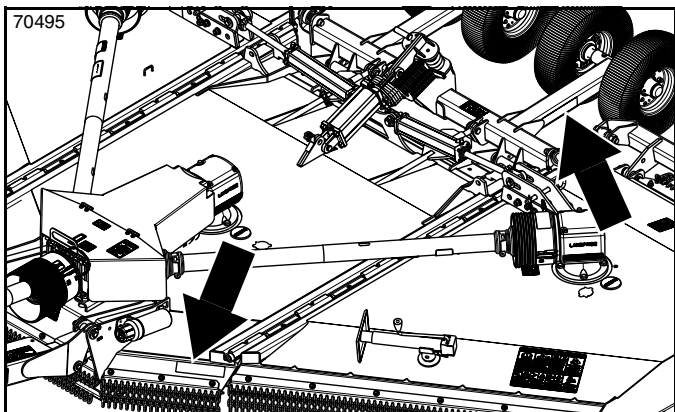




### 818-229C

1 3/4" x 2 3/4" Amber Reflector

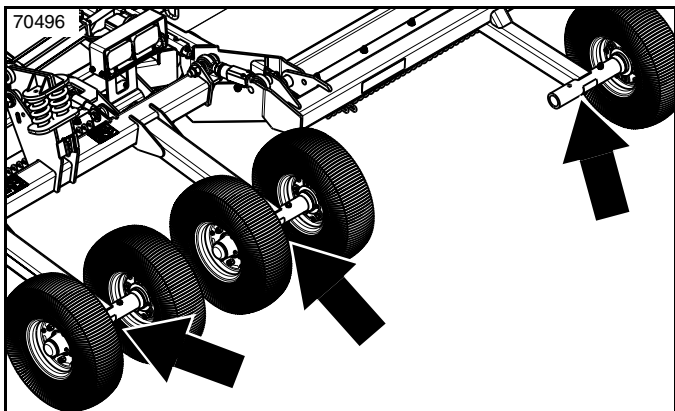
2-Places (Located on front side of left & right wing decks)



### 838-615C

2" x 9" Amber Reflector

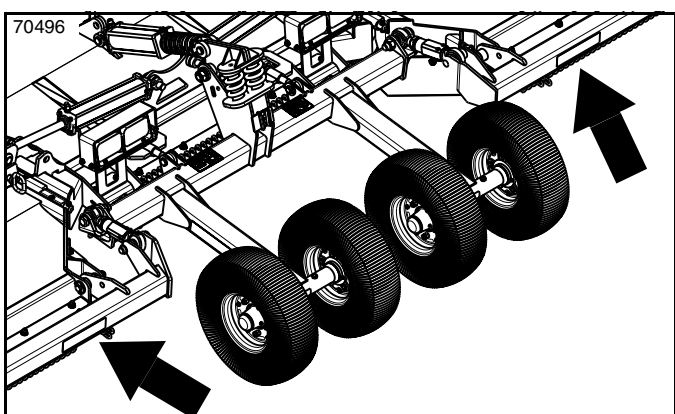
3-Places (Located on front left side of center deck & on right and left side of center axle)



### 818-230C

1 11/16 x 2 13/16" Red Reflector

4-Places (Located on back side of axle spindles)



### 838-614C

2" x 9" Red Reflector

2-Places (Located on back side of left & right wing decks)

## 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 Rotary Cutter.

## Application

The RC3715, RCM3715, RCG3715, and RCGM3715 Rotary Cutters are designed and built by Land Pride to provide excellent cutting performance on gently sloping or slightly contoured right-of-ways, pastures, orchards, set-aside acres, or row crop fields. The 15' cutting width and ability to cut weeds and brush up to 3" in diameter make them well-suited for these applications.

All listed models offer a pull-type, narrow A-frame hitch, and Cat. 6 constant velocity main driveline for attachment to 50-160 hp tractors. The RC3715 and RCG3715 attach to 540 rpm tractors. The RCM3715 and RCGM3715 attach to 1000 rpm tractors. All models attach to tractors with 1 3/8" power take-off shaft.

They are also offered with various optional hitch types, tires, and safety guards making them an excellent choice for agricultural, state, and municipal mowing applications.

See “**Specifications & Capacities**” on page 55 and “**Features & Benefits**” on page 58 for additional information and performance enhancing options.

## Patented

This cutter is protected by one or more of the following patent numbers

- US 10,130,025
- US 10,844,883

## 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](http://www.landpride.com).

## Terminology

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

## Definitions

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

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

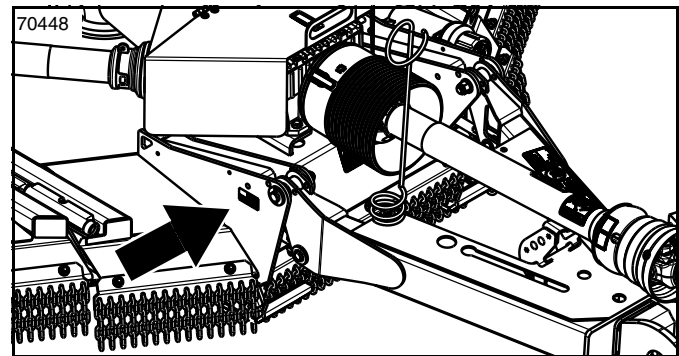
## Owner Assistance

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

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

## Serial Number

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



**Serial Number Plate Location**  
**Figure 1**

## Further Assistance

Your dealer wants you to be satisfied with your new Rotary Cutter. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss any problems you have with your implement with your dealership service personnel so they can address the problem.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the 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](mailto:lp servicedept@landpride.com)

## Section 1: Assembly & Set-up

### Tractor Requirements

#### Horsepower

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

Horsepower rating	50-160
Hitch type (See Drawbar Set-up)	Drawbar
Rear power take-off speed:	
RC(M)3715	540 rpm
RCG(M)3715	1000 rpm
Hydraulic outlets (See Hydraulic Set-up)	
Factory standard	2 Duplex outlets
Electrical	7-pin outlet

#### Drawbar Set-up

Refer to Figure 1-1:

#### DANGER

To avoid serious injury or death:

- Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.
- Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator's Manual to determine proper weight requirements and maximum weight limitations.

#### WARNING

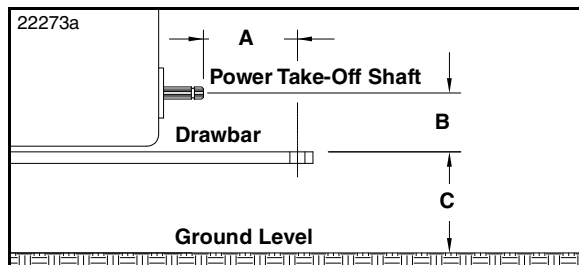
To avoid serious injury or death:

- Do not use a tractor that is too small or too large. Small tractors can be pushed around and flipped over. Large tractors can damage the attached implement.
- Power take-off and/or driveline damage may occur if distances "A" and "B" are not properly maintained.

Maintain proper distance, dimension "A," between center of drawbar hitch pin hole and end of tractor power take-off shaft.

For 540 rpm & small 1000 rpm power take-off shafts:

"A"	14" - 16"
"B"	8" - 10"
"C"	18" - 22"



Power Take-Off Shaft to Drawbar Distance  
Figure 1-1

### Hydraulic Outlets

Two or three duplex outlets are required depending on the fold option. Two outlets are needed when choosing a fold option where the wings float simultaneously. Three outlets are needed when choosing a fold option where the wings fold independently.

It is highly recommended to connect the wing fold hose(s) to a duplex outlet with fold capabilities and use the float when in field operation.

Accessory available to convert from 2 duplexes to 1 duplex.

### Before You Start

Read and understand this Operator's Manual for your cutter. An understanding of how the cutter works will aid in the assembly and setup of your cutter.

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

### Torque Requirements

See "Torque Values Chart for Common Bolt Sizes" on page 60 to determine correct torque values when tightening hardware. See "Additional Torque Values" at bottom of chart for exceptions to common torque values.

### Assembly Checklist

Check	Ref.
<input type="checkbox"/> Have a fork lift or loader with properly sized chains and safety stands capable of lifting and supporting the equipment on hand.	
<input type="checkbox"/> Have a minimum of two people available during assembly.	
<input type="checkbox"/> Make sure all major components and loose parts are shipped with the machine.	Operator's Manual
<input type="checkbox"/> Double check to make sure all parts, fasteners, and pins are installed in the correct location. Refer to the Parts Manual if unsure. By double checking, you will lessen the chance of using a bolt incorrectly that may be needed later.  <b>NOTE:</b> All assembled hardware from the factory has been installed in the correct location. Remember location of a part or fastener if removed during assembly. Keep parts separated.	Operator's Manual 330-502M  Parts Manual 331-939P
<input type="checkbox"/> Make sure working parts move freely, bolts are tight & cotter pins are spread.	Page 60
<input type="checkbox"/> Make sure all grease fittings are in place and lubricated.	Page 49
<input type="checkbox"/> Make sure all safety labels are correctly located and legible. Replace if damaged.	Page 6
<input type="checkbox"/> Make sure all red and amber reflectors are correctly located and visible when machine is in transport position.	Page 11
<input type="checkbox"/> Make sure all pneumatic tires are properly inflated and all wheel bolts and axle nuts are tightened to the specified torque.	Page 60

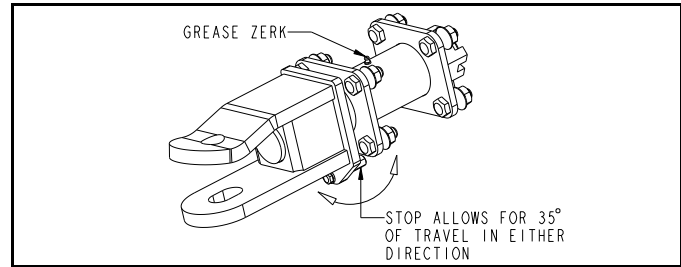
### Hitch Types

The following are the five hitch types offered. See your nearest Land Pride dealer should you want to change your hitch set-up.

#### Swivel Clevis Hitch (Optional)

Refer to Figure 1-2:

The Swivel Clevis Hitch pivots side-to-side up to 35 degrees each direction. It features a stop to prevent the hitch from being installed upside down. Customer to supply hitch pin and hitch pin keeper

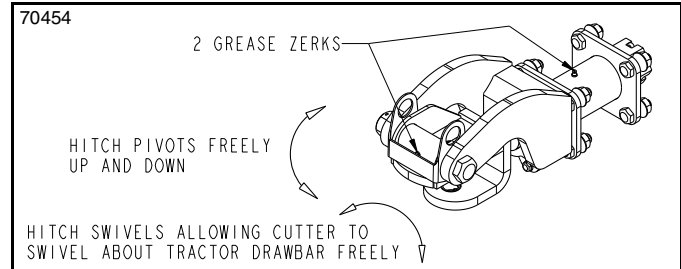


**Swivel Clevis Hitch**  
**Figure 1-2**

#### Land Pride Performance Hitch (Optional)

Refer to Figure 1-3:

The LP Performance Hitch is a drawbar friendly, self-leveling hitch that pivots up and down, and side-to-side. It is held upright with customer supplied hitch pin to allow single-person hook-up.

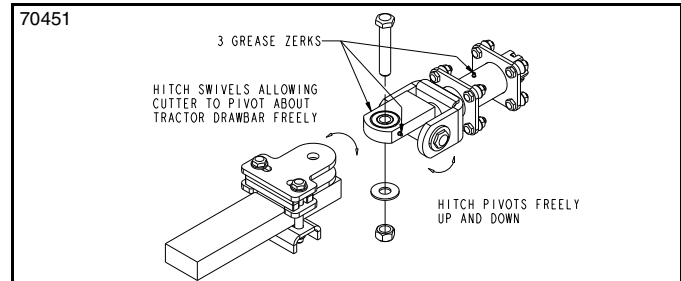


**LP Performance Hitch**  
**Figure 1-3**

#### Bar-Tite Hitch (Optional)

Refer to Figure 1-4:

The bar-tite hitch functions similar to LP Performance hitch except it clamps directly to the drawbar. The bar-tite hitch is sandwiched between hardened steel plates to eliminate drawbar wear. It has a bushing in the tongue to extend hitch life. Bushing and hitch swivel are greasable.

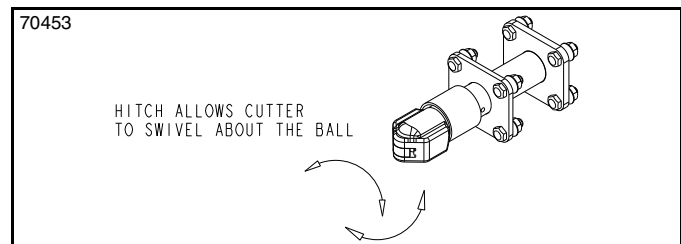


**Bar-Tite Hitch**  
**Figure 1-4**

#### Ball Hitch (Optional)

Refer to Figure 1-5:

Cutter rotation about the tractor drawbar is limited to swivel movement over the 2 5/16" tractor mounted ball.

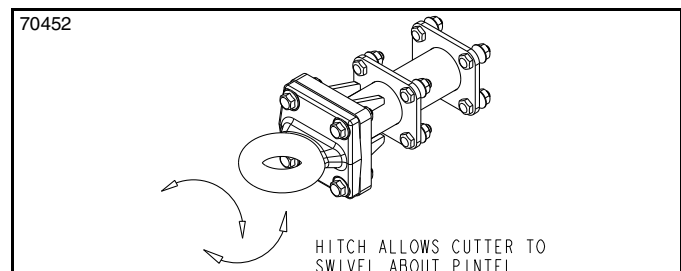


**Ball Hitch**  
**Figure 1-5**

#### Pintle Hitch (Optional)

Refer to Figure 1-6:

Cutter rotation about the tractor drawbar is limited to movement about the pintle connection. The pintle hitch is ideal for a drawbar hammer strap.



**Pintle Hitch**  
**Figure 1-6**



## Section 1: Assembly & Set-up

### Tractor Shutdown Procedure

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

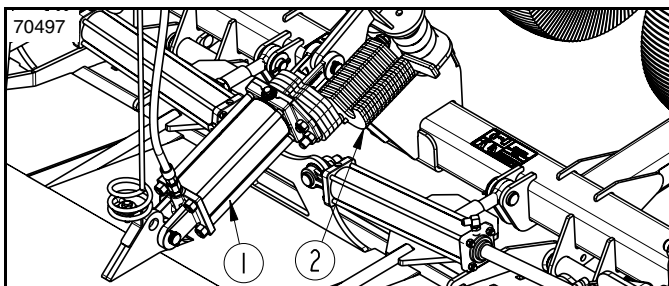
1. Reduce tractor engine speed to an idle.
2. If power take-off is engaged, disengage it.
3. Park tractor and implement on level, solid ground.
4. Lower implement to ground or onto solid (non-concrete) support blocks.
5. Put tractor in park or set park brake, turn off engine, and remove switch key to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

### Hitch Assembly

**NOTE:** The center deck lift cylinder hose will need to be connected to a tractor before the hitch on the cutter can be rotated down for assembly.

**Refer to Figure 1-7:**

1. Connect center deck lift cylinder hose to a tractor. See **"Hydraulic Hook-up"** on page 19 for instructions.
2. Raise cutter up with tractor control lever. Remove and discard shipping bracket and cotter pin from center deck cylinder (#1).
3. Keep all stroke control flip spacers (#2) in the open position, then lower center deck down until unit is fully resting on the ground.



**Cylinder Stroke Control Disengagement**  
Figure 1-7

**Refer to Figure 1-8:**

4. Hitch (#2) is shipped hinged up and bolted in place. Remove and discard 1/2" hex whiz nuts (#4) and 1/2" bolts (#3).
5. Rotate hitch frame (#2) down into pulling position as shown. Install left and right leveling rods (#1) to hitch frame (#2) with 3/4"-10 x 4" GR8 bolts (#6), 3/4" flat

washers (#5), and 3/4" nylock hex nuts (#7). Tighten to correct torque.

6. Leveling rod adjustments will be made after cutter is attached to the tractor.

### Attach Park Jack

**Refer to Figure 1-8:**

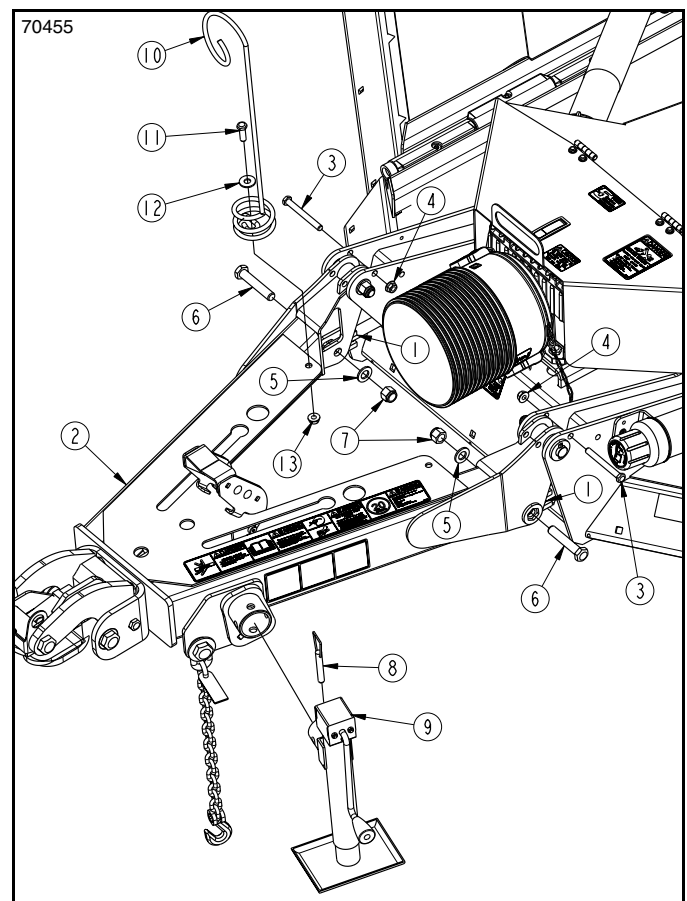
1. Attach park jack (#9) to jack mount as shown and secure with attached pin (#8).
2. If park jack is not vertical, adjust jack angle according to **"Park Jack Angle Alignment"** on page 29.
3. Adjust jack up or down until hitch frame (#2) is at drawbar height.

### Attach Spring Hose Loop

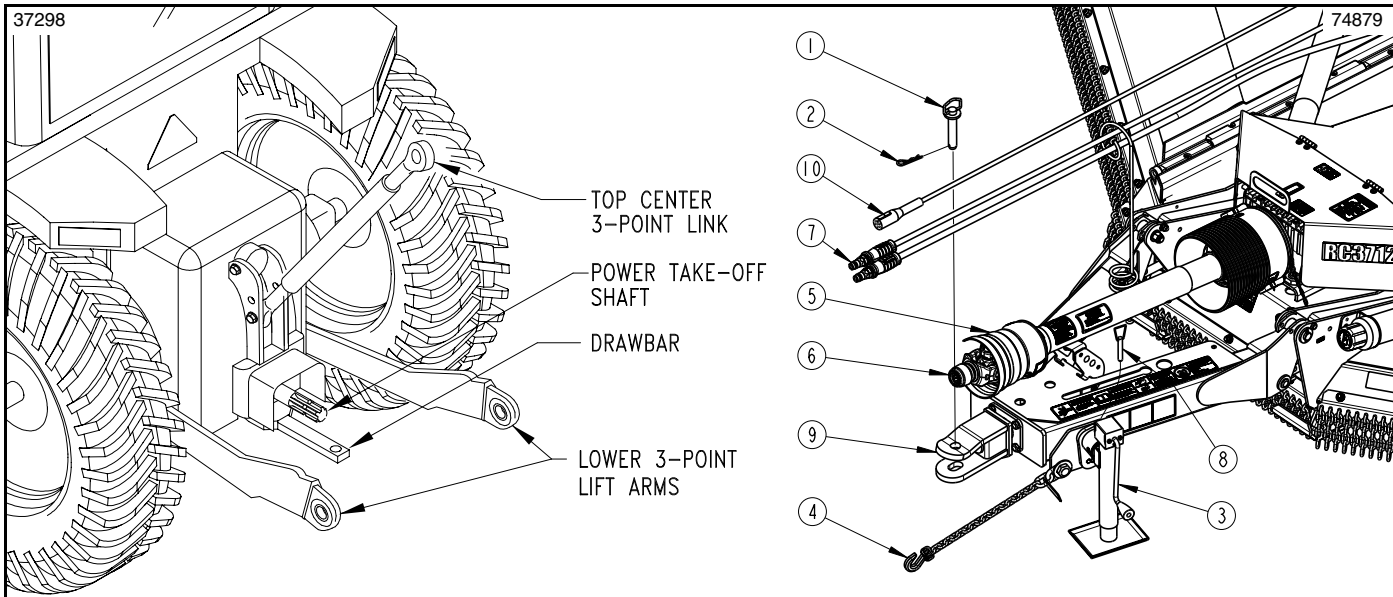
**Refer to Figure 1-8:**

1. Attach spring hose loop (#10) to hitch frame (#2) with 1/2"-13 x 1 1/2" GR5 bolt (#11), 1/2" flat washer (#12), and 1/2" hex whiz nut (#13).
2. Orient the spring hose loop (#10) as shown and tighten 1/2" hex whiz nut (#13) to the correct torque.

**NOTE:** Mount the spring hose loop on the left side if the tractor remotes are on the left-hand side.



**Hitch and Jack Assembly**  
Figure 1-8



**Swivel Clevis Hitch Hook-up**  
**Figure 1-9**

### Swivel Clevis Hitch Hook-up

#### **DANGER**

*To avoid serious injury or death: A crushing hazard exists while hooking-up and unhooking the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.*

#### **WARNING**

*To avoid serious injury or death: The ball detent pin must be fully inserted into the park jack with ball visible and popped out on the far side of the jack before working on or around an unhooked cutter.*

**Refer to Figure 1-9:**

1. Make certain park jack (#3) is properly attached to the cutter hitch and secured with detent pin (#8). If park jack is not vertical, refer to **"Park Jack Angle Alignment"** on page 29.
2. Store center 3-point link in its storage hook.
3. Start tractor and raise 3-point arms fully up.
4. Carefully back tractor within close proximity of clevis (#9).
5. Shut tractor down properly before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 15.
6. Verify tractor drawbar is adjusted correctly. Refer to **"Drawbar Set-up"** dimensions on page 13.
7. Raise or lower park jack (#3) to align clevis (#9) with tractor drawbar. Drawbar should fit between lower and upper plates of clevis.
8. Restart tractor and continue to back tractor up to cutter hitch until hitch holes in tractor drawbar and hitch clevis (#9) are aligned.

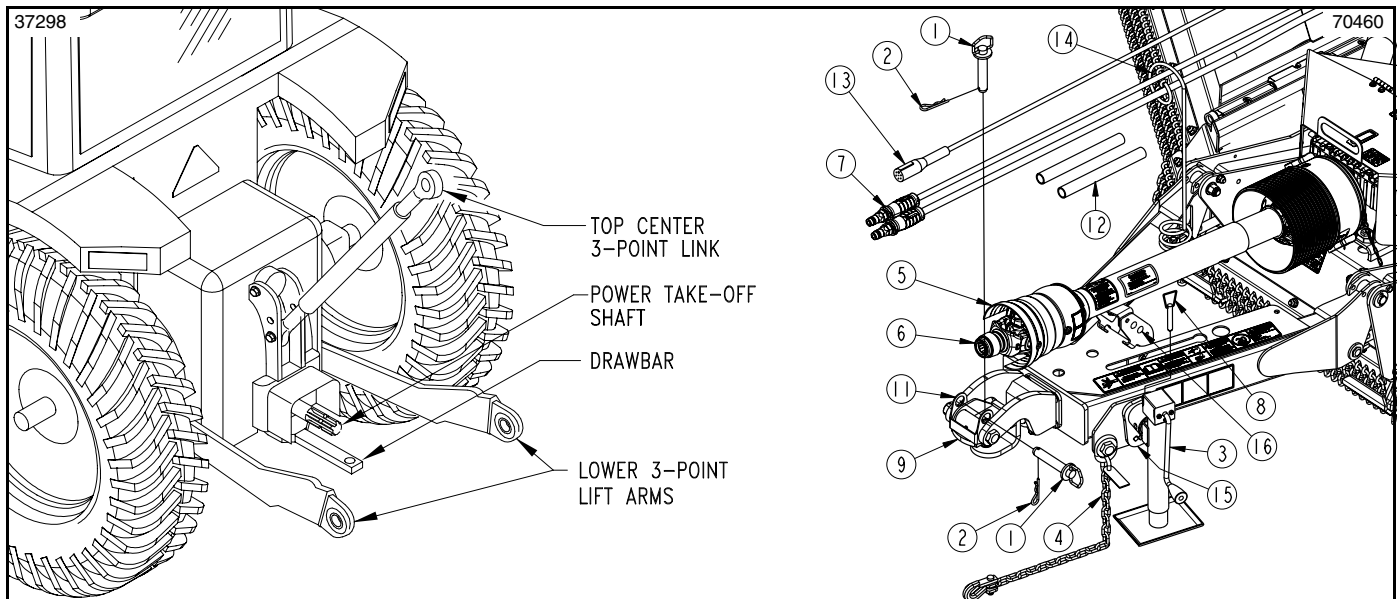
9. Shut tractor down properly before dismounting.

**NOTE:** Hitch pin (#1) and hairpin cotter (#2) are supplied by customer.

10. Attach cutter to tractor drawbar with customer supplied hitch pin (#1) and hairpin cotter (#2).
11. Lower park jack (#3) until hitch weight is supported by drawbar.

