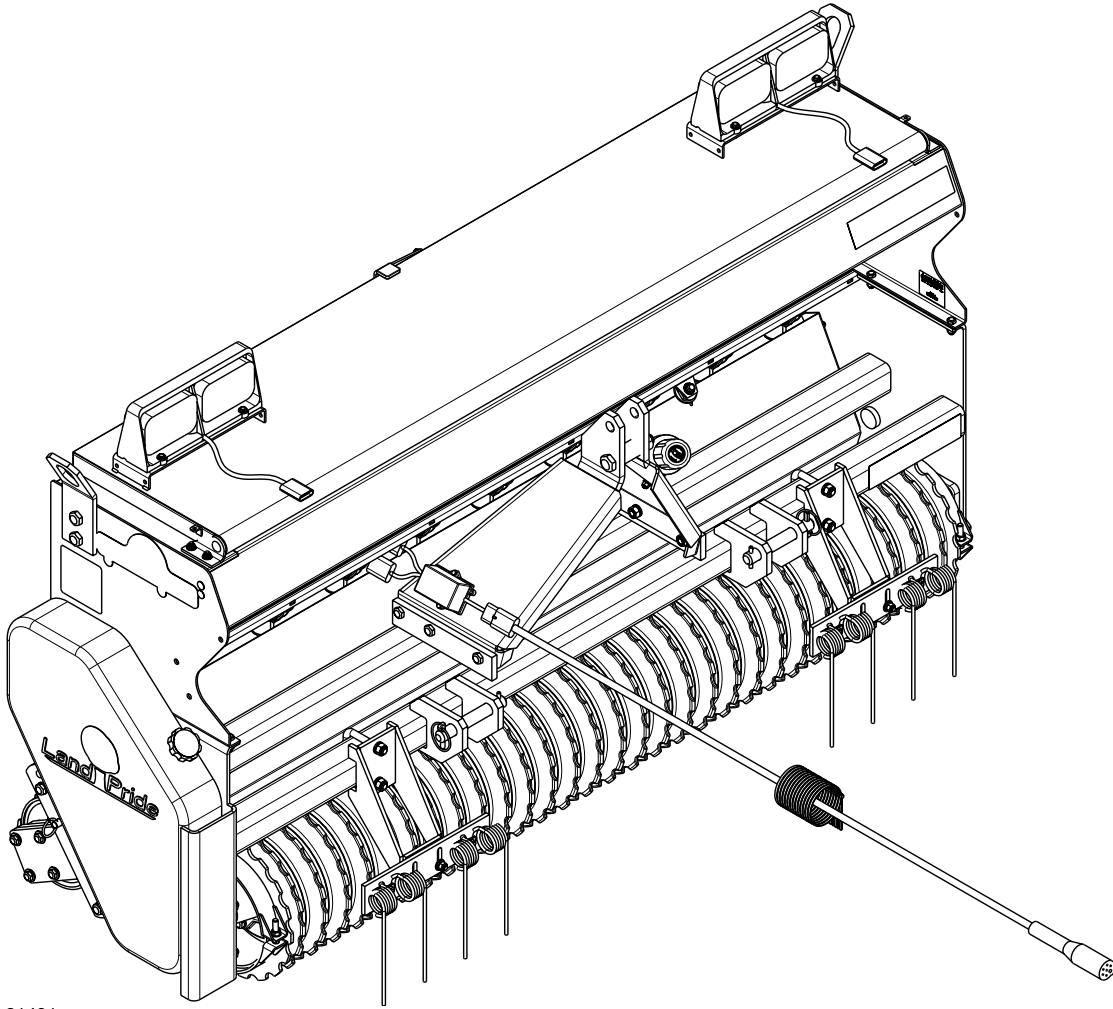


Primary Seeder

PS1572



21491

313-164M Operator's Manual



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

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

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





Machine Identification

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

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

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

Dealer Contact Information

Name: _____

Street: _____

City/State: _____

Telephone: _____

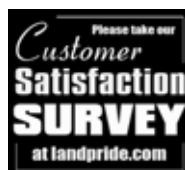
Email: _____



California Proposition 65

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

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Printed in the United States of America.



See previous page for Table of Contents.



Parts Manual QR Locator

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



Dealer QR Locator

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

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

Safety at All Times

Careful operation is your best assurance against an accident.

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

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



Look for the Safety Alert Symbol

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

Be Aware of Signal Words

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

- ▲ **DANGER:** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- ▲ **WARNING:** Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
- ▲ **CAUTION:** Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

Be Aware of Special Notices

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

- IMPORTANT:** Indicates that equipment or property damage could result if instructions are not followed.
- NOTE:** Indicates supplementary explanations that will be helpful when using the equipment.

Safety Precautions for Children

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

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

Tractor Shutdown & Storage

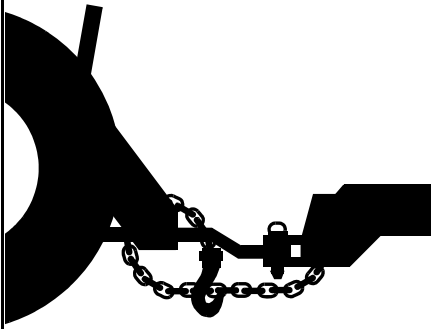
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic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



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

Use A Safety Chain

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



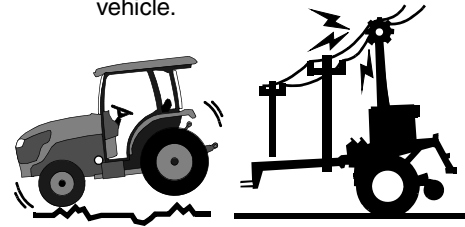
Towing Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with chocks, tie downs, and chains.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.
- ▲ Sudden braking can cause a towed trailer to swerve unexpectedly. Reduce speed if trailer is not equipped with brakes.



Transport Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Avoid contact with any overhead utility lines or electrically charged conductors.
- ▲ Engage park brake when stopped on an incline.
- ▲ Maximum transport speed for an implement is 20 mph (32 km/h). **DO NOT EXCEED.**
- ▲ Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.
- ▲ Do not tow an implement that, when fully loaded, weighs more than 1.5 times the weight of towing vehicle.



Tire Safety

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



Practice Safe Maintenance

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

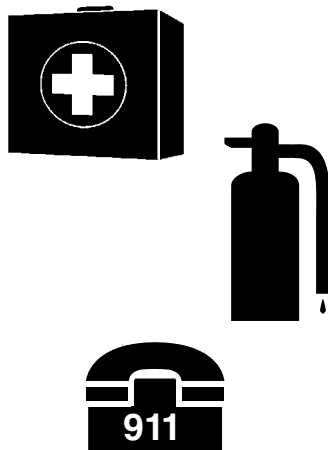
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement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



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

Prepare for Emergencies

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



Wear Personal Protective Equipment (PPE)

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



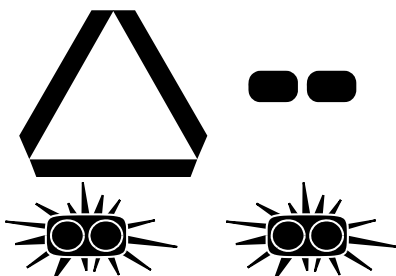
Avoid High Pressure Fluids

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



Use Safety Lights and Devices

- ▲ A slow moving power machine can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.
- ▲ For tractors and other agriculture equipment, a Slow Moving Vehicle (SMV) sign is required when traveling on public roads.



Use Seat Belt and ROPS

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



Keep Riders Off Machinery

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



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

Avoid Crystalline Silica (Quartz) Dust

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

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



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

Handle Chemicals Properly

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



Dig Safe - Avoid Underground Utilities

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





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Important Safety Information

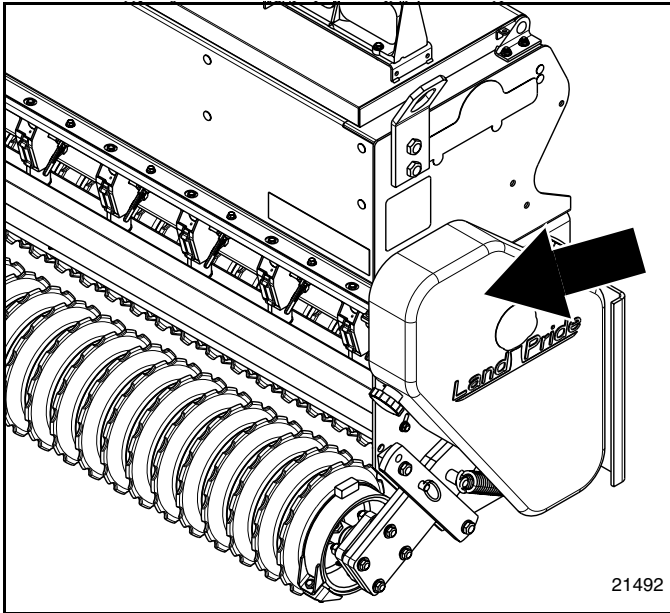
Safety Labels

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

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

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

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



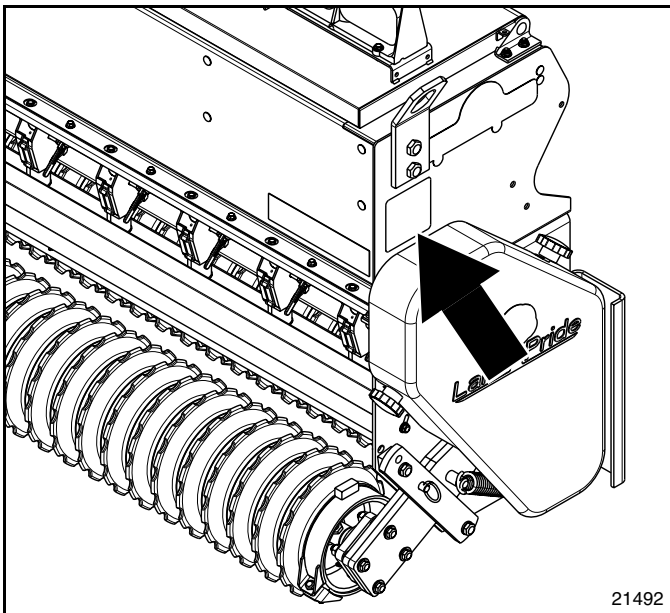
21492



7035E

818-543C

Danger: Guard Missing Hazard - Do not Operate
1 Place: Beneath Guard



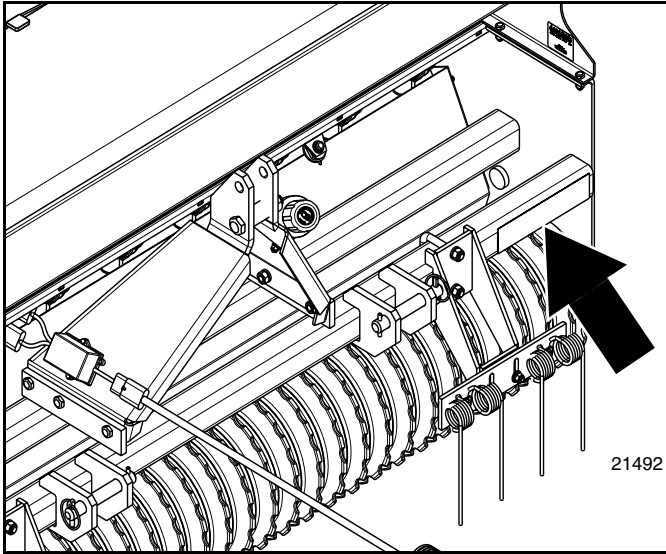
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70576

838-111C

Danger: Keep Away - Moving Parts Hazard
1 Place

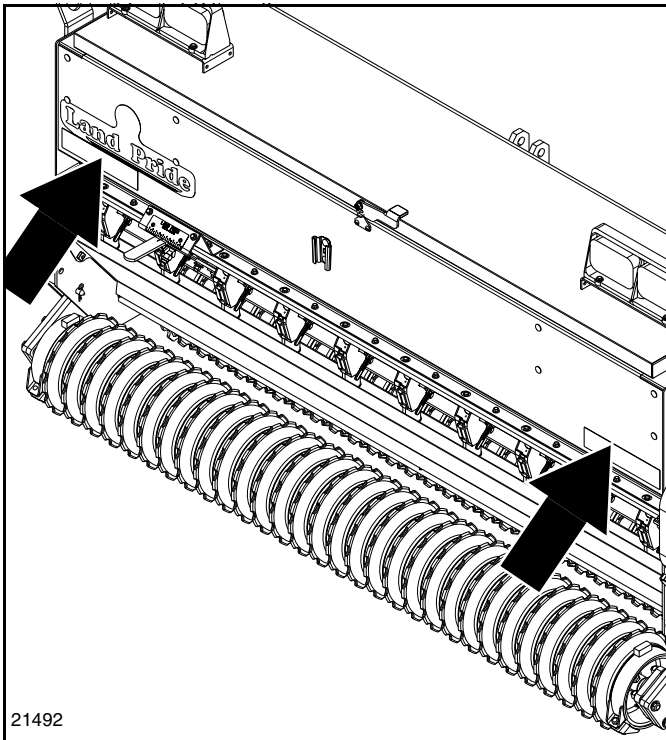


73138

838-615C

Amber Reflector: 2" x 9"

1 Place



838-614C

Red Reflector: 2" x 9"

2 Places

Introduction

Land Pride welcomes you to the growing family of new product owners. This Primary Seeder has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this machine.

