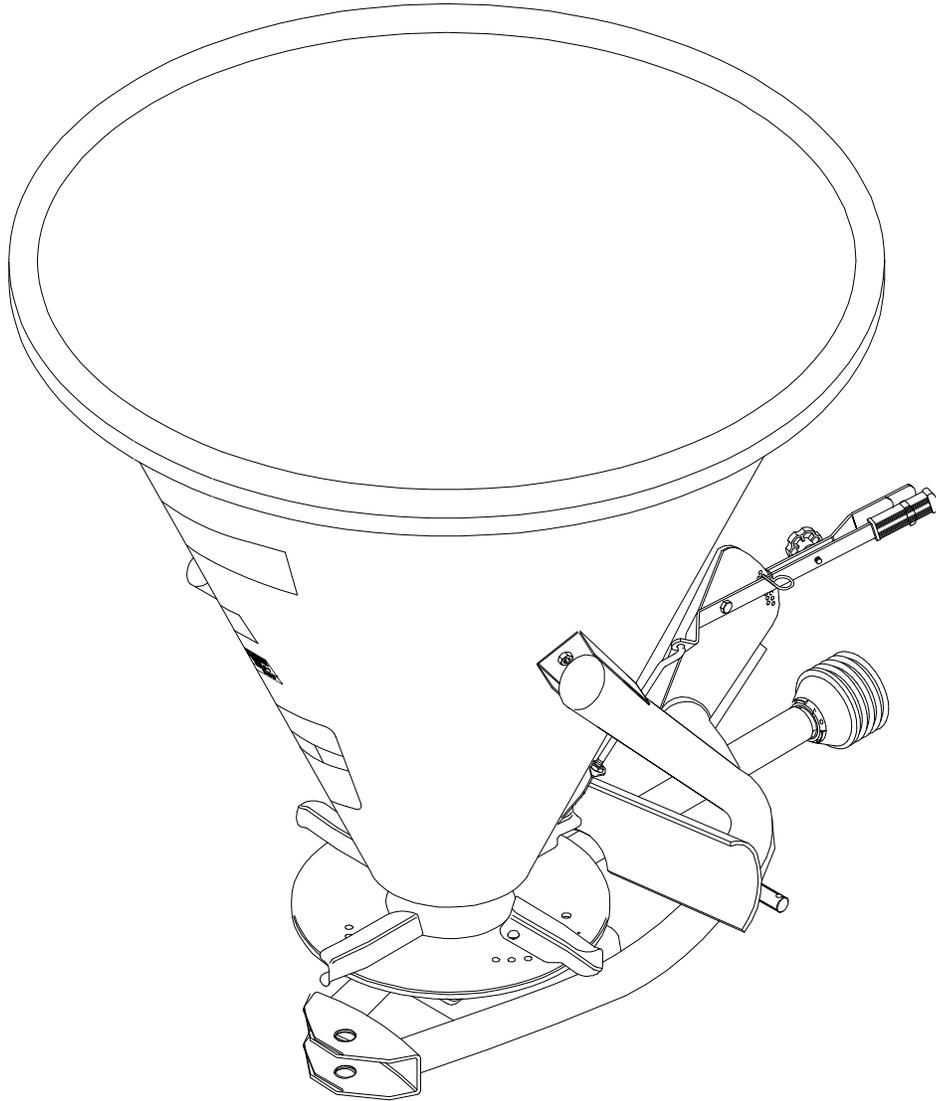


Broadcast Spreaders

FSP500, FSP700 & FSP1000

24974



309-065M 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:** Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands. For more information see www.P65Warnings.ca.gov/motor-vehicle-parts.



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Printed in the United States of America.



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See previous page for Table of contents.



Parts Manual QR Locator

The QR (Quick Reference) code on the 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 a safe and secure area where children normally do not play. When needed, secure implement against falling with support blocks.