**IMPORTANT:** Before moving the cutter, relocate park jack by storing it on the left wing deck. Make sure the jack is stored with its base level or lower than the head to prevent water and freeze damage.

12. Remove park jack (#3) from hitch and attach it to the left-hand wing storage base with detent pin (#8). Make sure base is level with or lower than the head especially after the wings are folded up. See cover picture for correct positioning.
13. Attach hitch safety chain (#4) to tractor. Adjust chain length to remove all slack except what is necessary to permit turning. Lock chain hook securely to the safety chain.
14. Continue with **"Hydraulic Hook-up"** on page 19.



**LP Performance Hitch Hook-up**  
**Figure 1-10**

### LP Performance Hitch Hook-up

#### **DANGER**

*To avoid serious injury or death: A crushing hazard exists while hooking-up and unhooking the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.*

#### **WARNING**

*To avoid serious injury or death: The ball detent pin must be fully inserted into the park jack with ball visible and popped out on the far side of the jack before working on or around an unhooked cutter.*

**Refer to Figure 1-10:**

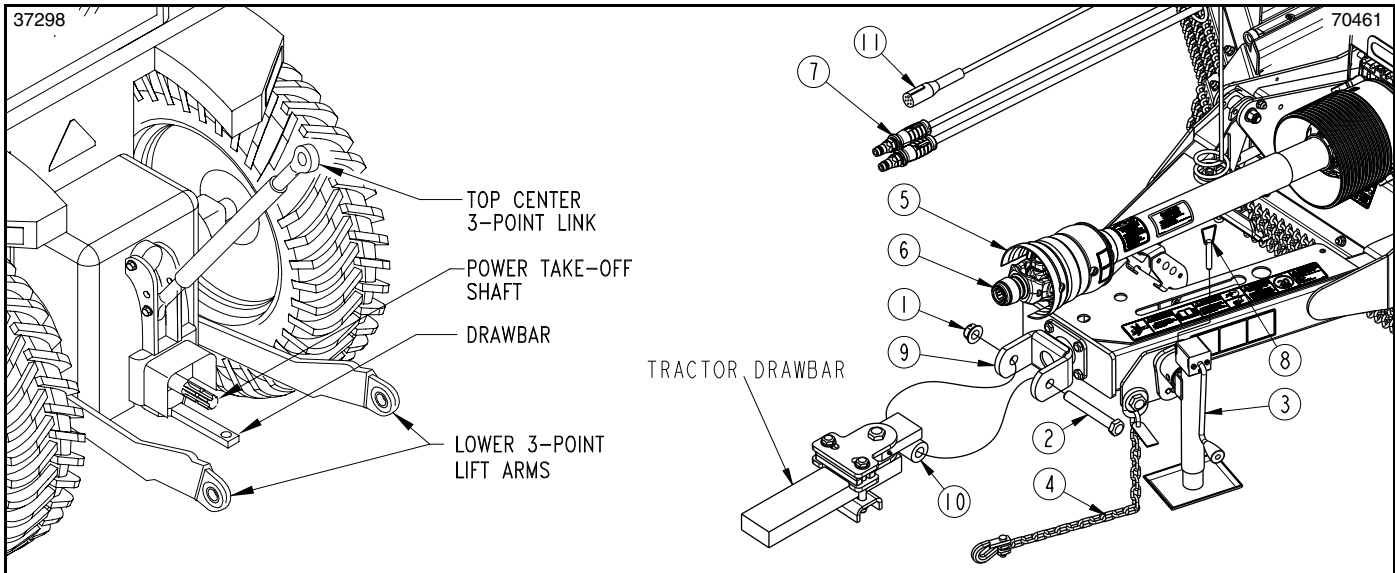
**NOTE:** Hitch pin (#1) and hairpin cotter (#2) are customer supplied.

1. Make certain park jack (#3) is properly attached to the cutter hitch and secured with ball detent pin (#8).
2. Adjust park jack angle if it is not vertical. Refer to “**Park Jack Angle Alignment**” on page 29.
3. If clevis hitch is not positioned horizontally, rotate clevis (#9) horizontal and flip hitch holder (#11) up positioning the holes on top as shown. Insert the customer supplied hitch pin (#1) through holes in hitch holder (#11) as shown. Secure with hairpin cotter (#2).
4. Remove bushings in clevis (#9) if customer supplied hitch pin diameter is larger than 1". See “**LP Performance Hitch Hole Size**” on page 31 for instructions.
5. Store center 3-point link in the tractor’s storage hook.

6. Start tractor, raise 3-point arms fully up, and carefully back tractor within close proximity of clevis (#9).
7. Shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.
8. Verify tractor drawbar is adjusted correctly. Refer to “**Drawbar Set-up**” dimensions on page 13.
9. Raise or lower park jack (#3) to align clevis (#9) with tractor drawbar. Drawbar should fit between lower and upper plates of clevis.
10. Restart tractor and continue to back tractor up to cutter hitch until holes in tractor drawbar and clevis hitch (#9) are aligned.
11. Shut tractor down properly before dismounting.
12. Remove hairpin cotter (#2) and hitch pin (#1) from hitch holder (#11) and rotate hitch holder down.
13. Attach cutter to tractor drawbar with hitch pin (#1) and hairpin cotter (#2) as shown.
14. Lower park jack (#3) until hitch weight is supported by tractor drawbar.

**IMPORTANT:** Before moving the cutter, relocate park jack by storing it on the left wing deck. Make sure the jack is stored with its base level or lower than the head to prevent water and freeze damage.

15. Remove park jack (#3) from hitch and attach it to the left-hand wing storage base with detent pin (#8). Make sure jack base is level or lower than the jack crank head especially after the wings are folded up. See cover picture for correct positioning.
16. Attach hitch safety chain (#4) to the tractor. Adjust chain length to remove all slack except what is necessary to permit turning. Lock chain hook securely to the safety chain.
17. Continue with “**Hydraulic Hook-up**” on page 19.



**Bar-Tite Hitch Hook-up**  
**Figure 1-11**

### Bar-Tite Hitch Hook-up

#### Attach Bar-Tite Hitch to Tractor Drawbar

**Refer to Figure 1-12:**

1. Insert 1" x 5 1/2" hex bolt (#1) through hitch top plate (#2), hitch bushing (#3), hitch wear plate (#4), tractor drawbar (#5), and washer (#6) as shown. Secure with 1" locknut (#7). Tighten 1" locknut snugly to remove all play and then back nut one-quarter turn. **Do Not** torque 1" locknut.
2. Insert two 3/4" x 6" GR5 hex bolts (#8) through, 3/4" flat washers (#9), hitch top plate (#2), hitch wear plate (#4), and formed hitch support (#10) as shown. Secure with 3/4" locknuts (#11).
3. Tighten 3/4" locknuts to correct torque.
4. Remove 1" x 6 1/2" GR5 hex bolt (#12) and 1" lock nut (#13) from hitch bushing (#3). Keep bolt and locknut for reuse.

#### Attach Bar-Tite Hitch to Rotary Cutter

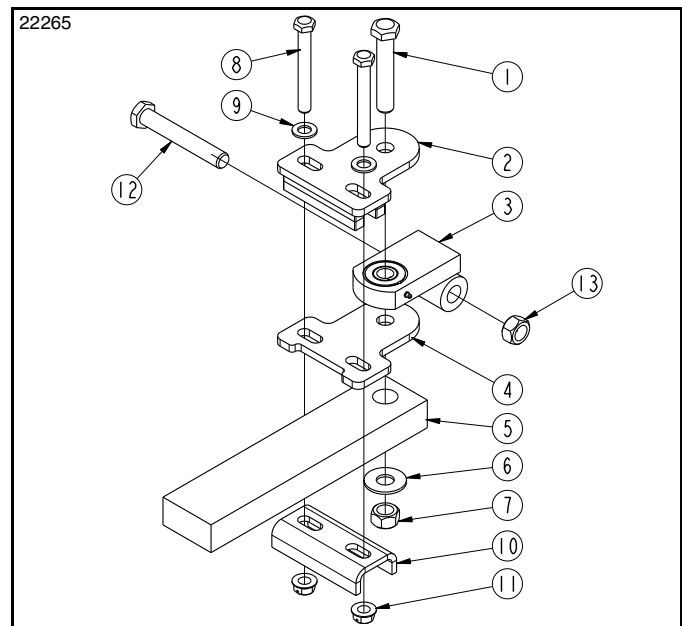
**Refer to Figure 1-11:**

### DANGER

*To avoid serious injury or death: A crushing hazard exists while hooking-up and unhooking the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.*

### WARNING

*To avoid serious injury or death: The ball detent pin must be fully inserted into the park jack with ball visible and popped out on the far side of the jack before working on or around an unhooked cutter.*



**Bar-Tite Hitch Assembly to Tractor Tongue**  
**Figure 1-12**

1. Make certain park jack (#3) is properly attached to the cutter hitch and secured with detent pin (#8). If park jack is not vertical, refer to **"Park Jack Angle Alignment"** on page 29.
2. Store center 3-point link in its storage hook.
3. Start tractor, raise 3-point arms fully up, and carefully back tractor within close proximity of clevis (#9).
4. Shut tractor down properly before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 15.
5. Verify tractor drawbar is adjusted correctly. Refer to **"Drawbar Set-up"** dimensions on page 13.
6. Raise or lower park jack (#3) to align hitch (#10) with bolt hole in swivel clevis (#9).



## Section 1: Assembly & Set-up

7. Restart tractor and back up to cutter hitch until hitch bushing (#10) aligns with holes in swivel clevis (#9).
8. Shut tractor down properly before dismounting.
9. Insert 1" x 6 1/2" GR5 hex bolt (#2) through swivel clevis (#9) and hitch bushing (#10). Secure bolt with locknut (#1). Tighten locknut snugly to remove all play. **Do Not** torque 1" locknut.
10. Lower park jack (#3) until hitch weight is supported by the drawbar.

**IMPORTANT:** Before moving the cutter, relocate park jack by storing it on the left wing deck. Make sure the jack is stored with its base level or lower than the head to prevent water and freeze damage.

11. Remove park jack (#3) from hitch frame and attach it to the left-hand wing storage base with detent pin (#8). Make sure base is level with or lower than the head especially after the wings are folded up. See cover picture for correct positioning.
12. Attach hitch safety chain (#4) to tractor. Adjust length to remove slack except what is necessary to permit turning. Securely lock chain hook to the safety chain.
13. Continue with “Hydraulic Hook-up” below.

### Hydraulic Hook-up

The required number of duplex outlets at the tractor is dependent upon how the cutter is set-up. The standard cutter is equipped with three hydraulic cylinders with one in the center for lifting the cutter and one on each wing for folding the wings simultaneously. The center lift cylinder is set up for single action (one way) operation. The wings can be set up with single-action (one way) or dual-action (both way) operation.

Each duplex outlet on your tractor can perform only one operation. One outlet is needed for lifting the cutter and one for folding the wings simultaneously. Two outlets are needed to fold the wings independently. It is highly recommended to connect the wing fold hose(s) to a duplex outlet with float capabilities and use the float when in field operation.

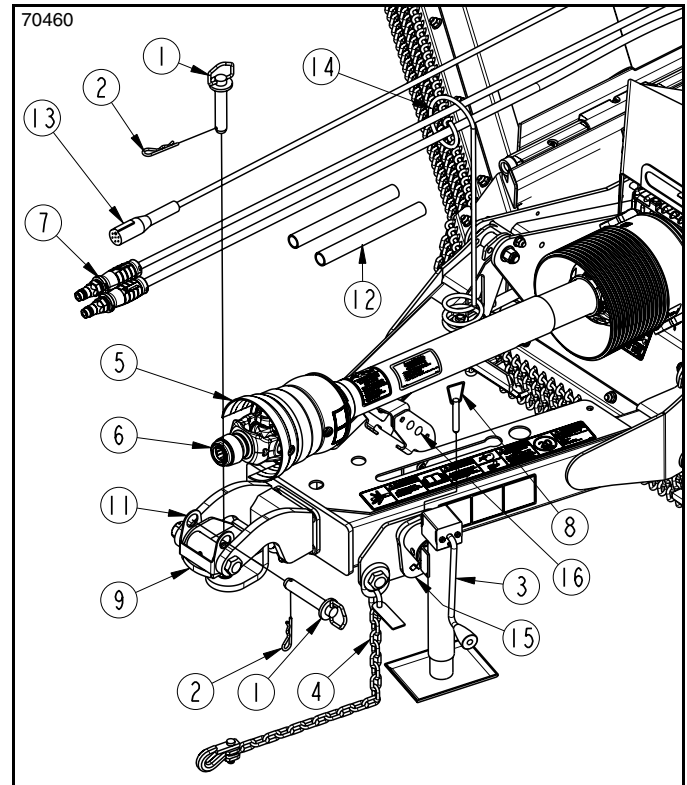
The black handled hose is for the lift cylinder. The red handled hose is for simultaneous fold or right hand wing fold when setup independently. The yellow handled hose is for left hand wing fold when set up independently. When set up for dual-action fold, the handles have directional arrows to identify what the hose does when charged. See “Figure 1-14”.



### WARNING

*To avoid serious injury or death:*

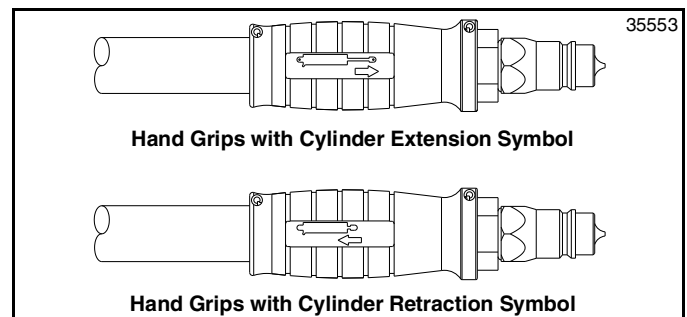
*Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of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



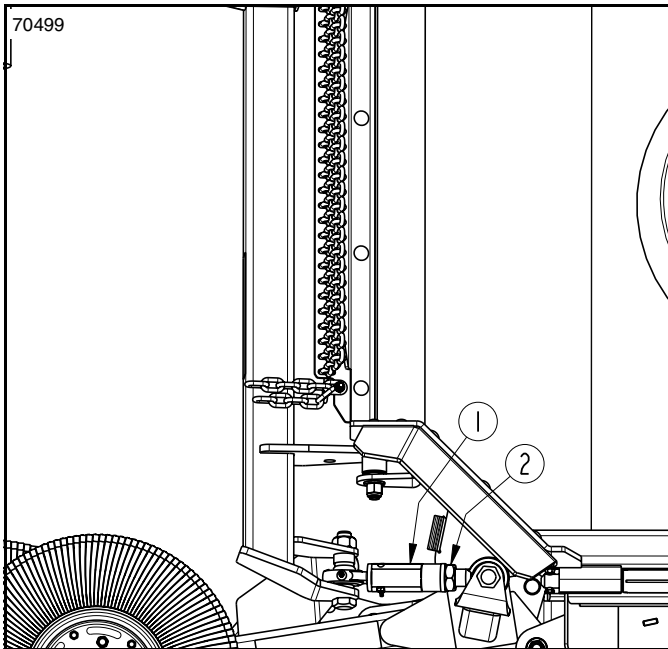
Hydraulic Hook-up (LP Performance Hitch Shown)  
Figure 1-13

#### Refer to Figure 1-13:

1. Route hydraulic hoses (#7) through hose support loop (#14) and attach couplers to the tractor remote outlets. If tractor has a float option on one of the outlets, connect wing lift hose to that outlet and set tractor control lever for that outlet in float position before cutting.
2. Apply spiraled hose wrap (#12) to hydraulic hoses (#7) as needed to keep the hoses from pinch areas caused by raising and lowering the deck, folding the wing up and down, and while making turns with the tractor.



Hydraulic Hose Hand Grips  
Figure 1-14



**Wing Axle - Turnbuckle**  
Figure 1-15

### Wing Axle Turnbuckle Set-up

Refer to Figure 1-15:

**NOTE:** The cutter is shipped with turnbuckles attached and drawn all the way in as shown in Figure 1-15.

1. Park tractor and cutter on a level surface.
2. Shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.
3. Loosen jam nut (#2) on turnbuckle (#1) and adjust until center of ball swivels are approximately 10 1/2" apart. Do not tighten jam nut. Final adjustment will be made later when leveling wing decks.
4. Repeat step 3 for the left wing axle.

### Unfold Wings

#### DANGER

To avoid serious injury or death:

- Keep everyone out of the area where the wing decks will unfold. One of the wing decks can fall suddenly.
- Do not walk, stand, or allow anyone else in the area where a raised wing will fall unless the wing is securely locked in the raised position with its transport lock..

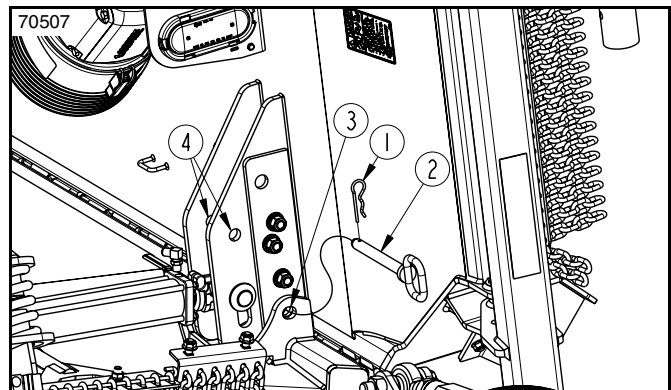
Refer to Figure 1-16:

1. Park tractor and cutter on a level surface.
2. Release any tension on transport lock pins (#2) by raising both wings up slightly.
3. Without relieving hydraulic pressure, shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.

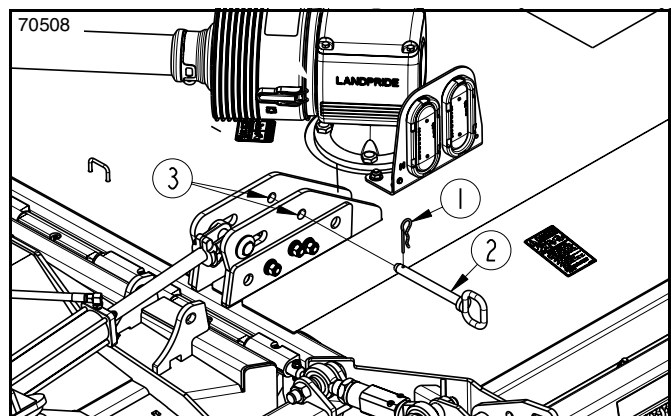
4. Remove hairpin cotter (#1) from both the left and right transport pins (#2).
5. Pull transport pins (#2) from lock holes (#3) on both wings as shown.

Refer to Figure 1-17:

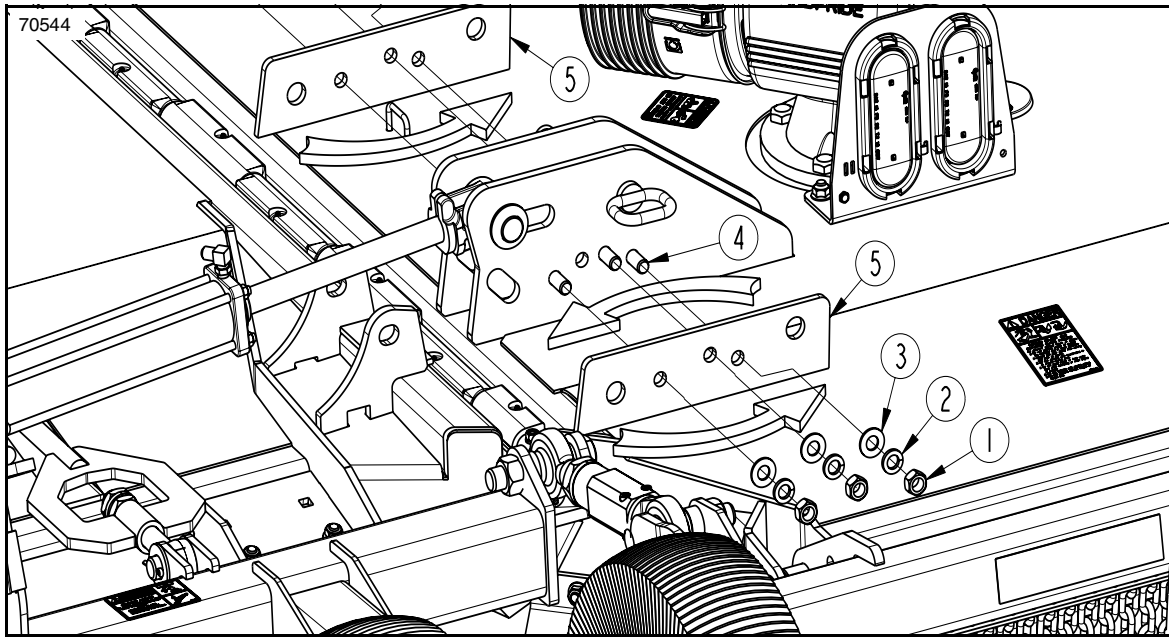
6. Store transport pins (#2) in storage holes (#3) as shown and secure with hairpin cotters (#1).
7. Return to the tractor, staying clear of unpinned wings.
  - a. For cutters equipped with single-action fold cylinders, restart tractor and place tractor control lever for wing cylinders to float position. Return to the cutter, staying clear of unpinned wings and carefully position yourself on the center deck. Manually push on the right wing until it starts to fall on its own. The wing should fall slowly as the hydraulic line is orificed to control the fall. If it does not fall on its own, then continue lowering the wing with tractor hydraulics. Repeat for left wing.
  - b. For cutters equipped with dual-action fold cylinders, restart tractor and lower both left and right wings with tractor hydraulic control lever until both wings are on the ground.



**Transport Pin**  
Figure 1-16



**Transport Pin, Storage Position**  
Figure 1-17



**Fold Lock Lugs**  
**Figure 1-18**

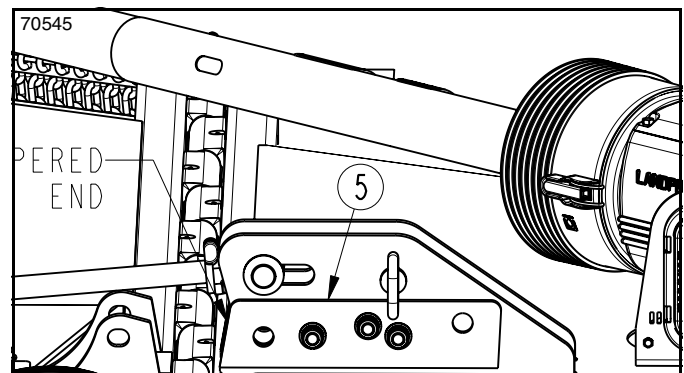
### Fold Lock Lugs Set Up

**Refer to Figure 1-18:**

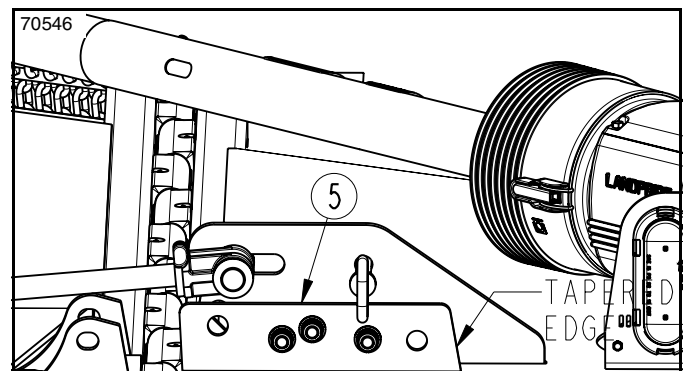
If your cutter comes equipped with dual-action fold cylinder set up, the fold lock lug plates (#15) do not need to be flipped around. See **Figure 1-19**.

If your cutter comes equipped with single-action fold cylinder set up, perform the following steps to flip the four fold lug plates around. See **Figure 1-20**.