Application

The PS1548 and PS1572 Primary Seeders are excellent planting tools for professional contract landscapers, professional turf managers, and municipal grounds keepers. Their narrower widths make them very effective in seeding applications on urban lots, grassy medians, grassy parkings or right-of-ways adjacent to sidewalks, community parks, sporting facilities, and golf courses. Unlike wider models of seeders these units will do a more effective job of planting in areas where undulations, moguls, and depressions are prevalent. The main seed box is equipped with our standard fluted seed cups and an agitator enabling highly accurate and uniform delivery of most turf grass seeds as well as a wide variety of other seeds ranging from alfalfa to peas.

See “**Specifications & Capacities**” on page 27 and “**Features & Benefits**” on page 28 for additional information.

Using This Manual

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

Terminology

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

Owner Assistance

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

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

Serial Number

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

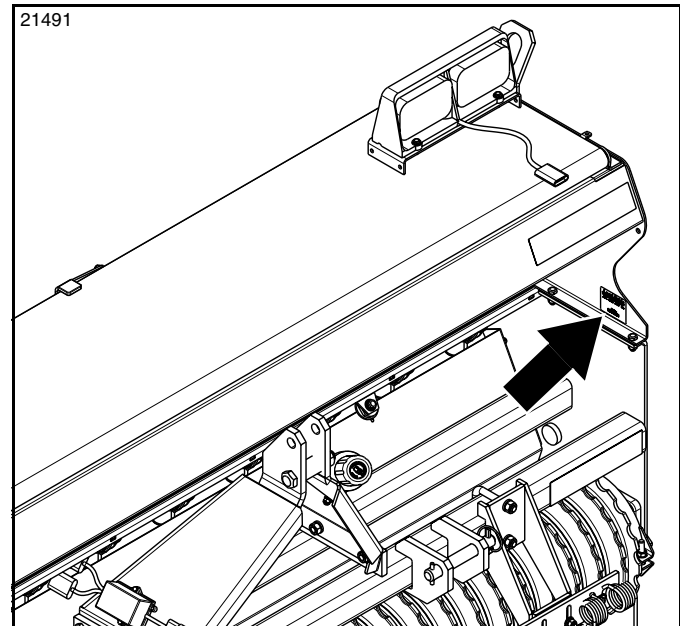


Figure 1

Further Assistance

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

1. Discuss any problems you have with your implement with your dealership service personnel so they can address the problem.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the question/problem, and request assistance.
3. For further assistance write to:

Product Support

Land Pride, Service Department

1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060

E-mail address

lp servicedept@landpride.com

Section 1: Assembly & Set-up

Tractor Requirements

Tractor horsepower should be within the range noted below. Tractors outside the horsepower range must not be used. The lower 3-point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose. Make certain that the tractor's 3-point lifting capacity and weight is capable of lifting and controlling the seeder under all operating conditions. Refer to **"Specifications & Capacities"** on page 27 for seeder weight and Warning below.

Hitch Type 3 - Point Cat. 1 or Cat. 1 Quick Hitch

WARNING

To avoid serious injury or death:

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

Assembly Checklist

The information in the Assembly Checklist is general in nature and was written to aid in preparing of the tractor and Primary Seeder for use, and to provide general operating procedures. Having all parts and equipment readily at hand will speed your assembly task and make the job as safe as possible. Please review the **"Pre-Assembly Checklist"** below.

Pre-Assembly Checklist

?	Check	Ref.
<input type="checkbox"/>	All major frame components.	Operator's Manual
<input type="checkbox"/>	Location of fasteners and pins. NOTE: All hardware from the factory has been installed in the location where it will be used. If a part is temporarily removed for assembly reasons, remember where it goes. Keep parts separated.	Operator's Manual
<input type="checkbox"/>	Be sure the part gets used in the correct location. Use parts manual to identify location of parts that have been removed and are unsure where to replace them. By double checking while you assemble, you will lessen the chance of using a bolt incorrectly that may be needed later.	Parts Manual 313-164P
<input type="checkbox"/>	All working parts are moving freely, bolts are tight and cotter pins are spread.	Operator's Manual
<input type="checkbox"/>	All grease fittings are in place and lubricated.	Section 5 Page 22
<input type="checkbox"/>	Proper tension and alignment on all drive chains.	Section 4 Page 16
<input type="checkbox"/>	Safety decals are correctly located and legible. Replace if damaged.	Page 7

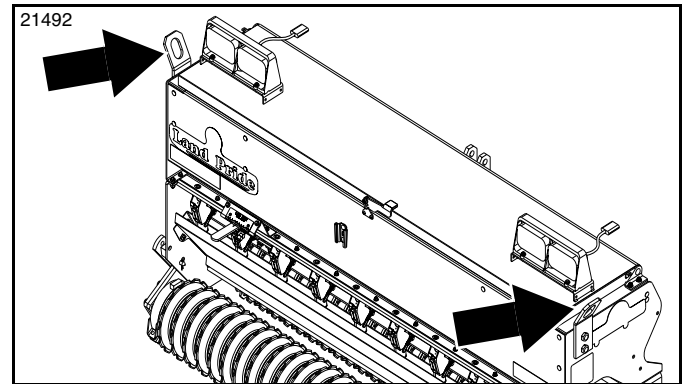
Torque Requirements

Refer to **"Torque Values Chart"** on page 30 to determine correct torque values when tightening hardware.

Sling Bracket

Refer to Figure 1-1:

The sling brackets allow points at each end of the seeder to hook a chain for lifting of the unit. When hooking a chain to the sling brackets, be certain to use a spreader bar on the chain or a long chain to prevent bending the sling brackets.



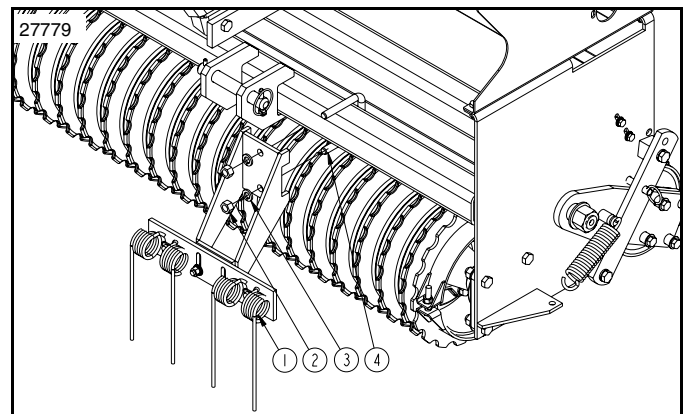
Sling Brackets
Figure 1-1

Tire Track Remover Assembly

Refer to Figure 1-2:

The Tire Track Removers are assembled 180 degrees from their operating position for shipping purposes.

1. Remove Track Remover (#1). Keep hardware for reuse.
2. Flip Track Remover over 180 degrees and reassemble as shown with 1/2" u-bolt (#4), lock washers (#3) and hex nuts (#2). Tighten nuts to the correct torque.
3. Repeat steps 1 & 2 for the other side.



Tire Track Remover
Figure 1-2



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 Primary Seeder. Therefore, it is absolutely essential that no one operates the seeder unless they have read, fully understood, and are totally familiar with the Operator's Manual.

Perform the following inspections before using your seeder.

Operating Checklist

✓	Check	Ref.
	Read and follow all safety rules carefully. Refer to "Important Safety Information".	1
	Make sure all guards and shields are in place. See "Important Safety Information".	1
	Read and follow assembly & set-up. Refer to "Section 1: Assembly & Set-up".	9
	Read and follow all operating procedures. Refer to "Section 2: Operating Instructions".	10
	Follow tractor hook-up instructions. See "Tractor 3-Point Hookup" instructions.	10
	Read and make all required adjustments. Refer to "Section 3: Seeding Adjustments".	16
	Adjust seed rate for the Native Grass Seedbox per the Native Grass Seed Chart.	16
	Adjust seed rate using "Seed Rate Charts".	16
	Set speed change sprocket for drive type.	16
	Set seed rate. See "Seed Rate Charts".	16
	Follow all maintenance instructions. Refer to "Section 4: Maintenance & Lubrication".	22
	Follow all lubrication instructions. Refer to "Lubrication Points".	24
	Inspect seed cups & tubes for foreign matter.	29
	Check seeder initially and periodically for loose hardware. See "Torque Values Chart".	30

Tractor Shutdown Procedure

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

1. Reduce engine speed and disengage power take-off if engaged.
2. Park tractor and implement on level, solid ground.
3. Lower implement to ground or onto non-concrete support blocks.
4. Put tractor in park or set park brake, turn off engine, and remove ignition key to prevent unauthorized starting.
5. Relieve all hydraulic pressure to auxiliary hydraulic lines.

6. Wait for all components to come to a complete stop before leaving the operator's seat.
7. Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.

Tractor 3-Point Hookup

Refer to Figure 2-1 on page 11:



DANGER

To avoid serious injury or death:

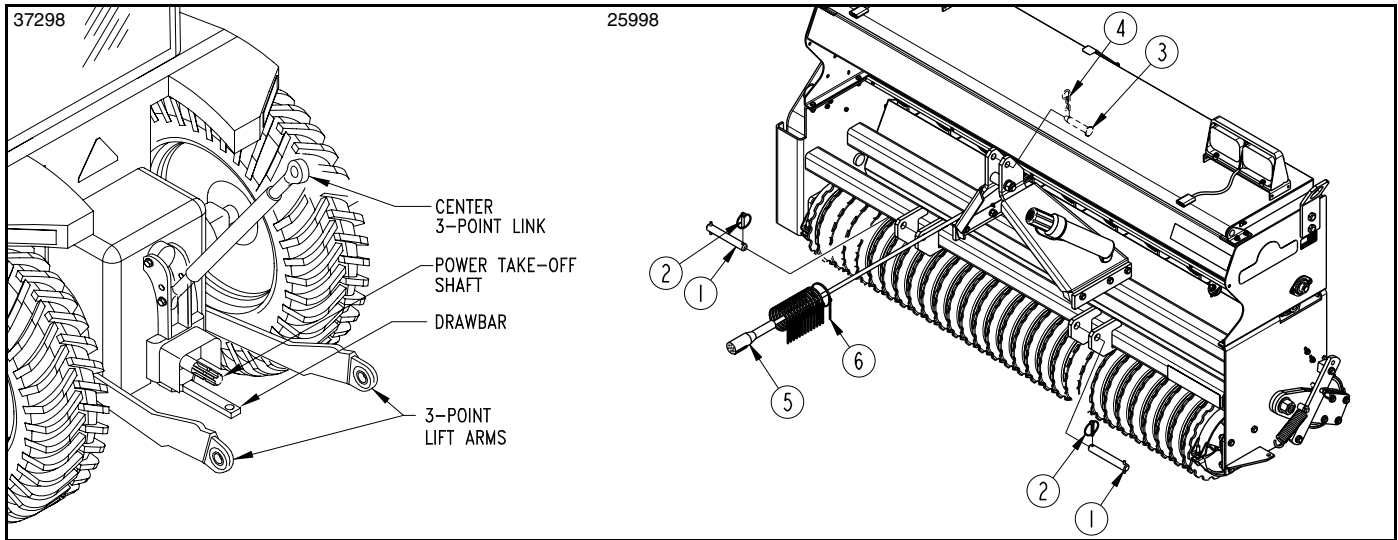
A crushing hazard exists while Connecting and disconnecting the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.

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

This Primary Seeder is designed for tractors in the Category 1 class. Check the tractor's 3-point lifting capacity. Refer to "**Section 6: Specifications & Capacities**" on page 27 for seeder weight.

1. Slowly back tractor up to the seeder while using the tractor's 3-point hydraulic control to align hitch holes in the 3-point lift arms with clevis lug holes on the seeder.
2. Shut tractor down using correct procedures. Refer to "**Perform the following inspections before using your seeder.**" on page 10.
3. With tractor's lower 3-point lift arms aligned and positioned in the clevises, attach lower 3-point arms to the clevises with hitch pins (#1) and secure with linchpins (#2).
4. Connect top center 3-point link to the upper center hitch clevis with clevis pin (#3) and secure with keeper (#4). Clevis pin (#3) and keeper (#4) are supplied by the customer.
5. Ensure that the lower 3-point lift arms are blocked to prevent excessive side movement.
6. Return to the tractor and slowly operate the tractor's 3-Point hydraulic control up and down to check for clearance between the tires, frame, drawbar etc. Move or remove drawbar if it interferes with the seeder.
7. Shut tractor down before dismounting to level the seeder. Refer to "**Perform the following inspections before using your seeder.**" on page 10.
8. **Refer to Figure 2-2 on page 11:** Remove rear roller lock pin from parking position and place in field position.

NOTE: A level placed on the unit can be used to check for levelness.



Tractor Hook-up
Figure 2-1

9. Manually adjust one of the two lower 3-point lift arms up or down to level the seeder from left to right.
10. Manually adjust the length of the top center 3-point link to level the seeder from front to rear.