Look for the Safety Alert Symbol

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

Be Aware of Signal Words

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

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

Be Aware of Special Notices

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

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

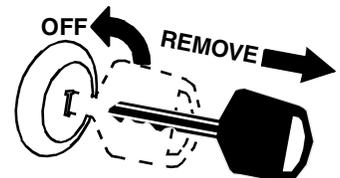
Safety Precautions for Children

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

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

Tractor Shutdown & Storage

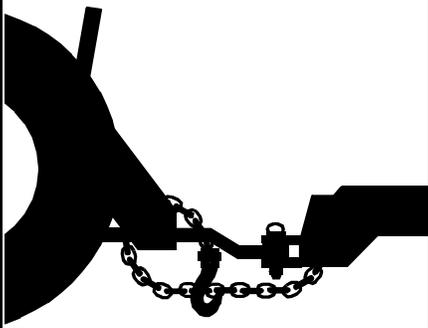
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic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



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

Use A Safety Chain

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



Transport Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- ▲ Sudden braking can cause a towed trailer to swerve unexpectedly. Reduce speed if towed trailer is not equipped with brakes.
- ▲ Avoid contact with any overhead 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 skid steer on the "uphill" side.
- ▲ Engage park brake when stopped on an incline.
- ▲ Maximum transport speed for an attached equipment 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.
- ▲ As a guideline, use the following maximum speed weight ratios for attached equipment:
 - 20 mph (32 km/h)** when weight of attached equipment is less than or equal to the weight of machine towing the equipment.
 - 10 mph (16 km/h)** when weight of attached equipment exceeds weight of machine towing equipment but not more than double the weight.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.



Tire Safety

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



Practice Safe Maintenance

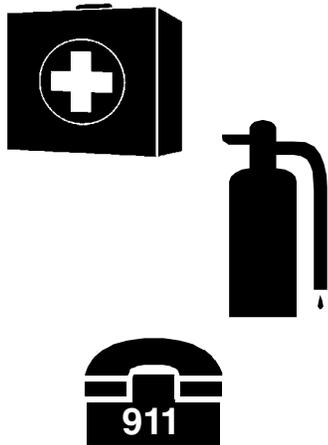
- ▲ Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- ▲ Work on a level surface in a clean dry area that is well-lit.
- ▲ Lower implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- ▲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



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

Prepare for Emergencies

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



Wear Personal Protective Equipment (PPE)

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



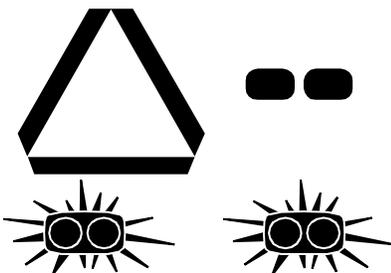
Avoid High Pressure Fluids

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



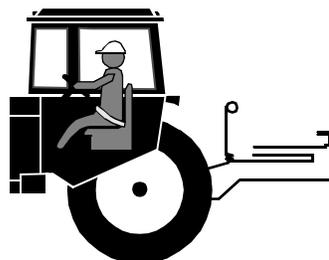
Use Safety Lights and Devices

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



Use Seat Belt and ROPS

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



Keep Riders Off Machinery

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



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

Avoid crystalline Silica (quartz) Dust

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

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



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

Handle Chemicals Properly

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



Dig Safe - Avoid Underground Utilities

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





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Important Safety Information