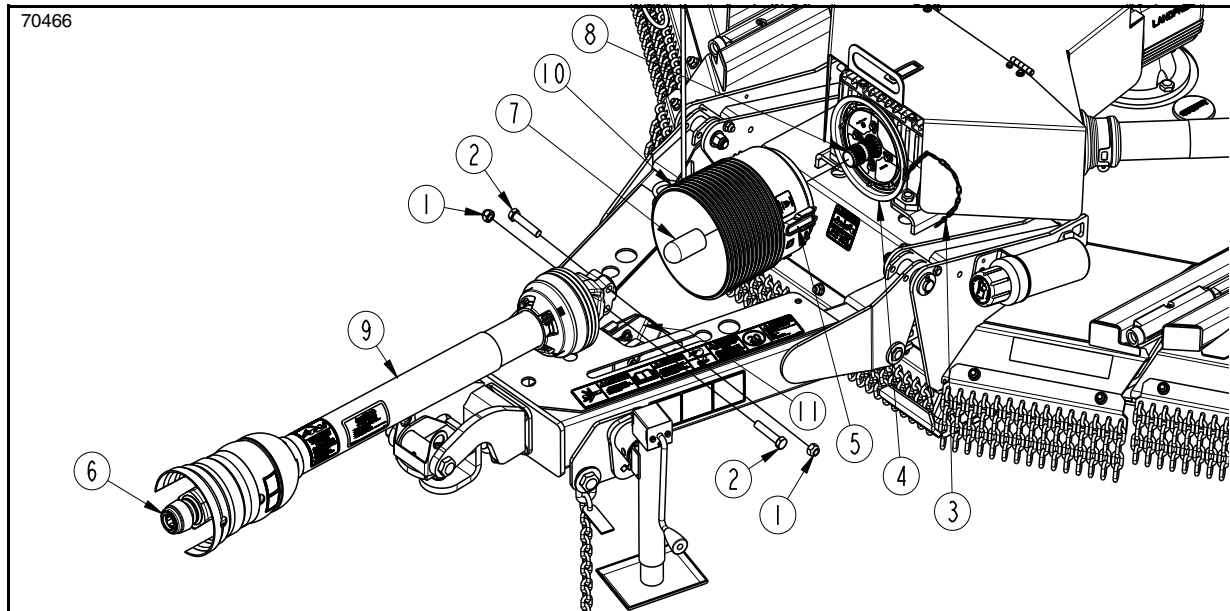
1. With the wings down and on a level surface, remove all 5/8" hex nuts (#1), lock washers (#2), flat washers (#3) and 5/8"-11x1 3/4" bolts (#4) from both wing decks. Set hardware aside for re-use.
2. On both wing decks, flip the fold lock lugs (#5) length wise as shown.
3. Re-install 5/8" hex nuts (#1), lock washers (#2), flat washers (#3) and 5/8"-11x1 3/4" bolts (#4). Hand tighten nuts (#1).
4. Return to and start the tractor. Raise the wings and shut down the tractor without relieving hydraulics.
5. Insert transport pins as shown in "**Figure 1-16**".
6. Tighten all nuts (#1) on left and right hand wing decks to correct torque.



**Fold Lock Lugs Set Up For Dual Acting Cylinders**  
**Figure 1-19**



**Fold Lock Lugs Set Up For Single Acting Cylinders**  
**Figure 1-20**



**Driveline Assembly**  
**Figure 1-21**

### Driveline Assembly

#### **DANGER**

*To avoid serious injury or death:*

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

**IMPORTANT:** The driveline must be lubricated before putting it into service. Refer to “**Lubrication Points**” on page 49.

**NOTE:** Wings must be lowered before removing the driveline from its shipping location. See “**Unfold Wings**” on page 20.

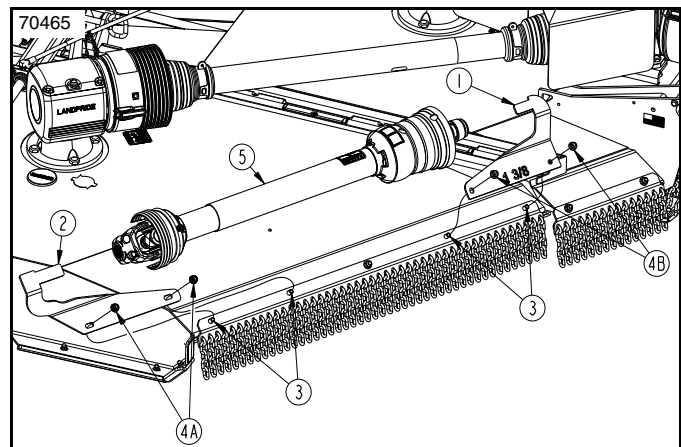
The main driveline type is a constant velocity, with or without overrunning clutch. Pull-collar and bolted couplers are used to secure the driveline to the tractor and implement gearbox, respectively.

#### **Refer to Figure 1-22:**

1. Remove hex whiz nuts (#4A), carriage bolts (#3), and shipping bracket (#2). Discard shipping bracket.
2. Slide driveline (#5) off end of shipping bracket (#1). Set driveline aside for attaching to splitter box later.
3. Reinsert carriage bolts (#3) and secure with hex whiz nuts (#4A). Tighten whiz nuts to the correct torque.
4. Remove hex whiz nuts (#4B), carriage bolts (#3), and shipping bracket (#1). Discard shipping bracket.
5. Reinsert carriage bolts (#3) and secure with hex whiz nuts (#4B). Tighten whiz nuts to the correct torque.

#### **Refer to Figure 1-21:**

6. Unsnap latches (#5) on both sides of gearbox shield (#10) and remove shield.



**Remove Main Driveline from Shipping Position**  
**Figure 1-22**

7. Remove and discard rubber shaft protector (#7) from splitter gearbox shaft (#8).
8. Remove locknuts (#1) and bolts (#2) from bolted coupler end of driveline (#9).
9. Insert bolted coupler end of driveline (#9) through gearbox shield (#10) and attach to gearbox input shaft (#8) with removed bolts (#2) and locknuts (#1). Tighten locknuts to the correct torque.
10. Collapse driveline (#9) by pushing tractor end of driveline toward splitter gearbox (#8).
11. Rotate driveline hanger (#11) up and support driveline (#9) on hanger. Final adjustments to hanger will be made later after tractor hook-up.
12. Return gearbox shield (#10) to mounting plate (#4) and secure with latches (#5).
13. Check safety chain (#3). Make sure it is latched to mounting plate (#4) and gearbox shield (#10).



## Section 1: Assembly &amp; Set-up

## Driveline Hook-up to Tractor

# **DANGER**

To avoid serious injury or death:

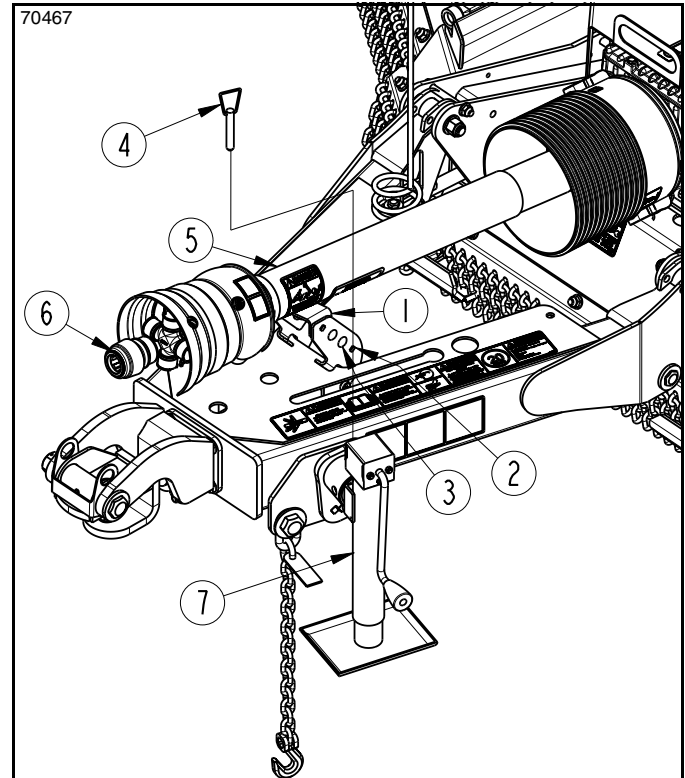
- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline.
- Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.
- Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.
- Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably causing implement damage and bodily injury or death to anyone nearby.
- Always disengage power take-off, put tractor in park or set park brake, shut tractor engine off, remove ignition key, and wait for blades to come to a complete stop before dismounting tractor.
- Some tractors are equipped with two power take-off speeds. Be certain your tractor's power take-off is set-up to operate at the implement's rated power take-off speed or equipment breakage may result. RC models are rated for 540 rpm and RCM models are rated for 1000 rpm.

## Refer to Figure 1-23:

1. If needed, collapse driveline (#5) by pushing tractor end of driveline against splitter gearbox.
2. Pull back on yoke locking collar (#6) and slide yoke onto tractor power take-off shaft.
3. Release locking collar (#6) and continue to push outer yoke onto tractor power take-off shaft until locking collar snaps in place.
4. Both yoke ends of driveline (#5) should be moved back and forth to ensure they are secured. Reattach yoke end if it is loose.

**IMPORTANT:** Always rotate driveline hanger down after hook-up to prevent driveline damage.

5. Rotate driveline hanger (#1) down.
6. If park jack (#7) is attached to the hitch, it should be removed and stored on the left-hand wing. For detailed instructions, see steps 11-12 on page 16.



**Driveline Hook-up**  
**Figure 1-23**

### Driveline Hanger Adjustment

Refer to Figure 1-24:

1. Move tractor control lever to extend hydraulic lift cylinder (#1) until pressure against stroke control spacers (#2) is removed.
2. Without relieving hydraulic pressure, Shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.

### WARNING

To avoid serious injury or death:

Stay clear from underneath the cutter and directly behind transport tires. The cutter could fall suddenly causing the decks to lower and tires to roll back.

3. Remove stroke control flip spacers (#2) from hydraulic lift cylinder (#1) by spreading them apart at break line.
4. Start tractor and lower cutter until front skids are resting on the ground or on solid (non-concrete) support blocks.
5. Shut tractor down properly before dismounting.
6. Replace stroke control flip spacers (#2) as needed to support wheels at this position.

Refer to Figure 1-25:

7. With driveline attached to tractor, rotate driveline hanger (#1) up as shown.
8. Loosen nuts securing carriage bolts (#3) and adjust driveline hanger (#1) up until there is a small gap between driveline (#5) and hanger (#1).
9. If driveline hanger (#1) is adjusted fully up and needs to adjust higher, remove carriage bolts (#3) and reattach hanger to the upper two square holes (#2) with existing flat washers, lock washers, hex nuts, and carriage bolts (#3). Continue to adjust hanger to underside of driveline.
10. Draw nuts securing carriage bolts (#3) up snug and rotate driveline hanger (#1) down. If hanger makes contact with driveline (#5), readjust hanger down until it misses the driveline.
11. Tighten 3/8"-16 GR5 bolts (#3) to the correct torque.

**IMPORTANT:** Always rotate driveline hanger down before moving cutter to prevent damage to driveline.

12. Rotate driveline hanger (#1) down.

### Driveline Clearance Check

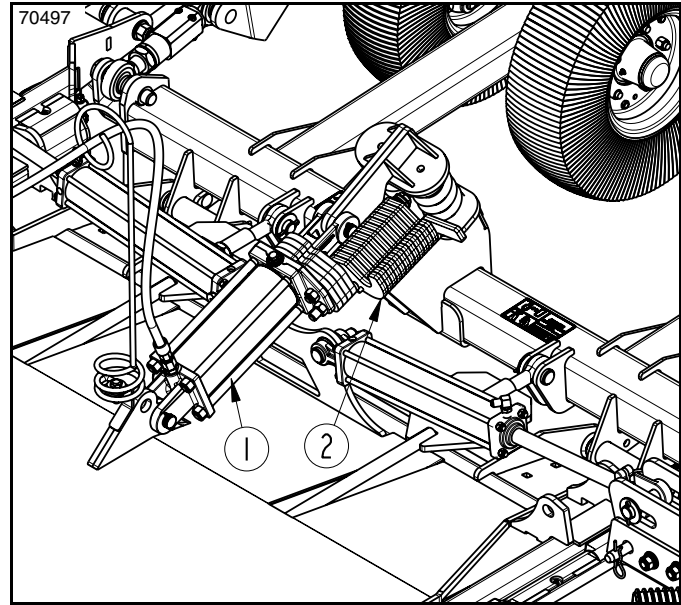
Refer to Figure 1-26 on page 25:

Check driveline for adequate clearance under all ranges of cutter height.

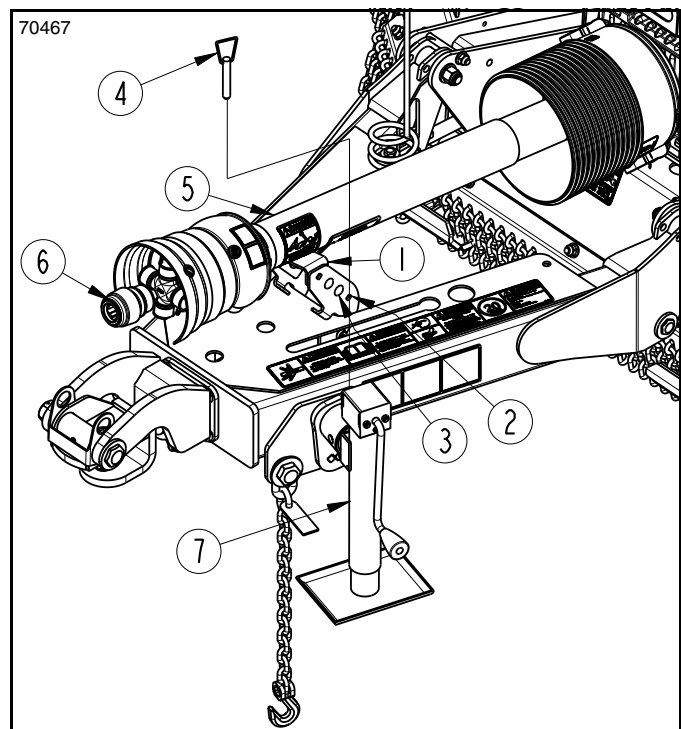
1. With driveline shaft attached to the tractor and all stroke control spacers (#6) removed from hydraulic cylinder (#4), slowly raise and lower cutter to its upper and lower limits while observing clearances between hitch and driveline. Adjust tractor drawbar

height and/or length if driveline interferes. See **Figure 1-1** on page 13: for correct drawbar dimensions.

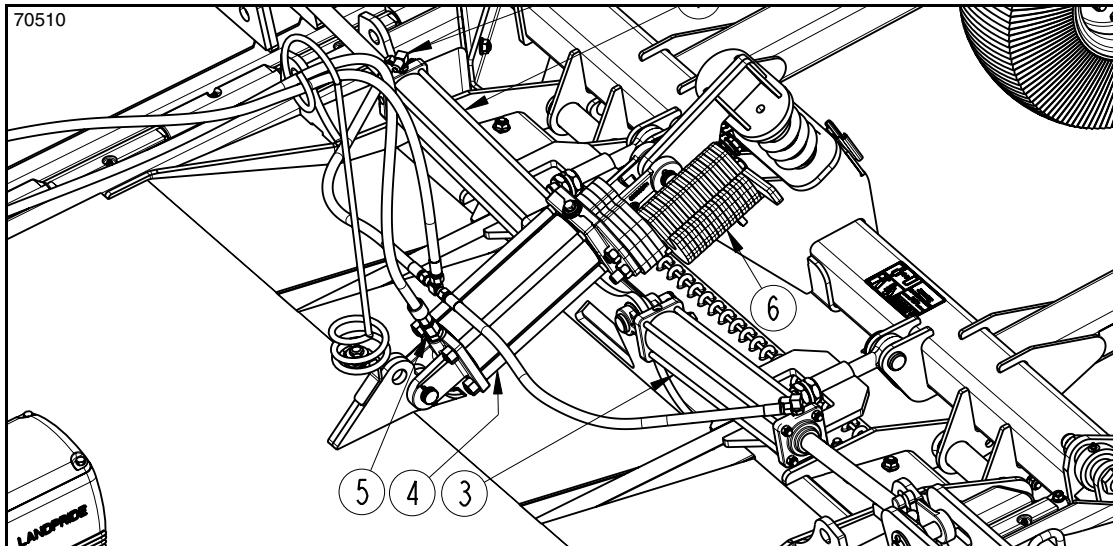
2. It may be necessary to purge lift cylinder, wing cylinder, and hydraulic hoses of trapped air if operation is sluggish. Cycle cylinders back and forth several times to purge air from them. For additional details, see “**Purge Hydraulic System**” on page 25.



Hydraulic Lift Cylinder and Stroke Control Flip Spacers  
Figure 1-24



Driveline Hanger Adjustment  
Figure 1-25



Purge Wing &amp; Center Deck Cylinders

Figure 1-26

## Purge Hydraulic System

### DANGER

To avoid serious injury or death:

Never remove or install a folding wing cylinder with cylinder rod retracted and wing folded-up. The wing is unstable without its folding cylinder and can suddenly fall. Also, air trapped in a new or repaired cylinder will drop the wing suddenly when lowering the wing. Either situation can render the cutter inoperable and cause serious bodily injury or death.

### WARNING

To avoid serious injury or death:

Be sure center and wing decks are lowered to the ground and all hydraulic pressure is relieved before disconnecting any hydraulic lines or fittings to purge the hydraulic system.

## Wing Fold Cylinder

Refer to Figure 1-26:

1. Lower center deck until it is supported by stroke control flip spacers (#6) on hydraulic cylinder (#4).
2. Lower wing decks until they rest on the ground.
3. See “**Tractor Shutdown Procedure**” on page 15. Shut tractor down properly and move deck lift control lever back and forth to relieve all hydraulic pressure.
4. Slightly loosen hydraulic hose fitting (#2) on right-hand wing cylinder (#1) to allow air to escape.
5. Restart tractor and slowly activate tractor control lever to retract wing cylinder (#1), and to purge trapped air from the hydraulic system.
6. Shut tractor down properly. See “**Tractor Shutdown Procedure**” on page 15.
7. Tighten hose fitting (#2) at right-hand wing cylinder.
8. Repeat steps 4-7 to purge the left-hand wing cylinder (#3).

## Deck Lift Cylinder

Refer to Figure 1-26:

1. Move all hydraulic stroke control flip spacers (#6) to open position, then proceed to lower center deck.
2. See “**Tractor Shutdown Procedure**” on page 15. Shut tractor down properly and move deck lift control lever back and forth to relieve all hydraulic pressure.
3. Slightly loosen hydraulic hose fitting (#5) on deck lift cylinder (#4) to allow air to escape.
4. Restart tractor and slowly activate tractor control lift lever to extend lift cylinder (#4) and to purge trapped air from the hydraulic system.
5. Shut tractor down properly. See “**Tractor Shutdown Procedure**” on page 15.
6. Tighten hose fitting (#5) on lift cylinder (#4).

### Hook-up LED Lights

**Refer to Figure 1-27:**

The lead wiring harness (#13) is equipped with a 7-pin plug for connecting to the tractor's 7-pin electrical outlet shown in Figure 1-28.

1. Route lead wire harness (#13) through the front and rear spring hose loops (#14).
2. Connect plug on lead wire harness (#13) to the tractor's 7-pin electrical outlet.
3. It is best to have a second person to verify the lights are operating. Start tractor and operate lights as follows:
  - a. Turn on headlights to verify red lights illuminate.
  - b. Turn on flasher lights to verify amber lights are blinking on and off.

**Refer to Figure 1-29:**

4. If the lights did not operate properly, recheck hook-up of the enhance module (#9) and wire harnesses (#8 & #13) as outlined below. Make any necessary changes and repeat step 3 above.
  - a. Reference wire harness (#8) leading to the LED lights on the right-hand side of the cutter. Make sure connector (#8R), labeled "ENHANCER", is connected to the Red wire connector (#9R) on enhance module (#9).
  - a. Reference wire harness (#8) leading to the LED lights on the left-hand side of the cutter. Make sure connector (#8L), labeled "ENHANCER", is connected to the Yellow wire connector (#9L) on enhance module (#9).
  - b. Make sure lead wire harness (#13) is connected to connector (#9C) on enhance module (#9).
  - c. **Refer to Figure 1-27:** Ensure that the 7-pin plug on the end of the 15' lead wire harness (#13) is properly seated in the tractor's 7-pin electrical outlet shown in Figure 1-28.
5. Check routing of wire harness (#8) to make sure they will not be pinched as the arms fold and unfold and while raising and lowering the cutter height.

**Refer to Figure 1-27:**

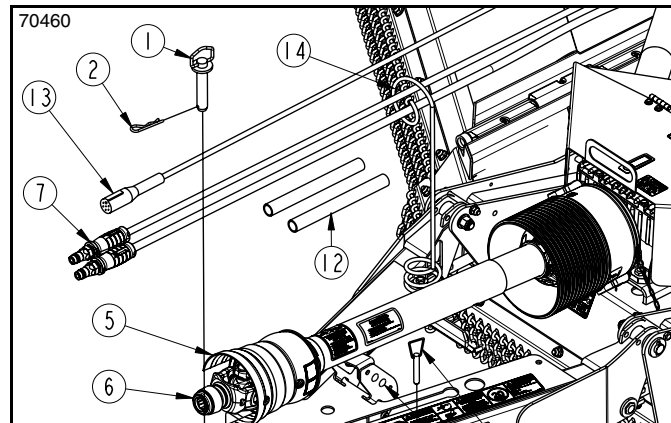
6. Check routing of lead wire harness (#13) to make sure it pass through the spring hose loop (#14).
7. Secure harness in place with spiral hose wrap (#12). If needed, add any cable ties to complete the process.

### Remove Shipping Lugs

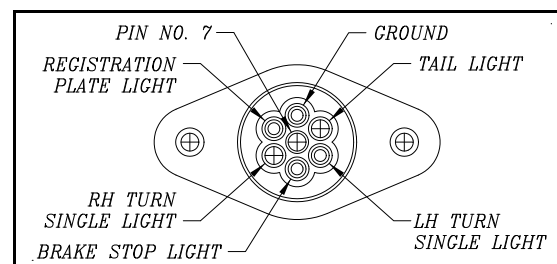
**Refer to Figure 1-30:**

Tie down lugs are installed on the rear two corners of the center deck for shipping purposes only. They should be removed and discarded before cutter is put into use.

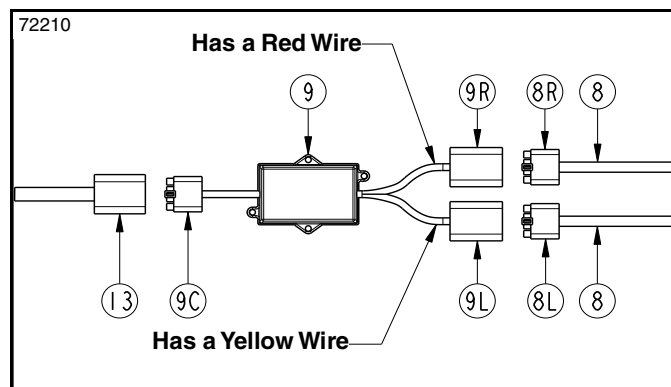
Remove and discard both shipping lugs (#1) and attaching hardware (#2 & #3).



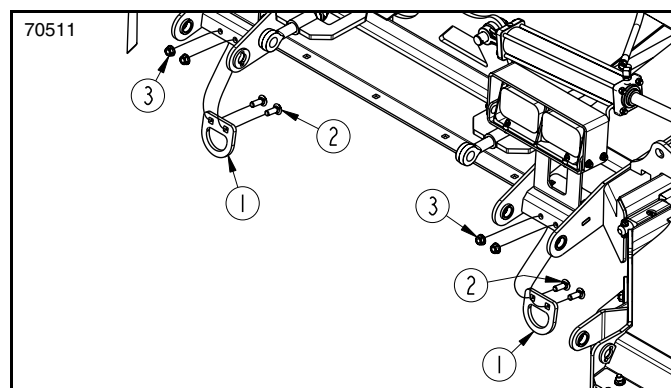
**LED Hookup (Standard Clevis Hitch Shown)**  
Figure 1-27



**Tractor 7-Pin Electrical Outlet**  
Figure 1-28



**Enhance Module Wire Connections**  
Figure 1-29



**Rear Shipping Lugs Removal**  
Figure 1-30



## Section 1: Assembly & Set-up

### Unhook Rotary Cutter

1. See “**Long-Term Storage**” on page 48 when storing the cutter for long periods and at end of season.
2. If power take-off is engaged, reduce tractor engine speed to an idle and then disengage power take-off.
3. Park cutter on a level, hard surface. Place tractor gear selector in park or set park brake.

**Refer to Figure 1-31:**

4. Wait for blades to come to a complete stop, then raise the cutter up and fold wings up to transport position.
5. Without relieving hydraulics, shut tractor off. See “**Tractor Shutdown Procedure**” on page 15.

### DANGER

*To avoid serious injury or death:*

*Do not walk, stand, or allow anyone else in the area where a raised wing will fall unless the wing is securely locked in the raised position with its transport lock.*

6. Remove hairpin cotter (#1) from transport pin (#2) and remove the transport pin (#2) from storage holes (#3).

**Refer to Figure 1-32:**

7. Insert transport pin (#2) through wing lock hole (#3) and secure it with hairpin cotter (#1).

**Refer to Figure 1-33:**

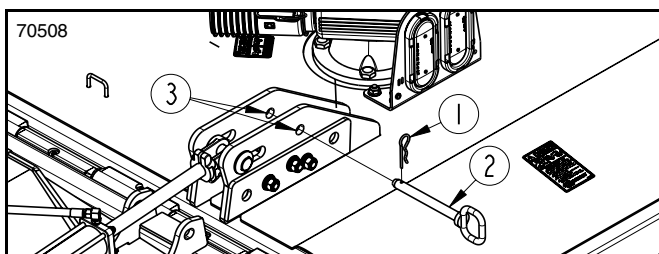
8. Move all flip spacers (#2) to the open position.
9. Start tractor and lower cutter until front skids are resting on the ground or on solid (non-concrete) support blocks.
10. Without relieving hydraulics, shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.