Hook-up LED Lights

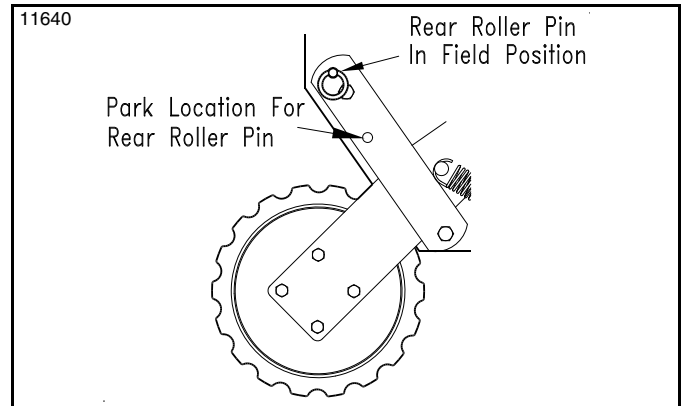
Refer to Figure 2-3:

The lead wiring harness (#5) is equipped with a 7-way round pin connector for connecting to the tractor's 7-pin electrical outlet shown in Figure 2-3.

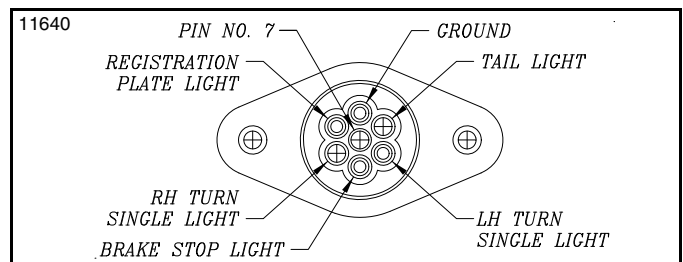
1. Connect lead wire harness (#5) to the tractor's 7-way round pin receiver.
2. It is best to have a second person verify the lights are operating. Start tractor and operate lights as follows:
 - a. Turn on head lights to verify red lights illuminate.
 - b. Turn on flasher lights to verify amber light are blinking on and off.
3. If lights did not operate properly, check all electrical connections on the wire harness (See Figure 2-4). Yellow and red wires with same pin letters should match at the connections. Make necessary changes and repeat step 2 above.
4. Check wire harness routing to make sure wires will not be pinched as the seeder is raised and lowered.
5. Add cable ties (#6) to the wire harness as needed to secure the harnesses in place.

Refer to Figure 2-5 on page 12:

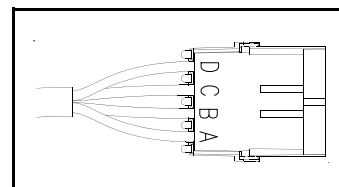
6. Relocate SMV Safety sign from back of your tractor to the SMV mounting bracket (#6) on the back of the seeder. If needed, a SMV sign can be purchased from your nearest Land Pride dealer. Refer to **"Slow Moving Vehicle Sign (Accessory)"** on page 26.



Rear Roller Pin in Field Position
Figure 2-2



Tractor 7-Pin Electrical Outlet
Figure 2-3



Electrical Connector Pin Letters
Figure 2-4

Section 2: Operating Instructions

Transporting

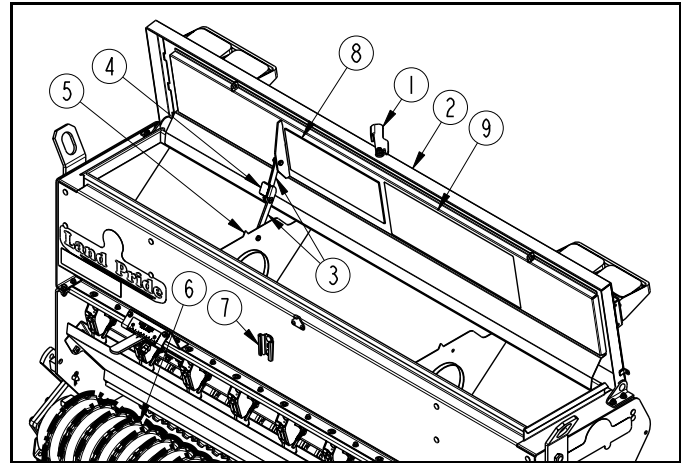
WARNING

To avoid serious injury or death:

- When traveling on public roads, use hazard 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.
- The slow moving vehicle sign should not be displayed when hauling equipment on a trailer that exceeds 25 mph (40 km/h). Cover or remove the sign on equipment being hauled.
- Select a safe ground speed that will allow adequate control of steering and stopping. Never exceed 20 mph (32 km/h) with attached equipment. Rough terrain requires a slower speed.
- Reduce ground speed when turning and leave enough clearance to avoid making contact with obstacles such as buildings, trees, fences, etc.
- Slow down when traveling over rough or hilly terrain. If needed, shift to a lower gear to maintain engine rpm.

Refer to Figure 2-5:

1. Make sure you have relocate the SMV Safety sign from back of your tractor to mounting bracket (#6) on the back of the seeder. If the tractor does not have a SMV sign, one can be purchased from your nearest Land Pride dealer. Refer to “**Slow Moving Vehicle Sign (Accessory)**” on page 26.
2. It is best to transport on the road with an empty box unless necessary as the increased seed weight will increase chances for road problems.
3. Start tractor and raise 3-point lift arms up.
4. Select a safe ground speed when transporting from one site to another. Never exceed 20 miles per hour travel speed.
5. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
6. Reduce tractor ground speed when turning. Leave enough clearance so the seeder does not contact obstacles such as buildings, trees, or fences.
7. Shift tractor to a lower gear when traveling over rough or hilly terrain.



Seed Box Shown With Lid Open
Figure 2-5

Fill Seed Box

Refer to Figure 2-5:

WARNING

To avoid serious injury or death:

Always lower the Primary Seeder to the ground before filling and checking seed level in the seed box. This will keep the rollers from turning while working around them.

1. Always follow correct shutdown procedures before filling the seed box. Refer to “**Perform the following inspections before using your seeder.**” on page 10.
2. Release lid latch (#1) and open seed box lid (#2) until over center latch arms (#3) have locked in place. Doing this will keep the lid from falling while filling the box.
3. Fill seed box from the rear while standing on the ground. **Do not** step or climb on the rear roller (#6) to fill the seed box. **Make sure** rear roller (#6) is on the ground so it cannot turn while filling the box.
4. The bag opener (#5) (sharp point on top of the baffle plate) can be used to tear open the seed bags.
5. Make certain the seed box is filled uniformly to ensure one side dose not run out of product ahead of the other side.
6. Close lid (#2) by pulling on handle (#4) with one hand while holding the lid up with the other hand. Lower lid gently while keeping hands and fingers clear.
7. Lock lid (#2) down with lid latch (#1) to keep moisture out.



Section 2: Operating Instructions

How the Seeder Works

The following information is a brief description of how this primary seeder works. It is included to help you understand the operation of this seeder.

The power to drive the seeding function of this seeder comes from the ground speed of the tractor. The seed metering is powered by the front roller at a rate proportional to the distance driven. This ensures that the rate applied remains constant as ground speed is varied. The power is transmitted via drive chains to the seed cups. This drive can be adjusted to a high or low range to broadcast more or less seed. The seed rate is adjustable using the seed rate lever located at the rear of the seeder. The seed is dropped between cast iron rollers. The front roller crushes clods, presses down small stones and forms a firm seedbed. The rear roller firms the soil around the seeds.

Operating the Seeder



WARNING

To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, and who are properly trained in the safe operation of this implement.
- Never carry riders on the implement or tractor. Riders can obstruct the operator's view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not use implement as a man lift or work platform. It is not properly designed or guarded for this use.
- 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 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.

IMPORTANT: Never back up with the seeder down. This will loosen the drive chain and possibly damage the seeder.

IMPORTANT: Before proceeding with the first time set-up, or before making any adjustments mentioned in this section, make every effort to attach the seeder to a tractor.

1. Contact your local utility services so that they may mark location of any under ground utility services in the area. Thoroughly inspect the work area yourself for buried pipelines, sprinkler heads, and any unforeseen objects. Mark any potential hazards.
2. This seeder can be transported with a full box of seeds. It is best not to do this unless necessary because the increased weight does increase the chances for problems on the road. Do not exceed 20 miles per hour.
3. **Refer to Figure 2-5 on page 12:** Calibrate your seeder sprocket speed and seed cup rate adjustment lever based on type of seed you are using. Calibration information is on charts (#8 & #9) located inside of your seedbox lid (#2) or in the charts starting on page 18.
4. Make sure each seed cup door handle is set at the same height across the seeder. The highest position is usually used for grass seeds.
5. Be sure all bolts and nuts are tight.
6. Be certain all guards are in place and secure.
7. Clear the area to be seeded of rocks, branches, and other foreign objects.
8. Never allow anyone to ride on the seeder.
9. Check that all plugs and caps have been replaced properly.
10. Do not back up while seeder is on the ground.
11. At first begin seeding at a slow forward speed and shift up until desired speed is achieved. Maximum speed to plant seed will vary according to soil conditions. Seeding should not be done in wet conditions as soil will stick to the rollers.
12. After seeding the first 50 feet, stop and check to see that the seeder is adjusted properly.



Section 2: Operating Instructions

General Operating Instructions

Once you have read the operators manual, properly installed the seeder to the tractors 3-point hitch, ran through the Operating Checklist, filled the hopper with seed, and calibrated the unit for proper seed rate delivery, it's time to do some serious seeding.

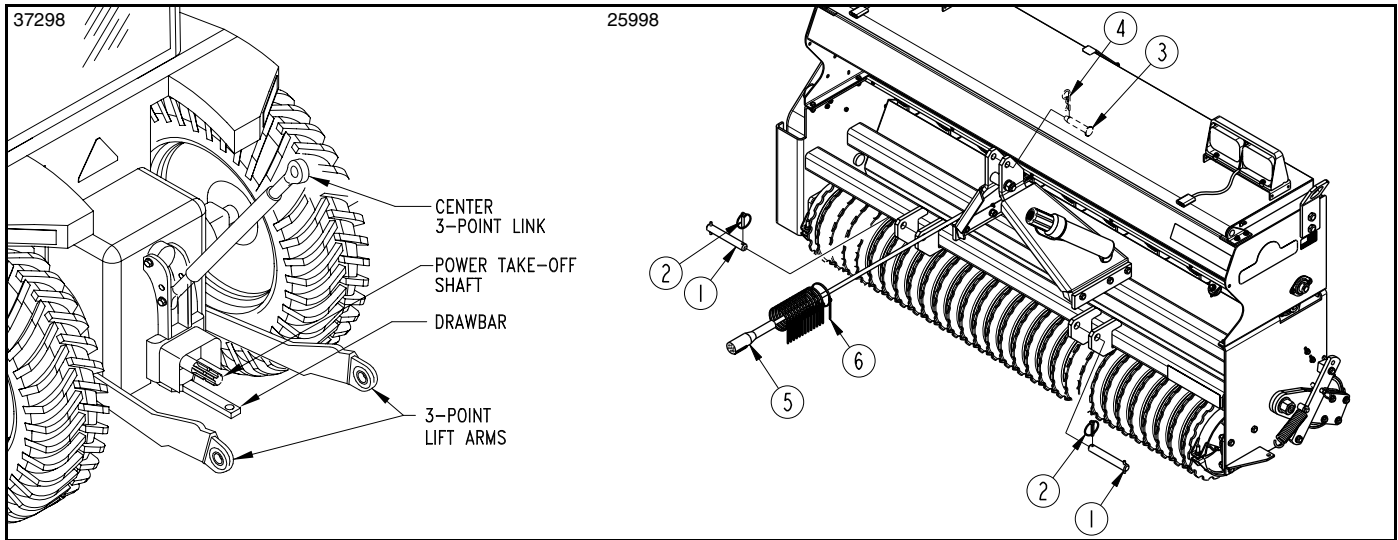
The PS1548 and PS1572 have ground driven seed delivery systems. The power to drive the seeder comes from the forward momentum of the tractor. As the tractor moves forward the ground driven front roller compactor transfers power, via chain driven sprockets, to the seed metering system. So, the seed rate remains constant and in direct proportion to the distance traveled and is affected very little by actual ground speed.

As the front roller passes over areas to be seeded it crushes larger clods, presses down smaller stones, and firms the seedbed. Seed is then delivered at the precise predetermined uniform rate over the wind guarded seed drop to the area located between the front and rear rollers. The rear roller then presses the seed into firm contact with the soil to promote a superbly high germination rate. Seeding should not be attempted in wet or muddy conditions.

Now that you understand how it works its time to begin seeding. Make sure you have removed the rear roller lock pin from the field or parking position.

You should already have removed any large stones or obstacles from the area you plan to seed. Line the tractor up for the first pass and choose a tractor gear selection that will deliver a ground speed of approximately 3-5 mph. Lower the three-point hitch and seeder slowly to the ground. At first begin driving forward slowly until you get comfortable with what you are doing. As you approach the end of the lane you are seeding, slow down and come to a stop while simultaneously raising the seeder off of the ground. With the seeder raised, turn around and line up for your next pass to repeat the seeding process. Look back often and make only gradual turns with your seeder on the ground to develop a uniform seeding pattern. The more experienced you become the better you will get at developing beautiful seed plots and beautiful lawns.