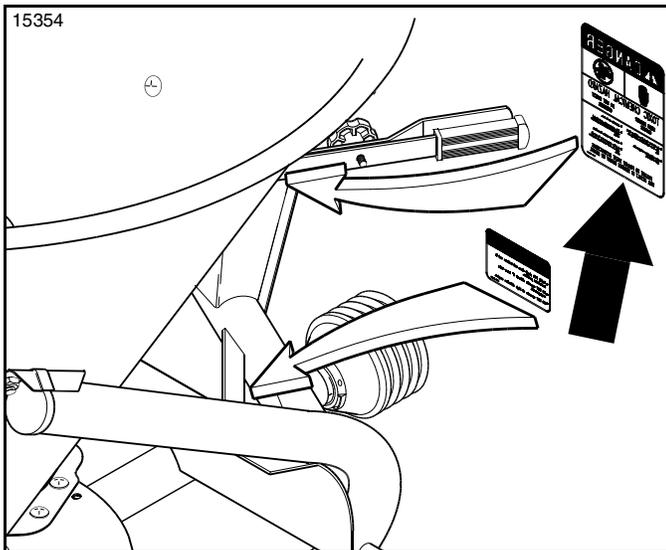
Safety Labels

Your broadcast Spreader 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.



DANGER

TOXIC CHEMICAL HAZARD

WEAR RUBBER
GLOVES

DO NOT INGEST
CHEMICAL

- Do not allow chemical or solution to touch skin. Some can be absorbed through the skin.
- Wear rubber gloves and protective gear at all times.
- Chemicals can be toxic.
- If in eyes or mouth, read chemical manufacturers instructions and follow exactly.
- Seek medical attention immediately.
- A poision control number is normally inside the front cover of your telephone book.

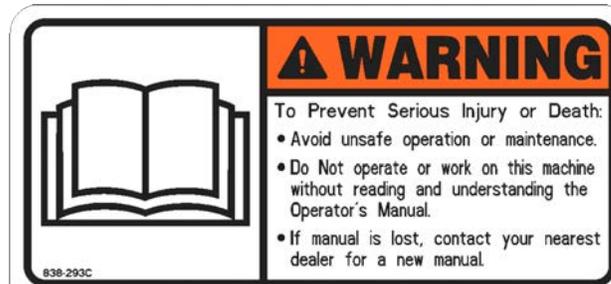
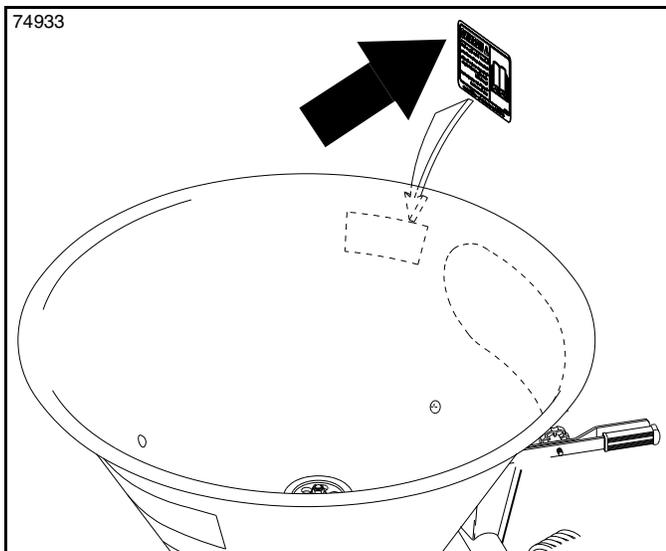
**FAILURE TO FOLLOW THESE INSTRUCTIONS
WILL RESULT IN SERIOUS INJURY OR DEATH.**