### WARNING

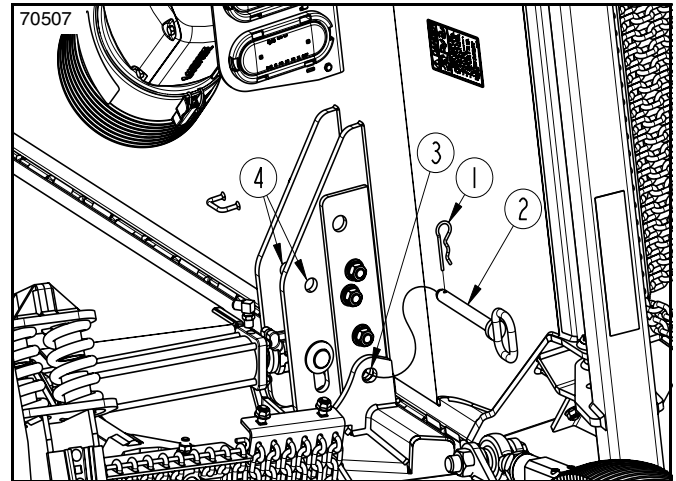
*To avoid serious injury or death:*

*Stay clear from underneath the cutter and directly behind transport tires. The cutter could fall suddenly causing the decks to lower and tires to roll back.*

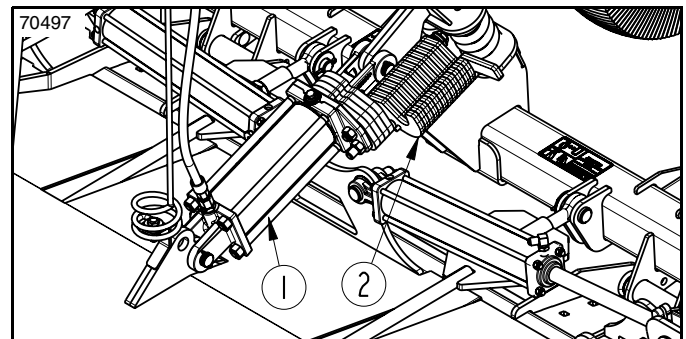
11. Close stroke control flip spacers as needed to support wheels at this position.
12. Move cylinder lift levers back and forth to release all hydraulic pressure at the couplers.



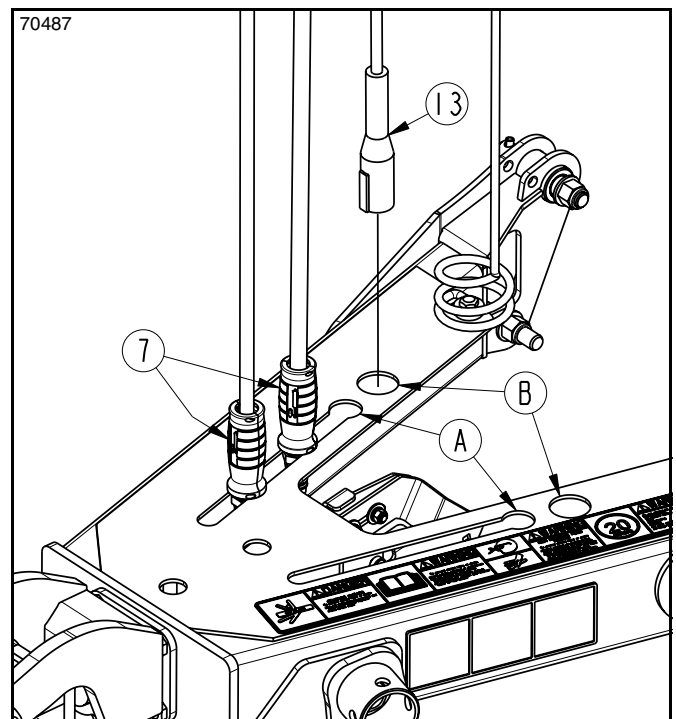
**Transport Pin, Storage Position**  
Figure 1-31



**Transport Pin, Locked Position**  
Figure 1-32



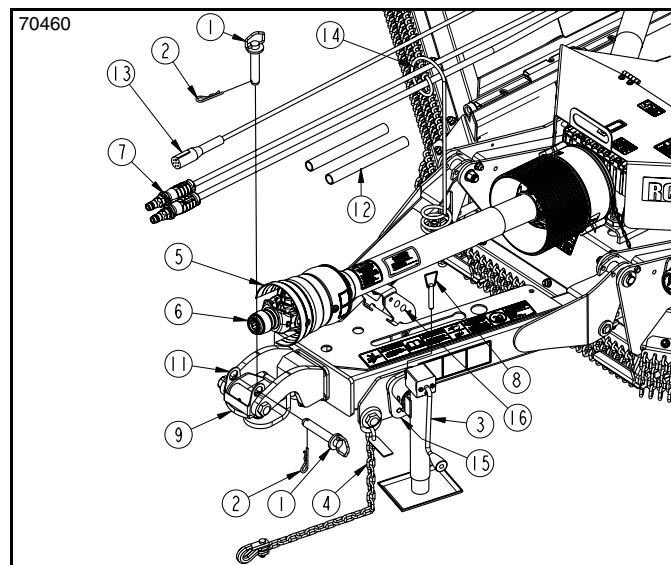
**Hydraulic Lift Cylinder and Stroke Control Spacers**  
Figure 1-33



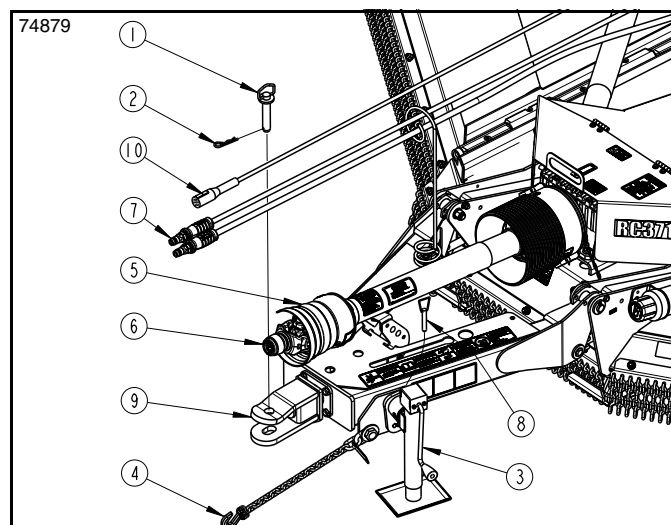
**Hydraulic Couplers & Wire Harness Storage**  
Figure 1-34

### Refer to Figure 1-35:

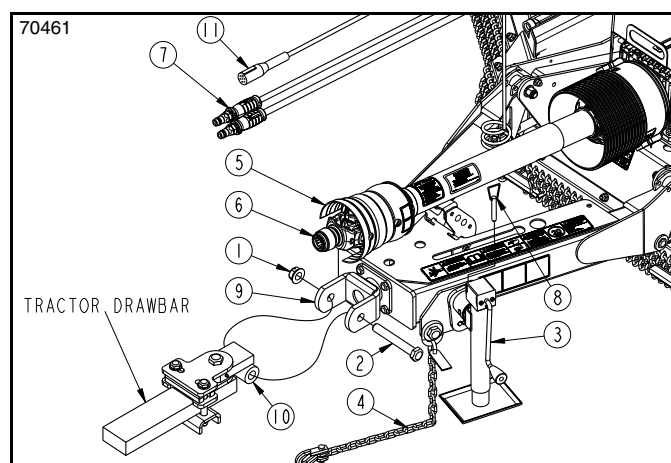
13. Remove park jack (#3) from left-hand wing deck and attach to jack mount (#15) as shown. Fully insert detent pin (#8) in jack mount to secure park jack.
14. If needed, realign park jack to be vertical. Refer to **“Park Jack Angle Alignment”** on page 29.
15. Unhook hitch safety chain (#4) from tractor.
16. Unhook hydraulic hoses (#7) from tractor duplex outlet. Insert couplers through hole (A) on the hitch frame and slide them down the slot as shown to keep couplers out of the dirt. See **Figure 1-34**.
17. Unhook wire harness (#13) from tractor outlet. Insert wire harness through hole (B) on the hitch frame with connector hanging down to keep moisture out. See **Figure 1-34**.
18. Rotate driveline hanger (#16) up to position shown and store driveline on hanger.
19. Pull back on locking collar (#6) and pull driveline (#5) from tractor power take-off shaft.
20. Collapse driveline (#5) by pushing tractor end of driveline toward the splitter gearbox.
21. Adjust park jack (#3) as needed to remove cutter hitch weight off the tractor drawbar.
22. Remove connecting hitch pin or bolt as follows:
  - a. **For Swivel Clevis Hitch, See Figure 1-36:**  
Remove hairpin cotter (#2) and hitch pin (#1).
  - b. **For LP Performance Hitch, See Figure 1-35:**  
Remove hairpin cotter (#2) and hitch pin (#1).
  - c. **For Bar-Tite Hitch, See Figure 1-37:**  
Remove locknut (#1) and bolt (#2).
23. Restart tractor and drive tractor slowly forward several feet.
24. Shut tractor down properly before dismounting.
25. Lower park jack until cutter is resting on its front skid shoes.
26. Replace connecting pin/bolt as follows:
  - a. **For Swivel Clevis Hitch, See Figure 1-36:**  
If unhooking the swivel clevis, replace connecting pin (#1) in clevis (#9) and secure with hairpin cotter (#2).
  - b. **For LP Performance Hitch, See Figure 1-35:**  
Rotate clevis (#9) horizontal and flip hitch holder (#11) up so that its holes are on top as shown. Insert hitch pin (#1) through holes in hitch holder (#11). Secure with hairpin cotter (#2).
  - c. **For Bar-Tite Hitch, See Figure 1-37:**  
If unhooking bar-tite hitch, remove hitch (#10) from tractor drawbar and reattach it to the hitch (#9) with removed bolt (#2) and locknut (#1). Screw locknut on 4 or 5 full turns. Do not torque nut tight.



**Unhook LP Performance Hitch**  
**Figure 1-35**



**Unhook Swivel Clevis Hitch**  
**Figure 1-36**



**Unhook Bar-Tite Hitch**  
**Figure 1-37**

## Section 2: Adjustments

### Lift Cylinder Adjustment

**Refer to Figure 2-3:**

To get best range of motion, put lift cylinder (#2) in bottom hole (as shown) when cutter is supplied with 21" to 26" tires. Put the lift cylinder (#2) in the top hole (A) when the cutter is supplied with 29" tires. When supplied with larger tires, overall ground clearance can be increased by putting the lift cylinder (#2) in the bottom hole (as shown), but lower cutting height ranges will be sacrificed.

### WARNING

*To avoid serious injury or death:*

*Stay clear from underneath the cutter and directly behind transport tires. The cutter could fall suddenly causing the decks to lower and tires to roll back.*

1. Park tractor and cutter on a level surface.
2. Fully extend deck lift cylinder (#2) and fold cylinders to lower the wings.
3. Without relieving hydraulic pressure, shut tractor down properly before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 15. Place sturdy support blocks or jack stands under the four corners of the center deck.
4. Remove stroke control spacers from lift cylinder (#2).
5. Return to tractor seat and start the tractor. Lower center deck onto support blocks. Shut tractor down properly before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 15.
6. Remove hairpin cotter and hitch pin (#6) on both ends of cylinder.
7. If moving from hole (A) to bottom hole, measure the distance between the bottom hole and cylinder hole on axle. Over a bucket or oil catch, crack hose fitting to drain oil and retract cylinder to below measured length. clean cylinder and dispose of oil properly.
8. Reposition hydraulic cylinder to the desired mounting hole, reinsert hitch pin (#6) and secure with hairpin cotter.
9. With jack or overhead lift, lift the rear axle to align with rod end of cylinder (#2) and reinsert hitch pin and secure with hair pin. Remove jack or lift straps.
10. Return to the tractor and fully extend center deck lift cylinder to raise the deck up.
11. Without relieving hydraulics, shut tractor down properly before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 15. Replace stroke control spacers and remove support blocks from under the four corners of the center deck.

### Park Jack Angle Alignment

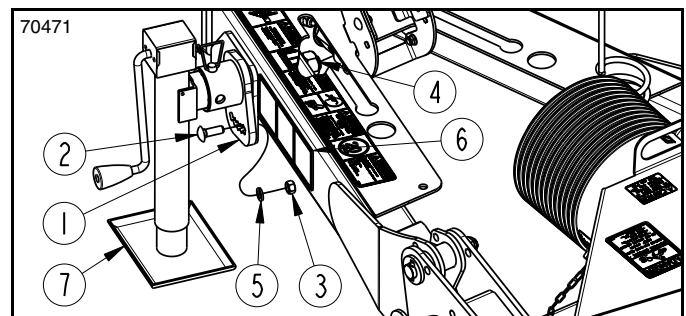
**Refer to Figure 2-1:**

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

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

**NOTE:** If cutter is not hitched to a tractor, solid (non-concrete) support blocks should be placed under the front skid shoes to support cutter while aligning park jack vertically.

1. With cutter hitched to a tractor, lower cutter to storage height.
2. Shut tractor down properly before dismounting. Refer to **"Tractor Shutdown Procedure"** on page 15.
3. Install park jack (#7). See **"Attach Park Jack"** on page 15. Check jack angle. If jack is not vertical, proceed with step 4 below.
4. Remove hex nut (#3), lock washer (#5) and carriage bolt (#2).
5. Loosen 1" hex nut (#4). Do not remove.
6. Rotate jack mount (#1) to align jack as near vertical as possible.
7. Replace 1/2"-13 x 1 1/2" GR5 carriage bolt (#2) and secure with lock washer (#5) and hex nut (#3). Tighten hex nut to the correct torque.
8. Tighten 1" hex nut (#4) to 645 ft-lbs.
9. If moving cutter, skip to step 10. If unhooking cutter, see **"Unhook Rotary Cutter"** on page 27 for detailed instructions.
10. If cutter is to be moved, remove park jack (#7) from hitch frame and attach it to the left-hand wing storage base. Make sure base of park jack is level with or lower than the head, especially after the wings are folded up. See cover picture for correct positioning.



**Park Jack Angle Alignment**  
**Figure 2-1**



### Level Cutter Decks

These adjustments should be made with your cutter hooked to the tractor that will be operating the unit or to a tractor having the same drawbar height.

#### Level Center Deck

Refer to **Figure 2-2** & **Figure 2-3**

1. With cutter attached to a tractor, disengage power take-off, and park on a level, hard surface. Place tractor gear selector in park or set park brake.
2. Using hydraulic lift, adjust center deck height so that front skids (#2) are 2 to 3 inches above ground.
3. Wait for blades to come to a complete stop and then fold wings up to transport position.
4. Shut tractor engine off and remove switch key before dismounting from tractor.
5. Lock wings in the up position with the transport pins. See **"Transport Pins"** on page 34 for instructions.

**IMPORTANT:** See **Figure 2-3**. Loosening adjusting nuts (#3) will lengthen leveling rods and lower front of cutter. Tightening adjusting nuts (#3) will shorten leveling rods and raise front of cutter.

6. On both sides of the center deck are continuous hinges (#1). Measure distance from bottom of hinges to ground at the front and back. They should be equal distance off the ground at the back and 1" closer to the ground at the front than they are at the back.

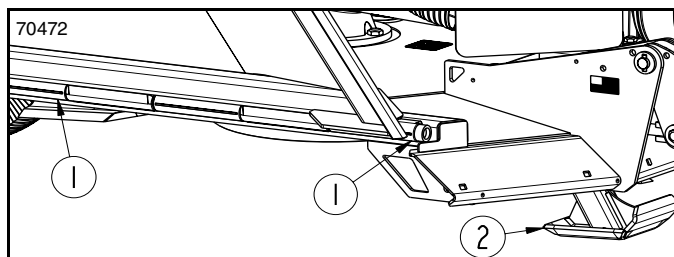
**NOTE:** 1" measurement can be lowered or raised depending on cutting conditions.

#### If continuous hinges are too high at the front:

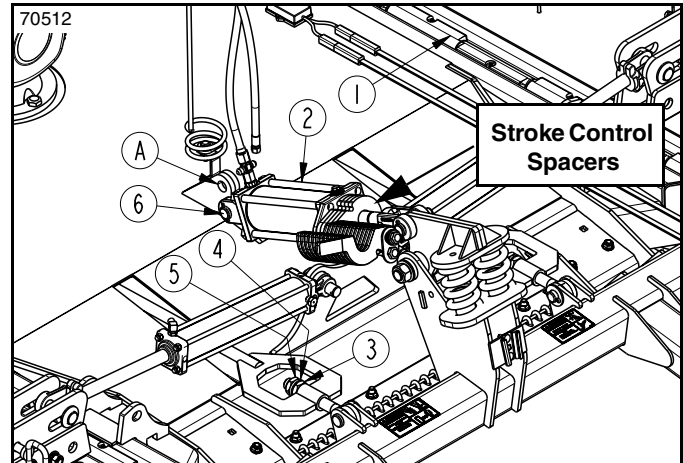
- a. Loosen jam nuts (#5) several turns.
- b. Unscrew adjusting nuts (#3) an equal amount to lower front of cutter until both hinges are 1" lower in the front than in the back.

#### If continuous hinges are too low at the front:

- a. Loosen jam nuts (#5).
7. Tighten adjusting nuts (#3) an equal amount to raise front of cutter until both hinges are 1" lower in the front than in the back.
  8. Be sure left and right leveling rods have equal amounts of tension and then re-tighten jam nuts (#5) against lock washers (#4) and adjusting nuts (#3).



**Front Skid Position (Chain Guards Removed For Clarity)**  
**Figure 2-2**



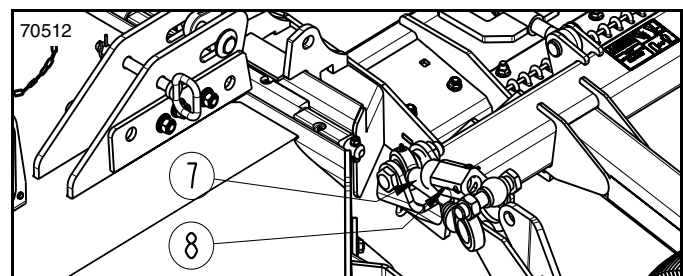
**Center Deck Leveling Rods (Lights Removed For Clarity)**  
**Figure 2-3**

### Level Wing Decks

Refer to **Figure 2-4**:

Each wing section will need adjusting if wing top is not level with center deck top when wings are unfolded.

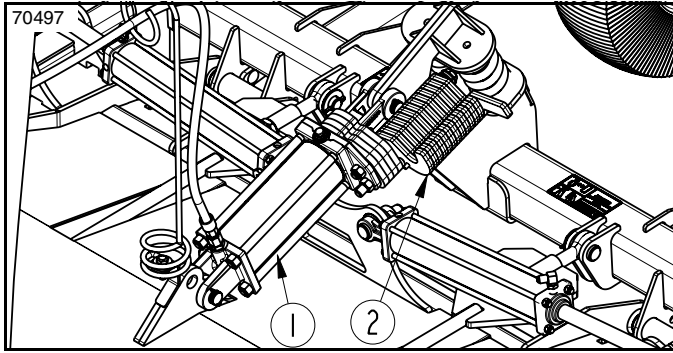
1. Start tractor and lower wings down. Refer to **"Field Set-up"** on page 36 for instructions on how to lower wings.
2. Pull cutter straight forward six to ten feet to allow outer wing wheels to properly align themselves.
3. Check wing tops with a level to see if they are level with the top of the center deck. If the outer edge of either wing top is higher or lower than the center deck, then that wing should be leveled as follows:
  - a. **If outer wing edge is higher** than the center deck, loosen jam nut (#7) & tighten turnbuckle (#8) to shorten it until lower outer wing edge is level with center deck. Tighten jam nut (#7) to the correct torque when level.
  - b. **If outer wing edge is lower** than the center deck, loosen jam nut (#7) and loosen turnbuckle (#8) to lengthen it until outer wing edge is level with the center deck. Tighten jam nut (#7) to the correct torque when level.



**Wing Turnbuckle**  
**Figure 2-4**



## Section 2: Adjustments



**Cutting Height Adjustment**  
**Figure 2-5**

### Adjust Cutter Height

**NOTE:** Make all cutting height adjustments in the field using height of cut grass/material as a guide. Do not measure blade height above ground as the non-operating blade height will be different than the operating blade height.

#### Refer to Cutting Height Adjustment Figure 2-5:

1. At the cutting site, unfold wings and raise center deck fully up with lift cylinder.
2. Without relieving hydraulics, shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.



### WARNING

*To avoid serious injury or death:*

*Stay clear from underneath the cutter and directly behind transport tires. The cutter could fall suddenly causing the decks to lower and tires to roll back.*

**IMPORTANT:** Whether engaging or disengaging stroke control flip spacers, take time to ensure they are in the open or fully closed position. Flip spacers not in the fully closed or fully open position can cause damage to the lift cylinder and/or flip spacers.

3. Open all flip spacers (#2) on lift cylinder (#1).
4. Start tractor and engage blades. See “**Engage Blades**” on page 37 for detailed instructions.
5. Using tractor control lever, adjust cutter to the desired cutting height and then travel forward for approximately 20 to 50 feet (6 to 15 meters).
6. Without relieving hydraulics, shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.

7. Measure height of cut grass/material. This distance is the cutting height. If this height is acceptable, continue with step 8. If this height is unacceptable, repeat steps 4-7 until desired cutting height is achieved.
8. Count the required number of flip spacers (#2) to meet desired cutting height.

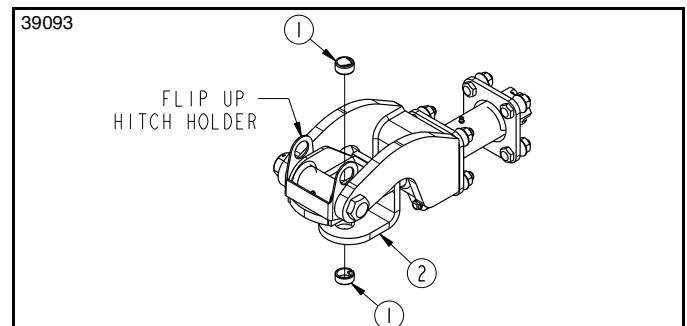
**NOTE:** Opening flip spacers lowers cutting height and closing flip spacers raises cutting height.

9. Return to tractor and raise Rotary Cutter up again.
10. Without lowering the cutter, shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.
11. With tractor shut off and switch key removed, install selected stroke control spacers on the center hydraulic lift cylinder rod.
12. Restart tractor and lower cutter against stroke control spacers.
13. Recheck cutting height using steps 4-7 above. If needed, adjust size and quantity of stroke control spacers until desired cutting height is achieved.
14. Keep remaining spacers with tractor for field adjustments.

### LP Performance Hitch Hole Size

#### Refer to Figure 2-6:

The LP Performance hitch is designed to receive 1" diameter hitch pins. To convert the hitch to receive 1 1/4" diameter hitch pins, knock out upper and lower bushings (#1) in clevis (#2).



**LP Performance Hitch Hole Size**  
**Figure 2-6**



## Section 3: Operating Instructions

### Startup 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 cutter unless they are age 16 or older and have read, fully understood, and are totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, page 1
- **Section 1: Assembly & Set-up**, page 13
- **Section 2: Adjustments**, page 29
- **Section 3: Operating Instructions**, page 32
- **Section 5: Maintenance & Lubrication**, page 42
- **Section 5: Maintenance & Lubrication**, page 42

Perform the following inspections before using your Rotary Cutter.

### Operating Checklist

✓	Check	Page
	Make sure all guards, and shields are in place and in good working condition. Refer to "Important Safety Information".	1
	Follow installation and hook-up instructions. Refer to "Section 1: Assembly & Set-up".	15
	Make all required adjustments. Refer to "Section 2: Adjustments".	29
	Perform all required maintenance. Refer to "Section 5: Maintenance & Lubrication".	42
	Lubricate cutter and driveline as needed. Refer to "Lubrication Points".	49
	Lubricate all gearboxes and replace oil plugs properly. Refer to Gearbox lubrication.	51
	Check cutter initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	60

### Safety Information

#### DANGER

To avoid serious injury or death:

- Do not walk, stand, or allow anyone else in the area where a raised wing will fall unless the wing is securely locked in the raised position with its transport lock.
- Rotary Cutters have the ability to discharge objects at high speeds; therefore, the use of front & rear safety guards is mandatory with this cutter. Stop blade rotation if bystanders are in or around the area. It is recommended that a safety shield be placed between the operator and cutter on an open air tractor.
- Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.
- Always disconnect driveline from the tractor before servicing the drivetrain and components powered by the drivetrain. A person can become entangled in the drivetrain if the tractor is started and the power take-off is engaged.

- Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.
- Keep everyone away from the cutter when folding or unfolding the wings or when raising or lowering the cutter. The cutter can pinch or crush a person when performing these operations.
- Do not raise one or both wings up with power take-off engaged or drivelines rotating. Objects can be thrown by rotating blades. Always keep people away from a cutter that is operating.
- Do not use cutter as a fan. Cutting blades are not properly designed or guarded for this use.
- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline.
- Never place hands or feet under the deck or attempt to make adjustments to the cutter with power take-off engaged. Cutter blades rotating at high speeds cannot be seen and are located close to the deck sides. Body extremities will be cut off instantly.
- This cutter is equipped with free-swinging cutting blades to reduce shock loads. However, it is best to avoid striking solid objects for your safety and to protect the cutter from damage.
- Clear area to be cut of debris and other unforeseen removable objects before cutting. Mark non-removable hazards such as tree stumps, post stubs, protruding objects, rocks, drop-offs, holes, etc. with a visible flag.
- Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.

#### WARNING

To avoid serious injury or death:

- 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.
- Never carry riders on the implement or tractor. Riders can obstruct the operator's view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.
- Do not operate and/or travel across inclines where the tractor and/or implement can rollover. Consult your tractor's manual for acceptable inclines the tractor is capable of traveling across. When traveling across steep inclines, ensure the wings are folded down.