When you are done seeding, always clean the seeder out and perform all maintenance prescribed in the operator's manual. Never leave seed stored in the hopper for prolonged periods.



Unhook Seeder
Figure 2-6

Unhook Seeder

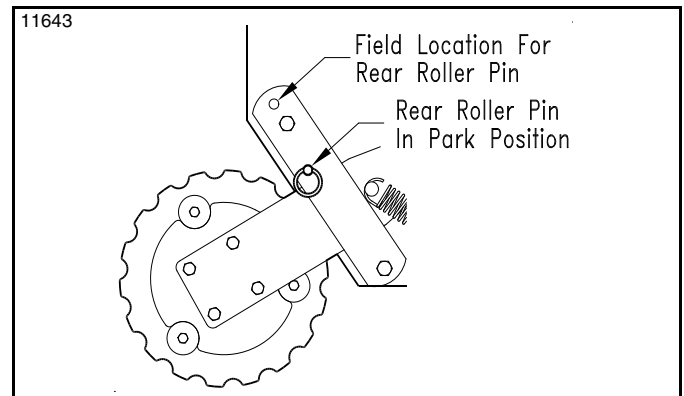
Refer to Figure 2-6:

DANGER

To avoid serious injury or death:

A crushing hazard exists while Connecting and disconnecting the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.

1. See **“Long-Term Storage”** on page 23 if unit is to be stored for a long time.
2. Shut tractor down before dismounting. Refer to **“Perform the following inspections before using your seeder.”** on page 10.
3. **Refer to Figure 2-7:** To prevent the seeder from tipping backward, remove rear roller lock pin from field position and place in park position.
4. Chock front & back rollers to keep unit from moving.
5. Remove top center hitch pin keeper (#4) and hitch pin (#3). If provided, place center 3-point link in tractor’s holding clip.
6. Reinstall hitch pin (#3) in upper clevis and secure with hitch pin keeper (#4).
7. Unhook wire harness (#5) from the tractor electrical outlet. Coil wire harness up and store on the seeder hitch. Keep pin connector out of the dirt.
8. Remove linchpins (#2) and hitch pins (#1) from lower 3-point lift arms.
9. Restart tractor and drive forward several feet while making sure lower 3-point arms do not catch on the implement.



Rear Roller Pin in Park Position
Figure 2-7

10. Shut tractor down before dismounting. Refer to **“Perform the following inspections before using your seeder.”** on page 10.
11. Reinstall hitch pins (#1) in the seeder’s lower hitch clevises, and secure with linchpins (#2) for safe keeping.

Refer to Figure 2-5 on page 12:

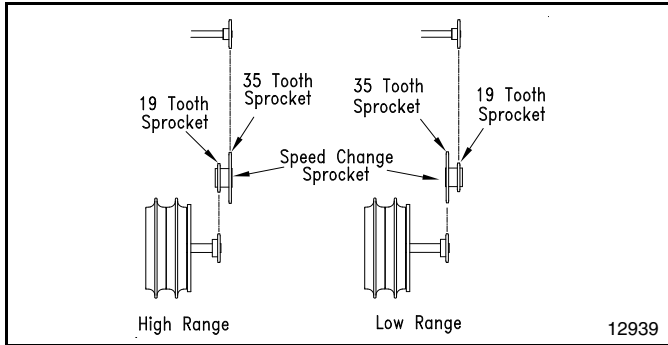
12. Remove SMV sign from mounting bracket (#7) on the back of the Primary Seeder.
13. Reinsert SMV Sign in the mounting bracket on the back of your tractor.

Section 3: Seeding Adjustments

Seed Rate Speed Change

Refer to Figure 3-1:

The seed rate speed change is designed to give you two speeds for different types of seeds and rates. The two drive speeds are high range (fast speed) and low range (slow speed). To change the drive type and chain pitch from High Range to Low Range, 8 pitches will need to be removed from chain.



Sprocket Alignment
Figure 3-1

Refer to Figure 3-2:

1. Loosen lower chain idler.
2. Remove 5/8" nut, 5/8" lock washer, and 5/8" flat washer from center of 19T/35T speed change sprocket.
3. See Figure 3-1 for sprocket alignment. Flip speed change sprocket for desired drive speed and reinstall flat washer, lock washer, and nut. Tighten 5/8" nut to the correct torque.
4. Adjust lower chain idler to retention chain and tighten adjusting nut to the correct torque.

Seed Cup Settings

Refer to Figure 3-3:

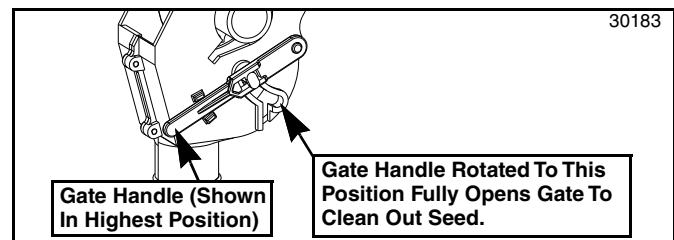
Each seed cup is equipped with a four-position gate. The highest gate handle position shown is for small seeds, the second and third positions are for larger seeds. The fourth position (Handle rotated fully down below the bottom tab) sets the gate at wide open to allow complete clean-out of seed cup.

Seed rate charts are based on the gate handle being set in the highest position. Typically, most seeds will use the highest gate handle position. If using larger seed and it is not discharging properly, you can try using the other two gate handle positions.

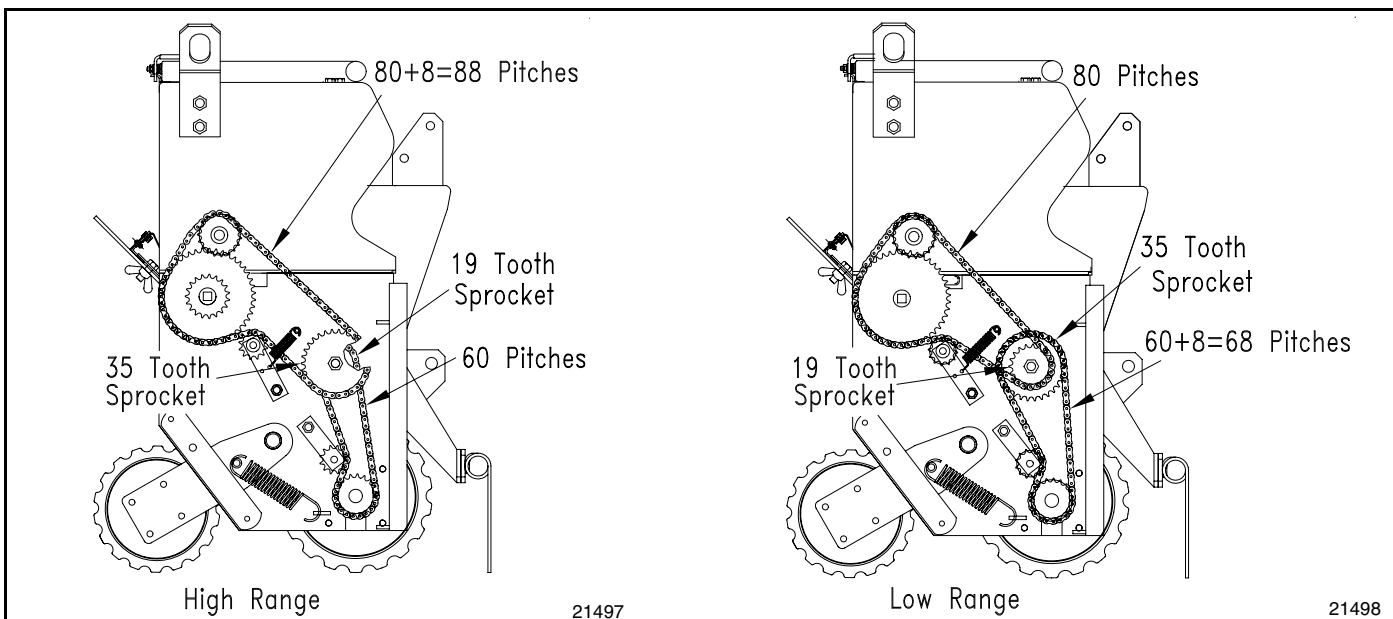
IMPORTANT: Most applications for this seeder require the gate handle be placed in the highest position.

MAKE SURE all gate handles are in the same position before seeding.

Do Not set gate handles in the fourth position and seed rate adjustment lever to the widest open position (See Figure 3-4 on page 17) with seed in the box unless complete clean out is desired.



Seed Cup Settings
Figure 3-3



Speed Change & Chain Pitches
Figure 3-2

Section 3: Seeding Adjustments

Calibrating & Adjusting Seeding Rate

IMPORTANT: Seed rates provided in the charts may be inconsistent with actual planting rates due to seed size, weight, treatment, moisture content, ratio of inert material to seed, different seed mixtures, humidity, & ground preparation. Minor adjustments to the cup setting may be needed to compensate.

NOTE: To determine seed rates for seeds not listed in the charts, compare weight and size to those listed and use a similar setting. Follow steps 1 to 3 to calibrate seed rate.

1. Use seed rate charts beginning on page 18 to determine correct seeding rate. Make adjustments as follows:
 - a. Decide which drive range is required (low or high range). If necessary, change speed change sprocket to accommodate correct speed range. See **"Seed Rate Speed Change"** on page 16.
 - b. **Refer to Figure 3-4 on page 17:** Move seed rate adjustment lever to cup setting number obtained from the seed rate charts. For best results, first move adjustment lever all the way to the left and then to the desired setting.
 - Increase setting if seed is lighter than average.
 - Decrease setting if seed is heavier than average.
2. Complete the following procedure to calibrate the rate for your specific seed.
 - a. Inside the seedbox, partition off three seed cups.
 - b. Pour seed over the three seed cups. **Do not** allow any seed to reach any of the other seed cups.
 - c. Raise the seeder off the ground and safely support it, leaving the front roller to rotate freely.
 - d. Rotate the front roller to make sure the drive system is working properly and the seed cups are free of foreign matter.

NOTE: A 1/2" bolt is threaded into the right-hand end of the front roller shaft. Turn bolt clockwise for proper seed cup rotation.

- e. Place a drop cloth under the seeder to collect all seeds that are metered out.
- f. Make sure each cup has plenty of seed falling into them and no other cups are receiving seed.
- g. Rotate front roller the number of rotations noted in the **"Front Roller Rotation Table"** below.

Front Roller Rotation Table

Model No	No. of Front Roller Rotations to Cover			
	1/10 Acre	1000 Sq. Ft.	1/20 Hectare	100 Sq. M
PS1572	233	53	287	57

- h. Be sure to check the three feed cups to make sure each cup has plenty of seed coming into it.
- i. Weigh the seed which has been metered out and divide that weight by three to get the number of pounds or kilograms per seed cup.

NOTE: If total weight for 3 seed cups is in ounces, divide that weight by 48 instead of 3.

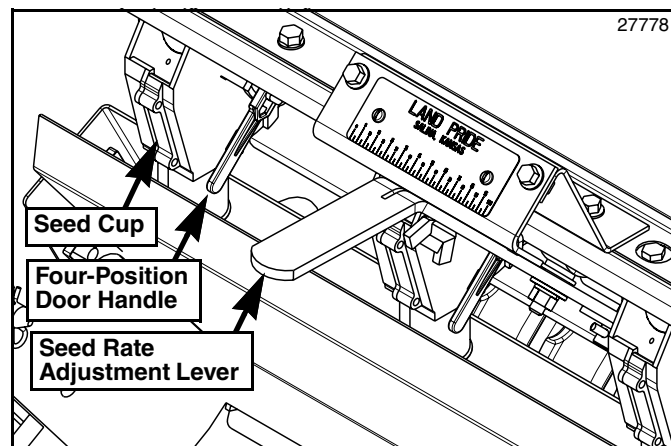
- j. Next, multiply number of pounds or kilograms per seed cup by the number of seed cups on the grass seeds seedbox to arrive at weight "A".
 - k. If Weight "A" is calculated based on:
 - 1/10 acre, then "A" x 10 = lbs/acre
 - 1000 sq ft, then "A" x 43.56 = lbs/acre
 - 1000 sq ft, then "A" x 1 = lbs/1000 sq ft
 - 1/20 hectare, then "A" x 20 = kgs/hectare
 - 100 sq meters, then "A" x 100 = kgs/hectare
 - 100 sq meters, then "A" x 10 = kgs/1000 sq m
 - l. If calculated grass seed rate is different than the suggested settings in the charts, then increase or decrease the seed cup adjustment lever.
3. Repeat calibration procedure if the results of the calibration vary greatly with the chart.

IMPORTANT: Remember, field and seed conditions will affect seeding rates. Check amount of seed being using by noting acres or square feet seeded, amount of seed added to the seeder, and level of seed in the seed box.

It may be necessary to make minor adjustments to the seeding rate if the seeder has been accurately calibrated and is seeding more or less seed than desired.

IMPORTANT: Do Not operate seed rate adjustment lever at -0- setting. Seed cup damage may occur.

Do Not set door handles and seed rate adjustment lever to the widest open position with seed in the box unless complete clean out is desired.