818-541C

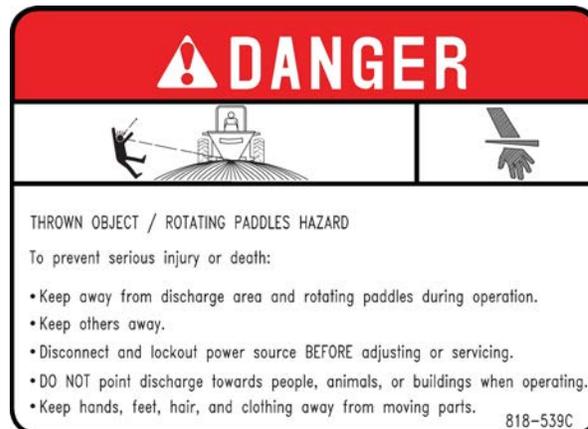
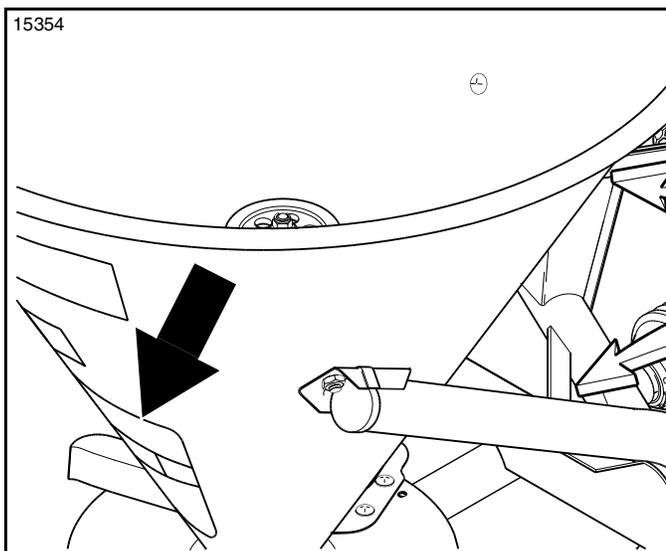
818-541C

Danger: Toxic Chemical Hazard

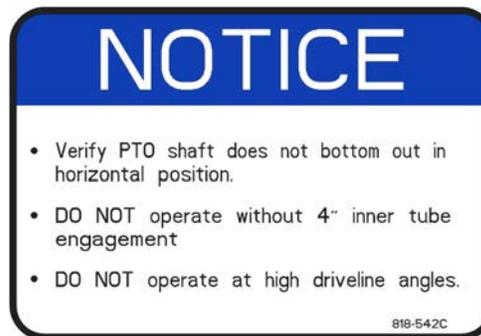
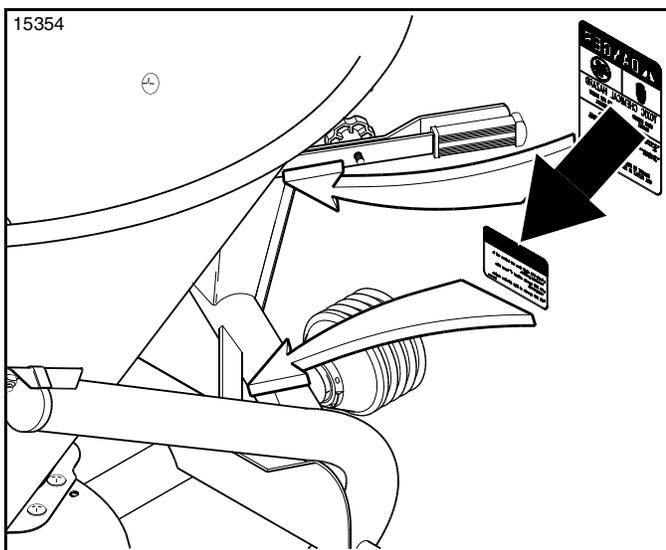
1 Place: On the front of the hopper



838-293C
Warning: Read Operator's Manual - General Warning
1 Place: On the front of the hopper