## Section 3: Operating Instructions

- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not weld or torch on galvanized metal as it will release toxic fumes.
- Do not raise the wing off the ground when traveling across an incline. The weight of the wing will increase the risk of a rollover.
- Operate only power machines equipped with a certified Roll-Over Protective Structure (ROPS) and seat belt. Keep folding ROPS in the “locked up” position when appropriate. If ROPS is in the locked up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.
- Watch while making tight turns to ensure that the rear tractor tires and lower 3-point arms do not make contact with cutter hitch, driveline or deck. Keep lower 3-point arms raised at all times when hitched to a pull-type cutter.
- Wait for blades to come to a complete stop before accessing blade bolts through blade bolt access hole.
- Do not use implement to lift objects; to pull objects such as fence posts, stumps, etc; or to push objects. The unit is not designed or guarded for these uses.
- Do not use implement to tow other equipment unless it is designed with a tow hitch. Doing so can result in loss of control and damage the equipment.
- Do not operate a cutter with a hitch or hitch pin that is excessively worn, bent, broken, or has structural cracks. The hitch and/or hitch pin can break apart separating cutter from tractor.
- Some tractors are able to over speed their rated power take-off speed of 540 rpm or 1000 rpm. Only operate at the cutter’s designed speed of 540 rpm or 1000 rpm. Excessive speed can damage drive components, cutter blades, and/or increase the risk of thrown object hazard.
- Some tractors are equipped with two power take-off speeds. Be certain your tractor’s power take-off is set-up to operate at the implement’s rated power take-off speed or equipment breakage may result. RC models are rated for 540 rpm and RCM models are rated for 1000 rpm.
- Avoid catching hydraulic hoses on brush, posts, tree limbs, and other protrusions that could damage and/or break them.
- Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level.
- Do not exceed rated cutting capacity of your cutter. See specifications & capacities for specified cutting capacity. Exceeding rated cutting capacity can damage drive components, cutter blades, and deck components.

- Cutter blades can continue to rotate while decelerating after power take-off is disengaged. Remain on the tractor seat until rotating parts come to a complete stop.
- Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds and can cause serious injury or death. Always remove the implement from use until the damaged driveline can be repaired or replaced.
- The cutter must be operated with both wings attached. Removing one wing will increase risk of rollover. Removing one or both wings will expose the blades. Rotating blades will cut body extremities and throw objects.

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

**IMPORTANT:** If wing driveline profile is bent or twisted, disconnect that driveline from the wing gearbox before folding the wing up. This will protect both the wing and divider gearboxes. Repair driveline before putting cutter back into service.

## Tractor & Cutter Inspection

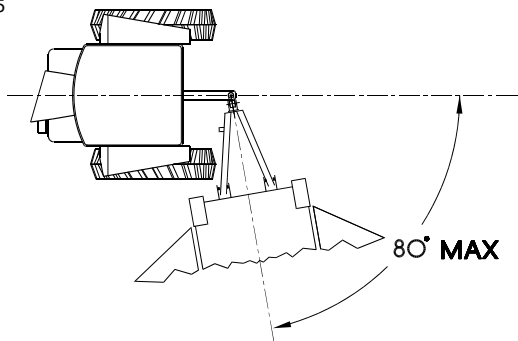
Make the following inspections with cutter attached to a tractor and cutter parked on a level surface, power take-off disengaged, and cutter blades stopped.

1. Inspect tractor safety equipment to make sure it is in good working condition.
2. Inspect cutter safety equipment to make sure it is installed and in good working condition.
3. Check driveline to make certain it is securely connected to the tractor power take-off shaft and cutter gearbox shaft. Also, make certain guards are in good working condition and in place.
4. Check driveline hanger. Make sure it is rotated down away from the driveline.
5. Remove 3-point lower arms or secure them so they do not interfere with driveline, hoses, or hitch.
6. Check all hoses and wires to be sure that they will not pinch or come in contact with the folding wings and rotating drivelines.
7. Start tractor and carefully raise and lower implement to ensure tractor drawbar, tires, and other equipment on the tractor do not contact cutter or power take-off driveline. See also “**Driveline Clearance Check**” on page 24.
8. Raise center deck fully up. Without lowering implement, shut tractor down properly. Refer to “**Tractor Shutdown Procedure**” on page 15.
9. Place solid (non-concrete) support blocks or jack stands under the four center deck corners.
10. Start tractor and lower center deck down onto the supports.



11. Shut tractor down properly before dismounting.
12. With cutter resting on solid supports, power take-off disengaged, and blade rotation completely stopped:
  - Check for and remove foreign objects wrapped around blade spindles.
  - Check for nicked, bent, broken, and worn cutting blades. Replace or sharpen blades as required. Refer to “**Cutter Blades**” on page 46.
13. Inspect hydraulic hoses for wear, damage, and hydraulic leaks. Before checking for leaks, read “**Avoid High Pressure Fluids Hazard**” on page 3. Replace damaged and worn hoses with genuine Land Pride parts.
14. Make repairs to cutter and tractor before continuing with “**Blade Operation Inspection**” on this page.

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**Constant Velocity (CV) Driveline**  
**Figure 3-1**

### Avoid Extreme Turning Angles

#### Refer to Figure 3-1:

Plan your field cutting to minimize number of turns, especially extreme turning angles. Avoid tractor-to-cutter turning angles that exceeds driveline maximum turning angle. If the turn cannot be avoided, disengage tractor power take-off and wait for driveline to stop before making the turn.

- **Constant Velocity Driveline:**  
Maximum turning angle = 80°.

### Blade Operation Inspection

#### **DANGER**

*To avoid serious injury or death:*

*Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.*

#### **WARNING**

*To avoid serious injury or death:*

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

- Stop power take-off immediately if vibration continues after a few revolutions during start-up and anytime vibration occurs thereafter.

#### **CAUTION**

*To avoid minor or moderate injury:*

*Some tractors are equipped with two power take-off speeds. Be certain your tractor's power take-off is set-up to operate at the implement's rated power take-off speed or equipment breakage may result. RC models are rated for 540 rpm and RCM models are rated for 1000 rpm.*

**IMPORTANT:** Read all “**Safety Information**” starting on page 32 before operating the cutter.

1. Make sure cutter blades are not locked against each other. See “**Field Set-up**” on page 36.
2. Remove deck supports and set transport locks for field operations. See “**Transport Pins**” on page 34.
3. Lower cutter decks until blades are about 2" off the ground.
4. Start tractor and set throttle speed just above idle. If available, use tractor's power take-off soft start option. Slowly engage power take-off to get blades rotating. (See “**Engage Blades**” instructions on page 37.)
5. Initial start-up vibration is normal and should stop after a few revolutions. Stop power take-off rotation immediately if vibration continues.
6. Once cutter is running smoothly, increase throttle to full cutter speed (540 or 1000 rpm). If cutter vibrates excessively for 3 seconds at full speed, immediately disengage power take-off, shut tractor down, and remove switch key.
7. Block center deck up before working under cutter.
8. Check blades for a locked-up situation. Unlock blades if locked-up.
9. Check for other probable causes such as broken or bent blades, loose blades, loose gearbox mounting bolts, bent driveline etc.
10. Take proper precautions to make necessary repairs and adjustments.
11. Repeat steps 1-10 above to make certain vibration is corrected before putting cutter back into service.



## Section 3: Operating Instructions

### Transport Pins

**IMPORTANT:** Always disengage tractor's power take-off and wait for blades to come to a complete stop before raising the wings to transport position. Wing drivelines, wing gearboxes, and splitter gearbox can be damaged if driveline is turning.

**NOTE:** The wings are controlled with two hydraulic lift cylinders. Be certain that the wing hydraulics are attached to the tractor and the hydraulic hoses are full of oil before proceeding.

Cutter wings will need to be raised before transporting on a roadway, through narrow gate openings and when servicing the deck underside.

1. Disengage power take-off and wait for cutter blades to come to a complete stop before raising wings.
2. Rotate cutter wings fully up with hydraulics.
3. Without relieving hydraulics, shut tractor off. See **"Tractor Shutdown Procedure"** on page 15.

### DANGER

To avoid serious injury or death:

Do not walk, stand, or allow anyone else in the area where a raised wing will fall unless the wing is securely locked in the raised position with its transport lock.

4. See **Figure 3-3**: Remove hairpin cotter (#1) from transport pin (#2) and remove the transport pin (#2) from storage holes (#3).
5. See **Figure 3-4**: Insert transport pin (#2) through lock hole (#3) and secure it with hairpin cotter (#1).
6. Repeat steps 4 and 5 for the other wing. Your cutter is now ready for transporting.

### Transporting

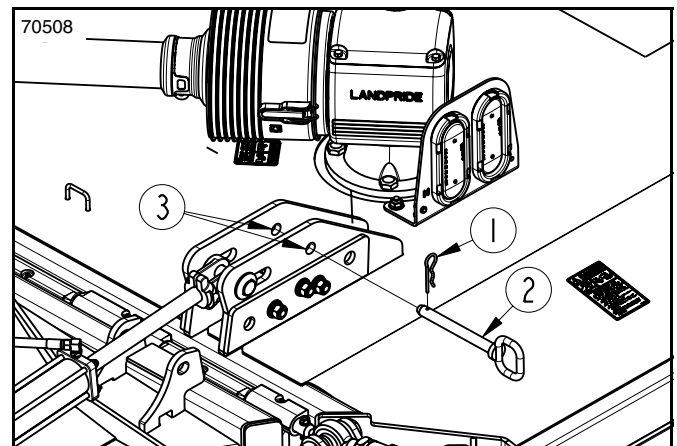
### WARNING

To avoid serious injury or death:

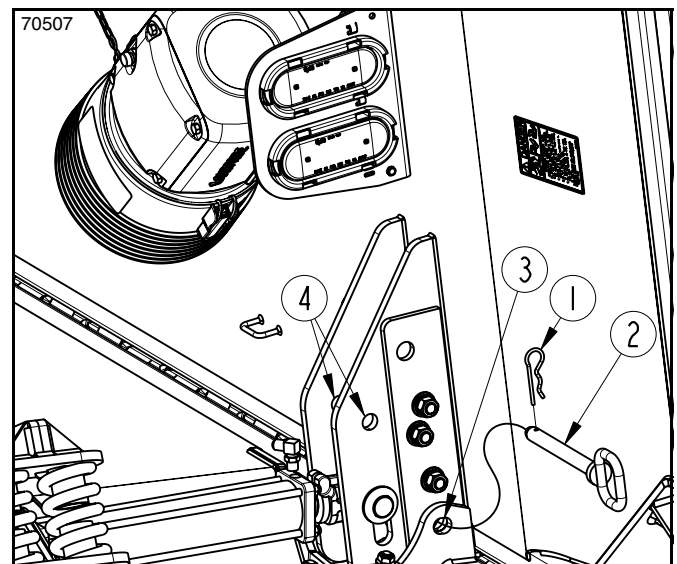
- Always raise wings and set transport locks before transporting from one work site to another and before traveling on public roadways. The wings can fall if not secured with transport locks.
- Always travel with cutter at a safe transport height. be sure that it is high enough to clear ground obstacles but not too high that the cutter is unstable on side hills or tight turns.
- Select a safe ground speed when transporting. Never travel at a speed which does not allow adequate control of steering and stopping, and never exceed 20 mph (32.2 km/h) with attached equipment. Rough terrain requires a slower speed.
- Watch while making tight turns to ensure that the rear tractor tires and lower 3-point arms do not make contact with cutter hitch, driveline or deck. Keep lower 3-point arms raised at all times when hitched to a pull-type cutter.

- When traveling on public roads, use LED lights, slow moving vehicle sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. If implement blocks visibility of slow moving vehicle sign, relocate sign so it is visible from the back at all times. Always comply with all federal, state, and local laws.

1. Select a safe ground speed when transporting from one area to another. Maximum transport speed for the Rotary Cutter is 20 mph. **DO NOT EXCEED.**
2. Be sure to reduce tractor ground speed when turning and leave enough clearance so the cutter does not contact obstacles such as buildings, trees, or fences.
3. Always raise wings and set transport pins before traveling on public roadways.
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.



Transport Pin, Storage Position  
Figure 3-3



Transport Pin, Locked Position  
Figure 3-4



### Road Side Cutting

Land Pride recommends the Rotary Cutter be equipped with chain guards to stop flying objects when cutting road sides. Refer to “**Safety Chain Guards**” on page 40.

Use the LED flashing lights on the cutter to make yourself more visible when cutting road sides.

### Field Set-up

#### DANGER

*To avoid serious injury or death:*

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

#### WARNING

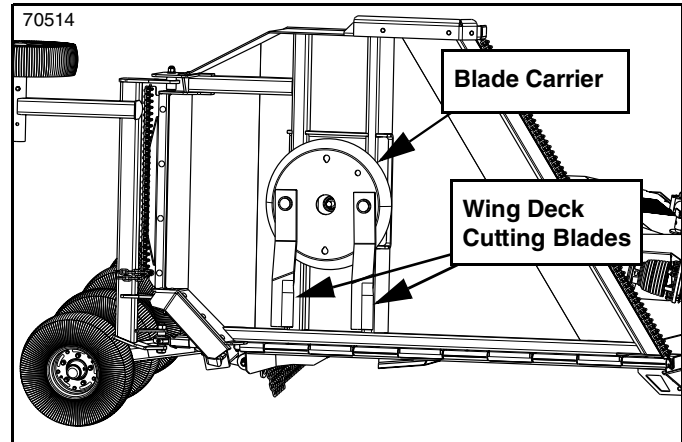
*To avoid serious injury or death:*

*The following operational procedures should be carried out by the tractor operator. Other persons should not be in the area. All cutter operations including field set-up should be stopped when other persons are in the vicinity.*

**IMPORTANT:** Cutting should **not be** done in wet conditions. Wet material will build up on the deck underside creating need for additional horsepower, high wear, and poor discharge.

### Field Inspections

Thoroughly inspect area to be cut for debris and unforeseen objects. Remove all potential hazards and mark any that cannot be removed.



**Wing Deck Blade Position**  
Figure 3-5

### Unfold Wings and Set Deck Cutting Height

**Refer to Figure 3-5:**

**IMPORTANT:** Cutting blades may become locked together (overlapped) when the wings are raised for transport. Operating cutter in this condition will result in severe deck vibration. Inspect wings for locked blades prior to power-on operation.

1. Inspect blade carriers for locked blades prior to lowering the wings. Separate locked blades.
2. Start tractor and raise both wings up to release any tension on the transport lock pins.
3. Without lowering the cutter, shut tractor down before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.

**Refer to Figure 3-4 on page 35:**

4. Remove hairpin cotters (#1) from both left and right side transport pins (#2).

**Refer to Figure 3-3 on page 35:**

5. Store transport pins (#2) in light guard brackets (#3) and secure them with hairpin cotters (#1).
6. Start tractor and lower both wings down.
7. Adjust cutter to field cutting height. See “” on page 31 for detailed instructions.

### Set Wing Lift Lever to Float Position

**IMPORTANT:** When cutting, the wing folding lever should be in float position to avoid damage to the wing hydraulic cylinder and axle while cutting on uneven terrain.

Use float position of your tractor’s hydraulic system to provide automatic floating of wings for varying terrain conditions. This will ensure wing gauge wheels are in continuous contact with the ground at all times.



## Section 3: Operating Instructions

### Select Gear Range

Optimum ground speed depends on density of material being cut, horsepower rating of tractor, and (in some cases) terrain. Always operate tractor at cutter's full-rated power take-off speed in a gear range that allows the cutter to make a smooth cut without lugging the tractor down, usually between 2 to 5 mph. Loss of power take-off speed will allow blades to hinge back and result in ragged, uneven cutting.

**NOTE:** Never run tractor in an economy mode or any other mode that will drop power or speed from the power take-off. This may result in ragged and uneven cutting.

### Engage Blades

**IMPORTANT:** Cutter blades can lock-up against each other during start-up and shut-down, especially if tractor's power take-off engagement is "INSTANT ON" and/or "INSTANT OFF." Follow Blade Engagement and Blade Disengagement instructions to help eliminate blade lock up.

1. Select a gear range that will allow the cutter to make a smooth cut without lugging the tractor down. See "**Select Gear Range**" above for instructions.
2. With wings lowered, increase throttle to a speed just enough to get the cutter started without stalling tractor while slowly engaging power take-off. Use tractor's power take-off soft start option if available.
3. Ensure power shafts are rotating and cutter is not vibrating excessively after ramping up to full power take-off speed for at least 3 seconds. If excessive vibration continues after 3 seconds at full power take-off speed, disengage power take-off immediately, shut tractor down, and remove switch key. Wait for blades to stop rotating before dismounting tractor.
4. Investigate cause if cutter was shut down due to excessive vibration. See "**Blade Operation Inspection**" on page 34 for detailed instructions.
5. If cutter was not shut down, commence forward cutting operation at full power take-off operating speed. Make a new gear selection if tractor is lugging down or if cutter is making a rough cut.
6. Periodically, disengage power take-off, stop tractor, place gear selector in park or set park brake, turn off tractor, remove switch key and wait for blades to stop rotating before dismounting tractor.
7. Dismount tractor and check for objects wrapped around blade spindles. Block deck up before removing objects.
8. Frequently inspect cutter for loose bolts and nuts. Tighten all loose hardware as indicated in the "**Torque Values Chart**" on page 60.

### Disengage Blades

1. Slowly decrease throttle speed until engine idle speed is reached.
2. Disengage power take-off.
3. Place tractor in park or set park brake, shut tractor engine off, remove switch key, and wait for blades to come to a complete stop before dismounting from tractor.

**IMPORTANT:** It will take longer for the blades to come to a complete stop on cutters equipped with a main driveline that has an overrunning clutch, as opposed to a cutter with a main driveline that doesn't have an overrunning clutch.



### General Operating Instructions

It is important that you familiarize yourself with the Operator's Manual, complete the Operator's Checklist, properly attach the cutter to your tractor, make leveling adjustments, and preset your cutting height before beginning a running operational safety check on your Land Pride RC(M)3715 or RCG(M)3715 Rotary Cutter.

It's now time to do a running operational safety check. 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 the key, and make necessary repairs and/or adjustments before continuing on.

Before starting the tractor, make sure the park brake is engaged and power take-off is disengaged. If wings are folded up, follow instructions in this manual to unfold wings. Start the 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 power take-off shaft does not bind and does not contact the cutter frame. Lower cutter to the ground and at a low engine speed engage power take-off. If everything is running smoothly at a low idle, slowly raise the cutter to transport height checking for bind or chatter in the driveline. Lower cutter to the ground and increase tractor's engine rpm until it reaches the cutter's full power take-off operating speed which will be either 540 or 1000 rpm. If everything is still running smoothly, once more raise the cutter to transport height to check for driveline bind or chatter. Lower cutter to the ground, return engine to a low idle, and disengage the power take-off. Make a tight turn to ensure that the rear tractor tires are not coming in contact with the hitch or deck. Also, be sure tractor 3-point arms are raised and will not contact main driveline.

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

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

You will need to maintain either 540 or 1000 rpm power take-off speed and 2 to 5 mph ground speed to produce a clean cut. Make a tractor gear and range selection that will enable you to maintain these speed combinations. Generally the quality of cut is better at lower ground speeds. Dense ground cover will create the need to slow down even more. In certain conditions tractor tires will roll grass down resulting in an uneven cut when the grass fails to rebound. Should this happen you may try reversing the direction of cut and/or double cut to achieve the desired finish. Avoid very low cutting heights especially on extremely uneven terrain. Always cut downward on slopes and avoid crossing the face of steep slopes. Avoid sharp drops and cross diagonally through dips to prevent hanging up the tractor and cutter. Slow down in turns and avoid sharp turns if at all possible. Remember to look back often.

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

- Reduce tractor's engine rpm.
- Make sure cutter wings are on the ground and the hydraulic control lever is in float position.
- Engage power take-off, raise engine rpm to the appropriate power take-off speed, and begin mowing.

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 15' Folding Rotary Cutter can do.

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

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





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## Section 4: Options & Accessories

### Safety Chain Guards



To avoid serious injury or death:

*Rotary Cutters have the ability to discharge objects at high speeds; therefore, the use of front & rear safety guards is mandatory with this cutter. Double row chain guards should be used when cutting along roadways and in areas where people may be present. Stop blade rotation if bystanders are in or around the area. It is recommended that a safety shield be placed between the operator and cutter on an open air tractor.*

Land Pride offers two types of safety guards to best suit your application: single row chain guards and double row chain guards.

- Single row chain guards are constructed with a single row of hanging chain links. They can withstand harsh applications.
- Double row chain guards are constructed with rows of doubled over hanging chain links. The extra chain provides an additional barrier for stopping thrown objects.

#### Single Chain Guards

331-992A Single Row Chain Guards

#### Double Chain Guards

331-993A Double Row Chain Guards

### Tire & Axle Arrangements

Land Pride offers five different tire options to choose from, with each option available in a 6 or 8 tire configuration.

- **Laminated Tires:** Available sizes are 21" and 26" tires. They are constructed of laminated layers of solid rubber that will never go flat.
- **New Tires:** 25.5", 20 ply tires are available as foam and air-filled. Both are built tough to withstand the rugged use a cutter receives, as well as providing a smoother ride when transporting. Foam-filled tires will not go flat.
- **Used Aircraft Tires:** Available as a 29" pneumatic tire or 24" foam-filled tire. They are built tough to withstand the rugged use a cutter receives and to provide a smoother ride when transporting.
- **4 - Wheel axle arrangement:** Two tires on transport axle and one on each wing axle.
- **6 - Wheel axle arrangement:** Four tires on transport axle and one on each wing axle.
- **8 - Wheel axle arrangement:** Four tires on transport axle and two on each wing axle.

### Hitches

Land Pride offers 5 different hitches to best suit your application. See "**Hitch Types**" on page 14 for complete description of optional hitches.

334-744A	Swivel Clevis Hitch
334-460A	Bar-Tite Hitch
334-462A	Ball Hitch
334-470A	Fixed Pintle Hitch
334-471A	LP Performance Hitch

### Main Drivelines

Land Pride offers two different CAT 6 main drivelines to best suit your application.

- CAT 6 constant velocity drivelines allow the operator to make 80 degree turns. They are heavy duty long lasting drivelines.
- CAT 6 constant velocity drivelines with overrunning clutch have the same features as the CAT 6 Constant velocity driveline plus the overrunning clutch feature. The overrunning clutch protects the tractor's power take-off on tractors that have instant off power take-offs by allowing the cutter to slowly stop the blades without putting strain on your tractor power take-off.

#### CAT 6 Constant Velocity

826-643C	CAT 6 CV driveline 540 rpm
826-644C	Cat 6 CV driveline 1000 rpm

#### CAT 6 Constant Velocity With Overrunning Clutch

826-884C	CAT 6 CV with ORCL driveline 540 rpm
826-793C	CAT 6 CV with ORCL driveline 1000 rpm

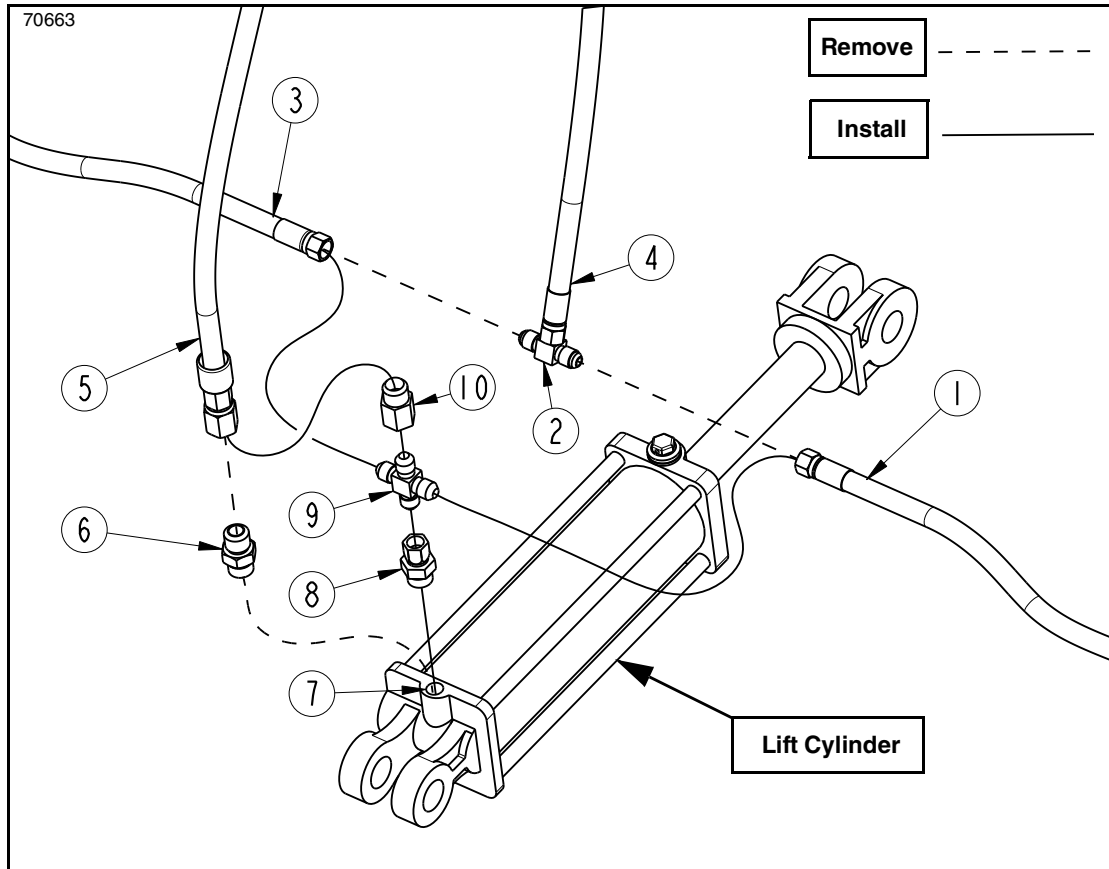
### Wing Fold Options

Land Pride offers four wing folding options to best suit your application. The dual-acting cylinders have a smaller transport width than single-acting cylinders.