Seed Rate Adjustment Lever & Four-Position Door Handle
Figure 3-4



Seed Rate Charts (English)

Pounds per acre and 1000 square feet

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Alfalfa (Pounds per Acre)																					
High Range	0	54	125	198	269	341	412	485	555	626	699	769	842	913	985	1056	1129	1199	1270	1343	1413
Low Range	0	17	40	63	85	108	131	154	176	198	221	244	267	289	312	335	358	380	402	425	448
Alfalfa (Pounds per 1000 Square Feet)																					
High Range	0.0	1.2	2.9	4.5	6.2	7.8	9.2	11.1	12.8	14.4	16.1	17.7	19.4	21.0	22.6	24.3	25.9	27.6	29.2	30.9	32.5
Low Range	0.0	0.4	0.9	1.4	2.0	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.6	7.2	7.7	8.2	8.7	9.2	9.8	10.3
Bent Grass (Pounds per Acre)																					
High Range	0	37	80	115	152	185	206	239	265	293	326	358	380	413	439	467	499	528	554	586	619
Low Range	0	17	29	42	54	66	77	89	99	110	122	131	140	149	159	168	175	184	191	198	205
Bent Grass (Pounds per 1000 Square Feet)																					
High Range	0.0	0.8	1.8	2.6	3.5	4.2	4.7	5.5	6.1	6.7	7.5	8.2	8.7	9.5	10.1	11.5	12.1	12.7	12.7	13.5	14.2
Low Range	0.0	0.4	0.7	1.0	1.2	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.2	3.4	3.6	3.9	4.0	4.2	4.4	4.5	4.7
Bermuda (Pounds per Acre)																					
High Range	0	61	101	161	206	250	295	341	386	430	475	521	565	610	654	701	745	789	834	880	925
Low Range	0	19	32	51	65	79	93	108	122	136	150	165	179	193	207	222	236	250	264	279	293
Bermuda (Pounds per 1000 Square Feet)																					
High Range	0.0	1.4	2.3	3.7	4.7	5.8	6.8	7.8	8.9	9.9	10.9	12.0	13.0	14.0	15.0	16.1	17.1	18.1	19.2	20.2	21.3
Low Range	0.0	0.4	0.7	1.2	1.5	1.8	2.1	2.5	2.8	3.1	3.8	3.8	4.1	4.4	4.8	5.1	5.4	5.7	6.1	6.4	6.7
Buffalo Grass (Pounds per Acre)																					
High Range	0	0	0	22	52	76	106	130	159	185	213	241	259	293	321	352	371	395	417	430	434
Low Range	0	0	0	13	21	29	38	46	56	65	73	83	92	99	109	118	127	134	143	147	150
Buffalo Grass (Pounds per 1000 Square Feet)																					
High Range	0.0	0.0	0.0	0.5	1.2	1.7	2.4	3.0	3.6	4.2	4.9	5.5	6.2	6.7	7.4	8.1	8.5	9.1	9.6	9.9	10.0
Low Range	0.0	0.0	0.0	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.4	3.5
Clover - Red (Pounds per Acre)																					
High Range	0	77	143	202	263	321	380	438	499	557	616	676	734	793	852	913	971	1030	1090	1149	1207
Low Range	0	24	45	64	83	102	120	139	158	177	195	214	233	251	270	289	308	326	346	364	383
Clover - Red (Pounds per 1000 Square Feet)																					
High Range	0.0	1.8	3.3	4.6	6.0	7.4	8.7	1.1	11.5	12.8	14.2	15.5	16.9	18.2	19.6	21.0	22.3	23.7	25.1	26.4	27.8
Low Range	0.0	0.6	1.0	1.5	1.9	2.3	2.8	3.2	3.6	4.1	4.5	4.9	5.4	5.8	6.2	6.6	7.1	7.5	7.9	8.4	8.8
Clover - White (Pounds per Acre)																					
High Range	0	77	151	224	297	372	444	517	592	664	737	812	884	957	1032	1104	1177	1252	1324	1397	1472
Low Range	0	24	48	71	94	118	141	164	187	211	234	257	280	303	327	350	373	397	420	443	466
Clover - White (Pounds per 1000 Square Feet)																					
High Range	0.0	1.8	3.5	5.2	6.8	8.5	10.2	11.9	13.6	15.3	16.9	18.7	20.3	22.0	23.7	25.4	27.1	28.8	30.4	32.1	33.8
Low Range	0.0	0.6	1.1	1.6	2.2	2.7	3.2	3.8	4.3	4.8	5.4	5.9	6.4	7.0	7.5	8.0	8.6	9.1	9.6	10.2	10.7
Fescue - Fine Blade, Turf Type (Pounds per Acre)																					
High Range	0	20	46	75	103	131	160	188	216	242	271	299	327	355	384	412	440	468	497	525	553
Low Range	0	6	15	24	33	42	51	60	69	77	86	95	104	113	122	131	140	148	157	166	175
Fescue - Fine Blade, Turf Type (Pounds per 1000 Square Feet)																					
High Range	0.0	0.5	1.1	1.7	2.4	3.0	3.7	4.3	5.0	5.6	6.2	6.9	7.5	8.2	8.8	9.5	10.1	10.8	11.4	12.1	12.7
Low Range	0.0	0.1	0.3	0.5	0.7	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
Fescue K31 (Pounds per Acre)																					
High Range	0	0	21	50	83	113	140	165	186	223	243	272	305	328	355	382	48	433	439	450	454
Low Range	0	0	6	15	26	35	44	51	58	69	76	84	95	102	110	118	127	134	136	140	141
Fescue K31 (Pounds per 1000 Square Feet)																					
High Range	0.0	0.0	0.5	1.1	1.9	2.6	3.2	3.8	4.3	5.1	5.6	6.3	7.0	7.5	8.2	8.8	9.4	10.0	10.1	10.3	10.4
Low Range	0.0	0.0	0.1	0.4	0.6	0.8	1.0	1.2	1.3	1.6	1.7	1.9	2.2	2.3	2.5	2.7	2.9	3.1	3.1	3.2	3.2
Kentucky Blue Grass (Pounds per Acre)																					
High Range	0	23	48	73	103	125	155	178	205	227	250	274	293	322	334	365	387	406	426	442	455
Low Range	0	8	16	24	34	41	51	58	67	74	82	90	96	106	109	119	127	133	140	145	149
Kentucky Blue Grass (Pounds per 1000 Square Feet)																					
High Range	0.0	0.5	1.1	1.7	2.4	2.9	3.6	4.1	4.7	5.2	5.7	6.3	6.7	7.4	7.7	8.4	8.9	9.3	9.8	10.1	10.5
Low Range	0.0	0.2	0.4	0.5	0.8	0.9	1.2	1.3	1.5	1.7	1.9	2.1	2.2	2.4	2.5	2.7	2.9	3.1	3.2	3.3	3.4

IMPORTANT: Do Not operate seed rate adjustment lever at -0- cup setting. Seed cup damage may occur.



Section 3: Seeding Adjustments

Seed Rate Chart (English)

Pounds per acre and 1000 square feet

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Lovegrass - Sand (Pounds per Acre)																					
High Range	0	89	140	191	242	293	343	394	445	496	547	598	649	700	751	802	852	925	977	1029	1081
Low Range	0	28	44	61	77	93	109	125	141	157	173	189	206	222	238	254	270	286	302	319	335
Lovegrass - Sand (Pounds per 1000 Square Feet)																					
High Range	0.0	2.0	3.2	4.4	5.6	6.7	7.9	9.1	10.2	11.4	12.6	13.7	14.9	16.1	17.3	18.4	19.6	21.3	22.5	23.7	24.9
Low Range	0.0	0.6	1.0	1.4	1.8	2.1	2.5	2.9	3.2	3.6	4.0	4.4	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.3	7.7
Lovegrass Weeping (Pounds per Acre)																					
High Range	0	109	176	226	287	343	396	448	501	553	606	658	711	763	816	868	921	973	1026	1078	1133
Low Range	0	35	56	72	91	109	125	142	159	175	192	209	225	242	259	275	292	308	325	342	359
Lovegrass Weeping (Pounds per 1000 Square Feet)																					
High Range	0.0	2.5	4.0	5.2	6.6	7.9	9.1	10.3	11.5	12.7	13.9	15.1	16.3	17.5	18.7	20.0	21.2	22.4	23.6	24.8	26.0
Low Range	0.0	0.8	1.3	1.6	2.1	2.5	2.9	3.3	3.6	4.0	4.4	4.8	5.2	5.6	5.9	6.3	6.7	7.1	7.5	7.8	8.2
Orchard Grass (Pounds per Acre)																					
High Range	0.0	4.0	6.0	10.0	15.0	20.0	27.0	34.0	41.0	49.0	58.0	66.0	75.0	85.0	94.0	103.0	112.0	121.0	130.0	138.0	146
Low Range	0.0	1.0	2.0	3.0	5.0	7.0	9.0	12.0	15.0	18.0	22.0	25.0	29.0	33.0	36.0	40.0	44.0	48.0	51.0	55.0	58
Orchard Grass (Pounds per 1000 Square Feet)																					
High Range	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.8	3.0	3.2	3.3
Low Range	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.3
Rye Grass - Annual (Pounds per Acre)																					
High Range	0	21	59	95	131	168	204	242	279	315	351	388	426	462	499	535	573	610	646	682	719
Low Range	0	7	19	30	42	53	65	77	88	100	111	123	135	147	158	170	182	193	205	216	228
Rye Grass - Annual (Pounds per 1000 Square Feet)																					
High Range	0.0	0.5	1.3	2.2	3.0	3.9	4.7	5.6	6.4	7.2	8.1	8.9	9.8	10.6	11.5	12.3	13.2	14.0	14.9	15.7	16.5
Low Range	0.0	0.2	0.4	0.7	1.0	1.2	1.5	1.8	2.0	2.3	2.6	2.8	3.1	3.4	3.6	3.9	4.2	4.4	4.7	5.0	5.2
Rye Grass - Perennial (Pounds per Acre)																					
High Range	0	36	77	115	156	196	234	275	315	353	394	434	475	513	553	594	632	672	713	751	791
Low Range	0	12	24	37	49	62	74	87	100	112	125	138	150	163	175	188	200	213	226	238	251
Rye Grass - Perennial (Pounds per 1000 Square Feet)																					
High Range	0.0	0.8	1.8	2.6	3.6	4.5	5.4	6.2	7.2	8.1	9.0	10.0	10.9	11.8	12.7	13.6	14.5	15.5	16.4	17.3	18.2
Low Range	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.7	4.0	4.3	4.6	4.9	5.2	5.5	5.8
Sudan Grass (Pounds per Acre)																					
High Range	0	35	68	103	141	179	220	262	306	352	398	446	495	545	596	648	701	754	808	862	916
Low Range	0	18	28	41	55	71	89	107	127	147	168	189	210	231	252	271	290	308	325	339	352
Sudan Grass (Pounds per 1000 Square Feet)																					
High Range	0.0	0.8	1.6	2.4	3.2	4.1	5.1	6.0	7.0	8.1	9.1	10.2	11.4	12.5	13.7	14.9	16.1	17.3	18.5	19.8	21.0
Low Range	0.0	0.4	0.6	0.9	1.3	1.6	2.0	2.5	2.9	3.4	3.9	4.3	4.8	5.3	5.8	6.2	6.7	7.1	7.5	7.8	8.1
Vetch (Pounds per Acre)																					
High Range	0	78	135	191	245	302	358	415	471	525	582	638	695	749	805	862	918	973	1029	1089	1142
Low Range	0	21	38	56	73	90	108	125	142	159	177	194	211	228	246	263	280	298	315	333	350
Vetch (Pounds per 1000 Square Feet)																					
High Range	0.0	1.8	3.1	4.4	5.6	6.9	8.2	9.5	10.8	12.1	13.4	14.7	16.0	17.2	18.5	19.8	21.1	22.4	23.7	25.1	26.2
Low Range	0.0	0.5	0.9	1.3	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.2	5.6	6.0	6.4	6.9	7.2	7.6	8.0
Wheatgrass - Crested (Pounds per Acre)																					
High Range	0	22	36	51	67	81	95	111	125	139	153	170	184	198	214	228	242	258	273	287	301
Low Range	0	7	12	16	21	26	30	35	40	44	49	54	58	63	68	72	77	82	86	91	95
Wheatgrass - Crested (Pounds per 1000 Square Feet)																					
High Range	0.0	0.5	0.8	1.2	1.5	1.9	2.2	2.6	2.9	3.2	3.5	3.9	4.2	4.5	4.9	5.2	5.6	5.9	6.3	6.6	6.9
Low Range	0.0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Wheatgrass - Western (Pounds per Acre)																					
High Range	0	7	24	41	58	76	93	110	127	144	161	179	196	213	230	247	265	282	299	316	333
Low Range	0	2	8	13	19	24	29	35	4	46	51	57	62	67	73	78	84	89	95	100	106
Wheatgrass - Western (Pounds per 1000 Square Feet)																					
High Range	0.0	0.2	0.5	0.9	1.3	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7
Low Range	0.0	0.0	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.2	1.3	1.4	1.5	1.7	1.8	1.9	2.1	2.2	2.3	2.4

IMPORTANT: Do Not operate seed rate adjustment lever at -0- cup setting. Seed cup damage may occur.