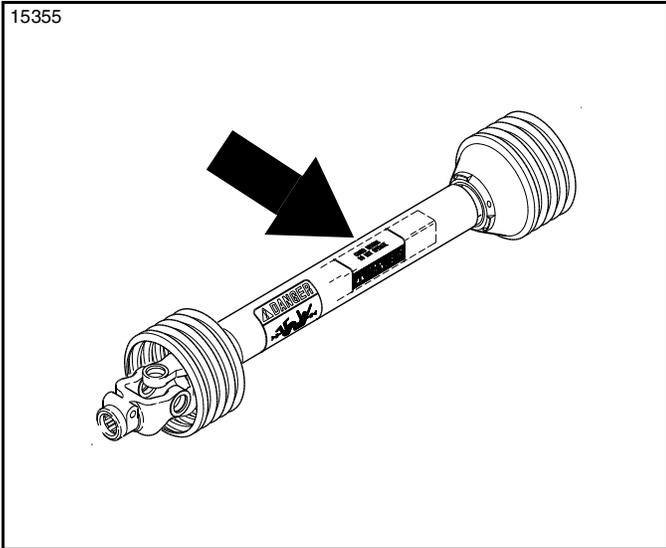


818-539
Danger: Thrown Object / Rotating Paddles Hazard
1 Place: On the back of the hopper



818-542C
Notice: Power Take-off
1 Place: On the driveline

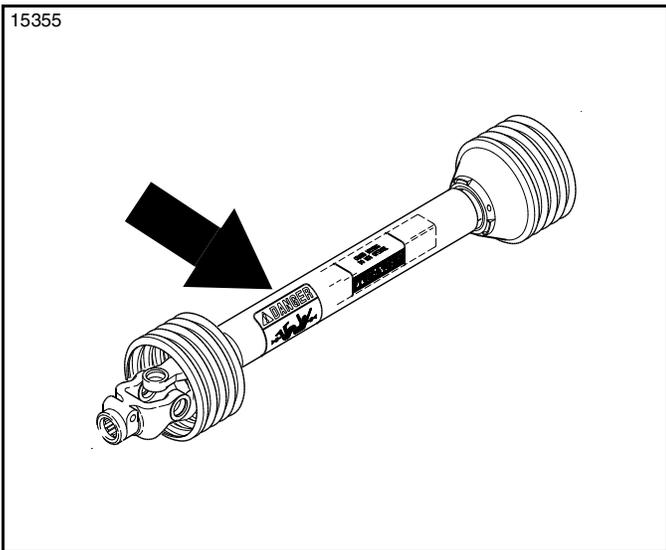
Important Safety Information



70374

818-540C

Danger: Guard Missing - DO NOT Operate
1 Place: On the outer driveline profile



70375

818-552C

Danger: Rotating Driveline - Keep Away
1 Place: On the outer driveline shield



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Introduction

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

Application

The Land Pride FSP500, FSP700, and FSP1000 are rotary/spin type broadcast spreaders designed for Category 1, three-point hitch mounting. They are capable of spreading seed, sand, salt, top dressings, lime, prilled/granular fertilizer, and most all other types of granular materials at delivery rates ranging from 43-890 lbs. per acre and 49 to 998 kgs/hectare. (Depending on material) Agitator extension comes standard. Each of these models offer specific hopper capacities:

FSP500	350 lbs/5.85 ft ³	(159 kgs/0.17m ³)
FSP700	563 lbs/9.18 ft ³	(255 kgs/0.26m ³)
FSP1000	673 lbs/11.22 ft ³	(305 kgs/0.32m ³)

The spread rate capability and range of hopper capacities make the Land Pride Broadcast Spreaders well suited for applications on farms, golf courses, food plots, park systems, athletic fields, and large campuses. They also work well for smaller municipal or commercial applications of salt and sand for snow and ice control.

See “**Specifications & Capacities**” on page 29 and “**Features & Benefits**” on page 30 for additional information and performance enhancing options.