- **Single acting:** Simultaneously raise and lower wings with single acting cylinders. Uses 1 hydraulic duplex.
- **Dual acting:** Simultaneously raise and lower wings arrow transport width with dual acting cylinders. Uses 1 hydraulic duplex.
- **Independent single acting:** Independently raise and lower each wing with single acting cylinders. Uses 2 hydraulic duplexes.
- **Independent dual acting:** Independently raise and lower wings from narrow transport width with dual acting cylinders. Uses 2 hydraulic duplexes.

### Deck Ring Option

Land Pride offers a deck ring option for extra protection for the deck sheet and structure. The deck rings are welded to the underside of the center deck and wing decks to protect from bent and deflected blades caused by hitting obstructions.



Single Duplex Hook-Up  
Figure 4-1

### Single Duplex Accessory

Land Pride offers the single duplex accessory so you can change from a 2 duplex cutter to a 1 duplex cutter.

#### Refer to Figure 4-1:

1. Remove hydraulic hose (#1) from hydraulic tee fitting (#2) and set to the side.
2. Remove hydraulic hose (#3) from hydraulic tee fitting (#2) and set to the side.
3. Hydraulic tee fitting (#2) and hydraulic hose (#4) can be put away as they will no longer be needed.
4. Remove hydraulic hose (#5) from hydraulic adapter fitting (#6).
5. Remove hydraulic adapter fitting (#6) from the lift cylinder's port hole (#7) and put away as it is no longer be needed.
6. Install hydraulic adapter fitting (#8) to the lift cylinder's port hole (#7). Tighten fitting.
7. Install hydraulic cross fitting (#9) to hydraulic adapter fitting (#8). Tighten fitting.
8. Install hydraulic adapter fitting (#10) to hydraulic cross fitting (#9). Tighten fitting.

9. Install hydraulic hose (#1) to hydraulic cross fitting (#9) as shown. Tighten hose.
10. Install hydraulic hose (#3) to hydraulic cross fitting (#9) as shown. Tighten hose.
11. Install hydraulic hose (#5) to hydraulic adapter fitting (#10) as shown. Tighten hose.
12. Make sure all hoses and fittings are tightened.

### Single Duplex Fittings Bundle

334-754A Single duplex fittings bundle.



### General Maintenance

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

Check all bolts and pins after using the cutter for several hours and on a regular basis thereafter to ensure they are tight and secured. Tighten all loose hardware as indicated in the “**Torque Values Chart**” on page 60. Replace worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride dealer.

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

#### **DANGER**

*To avoid serious injury or death: Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.*

#### **WARNING**

*To avoid serious injury or death:*

- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.
- Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level.

### Hydraulic System

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

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

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

#### **WARNING**

*To avoid serious injury or death:*

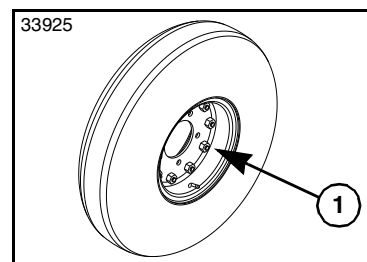
*Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of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

### Tires

#### **WARNING**

*To avoid serious injury or death:*

- Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment. When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- Always release all air pressure in air-filled airplane tires before removing hardware bolting the split rims together. Not doing so can cause the split rims to blow apart instantly and could result in serious injury or death.
- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available. Do not over inflate tires.
- Do not weld on or heat a rim. High heat can weaken and/or warp the rim and damage the tire. Air pressure inside the tire can increase enough to cause an explosion.



**Air Filled Airplane Tires with Split Rims**  
**Figure 5-1**

1. Check tires for low air pressure, missing nuts, missing lug bolts, wear, separated rubber, and bent, broken, or cracked wheel rims.
2. Inflate air filled tires to the proper pressure. Refer to “**Tire Inflation Chart**” on page 60.

#### **Refer to Figure 5-1:**

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

## Section 5: Maintenance & Lubrication

### Chain Guards

Before each use of the cutter, check that all chain guards are present, undamaged and in working order. Replace any damaged or missing chain guard components as needed. Order only genuine Land Pride parts from your local Land Pride dealer.

#### DANGER

*To avoid serious injury or death: Rotary Cutters have the ability to discharge objects at high speeds; therefore, the use of front & rear safety guards is mandatory with this cutter. Double row chain guards should be used when cutting along roadways and in areas where people may be present. Stop blade rotation if bystanders are in or around the area. It is recommended that a safety shield be placed between the operator and cutter on an open air tractor.*

### Skid Shoes

#### WARNING

*To avoid serious injury or death: Excessive wear on skid shoes may cause inadequate operation of cutter and create a safety hazard.*

Two skid shoes are mounted on the center section and one skid shoe mounted on each wing section. Check all skid shoes for wear and replace if necessary. Order only genuine Land Pride parts from your local Land Pride dealer.

### Wing Skid Shoes

Refer to Figure 5-2:

**IMPORTANT:** Excessive wear on skid shoes can weaken cutter side panels and cause damage that will require extensive repairs. Always replace skid shoes at the first sign of wearing thin.

Replace wing skid shoes as follows:

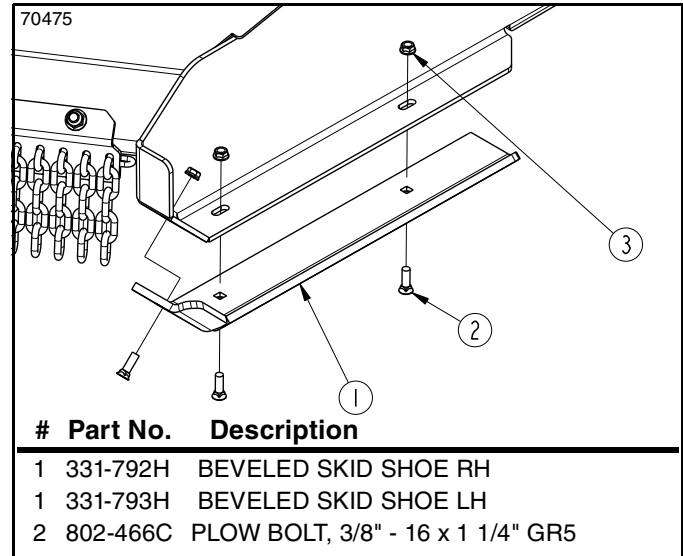
1. Remove 3/8" hex whiz nuts (#3), 3/8" plow bolts (#2), and left-hand skid shoe (#1) as shown.
2. Plow bolts (#2) should be checked for wear and replaced if necessary.
3. Attach new left-hand skid shoe (#1) to cutter with 3/8" plow bolts (#2) and secure with 3/8" hex whiz nuts (#3). Tighten bolts to the correct torque.
4. Repeat for the right-hand wing.

### Center Skid Shoes

Refer to Figure 5-3:

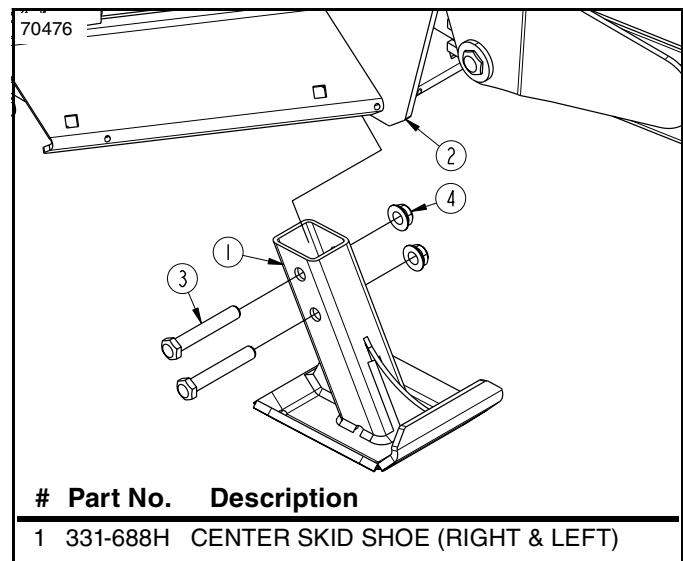
Replace center skid shoes as follows:

1. Remove 5/8"-11 hex flange nuts (#4), 5/8" -11 x 4" GR5 bolts (#3), and right-hand center skid shoe (#1) from the center deck frame (#2) as shown.
2. Attach new skid shoe (#1) to cutter with existing 5/8" bolts (#3), and secure with existing 5/8" hex flange nuts (#4). Tighten bolts to the correct torque.
3. Repeat steps 1 & 2 for left-hand center skid shoe.



Wing Skid Shoes

Figure 5-2



Center Skid Shoes

Figure 5-3

### Gearbox Driveline Shielding

Check that the wing gearbox driveline shielding and center gearbox driveline shielding is undamaged and in working order. Replace any damaged components as needed. Order only genuine Land Pride parts from your local Land Pride dealer

#### DANGER

*To avoid serious injury or death:*

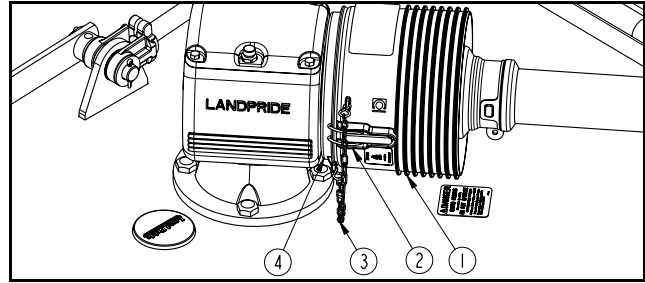
*Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.*



### Wing Gearbox Driveline Shield Access

Refer to Figure 5-5:

1. To remove shaft guard (#1) at the spindle gearbox, use a flat head screw driver to unsnap latches (#2) on both sides of guard (#1) and slide shaft guard over driveline to expose driveline yoke. Do not unhook safety chain (#3).
2. When servicing of driveline yoke is completed, return shaft guard to its original position and secure with latches (#2).
3. Check safety chain (#3). Make sure it is latched to shaft guard mounting plate (#4) and shaft guard (#1).

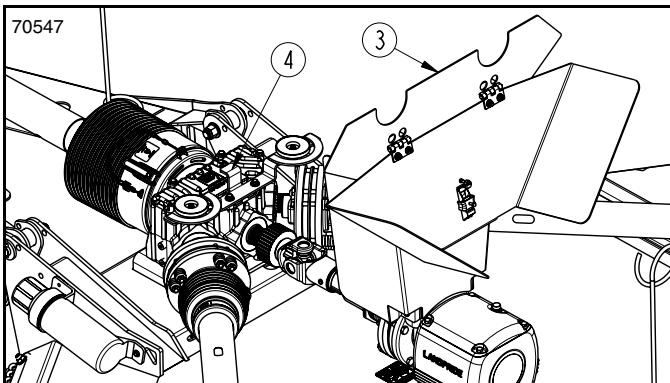
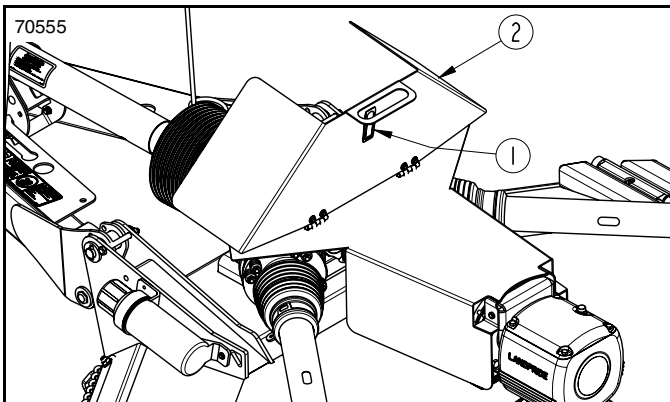


Wing Gearbox Driveline Shield Access  
Figure 5-5

### Center Gearbox Driveline Shield Access

Refer to Figure 5-4:

1. To access the center driveline, push the latch release button to open latch (#1).
2. Pull up on the splitter box shield (#2) and let it rest on the center driveline shield (#3).
3. Pull up on the center driveline shield (#3) until it rests in vertical position.
4. When servicing of driveline is completed, return shielding to its original position.
5. Press down on the latch lever to engage latch (#1). Latch should clamp shield tightly to the shield bracket (#4). If not, adjust the length of the bolt on the latch to change the clamping pressure and secure the bolt position with the jam nut.



Center Gearbox Driveline Shield Access  
Figure 5-4

### Drivelines

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



### DANGER

To avoid serious injury or death:

Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.



### WARNING

To avoid serious injury or death:

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

### Drivelines With Slip Clutches



### WARNING

To avoid serious injury or death:

- Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.
- A slip clutch that has been in use or has slipped for as little as only two or three seconds during run-in may be too hot to touch. Allow a hot clutch to cool before working on it.

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

Friction clutches must be capable of slippage during operation to protect gearboxes, drivelines, and other drive train parts. Friction clutches should be "run-in" prior to initial operation and after periods of inactivity to remove any oxidation from the friction surfaces. Repeat "run-in" at the beginning of each season and when moisture seizes the inner friction plates.

### Clutch Run-In

**Refer to Figure 5-6:**

1. Using a pencil or other marker, scribe a line across the exposed edges of the clutch plates and friction disks.
2. Carefully loosen each of the 8 spring retainer nuts by exactly 2 revolutions. It will be necessary to hold hex end of retainer bolt in order to **count the exact number of revolutions**.
3. Make sure the area is clear of all bystanders and machine is safe to operate.
4. Start tractor and engage power take-off drive for 2-3 seconds to permit slippage of the clutch surfaces. Disengage power take-off, then re-engage a second time for 2-3 seconds. Disengage power take-off, shut off tractor, and remove key. Wait for all components to stop before dismounting from tractor.
5. 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 disk and plate are still aligned. A clutch that has not slipped must be disassembled to separate the friction disk plates. See “Clutch Disassembly, Inspection & Assembly” below.
6. Tighten each of the 8 spring retainer nuts on the clutch housing exactly 2 revolutions to restore clutch to original setting pressure.
7. Allow clutch to cool to ambient temperature before operating again. Clutch is now ready for use.
8. 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 5-7 on page 45 to adjust spring length.

### Clutch Disassembly, Inspection & Assembly

**Refer to Figure 5-8:**

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

### Disassembly

**IMPORTANT:** Not all clutches are assembled the same with the same number of components. Be sure to keep track of order and orientation of your clutch components during disassembly.

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

### Inspection

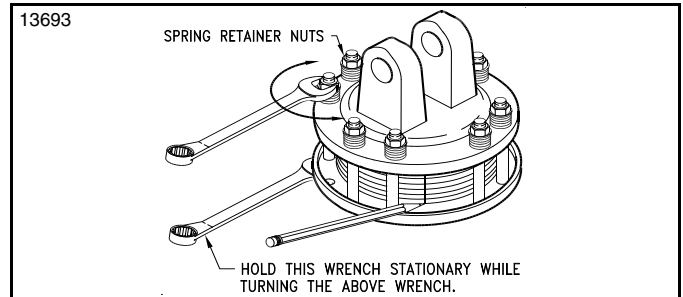
Inspect all parts for excessive wear and condition. Clean all parts that do not require replacement. The original friction disk thickness is 1/8" (3.2mm) and should be replaced if thickness falls below 3/64" (1.1mm). If clutches have been slipped to the point of “smoking,” the friction disks may be damaged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

### Assembly

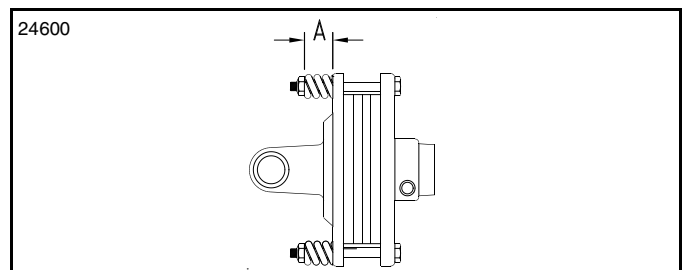
Reassemble each friction disk (#4) next to the metal plate it was separated from. Install bolts (#3) through end plates and intermediate plates as shown. Place springs (#2) over the bolts and secure with nuts (#1).

**Refer to Figure 5-7:**

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

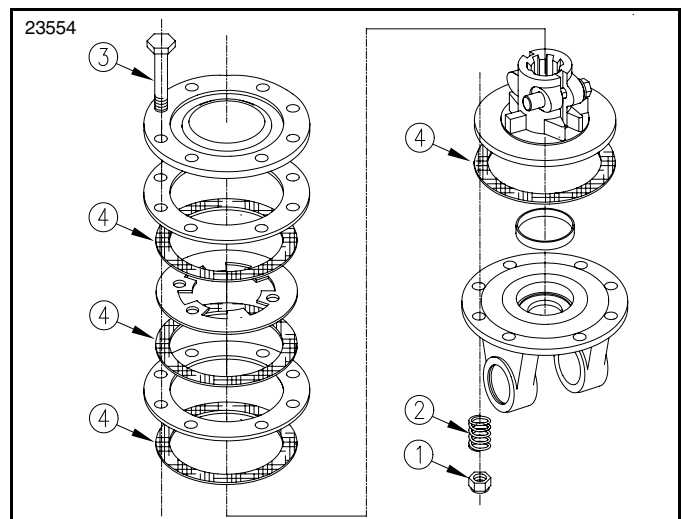


**Clutch Run-In**  
**Figure 5-6**



Driveline No.	Driveline Location	PTO Speed	Cat No.	A (inches) Spring Height
826-818C	Center	540/1000	4	1.32"
826-811C	Wing	540/1000	4	1.32"
826-812C	Wing	540/1000	5	1.32"

**Clutch Spring Adjustment**  
**Figure 5-7**



**Clutch Assembly**  
**Figure 5-8**



### Cutter Blades

#### DANGER

To avoid serious injury or death:

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

#### WARNING

To avoid serious injury or death:

- Do not operate cutter with blades that are out-of-balance, bent, excessively worn, excessively nicked, or with blade bolts that are excessively worn. Such blades can break loose at high speeds.
- Do not attempt to straighten a bent blade or weld on a blade. Do not attempt to modify a blade such as hard surfacing, heat treating, cold treating, or by any other method. Always replace blades with genuine OEM blades to assure safety.
- Wait for blades to come to a complete stop before accessing blade bolts through blade bolt access hole.
- Wear eye protection and gloves while inspecting, removing, sharpening, and replacing a blade.

**IMPORTANT:** Cutting blades must be replaced in mating pairs. Not replacing both blades will result in an out-of-balance condition that will contribute to premature bearing breakdown on the spindle hub and create structural cracks in the cutter housing.

Always inspect cutting blades before each use. Make certain they are properly installed and in good working condition. Replace any blade that is damaged, worn, bent, or excessively nicked. Never try to straighten a bent blade! Small nicks can be ground out when sharpening. Refer to Figure 5-10 on page 47 when ordering Land Pride replacement blade components.

Remove cutting blades and sharpen or replace as follows:

1. Secure cutter deck in the up position with solid supports before servicing underside of cutter.
2. Shut tractor down properly before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.
3. Disconnect main driveline from the tractor.

**Refer to Figure 5-10:**

4. Remove rubber plug (#5). Rotate blade carrier (#4) until blade bolt (#1) aligns with access hole (A).
5. Unscrew locknut (#3) to remove cutter blade (#6). Blade bolt (#1) is keyed and will not turn freely.

6. Both blades should be sharpened at the same angle as the original cutting edge and must be replaced or re-ground at the same time to maintain proper balance in the cutting unit. The following precautions should be taken when sharpening blades:
  - a. Do not remove more material than necessary.
  - b. Do not heat and pound out a cutting edge.
  - c. Do not grind blades to a razor edge. Leave a blunt cutting edge approximately 1/16" 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.

**Refer to Figure 5-9:**

7. Carefully check cutting edges of blades in relation to blade carrier rotation to ensure correct blade placement. Cutter blades must be installed with cutting edge leading in rotation.

**Refer to Figure 5-10:**

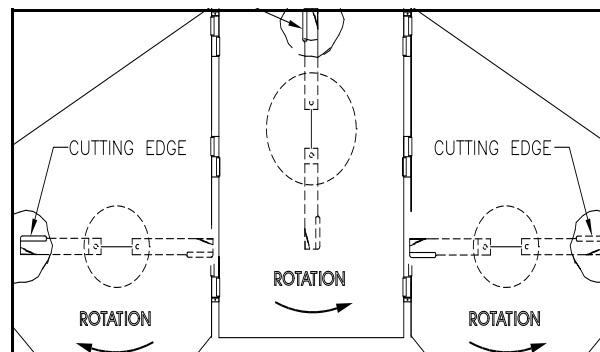
#### WARNING

To avoid serious injury or death:

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

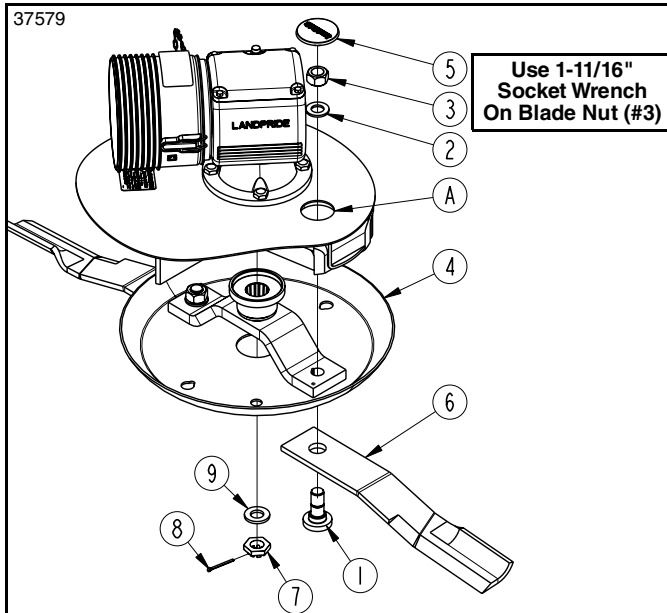
**IMPORTANT:** Examine blade bolts and their flat washers for excessive wear and replace if worn.

8. Insert blade bolt (#1) through blade (#6), dishpan (#4), and flat washer (#2). Secure blade with a **new locknut (#3)** and torque to 450 ft-lbs.
9. If replacing dishpan (#4), 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.
10. Replace rubber plug (#5).
11. Reconnect main driveline to tractor power take-off.



**Direction of Blade Rotation**

**Figure 5-9**



### Land Pride Cutter Blade Parts

#### # Part No. Part Description

318-586A	BLADE BOLT KIT (Includes 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
4 312-820H	DISH PAN WELDMENT, 15" CTR (COMER)
5 840-273C	PLUG LP 3" ID RUBBER
6 820-112C	CUTTER BLADE 1/2x4x25 CW LH WING
6 820-137C	CUTTER BLADE 1/2x4x25 CCW RH WING
6 820-138C	CUTTER BLADE 1/2x4x31 CCW CTR DECK

**Cutter Blade Assembly**  
**Figure 5-10**

## Hitch Wear Points

Before each use, check the wear points for the specific hitch on your cutter. Replace worn hitch components as needed. Order only genuine Land Pride parts from your local Land Pride dealer

### Swivel Clevis Hitch Wear Point

**Refer to Figure 5-11:**

On the Swivel Clevis Hitch, check plate (#1) for excessive wear. If the thickness of plate (#1) is worn down to 9/16" or less at the hitch pin hole, the component must be replaced.

### Land Pride Performance Hitch Wear Points

**Refer to Figure 5-12:**

For the Land Pride Performance Hitch, check plate (#1) for excessive wear. If the thickness of plate (#1) is worn down to 1/2" or less at the hitch pin hole, the component must be replaced.

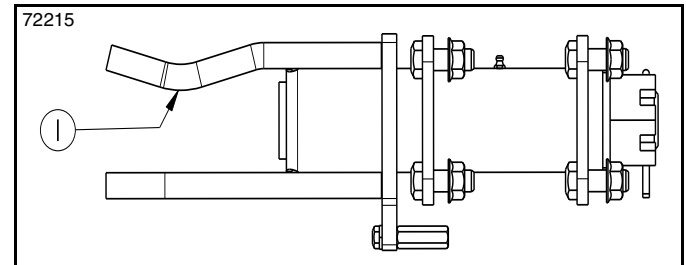
Check for excessive wear on flat washer (#2). Replace as needed.

## Bar-Tite Hitch Wear Points

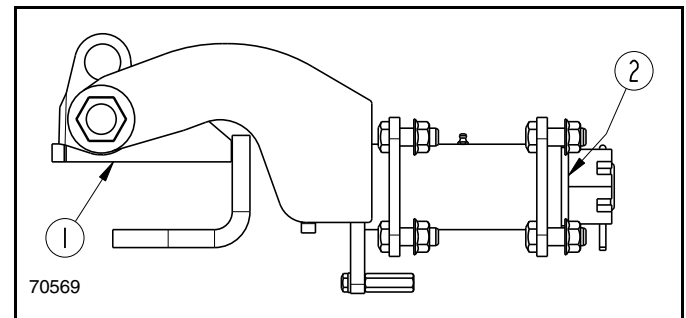
**Refer to Figure 5-13:**

For the Bar-Tite Hitch, check plates (#1 & 2) for excessive wear. If the thickness of the plates are worn down to 3/8" or less at the bolt hole, the component must be replaced.