Seed Rate Charts (Metric)

Kilograms per hectare and 1000 square meters

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Alfalfa (Kilograms per Hectare)																					
High Range	0	61	140	222	302	382	462	544	622	702	783	862	944	1023	1104	1184	1265	1344	1423	1505	1584
Low Range	0	19	45	71	95	121	147	173	197	222	248	273	299	324	350	375	401	426	451	476	502
Alfalfa (Kilograms per 1000 Square Meters)																					
High Range	0.0	6.1	14.0	22.2	30.2	38.2	46.2	54.4	62.2	70.2	78.3	86.2	94.4	102.3	110.4	118.4	126.5	134.4	142.3	150.5	158.4
Low Range	0.0	1.9	4.5	7.1	9.5	12.1	14.7	17.3	19.7	22.2	24.8	27.3	29.9	32.4	35.0	37.5	40.1	42.6	45.1	47.6	50.2
Bent Grass (Kilograms per Hectare)																					
High Range	0	41	90	129	170	207	231	268	297	328	365	401	426	463	492	523	559	592	621	657	694
Low Range	0	19	33	47	61	74	86	100	111	123	137	147	157	167	178	188	196	206	214	222	230
Bent Grass (Kilograms per 1000 Square Meters)																					
High Range	0.0	4.1	9.0	12.9	17.0	20.7	23.1	26.8	29.7	32.8	36.5	40.1	42.6	46.3	49.2	52.3	55.9	59.2	62.1	65.7	69.4
Low Range	0.0	1.9	3.3	4.7	6.1	7.4	8.6	10.0	11.1	12.3	13.7	14.7	15.7	16.7	17.8	18.8	19.6	20.6	21.4	22.2	23.0
Bermuda (Kilograms per Hectare)																					
High Range	0	68	113	180	231	280	331	382	433	482	532	584	633	684	733	786	835	884	935	986	1037
Low Range	0	21	36	57	73	89	104	121	137	152	168	185	201	216	232	249	265	280	296	313	328
Bermuda (Kilograms per 1000 Square Meters)																					
High Range	0.0	6.8	11.3	18.0	23.1	28.0	33.1	38.2	43.3	48.2	53.2	58.4	63.3	68.4	73.3	78.6	83.5	88.4	93.5	98.6	103.7
Low Range	0.0	2.1	3.6	5.7	7.3	8.9	10.4	12.1	13.7	15.2	16.8	18.5	20.1	21.6	23.2	24.9	26.5	28.0	29.6	31.3	32.8
Buffalo Grass (Kilograms per Hectare)																					
High Range	0	0	0	25	58	85	119	146	178	207	239	270	290	328	360	395	416	443	467	482	486
Low Range	0	0	0	15	24	33	43	52	63	73	82	93	103	111	122	132	142	150	160	165	168
Buffalo Grass (Kilograms per 1000 Square Meters)																					
High Range	0.0	0.0	0.0	2.5	5.8	8.5	11.9	14.6	17.8	20.7	23.9	27.0	29.0	32.8	36.0	39.5	41.6	44.3	46.7	48.2	48.6
Low Range	0.0	0.0	0.0	1.5	2.4	3.3	4.3	5.2	6.3	7.3	8.2	9.3	10.3	11.1	12.2	13.2	14.2	15.0	16.0	16.5	16.8
Clover - Red (Kilograms per Hectare)																					
High Range	0	86	160	226	295	360	426	491	559	624	690	758	823	889	955	1023	1088	1154	1222	1288	1353
Low Range	0	27	50	72	93	114	135	156	177	198	219	240	261	281	303	324	345	365	388	408	429
Clover - Red (Kilograms per 1000 Square Meters)																					
High Range	0.0	8.6	16.0	22.6	29.5	36.0	42.6	49.1	55.9	62.4	69.0	75.8	82.3	88.9	95.5	102.3	108.8	115.4	121.3	128.8	135.3
Low Range	0.0	2.7	5.0	7.2	9.3	11.4	13.5	15.6	17.7	19.8	21.9	24.0	26.1	28.1	30.3	32.4	34.5	36.5	38.8	40.8	42.9
Clover - White (Kilograms per Hectare)																					
High Range	0	86	169	251	333	417	498	579	664	744	826	910	991	1073	1157	1237	1319	1403	1484	1566	1650
Low Range	0	27	54	80	105	132	158	184	210	236	262	288	314	340	367	392	418	445	471	497	522
Clover - White (Kilograms per 1000 Square Meters)																					
High Range	0.0	8.6	16.9	25.1	33.3	41.7	49.8	57.9	66.4	74.4	82.6	91.0	99.1	107.3	115.7	123.7	131.9	140.3	148.4	156.6	165.0
Low Range	0.0	2.7	5.4	8.0	10.5	13.2	15.8	18.4	21.0	23.6	26.2	28.8	31.4	34.0	36.7	39.2	41.8	44.5	47.1	49.7	52.2
Fescue - Fine Blade, Turf Type (Kilograms per Hectare)																					
High Range	0	22	52	84	115	147	179	211	242	271	304	335	367	398	430	462	493	525	557	588	620
Low Range	0	7	17	27	37	47	57	67	77	86	96	106	117	127	137	147	157	166	176	186	196
Fescue - Fine Blade, Turf Type (Kilograms per 1000 Square Meters)																					
High Range	0.0	2.2	5.2	8.4	11.5	14.7	17.9	21.1	24.2	27.1	30.4	33.5	36.7	39.8	43.0	46.2	49.3	52.5	55.7	58.8	62.0
Low Range	0.0	0.7	1.7	2.7	3.7	4.7	5.7	6.7	7.7	8.6	9.6	10.6	11.7	12.7	13.7	14.7	15.7	16.6	17.6	18.6	19.6
Fescue K31 (Kilograms per Hectare)																					
High Range	0	0	24	56	93	127	157	185	208	250	272	305	342	368	398	428	54	485	492	504	509
Low Range	0	0	7	17	29	39	49	57	65	77	85	94	106	114	123	132	142	150	152	157	158
Fescue K31 (Kilograms per 1000 Square Meters)																					
High Range	0.0	0.0	2.4	5.6	9.3	12.7	15.7	18.5	20.8	25.0	27.2	30.5	34.2	36.8	39.8	42.8	5.4	48.5	49.2	50.4	50.9
Low Range	0.0	0.0	0.7	1.7	2.9	3.9	4.9	5.7	6.5	7.7	8.5	9.4	10.6	11.4	12.3	13.2	14.2	15.0	15.2	15.7	15.8
Kentucky Blue Grass (Kilograms per Hectare)																					
High Range	0	26	54	82	115	140	174	200	230	254	280	307	328	361	374	409	434	455	477	495	510
Low Range	0	9	18	27	38	46	57	65	75	83	92	101	108	119	122	133	142	149	157	163	167
Kentucky Blue Grass (Kilograms per 1000 Square Meters)																					
High Range	0.0	2.6	5.4	8.2	11.5	14.0	17.4	20.0	23.0	25.4	28.0	30.7	32.8	36.1	37.4	40.9	43.4	45.5	47.7	49.5	51.0
Low Range	0.0	0.9	1.8	2.7	3.8	4.6	5.7	6.5	7.5	8.3	9.2	10.1	10.8	11.9	12.2	13.3	14.2	14.9	15.7	16.3	16.7

IMPORTANT: Do Not operate seed rate adjustment lever at -0- cup setting. Seed cup damage may occur.



Seed Rate Chart (Metric)

Kilograms per hectare and 1000 square meters

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Lovegrass - Sand (Kilograms per Hectare)																					
High Range	0	100	157	214	271	328	384	442	499	556	613	670	727	785	842	899	955	1037	1095	1153	1212
Low Range	0	31	49	68	86	104	122	140	158	176	194	212	231	249	267	285	303	321	338	358	375
Lovegrass - Sand (Kilograms per 1000 Square Meters)																					
High Range	0.0	10.0	15.7	21.4	27.1	32.8	38.4	44.2	49.9	55.6	61.3	67.0	72.7	78.5	84.2	89.9	95.5	103.7	109.5	115.3	121.2
Low Range	0.0	3.1	4.9	6.8	8.6	10.4	12.2	14.0	15.8	17.6	19.4	21.2	23.1	24.9	26.7	28.5	30.3	32.1	33.8	35.8	37.5
Lovegrass Weeping (Kilograms per Hectare)																					
High Range	0	122	197	253	322	384	444	502	562	620	679	738	797	855	915	973	1032	1091	1150	1208	1270
Low Range	0	39	63	81	102	122	140	159	178	196	215	234	252	271	290	308	327	345	364	383	402
Lovegrass Weeping (Kilograms per 1000 Square Meters)																					
High Range	0.0	12.2	19.7	25.3	32.2	38.4	44.4	50.2	56.2	62.0	67.9	73.8	79.7	85.5	91.5	97.3	103.2	109.1	115.0	120.8	127.0
Low Range	0.0	3.9	6.3	8.1	10.2	12.2	14.0	15.9	17.8	19.6	21.5	23.4	25.2	27.1	29.0	30.8	32.7	34.5	36.4	38.3	40.2
Orchard Grass (Kilograms per Hectare)																					
High Range	0	4	7	11	17	22	30	38	46	55	65	74	84	95	105	115	126	136	146	155	164
Low Range	0	1	2	3	6	8	10	13	17	20	25	28	33	37	40	45	49	54	57	62	65
Orchard Grass (Kilograms per 1000 Square Meters)																					
High Range	0.0	0.4	0.7	1.1	1.7	2.2	3.0	3.8	4.6	5.5	6.5	7.4	8.4	9.5	10.5	11.5	12.6	13.6	14.6	15.5	16.4
Low Range	0.0	0.1	0.2	0.3	0.6	0.8	1.0	1.3	1.7	2.0	2.5	2.8	3.3	3.7	4.0	4.5	4.9	5.4	5.7	6.2	6.5
Rye Grass - Annual (Kilograms per Hectare)																					
High Range	0	24	66	106	147	188	229	271	313	353	393	435	477	518	559	600	642	684	724	764	806
Low Range	0	8	21	34	47	59	73	86	99	112	124	138	151	165	177	191	204	216	230	242	256
Rye Grass - Annual (Kilograms per 1000 Square Meters)																					
High Range	0.0	2.4	6.6	10.6	14.7	18.8	22.9	27.1	31.3	35.3	39.3	43.5	47.7	51.8	55.9	60.0	64.2	68.4	72.4	76.4	80.6
Low Range	0.0	0.8	2.1	3.4	4.7	5.9	7.3	8.6	9.9	11.2	12.4	13.8	15.1	16.5	17.7	19.1	20.4	21.6	23.0	24.2	25.6
Rye Grass - Perennial (Kilograms per Hectare)																					
High Range	0	40	86	129	175	220	262	308	353	396	442	486	532	575	620	666	708	753	799	842	887
Low Range	0	13	27	41	55	69	83	98	112	126	140	155	168	183	196	211	224	239	253	267	281
Rye Grass - Perennial (Kilograms per 1000 Square Meters)																					
High Range	0.0	4.0	8.6	12.9	17.5	22.0	26.2	30.8	35.3	39.6	44.2	48.6	53.2	57.5	62.0	66.6	70.8	75.3	79.9	84.2	88.7
Low Range	0.0	1.3	2.7	4.1	5.5	6.9	8.3	9.8	11.2	12.6	14.0	15.5	16.8	18.3	19.6	21.1	22.4	23.9	25.3	26.7	28.1
Sudan Grass (Kilograms per Hectare)																					
High Range	0	39	76	115	158	201	247	294	343	395	446	500	555	611	668	726	786	845	906	966	1027
Low Range	0	20	31	46	62	80	100	120	142	165	188	212	235	259	282	304	325	345	364	380	395
Sudan Grass (Kilograms per 1000 Square Meters)																					
High Range	0.0	3.9	7.6	11.5	15.8	20.1	24.7	29.4	34.3	39.5	44.6	50.0	55.5	61.1	66.8	72.6	78.6	84.5	90.6	96.6	102.7
Low Range	0.0	2.0	3.1	4.6	6.2	8.0	10.0	12.0	14.2	16.5	18.8	21.2	23.5	25.9	28.2	30.4	32.5	34.5	36.4	38.0	39.5
Vetch (Kilograms per Hectare)																					
High Range	0	87	151	214	275	338	401	465	528	588	652	715	779	840	902	966	1029	1091	1153	1221	1280
Low Range	0	24	43	63	82	101	121	140	159	178	198	217	236	256	276	295	314	334	353	373	392
Vetch (Kilograms per 1000 Square Meters)																					
High Range	0.0	8.7	15.1	21.4	27.5	33.8	40.1	46.5	52.8	58.8	65.2	71.5	77.9	84.0	90.2	96.6	102.9	109.1	115.3	122.1	128.0
Low Range	0.0	2.4	4.3	6.3	8.2	10.1	12.1	14.0	15.9	17.8	19.8	21.7	23.6	25.6	27.6	29.5	31.4	33.4	35.3	37.3	39.2
Wheatgrass - Crested (Kilograms per Hectare)																					
High Range	0	25	40	57	75	91	106	124	140	156	171	191	206	222	240	256	271	289	306	322	337
Low Range	0	8	13	18	24	29	34	39	45	49	55	61	65	71	76	81	86	92	96	102	106
Wheatgrass - Crested (Kilograms per 1000 Square Meters)																					
High Range	0.0	2.5	4.0	5.7	7.5	9.1	10.6	12.4	14.0	15.6	17.1	19.1	20.6	22.2	24.0	25.6	27.1	28.9	30.6	32.2	33.7
Low Range	0.0	0.8	1.3	1.8	2.4	2.9	3.4	3.9	4.5	4.9	5.5	6.1	6.5	7.1	7.6	8.1	8.6	9.2	9.6	10.2	10.6
Wheatgrass - Western (Kilograms per Hectare)																					
High Range	0	8	27	46	65	85	104	123	142	161	180	201	220	239	258	277	297	316	335	354	373
Low Range	0	2	9	15	21	27	33	39	4	52	57	64	69	75	82	87	94	100	106	112	119
Wheatgrass - Western (Kilograms per 1000 Square Meters)																					
High Range	0.0	0.8	2.7	4.6	6.5	8.5	10.4	12.3	14.2	16.1	18.0	20.1	22.0	23.9	25.8	27.7	29.7	31.6	33.5	35.4	37.3
Low Range	0.0	0.2	0.9	1.5	2.1	2.7	3.3	3.9	0.4	5.2	5.7	6.4	6.9	7.5	8.2	8.7	9.4	10.0	10.6	11.2	11.9

IMPORTANT: Do Not operate seed rate adjustment lever at -0- cup setting. Seed cup damage may occur.



Section 4: Maintenance & Lubrication

Maintenance

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

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



DANGER

To avoid serious injury or death:

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



WARNING

To avoid serious injury or death:

- *Make sure controls are all in the neutral position or park before starting the power machine.*
- *Allow only persons to perform maintenance on this implement who have been properly trained in its safe operation.*
- *Before any lubrication or maintenance is performed, lower implement to ground, shut engine off, and remove ignition key. Do not attempt to lubricate or perform maintenance with implement or power machine running.*
- *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.*

Drive System

Your Primary Seeder uses standard no. 40 roller chain throughout its drive system. The drive system is simple and designed for low maintenance.

1. Check all drive idler arms to ensure that they are taking up any excess chain slack.
2. Check each chain to ensure that it is not over-tightened.
3. Clean and lubricate all roller chains with chain lubricant as needed.

Packing Rollers

The front and rear packing rollers should turn freely. If they do not, investigate and remove the cause.

The rear packing roller assembly should be free to float up and down to follow the field terrain. Remove rear roller lock pin from park position and place in field position as shown in Figure 2-2 on page 11. This will free up the roller's floating capabilities.

Section 4: Maintenance & Lubrication

Long-Term Storage

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

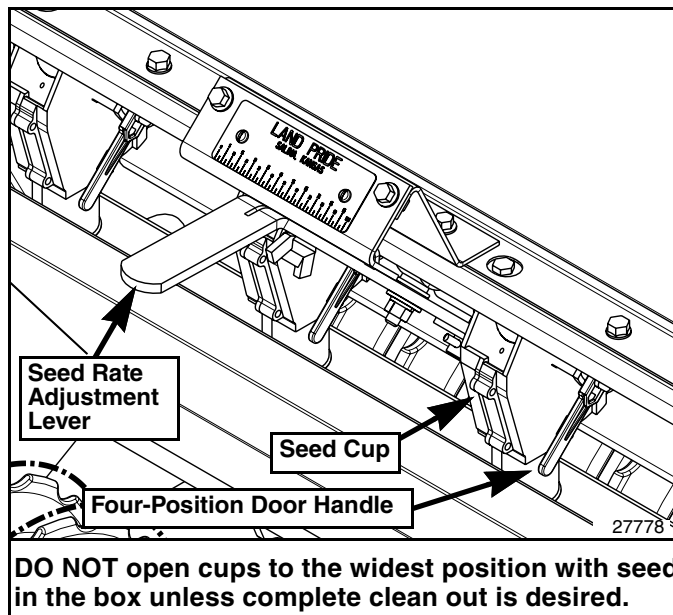
1. Make sure the seed box is completely clean before storing the seeder. It is best if this is done while the tractor is still connected to the seeder.
 - a. Scoop out large quantities of seed left in the box. Finish with a small broom or vacuum sweeper.

Refer to Figure 4-1:

- b. Move seeder rate adjustment lever(s) all the way to the right to fully open seed cups.
 - c. Lower four position door handles to the lowest position at each seed cup.
 - d. Run seeder over the ground to power the seed cups to remove out-of-reach seeds.
 - e. Make a final sweep or vacuum the seed cups to finish the cleaning job.
2. Inspect seeder for loose, damaged, or worn parts and adjust or replace if needed with genuine Land Pride parts. Do not alter Land Pride equipment. Altering equipment can hinder performance and/or cause damage to the equipment.
3. Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for aerosol touch-up paint. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

Land Pride Touch-up Paint	
Part No.	Part Description
821-011C	PAINT LP BEIGE SPRAY CAN
821-066C	PAINT ORANGE SPRAY CAN
821-070C	PAINT GP GLOSS BLACK SPRAY CAN

4. Replace all damaged or missing decals.
5. The square bore of the seed cup drive sprocket hub should be oiled to prevent seizing. Squirt oil on to the square feed cup shaft and move seed cup adjustment lever back and forth in order to get oil back into the square. Refer to **"Feed Cup Drive Shaft"** on page 24.
6. Lubricate all grease fittings and roller chains as noted under **"Lubrication Points"** starting on page 24.
7. Store Seeder on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer seeder life.
8. Follow all unhooking instructions. Refer to **"Unhook Seeder"** on page 15.
9. When in storage, make sure rear roller pin is in parking position and then lower the seeder with packing rollers on a board or hard surface. (See Figure 2-7, page 15.)



Adjustment Levers
Figure 4-1

Ordering Replacement Parts

Land Pride offers equipment in factory standard Beige with black highlights. This implement is also available in Orange.

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

82 Orange 85 Black

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



Lubrication Points

Lubrication Legend



Multi-purpose
spray lube



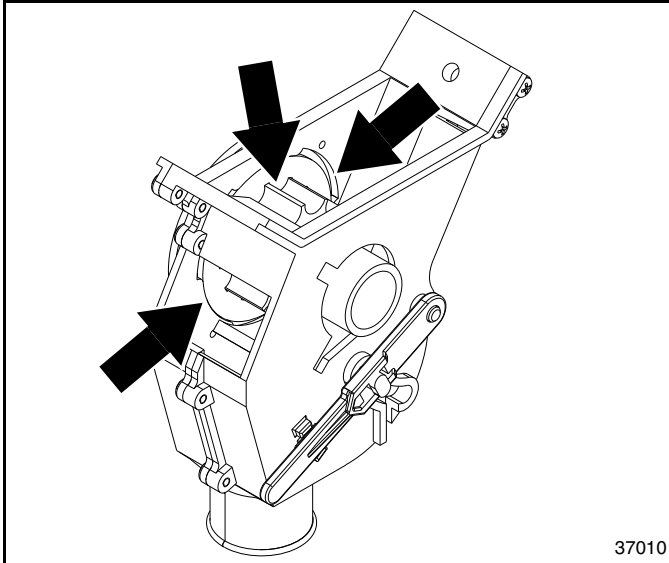
Multi-purpose
grease lube



Multi-purpose
oil lube



Intervals in hours at which
lubrication is required



**Graphite
Powder**



**As
Needed**

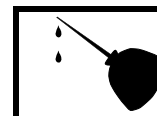
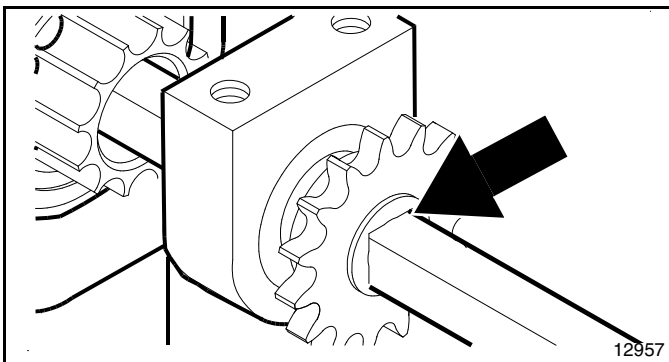
Seed Cup Sprockets & Nylon Washers

IMPORTANT: DO NOT use petroleum lubricant on plastic seed cups. Petroleum will absorb into the plastic and swell plastic components.

NOTE: Cleaning seed cups seasonally is often all that is required to keep seed cups working properly. Remove seed from seed box and seed cups. Rinse each seed cup thoroughly with water spray from a garden hose. Allow seed cups to air dry completely before putting seeder back into service.

Type of Lubrication: Graphite Powder
Land Pride # 821-042C (1 lb. Container)

Quantity = Mix as needed, 1 teaspoon of powdered graphite for every bushel of seed in the seed box.



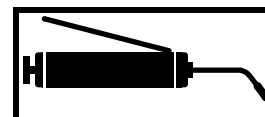
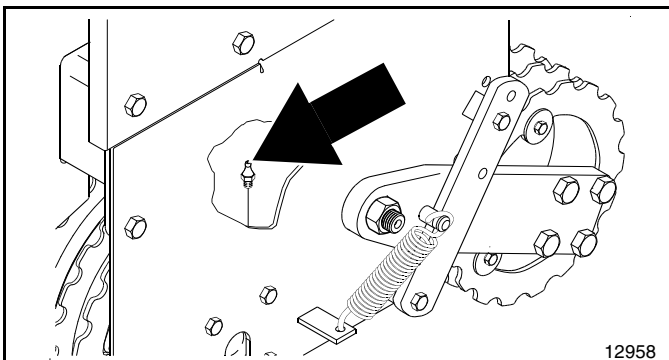
**50
Hours**

Feed Cup Drive Shaft

Type of Lubrication: Oil

Quantity = Generously

IMPORTANT: DO NOT use petroleum lubricant on the plastic seed cups. Petroleum will absorb into the plastic and swell the plastic components. Mix talc with seed to lubricate the plastic seed cups.

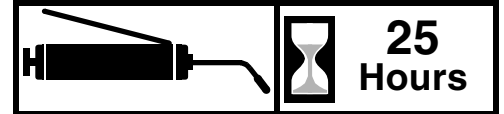
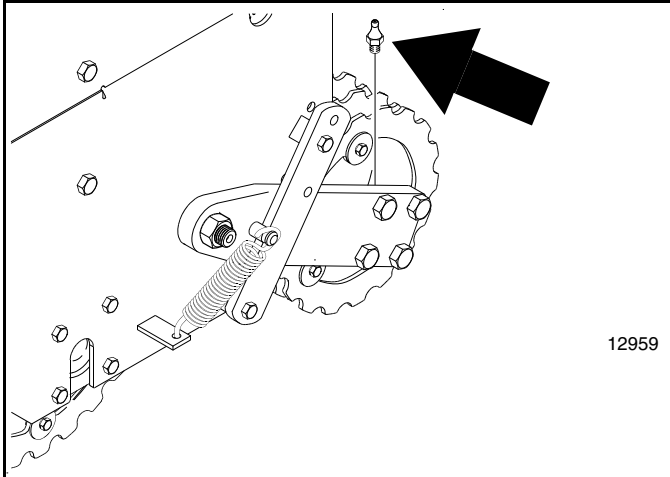


**25
Hours**

Roller Bearings

Type of Lubrication: Multi-Purpose

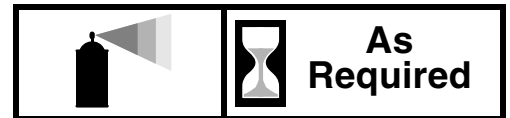
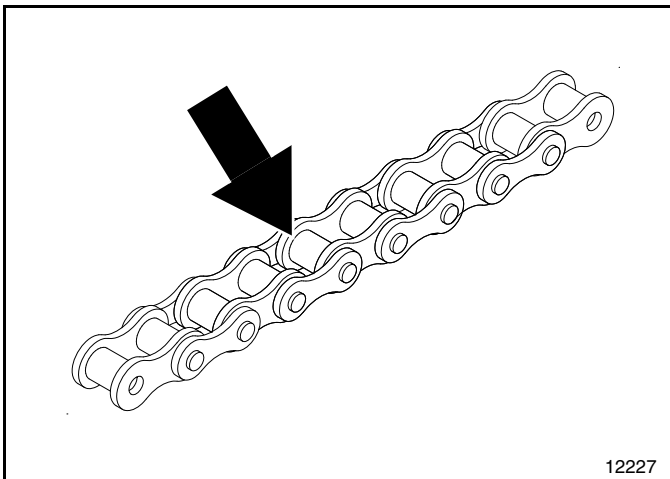
Quantity = Coat Generously



Roller Bearings

Type of Lubrication: Multi-Purpose

Quantity = Coat Generously



Packer Roller to Seed Cup Roller Chains (3 chains)

Type of Lubrication: Chain Lubricant

Quantity = Generously

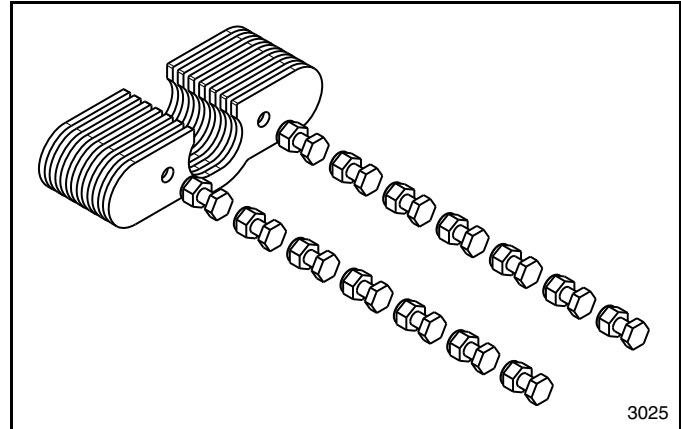
Section 5: Accessory

Agitation Extension Kit (Accessory)

Refer to Figure 5-1:

Extended agitator paddles can be added to your existing paddles in the main seedbox to help break-up bridging of light fluffy seed across the seedbox discharge opening. See your nearest Land Pride dealer to order the correct kit for your seeder.