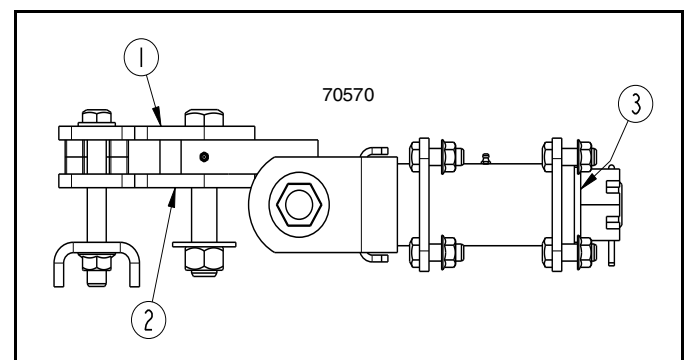
Check for excessive wear on flat washer (#3). Replace as needed.



**Swivel Clevis Hitch Wear Point**  
**Figure 5-11**



**Land Pride Performance Hitch Wear Points**  
**Figure 5-12**



**Bar-Tite Hitch Wear Points**  
**Figure 5-13**





### Long-Term Storage

Clean, inspect, service, and make necessary repairs to the cutter when storing it for long periods and when storing 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**

To avoid serious injury or death:

- Always disconnect driveline from the tractor before servicing the drivetrain and components powered by the drivetrain. A person can become entangled in the drivetrain if the tractor is started and the power take-off is engaged.
  - Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.
1. Clean off any dirt and grease that may have accumulated on the cutter and moving parts. Scrape off compacted dirt from the bottom of deck and then wash surface thoroughly with a garden hose. A coating of oil or touch up paint may also be applied to the lower deck area to minimize oxidation.
  2. Check blades and blade bolts for wear and replace if necessary. See “**Cutter Blades**” on page 46.
  3. Inspect for loose, damaged, or worn parts and adjust or replace as needed.
  4. Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for aerosol touch-up paint. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

Land Pride Aerosol Touch-up Paint	
Part No.	Part Description
821-011C	PAINT LP BEIGE SPRAY CAN
821-070C	PAINT LP BLACK SPRAY CAN
821-054C	PAINT MEDIUM RED SPRAY CAN
821-058C	PAINT GREEN SPRAY CAN
821-066C	PAINT ORANGE SPRAY CAN
821-080C	PAINT GALVANIZED SPRAY CAN

5. Replace all damaged or missing guarding & decals.
6. Lubricate as noted in “**Lubrication Points**” starting on page 49.
7. Store cutter on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer cutter life.
8. Follow “**Unhook Rotary Cutter**” instructions on page 27 when disconnecting tractor from cutter.

### Ordering Replacement Parts

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

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

<b>81 . . . . . Green</b>	<b>85 . . . . . Black</b>
<b>82 . . . . . Orange</b>	<b>86 . . . . . Yellow</b>
<b>83 . . . . . Red</b>	

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





### Lubrication Points

Lubrication  
Legend



Multi-purpose  
spray lube



Multi-purpose  
grease lube

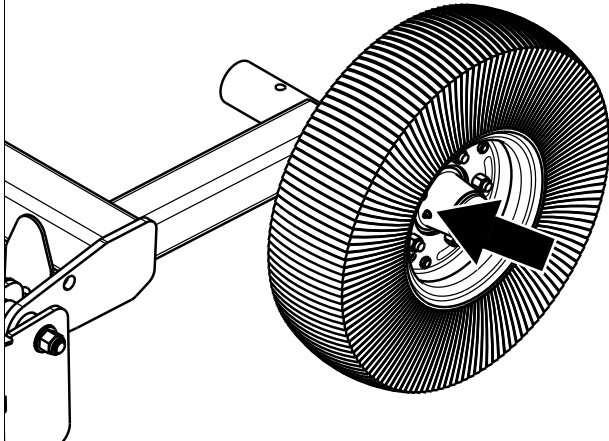


Multi-purpose  
oil lube



Intervals in hours at which  
lubrication is required

70515



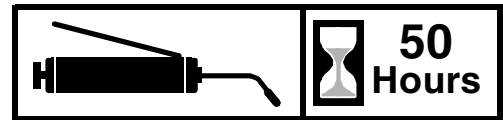
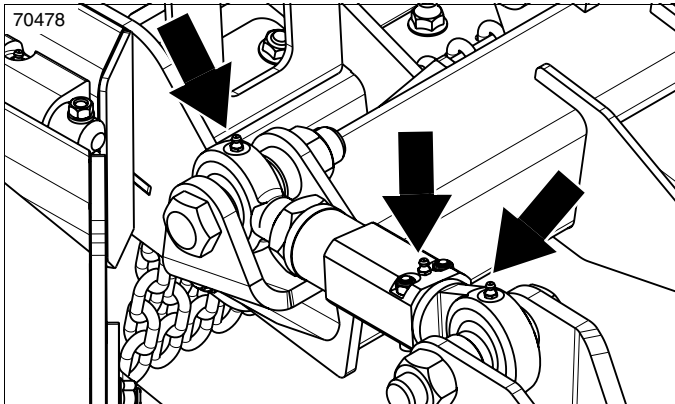
#### Axle Hub Bearing

Type of Lubrication: Multi-Purpose Grease

Grease wheel bearings every 150 hours.  
1-zerk per wheel (zerk can be on either side)  
Quantity = 2 pumps

Repack wheel bearings annually

70478



#### Adjustable Turnbuckle

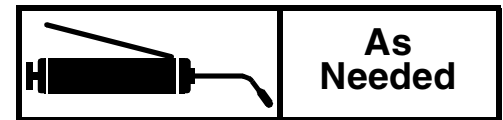
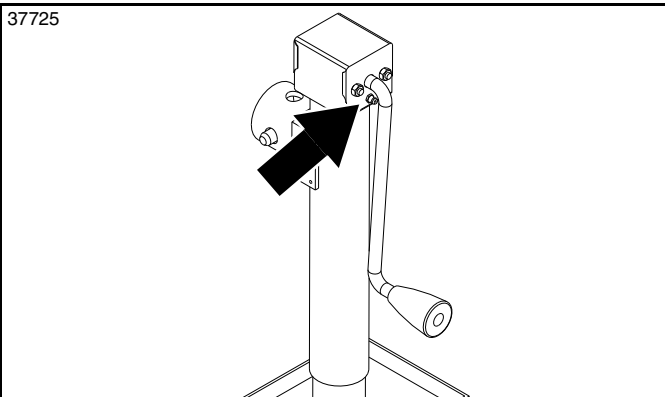
Type of Lubrication: Multi-Purpose Grease

Grease both left & right hand side turnbuckles

Quantity = As required

Grease with wings folded up to remove pressure on turnbuckle and allow grease to reach more areas.

37725



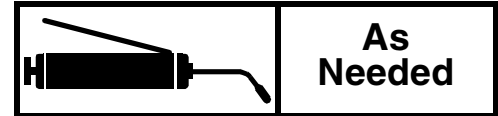
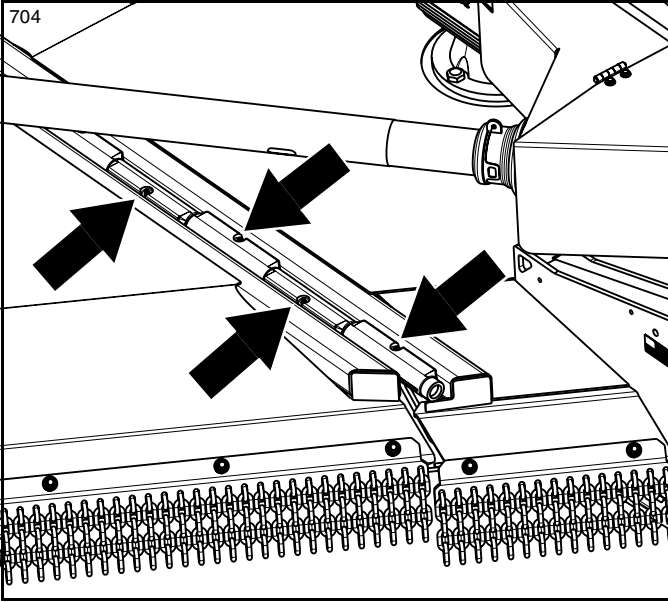
#### Park Jack

1 - zerk

Type of Lubrication: Multi-purpose Grease

Quantity = As required

Frequency = As needed and when unhooking for longterm storage.



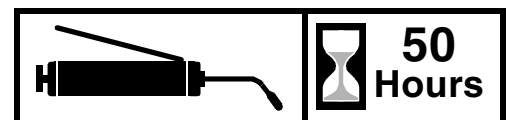
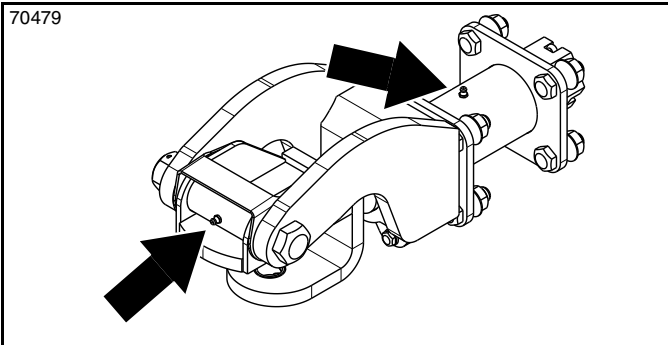
### Deck Hinges

18- zerks

Type of Lubrication: Multi-purpose Grease

Quantity = As required

Frequency = As needed and when unhooking for longterm storage.

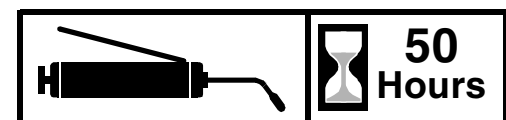
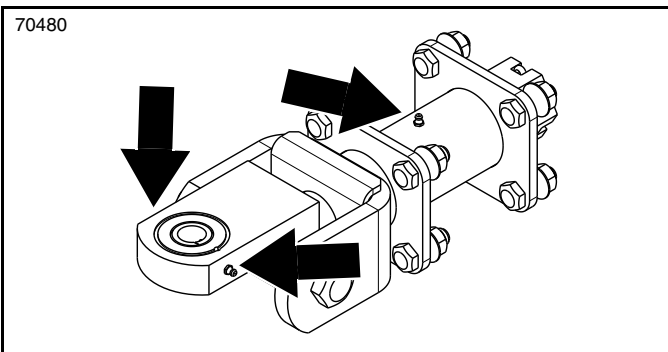


### LP Performance Hitch (Optional)

2 - zerks

Type of Lubrication: Multi-purpose Grease

Quantity = As required

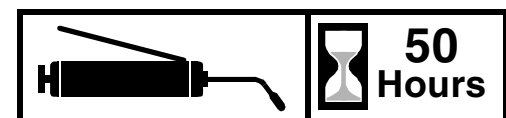
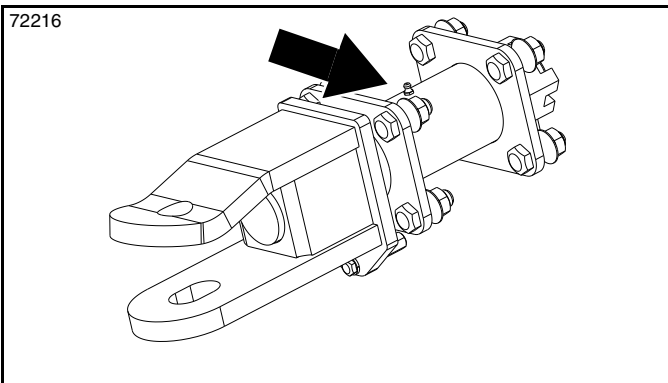


### Bar-Tite Hitch (Optional)

3 - zerks

Type of Lubrication: Multi-purpose Grease

Quantity = As required

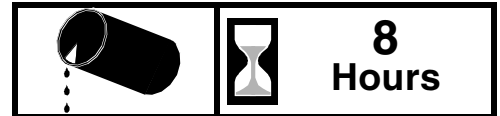
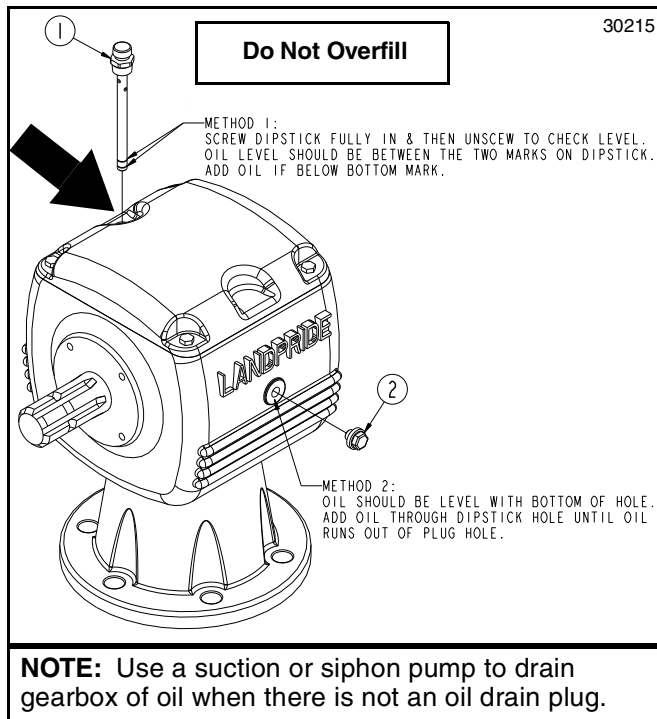


### Swivel Clevis Hitch (Optional)

1 - zerk

Type of Lubrication: Multi-purpose Grease

Quantity = As required



### Gearbox

Change oil after first 50 hours, then change it yearly or every 600 hours.

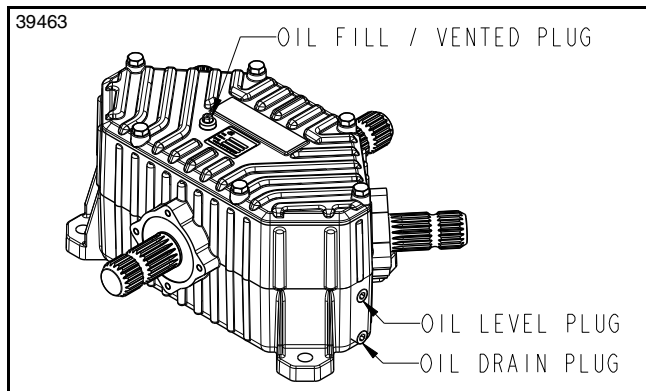
**IMPORTANT:** Do not overfill gearbox with oil. Oil will expand when hot. Make sure implement is level and oil is cool before checking oil level.

**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.



### Divider Box

Change oil after first 50 hours, then change it yearly or every 600 hours.

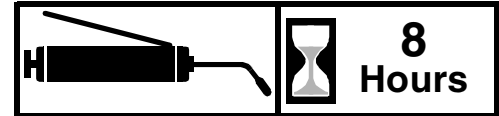
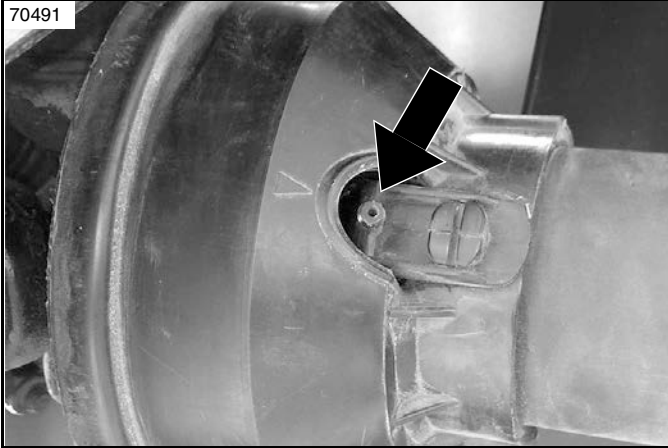
**IMPORTANT:** Do not overfill gearbox with oil. Oil will expand when hot. Make sure implement is level and oil is cool before checking oil level.

If oil has been removed from the gearbox, refill gearbox to plug level or full mark on the dipstick. Allow time for air to bleed up from the lower cavity, and then recheck.

**Instructions:** Remove oil level plug. If oil is below bottom of plug hole, add recommended gear lube through oil fill/vent plug hole until oil flows out of oil level plug hole. Reinstall and tighten oil level plug and oil fill/vent plug.

Type of Lubrication: 80-90W EP

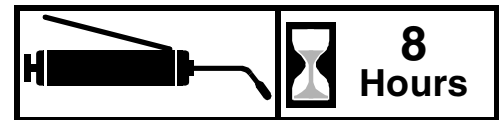
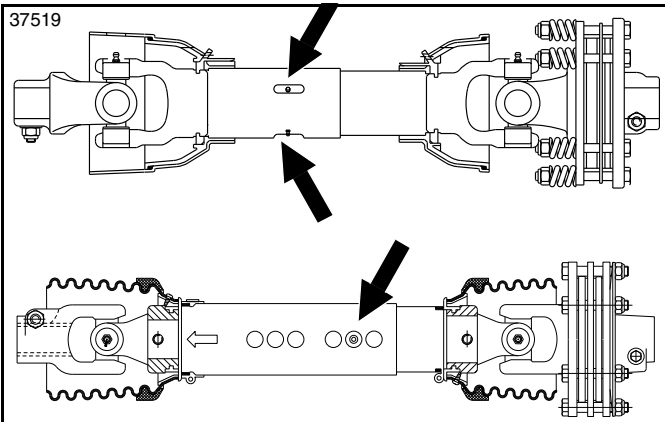
Quantity = Fill until oil begins to flow out oil level plug hole in gearbox.



### Wing Driveline Shield Grease Point

Type of Lubrication: Multi-purpose Grease

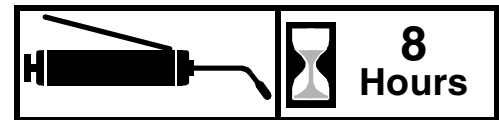
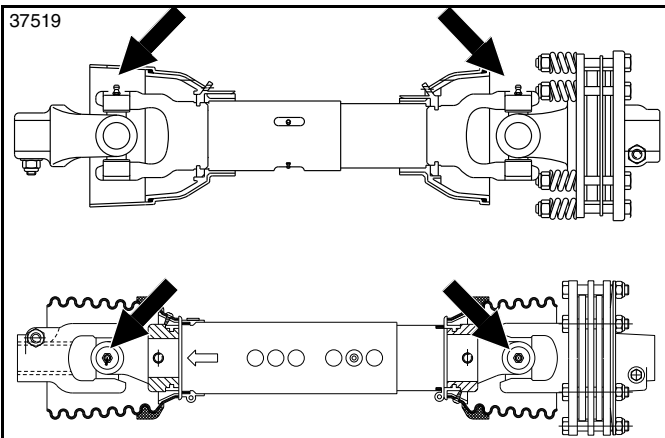
Quantity = 2-3 Pumps



### Wing Driveline Profile Tubes

Type of Lubrication: Multi-purpose Grease

Quantity = Coat Generously

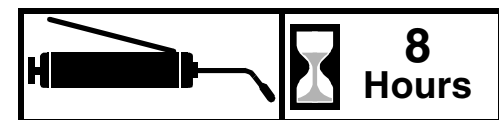
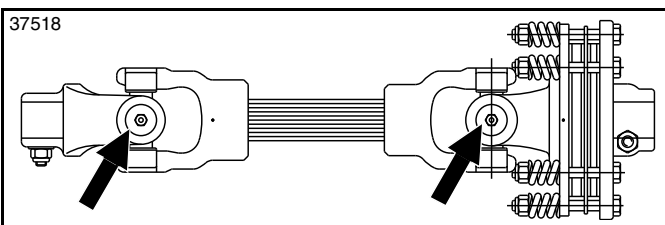


### Wing Driveline Joints

Type of Lubrication: Multi-purpose Grease

Quantity= 2-3 Pumps

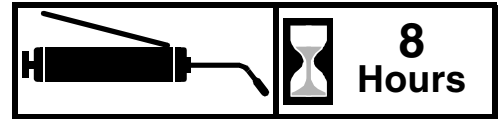
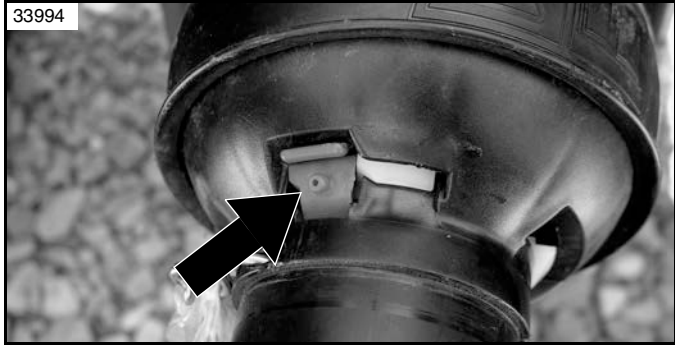
Drivelines with external profile tube grease point



### Intermediate Driveline Joints

Type of Lubrication: Multi-purpose Grease

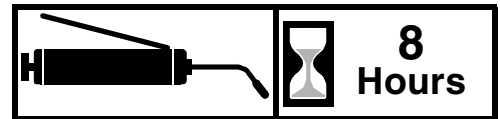
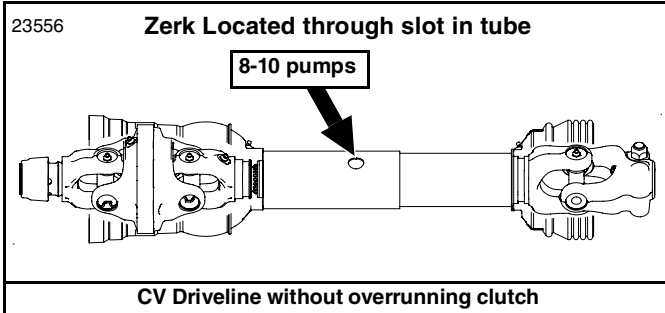
Quantity= 2-3 Pumps



### CV Main Driveline Shield Grease Point

Type of Lubrication: Multi-purpose Grease

Quantity = 2-3 Pumps



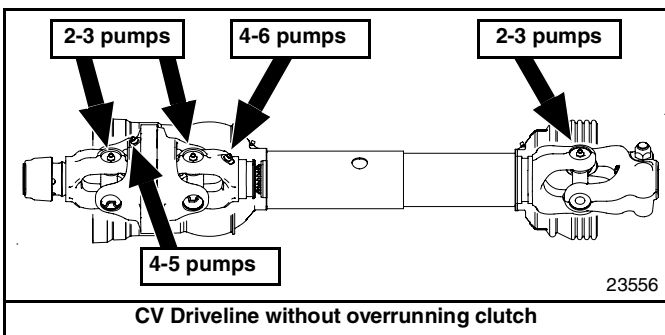
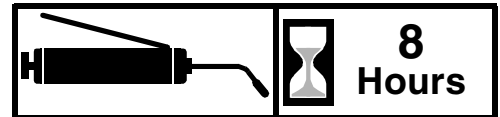
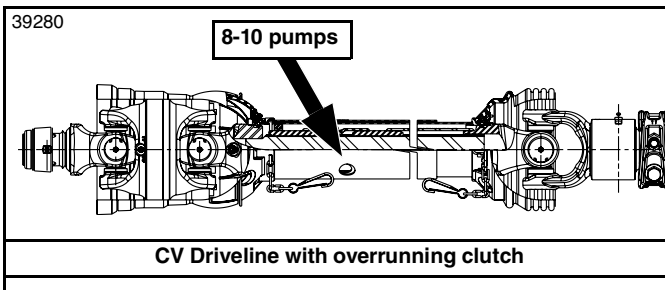
### CV Main Driveline Profile Tubes

#### With External Grease Point

CV = Constant Velocity

Type of Lubrication: Multi-purpose Grease

Quantity = 8-10 pumps

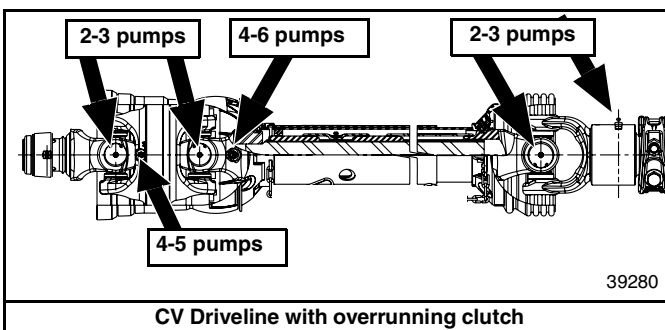


**IMPORTANT:** To extend the life of the constant velocity joint, extensive lubrication must be performed every 8 hours of operation.

### CV Main Driveline Joints

Type of Lubrication: Multi-purpose Grease

For instructions on how to access grease zerks shown in **Figure 5-14:** See “Accessing CV Driveline Joints” on page 54.



- The constant velocity joint should be greased in a straight position forcing grease through the passages and into the cavity. After lubrication, grease should be visible around the ball joints.
- Grease fittings located on the u-joints, driveline shields and overrunning clutch should be lubricated every 8 Hrs of operation.

Figure 5-14



### Accessing CV Driveline Joints

**Refer to Figure 5-14 on page 53:**

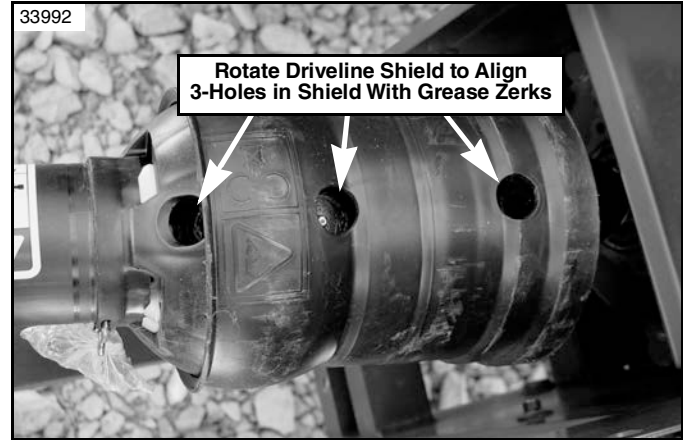
There are two ways the constant velocity driveline joints shown in Figure 5-14 can be accessed for lubrication. One is through holes in the driveline shield and the other is to slide the shields back to expose the grease zerks.

#### Lubrication Through Access Holes

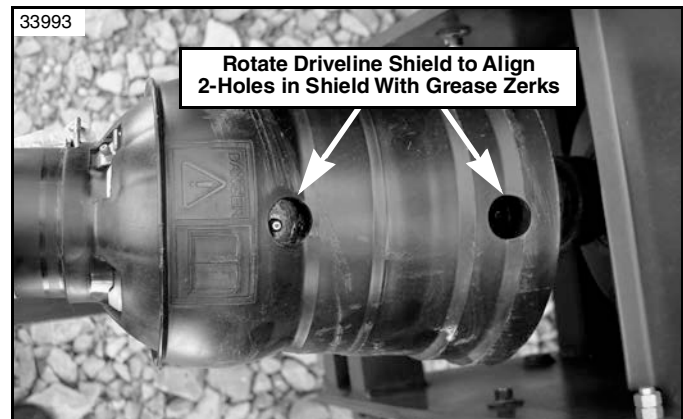
1. **Refer to Figure 5-15:** Rotate driveline shield until holes in shield align with grease zerks in CV joint.
2. Apply proper amount and type of lubrication. Refer to “**CV Main Driveline Joints**” on page 53 for quantities and type of lubrication.
3. **Refer to Figure 5-16:** Rotate driveline shield 180° until holes on opposite side of shield aligns with remaining grease zerks in CV joint.
4. Repeat step 2 above on any grease zerks that were not greased in step 2.
5. Steps 1-2 can be repeated to lubricate universal joint on opposite end of driveline. (Opposite end of driveline has only one grease zerk.)

#### Lubrication By Sliding Driveline Shields Back

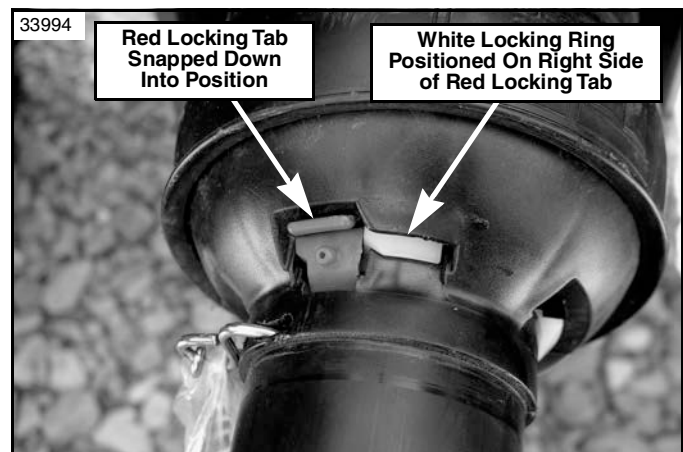
1. **Refer to Figure 5-17:** With a flat bladed screwdriver or similar tool, pry top of red locking tab up.
2. **Refer to Figure 5-18:** Rotate white locking ring fully counterclockwise to the position shown.
3. **Refer to Figure 5-19:** Pull back on driveline shielding until CV joint is exposed.
4. Apply proper amount and type of lubrication. Refer to “**CV Main Driveline Joints**” on page 53 for quantities and type of lubrication.
5. Slide driveline shield back to its operating position.
6. **Refer to Figure 5-17:** Rotate white locking ring clockwise and press locking tab down until it snaps in place as shown.
7. Steps 1-6 can be repeated to lubricate universal joint on opposite end of driveline.



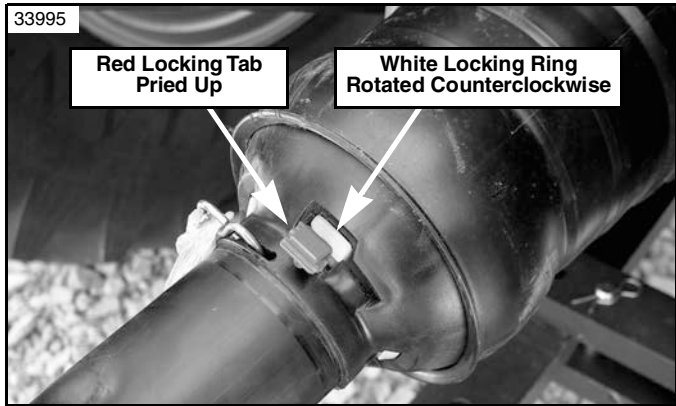
**Lubrication Through Three Holes In Driveline Shield**  
Figure 5-15



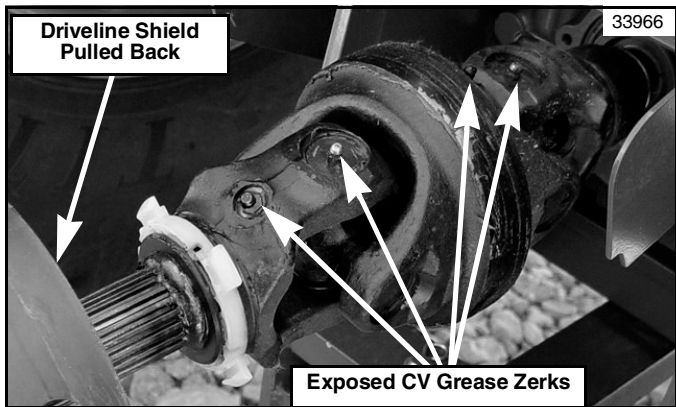
**Lubrication Through Two Holes In Driveline Shield**  
Figure 5-16



**Locked Driveline Shield**  
Figure 5-17



**Unlocked Driveline Shield**  
**Figure 5-18**

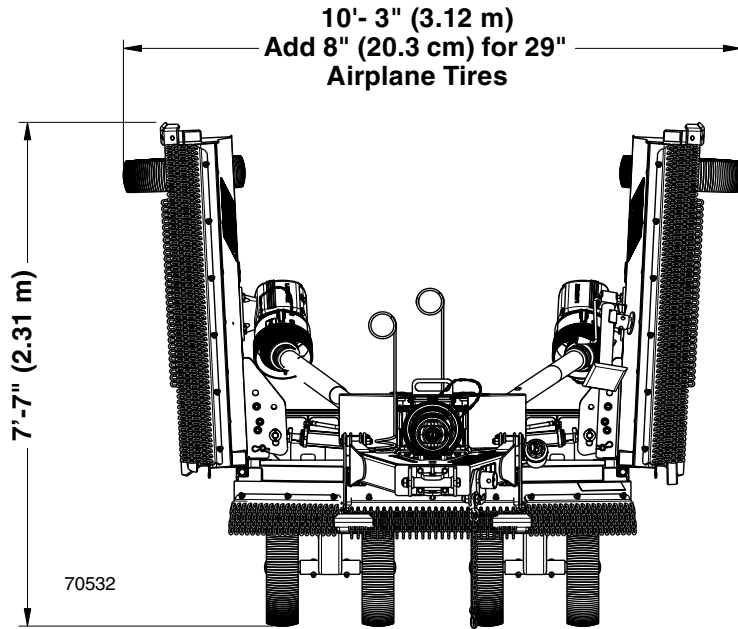


**Slide Driveline Shield Back To Expose Grease Zerks**  
**Figure 5-19**

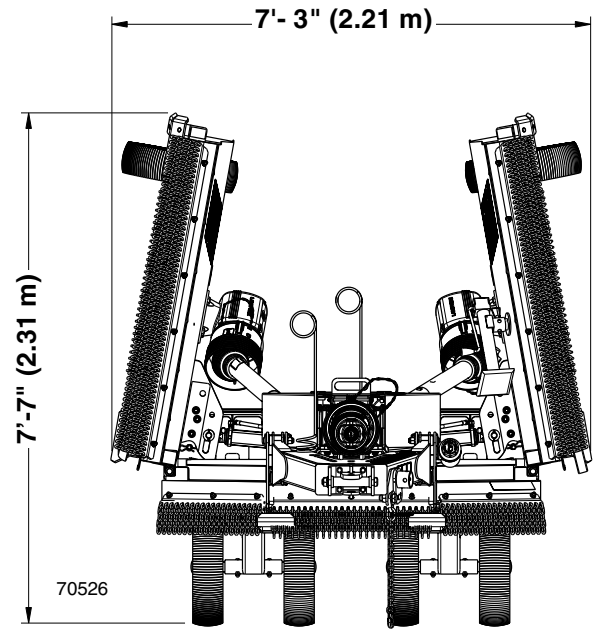


### RC(M)3715 & RCG(M)3715 Models

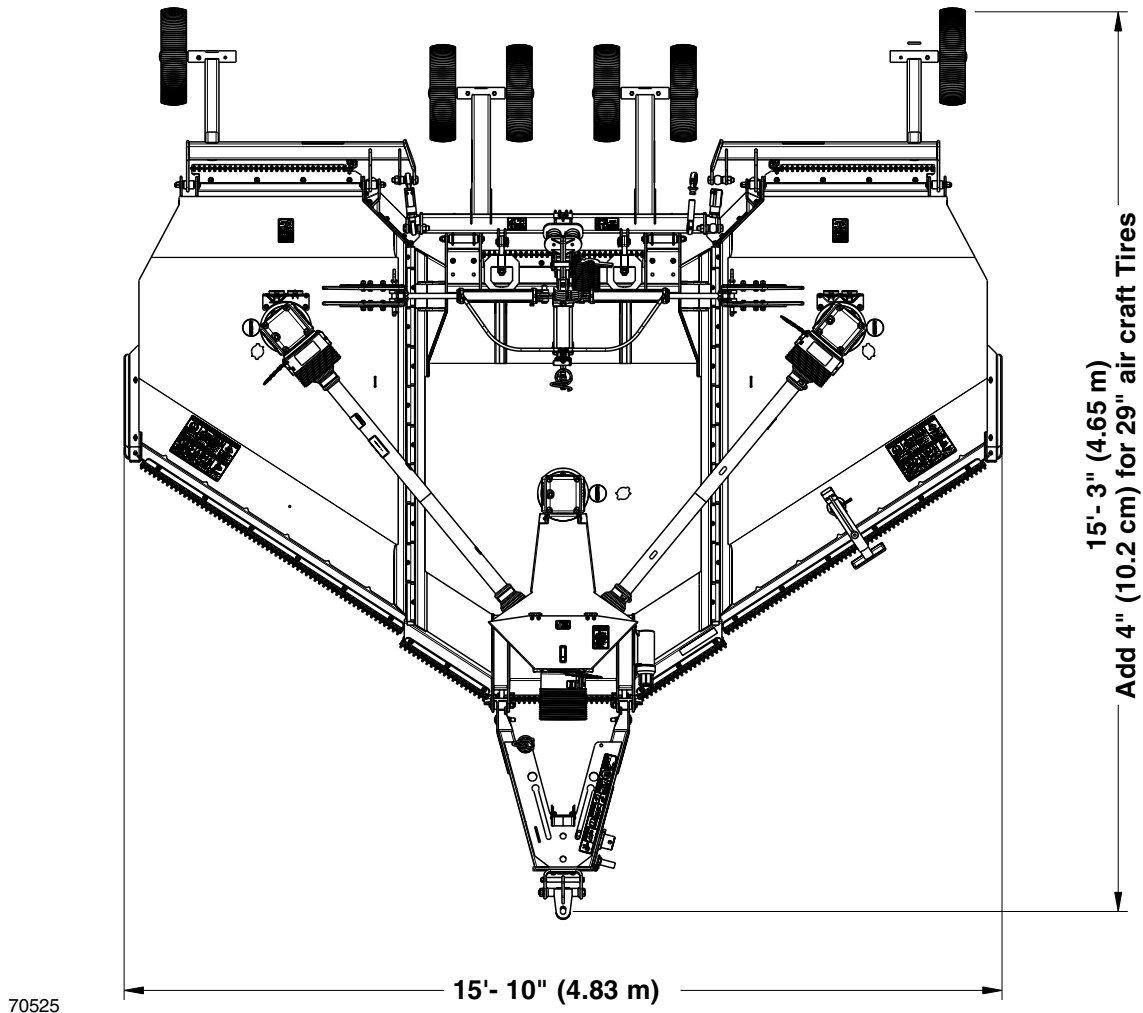
Specifications & Capacities	
<b>Horsepower range</b>	50 - 160 hp (37.3 - 119.3 kw)
<b>Gearbox horsepower</b>	540 rpm or 1000 rpm 160 hp (119.3 kw) Divider and 130 hp (96.9 kw) Center & Wings
<b>Gearbox lubrication</b>	Gear Lube 80-90W EP
<b>Gearbox oil capacity</b>	Splitter: 3.5 pints (1.66 L); Center deck & Wings: 6 pints (2.84 L)
<b>Cutting capacity</b>	3" (7.6 cm)
<b>Machine weight</b> <b>Total weight</b> <b>Tongue weight</b>	4,380 lbs (1986.7 kg) 1,594 lbs (723.0 kg)
<b>Blade tip speed</b> <b>At 540 rpm</b> <b>At 1000 rpm</b>	Center Blades = 15,268 FPM (77.6 mps) & Wing Blades = 15,000 FPM (76.2 mps) Center Blades = 15,578 FPM (79.1 mps) & Wing Blades = 14,620 FPM (74.3 mps)
<b>Hitch types</b>	Swivel Clevis Hitch, LP Performance Hitch, Bar-Tite Hitch, Ball Hitch, or Pintle Hitch
<b>Hitch jack</b>	Standard (7,000 lbs) (3175.1 kg)
<b>Signal lights</b> <b>7 Pin connector</b>	LED SAE J560 pin configuration
<b>Cutting width</b> <b>Overall width</b> <b>Transport width with 21" tires</b>	15'-0" (4.57 m) 15'-10" (4.83 m) 10'-3" (3.12 m) (Single acting fold option) 7'-3" (2.21 m) (Dual acting fold option)
<b>Overall length</b>	16'-3" (4.95 m) (With center deck raised fully up)
<b>Deck height</b>	12" (30.5 cm)
<b>Cutting height</b>	1-1/2" - 16" (3.8 cm - 40.6 cm) (Varies by tire option)
<b>Lift hydraulics</b>	3" x 8" hydraulic cylinder, hoses, fittings & stroke control spacers
<b>Wing hydraulics</b>	2 1/2" x 12" hydraulic cylinders, hoses & fittings
<b>Wing transport protection</b>	Wing Transport Lock Pins
<b>Deck material thickness</b>	10 Gauge (3.4 mm)
<b>Side skirt thickness</b>	1/4" (6 mm) Steel
<b>Skid shoes</b>	Wing Deck: 1 Replaceable skid shoe per wing Center Deck: 2 Replaceable skid shoes
<b>Blades - 6 (2 per carrier)</b>	1/2" x 4" (1.3 cm x 10.2 cm) Heat-treated, free-swinging alloy steel with uplift
<b>Blade overlap</b>	6" (15.2 cm)
<b>Blade bolt</b>	Keyed with hardened flat washer & locknut
<b>Stump jumper / blade holder</b>	3/16" (5 mm) Thick round dish shaped pan, reinforced with 1" x 4" (2.5 x 10.2 cm) blade bar
<b>Front &amp; rear guards</b>	Optional single row chain or dual row chain
<b>Input driveline 540 &amp; 1000 rpm</b>	Cat. 6 with constant velocity u-joint with or without overrunning clutch
<b>Intermediate driveline</b>	Standard - Category 4 with slip-clutch
<b>Wing drivelines</b>	Standard - Category 4 with slip-clutch or Category 5 with slip-clutch
<b>Wheel options</b>	21" or 26" Laminated tires 25.5" New foam filled tires 25.5" New 20-ply pneumatic tires 29" Used aircraft tires
<b>Number of wheels</b>	4 - Wheels: Two on transport axle and one on each wing axle 6 - Wheel option: Four on transport axle and one on each wing axle 8 - Wheel option: Four on transport axle and two on each wing axle
<b>Transport axle</b>	Spring-cushioned on center transport axle
<b>Hubs</b>	Cast iron five-bolt hubs with tapered roller bearings and 1 3/4" (4.4 cm) shafts
<b>LP Performance hitch &amp; Bar tite hitch pivot shaft diameter</b>	2 1/4" (5.7 cm)
<b>A-frame tongue</b>	5" x 3" (12.7 cm x 7.6 cm) rectangular tubing



**Transport Width  
Without Special Adjustments**



**Narrow Transport**





### RC(M)3715 & RCG(M)3715 Models

Features	Benefits
Surpassed rugged industry standards	All Land Pride Rotary Cutters have been designed and tested and meet rigorous voluntary testing procedures according to ISO 4254-13.
Factory assembled	Arrives for quick and easy set-up. Minimal time wasted setting or prepping the unit.
5 Year gearbox warranty	Shows confidence in gearbox integrity.
Rugged heavy built gearboxes	Capable of handling heavy cutting applications.
Gearbox seal protection	Gearbox bottom seal protection for longer bearing life.
2 Piece driveline shields	Driveline grease zerks are easier to access.
Low hitch weight on tractor tongue	Ideal for smaller hp tractors by reducing the amount of weight on the drawbar.
Narrow A-frame hitch	Allows for a tighter turning radius.
Adjustable park jack angle	Park jack can be adjusted to be perpendicular to the ground.
Adjustable driveline hanger	Serves as support rest for the driveline when the cutter is unhooked from the tractor. Assist operator when attaching driveline to tractor power take-off shaft.
Input driveline: Cat. 6 CV	Driveline is matched just right for capacity of tractor. Constant velocity (CV) U-joint allows for 80 degree turns without doing damage to the driveline.
Drivelines with slip-clutches: Cat. 4 intermediate Cat. 4 or Cat. 5 wings	Driveline is sized right for the intended cutting capacity. Slip-clutches will slip under load to minimize twist damage to driveline profiles.
Grease zerks on end caps of driveline	Intermediate and wing driveline cross journals are easier to grease.
High blade tip speed	Allows clean cutting of material.
6" Blade overlap	Eliminates skipping during turns.
3/16" Round stump jumper	Standard thick stump jumper material keeps damage to a minimum.
Smooth top design	Reduces accumulation of debris and is easier and faster to clean.
Tops of decks are 100% welded	Makes center decks and wing decks stronger.
1/4" Sidewall thickness	Increased thickness reduces damage from objects being thrown into deck sidewalls.
Beveled skid shoes on wings	Reduces gouging the ground when turning.
LED signal lights	LED lights are bright, long lasting, and resist vibration, unlike incandescent lights.
Hinged wing sections	Allows cutter to follow terrain. Ideal for rough ground where hillsides, ditches, and hollows can cause uneven cutting.
1" Solid hinge rods	Larger diameter hinge rod provides greater strength in the hinge area.
Wing transport lock pins	Transport lock pins will hold wings in folded position in the event of hydraulic loss.
Enclosed dual 1" leveling rods	Cutter pulls equally on the rear axle while traveling over rough terrain.
5-Bolt hubs	5-Bolt hubs makes the wheel assembly more durable and longer lasting.
Drain holes in wheel rims	Allows water to drain from wheels mounted on folded-up wings. Helps prevent paint deterioration and rusting to the wheel rims.
Spring cushioned center-axle	Protects unit from bumps and ground shock.
Replaceable individual wheel spindles	Spindles can be replaced when damaged without replacing entire axle assembly.
Wheel options	<b>Laminated tires:</b> Eliminates flats. <b>Air-filled tires:</b> Give better cushion while transporting. <b>Foam-filled tires:</b> Give better cushion while transporting and can't go flat.
LP Performance hitch option	Great for uneven terrain, reduces drawbar wear. Hitch pivots freely up and down and pivots about the tractor drawbar.
Bar-tite hitch option	Ideal for extreme conditions. Clamps tight to drawbar eliminating drawbar wear.
Maintenance free tongue & axle pivots	Self lubricating journal bearings make for less maintenance.
Color coded hydraulic hose handles	Easy hose identification & sturdy handle to easily connect & disconnect from tractor.
4 lip purgeable metal backed wheel hub seal	Seals make it harder for water & debris to enter the hub and grease to leave the hub. Metal backing prevents sticks and twine from destroying the seal lips.
Greasable cast steel continuous hinge	Cast steel hinges make a strong connection & are easy to lubricate.
Galvanized decks on RCG models	Durable rust protection for harsh conditions.











### Troubleshooting Chart

Problem	Cause	Solution
<b>Oil seal leaking</b>	Gearbox overfilled	Drain oil level with fill hole or to full mark on dipstick.
	Seals damaged	Replace seals.
	Grass or wire wrapped on shaft in seal area	Clean off wrapped material and check seal areas daily.
<b>Driveline yoke or cross failing</b>	Clutch is froze	Slip clutches per instructions under "Lubrication Points" on page 49.
	Shock load	Avoid hitting solid objects.
	Needs lubrication	Lubricate every 8 hours.
<b>Slip Clutches slip even with a light load</b>	Scalping the ground	Raise cutting height.
	Clutch is not properly adjusted	Adjust clutch per instructions under "Lubrication Points" on page 49.
	Clutch plates are worn out	Replace clutch plates.
	Foreign object caught between clutch plates	Remove foreign object.
<b>Bent driveline shaft (Note: Shaft should be repaired or replaced if bent)</b>	Contacting frame	Reduce lift height in transport position.
	Contacting drawbar	Reposition drawbar.
	Bottoming out	Shorten driveline shaft.
	Binding up	Not lubricating enough.
<b>Driveline shaft telescoping tube failing</b>	Shock load	Avoid hitting solid objects.
<b>Driveline shaft telescoping tube wearing</b>	Needs lubrication	Lubricate every 8 hours of operation.
<b>Blades lock-up</b>	Blades locked together (overlapped) when wings were raised to transport position	Use pry bar or other tool to separate cutting blades before lowering wings.
	Tractor has instant on power take-off	Engage power take-off at low RPMs and then slowly increase engine speed to full power take-off speed. See "Engage Blades" on page 37.
	Tractor has Instant off power take-off	Disengage blades at low RPMs or change to a driveline with overrunning clutch.
<b>Blades wearing excessively</b>	Cutting on sandy ground	Raise cutting height.
	Contacting ground frequently	Raise cutting height.
<b>Blades coming loose</b>	Blades not tightened properly	Tighten blade hardware, refer to "Cutter Blades" on page 46.
	Over speeding power take-off	Operate cutter at proper power take-off speed.
<b>Blades breaking</b>	Hitting solid objects	Avoid hitting solid objects.
<b>Loose blade carrier</b>	Blade carrier hardware not tight	Tighten shaft nut to specified torque.
	Running loose in the past	Replace gearbox bearings and / or shaft.
<b>Blade carrier bent</b>	Hitting solid objects	Avoid hitting solid objects.
<b>Excessive side skid wear</b>	Soil abrasive	Adjust cutter height.
	Cutting too low	Raise cutting height.
<b>Excessive vibration</b>	Hitting solid objects	Inspect area before cutting. Do not hit solid objects.
	Driveline bent	Replace driveline or distribution shaft.
	Blade carrier bent	Replace blade carrier.
	Blade broken	Replace blade.
	Blade will not swing	Inspect and unlock blades.
	High torque start-up or hitting solid objects.	Disassemble and inspect driveline for incorrectly located needles or damaged bearing cap.
	Blades have unequal weight	Replace each pair of blades on affected carrier.
<b>Wing cylinder movement too slow</b>	Orifice is plugged	Remove elbow fitting and unplug orifice.



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 <sup>1</sup>	N · m <sup>2</sup>	ft-lb <sup>3</sup>	N · m	ft-lb	N · m	ft-lb	mm x pitch <sup>4</sup>	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	<div><sup>1</sup> in-tpi = nominal thread diameter in inches-threads per inch</div> <div><sup>2</sup> N · m = newton-meters</div> <div><sup>3</sup> ft-lb= foot pounds</div> <div><sup>4</sup> mm x pitch = nominal thread diameter in millimeters x thread pitch</div>						
1-3/8" - 6	890	655	1990	1470	3230	2380							
1-3/8" - 12	1010	745	2270	1670	3680	2710							
1-1/2" - 6	1180	870	2640	1950	4290	3160							
1-1/2" - 12	1330	980	2970	2190	4820	3560							
Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.													
Additional Torque Values													
Blade Bolt Locknut						450 ft-lbs							
Blade Carrier Hub Nut						450 ft-lbs							
Wheel Lug Nuts						85 ft-lbs							
Wheel Hub Spindle Nut						80 ft-lbs, back off & re-tighten to 50 ft-lbs, back off to insert cotter pin							

Tire Inflation Chart	
Tire Size	Inflation PSI
25.5" and 29" tire	40

## Warranty

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

**Overall Unit and Drivelines:** One year Parts and Labor

**Gearbox:** Five years Parts and Labor.

**Hydraulic Cylinder:** One year Parts and Labor

Hoses and seals considered wear items

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

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

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

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

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

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

This Warranty is not valid unless registered with Land Pride within 30 days from the date of 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** \_\_\_\_\_



Corporate Office: P.O. Box 5060  
Salina, Kansas 67402-5060 USA

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