313-505A Agitator Extension Kit, 72" Box Width

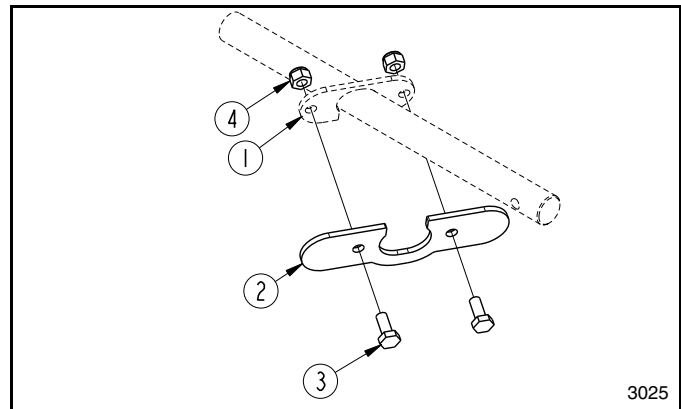


**Agitator Extension Kit
Figure 5-1**

Refer to Figure 5-2:

Install extended agitator paddles to existing paddles in the main seedbox as follows:

1. Attach extension paddles (#2) to existing paddles as shown with 1/4"-20 x 5/8" GR5 cap screws (#3) and hex nylock nuts (#4).
2. Tighten all nylock nuts to the correct torque.



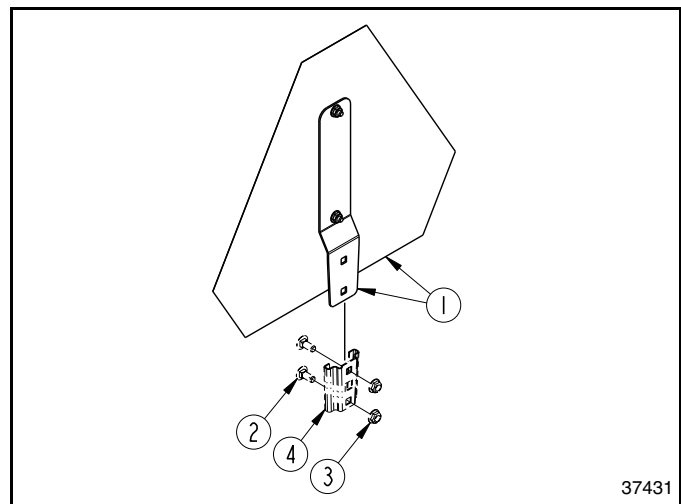
**Assembly of Agitator Extension Paddles
Figure 5-2**

Slow Moving Vehicle Sign (Accessory)

Refer to Figure 5-3:

Land Pride offers as an accessory the SMV sign with attached mounting blade (#1) should your tractor not be equipped with a removable SMV sign or should your SMV sign not fit Land Pride's SMV mounting socket (#4). Also, mounting components (#2, #3, & #4) can be purchased from your nearest Land Pride dealer should you want to mount this SMV sign on another piece of equipment.

Item	Part No.	Description
1	316-362S	SMV Sign
2	802-092C	RHSNB 5/16-18X3/4 GR5
3	803-177C	NUT HEX FLG TP LK 5/16-18ZNYCR
4	890-401C	SMV MOUNTING SOCKET

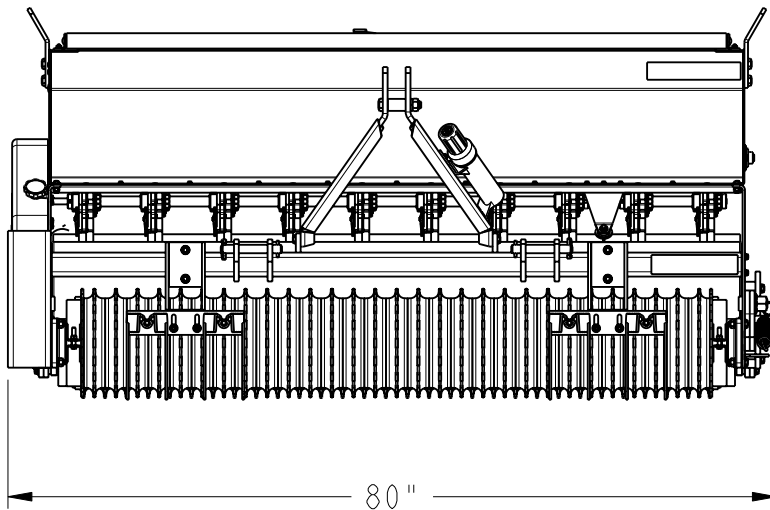


**Slow Moving Vehicle Sign
Figure 5-3**

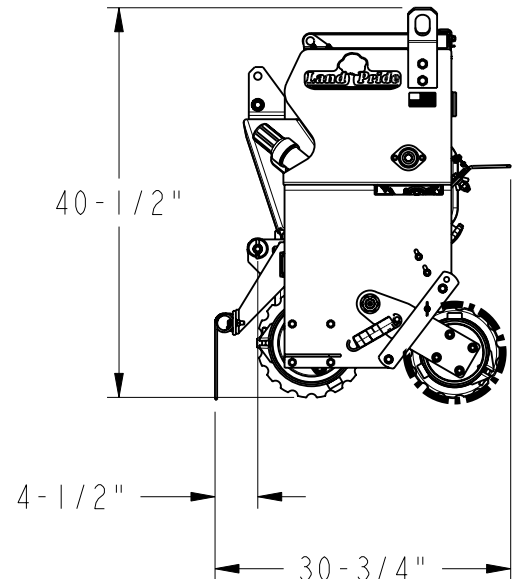


Model PS1572

Specifications & Capacities	
Tractor Horsepower	25-60 Horsepower
Seeding Width (Broadcast)	70 1/2"
Overall Width	79 1/8"
Overall Height	38 7/8"
Overall Length	29 3/4"
Empty Weight	1165#
Seedbox Capacity	1 Bushel/Foot (6 bushel)
3-Point Tractor Hitch	Category 1; Quick Hitch Adaptable
Main Seedbox Construction	Continuous welded for water tight construction
Lid construction	Heavy duty precision fit with seed splash guard
Ground Drive Metering	Driven from right side of front roller with #40 Roller chain
Seed Cup Drive	Chain Driven from right side of front roller
Seed Cup Agitation	Chain driven paddle type agitators above seed cups
Seed Cups	10 Fluted cups for Accurate Metering
Seed Settings	Wide range of calibration
Seed Drop	Wind guarded
Track Removers	Double torsion spring height adjustable and replaceable Two each
Bed Forming Front Packer Rollers	12" OD notched, cast iron, 29 each with free floating mounting tube and 1 1/2" sealed greasable bearings
Rear Packer Rollers	9 1/2" OD notched, cast iron, 30 each with free floating mounting tube and 1" greasable bearing mounted on pivoting spring loaded arms
Incandescent signal lights 7 Pin connector	SAE J560 pin configuration



21496





PS1572 Model







Features	Benefits
Cat. 1 Hitch	Fits Land Pride Quick Hitch for easy one person hook-up to tractor.
70 1/2" Seeding width	Perfect size for landscape market. Sized for smaller areas such as between the curb and sidewalk or the new community park.
Approximate machine weight	1,165 lbs. Heavy weight helps seed to soil contact.
Lift hooks	Lift hooks on each side of the seedbox to attach chain or strap to for easy loading and unloading.
Heavy-duty lids with stay open support	Lids are precision fit to keep seeds dry and rodents out and they won't buckle or slam shut in high winds.
Seed splash guard	Seedbox lid has a guard to prevent seed from being spilled between lid and box.
Water tight Seedbox	All-welded seedbox construction. Keeps moisture out of the seedbox.
Easy seed box clean out	Seed flute is designed for easy clean out. Simply move the flute lever into the clean out position and all seeds will be removed.
Large seedbox capacity	One bushel per foot. Keeps filling to a minimum and increases productivity.
Grass seed cups	Grass seed model uses 10 proven fluted seed cups for accurate seed rates.
Seed box agitator	Eliminates bridging of seed.
Powdered metal in fluted sprockets	Helps dissipate heat from the fluted area and plastic seed cup housing.
Wind guarded seed drop	Protects the seed from being blown away by windy conditions. Ensures constant placement of seed across the whole width of the machine.
Seed rate adjustment	Easy adjustment of seed rates. Lever position is located on seed rate chart.
Seed rate decal	Positioned on lid. Easy access to seed rate information.
High/Low seed settings	Easy adjustment on sprocket arrangement on seed cup drive. This allows for a very broad range of seed settings.
Ground driven metering	Front packer rollers are in constant contact with the ground to ensure consistent metering of seed. Seed metering stops automatically when front packer is raised off the ground.
Cast iron front packer rollers	12" diameter front rings and 9 1/2" diameter rear rings are used to crush the clods and pack the seed in to promote seed to soil contact.
Spring mounted rear packer rollers	Rear packer rollers are spring loaded for additional down pressure, and to stay in contact with the ground.
Tire track removers	Coil spring tine track removers keep their shape; one on 48" model, two on 72" model allows tractor tire(s) to be scratched out. Additional track removers can be added.
#40 Roller chain	All drives utilize #40 roller chain for smooth running.
Spring loaded chain idler	Spring loaded idler keeps constant pressure on chain so seeding rate is consistent.



Troubleshooting Chart

Problem	Solution
Uneven seed spacing or uneven stand.	Check for plugging in seed cup.
	Reduce ground speed.
	Check for trash or mud buildup on packer rollers.
Actual seeding rate is different than desired.	Seed treatment will affect seeding rate if the chemicals buildup in seed cup. Unless cleaned regularly, this buildup can cause breakage of the seed cup shaft.
Feed cup sprocket locked up or twisted feed cup drive shaft.	Check for foreign matter lodged in seed cup sprocket.
Packing rollers are not turning freely.	Check for trash or mud buildup on roller end.



Torque Values Chart for Common Bolt Sizes													
Bolt Size (inches)	Bolt Head Identification						Bolt Size (Metric)	Bolt Head Identification					
	 Grade 2	 Grade 5	 Grade 8	 Class 5.8	 Class 8.8	 Class 10.9							
in-tpi ¹	N · m ²	ft-lb ³	N · m	ft-lb	N · m	ft-lb	mm x pitch ⁴	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12	M 5 X 0.8	4	3	6	5	9	7
1/4" - 28	8.5	6	13	10	18	14	M 6 X 1	7	5	11	8	15	11
5/16" - 18	15	11	24	17	33	25	M 8 X 1.25	17	12	26	19	36	27
5/16" - 24	17	13	26	19	37	27	M 8 X 1	18	13	28	21	39	29
3/8" - 16	27	20	42	31	59	44	M10 X 1.5	33	24	52	39	72	53
3/8" - 24	31	22	47	35	67	49	M10 X 0.75	39	29	61	45	85	62
7/16" - 14	43	32	67	49	95	70	M12 X 1.75	58	42	91	67	125	93
7/16" - 20	49	36	75	55	105	78	M12 X 1.5	60	44	95	70	130	97
1/2" - 13	66	49	105	76	145	105	M12 X 1	90	66	105	77	145	105
1/2" - 20	75	55	115	85	165	120	M14 X 2	92	68	145	105	200	150
9/16" - 12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	215	160
9/16" - 18	105	79	165	120	235	170	M16 X 2	145	105	225	165	315	230
5/8" - 11	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245
5/8" - 18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" - 10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" - 16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" - 9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" - 14	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780
1" - 8	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845
1" - 12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1-1/8" - 7	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710
1-1/8" - 12	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700
1-1/4" - 7	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220
1-1/4" - 12	750	555	1680	1240	2730	2010	<div>¹ in-tpi = nominal thread diameter in inches-threads per inch</div> <div>² N · m = newton-meters</div> <div>³ ft-lb= foot pounds</div> <div>⁴ 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.													
All locknuts or lubricated fasteners: Use 75% of torque value. (i.e. 1/2"-13 GR5 = 76 ft-lb; 75% of 76 or .75 x 76 = 57 ft-lb)													



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: One year Parts and Labor

Packer Rollers: 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 such as blades, belts, tines, etc. 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
www.landpride.com