Using This Manual

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

Terminology

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

Owner Assistance

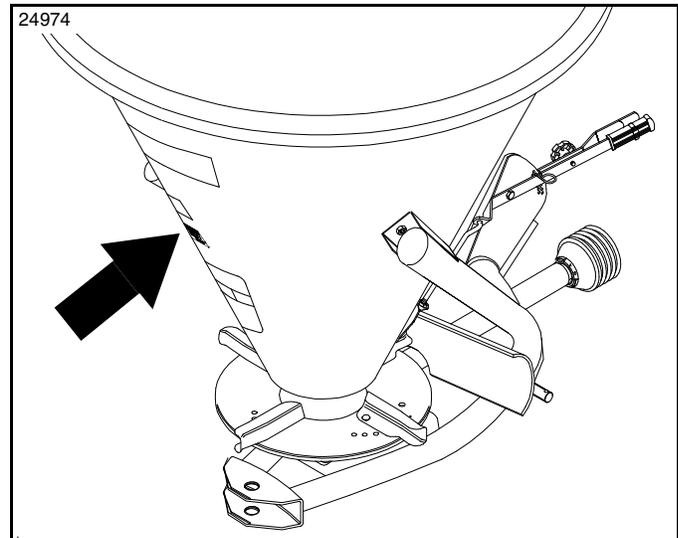
The dealer should complete the Online Warranty Registration at the time of purchase. This information is necessary to provide you with quality customer service

The parts on your Broadcast Spreader 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 Broadcast Spreader. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

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

Land Pride Service Department
1525 East North Street

P.O. Box 5060
Salina, Ks. 67402-5060

E-mail address
lpSERVICE@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. 3-Point arms should be stabilized to prevent side-to-side movement.

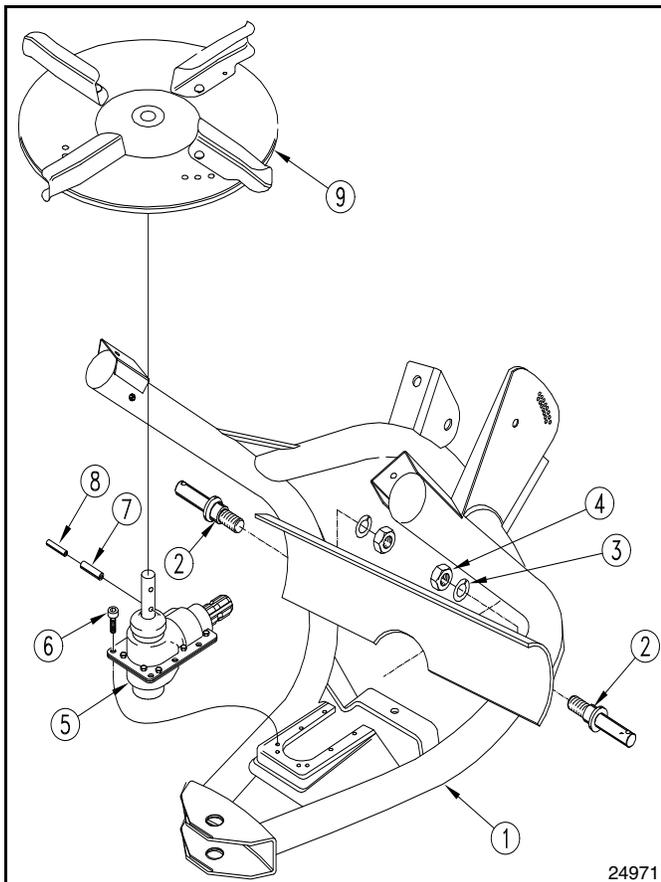
Rear Power Requirement Must be capable of 540 rpm
 Hitch Type 3-Point Cat. 1
 Spline Size..... 1 3/8" - 6

NOTE: Ballast may need to be added to your tractor to maintain steering control. Refer to your tractor's manual to determine if additional ballast is needed.

Gearbox & Spreader Disc Assembly

Refer to Figure 1-1:

1. Attach lower link pins (#2) to main frame (#1) with lock washers (#3) and nuts (#4). Tighten nuts to the correct torque.
2. Install gearbox (#5) to main frame with six #8 x 16 hex socket cap screws (#6). Tighten cap screws to the correct torque.
3. Install spreader disc (#9) over gearbox (#5) output shaft and secure with M8 x 14 spring pin (#7). Insert a second M5 x 40 spring pin (#8) inside the M8 pin.

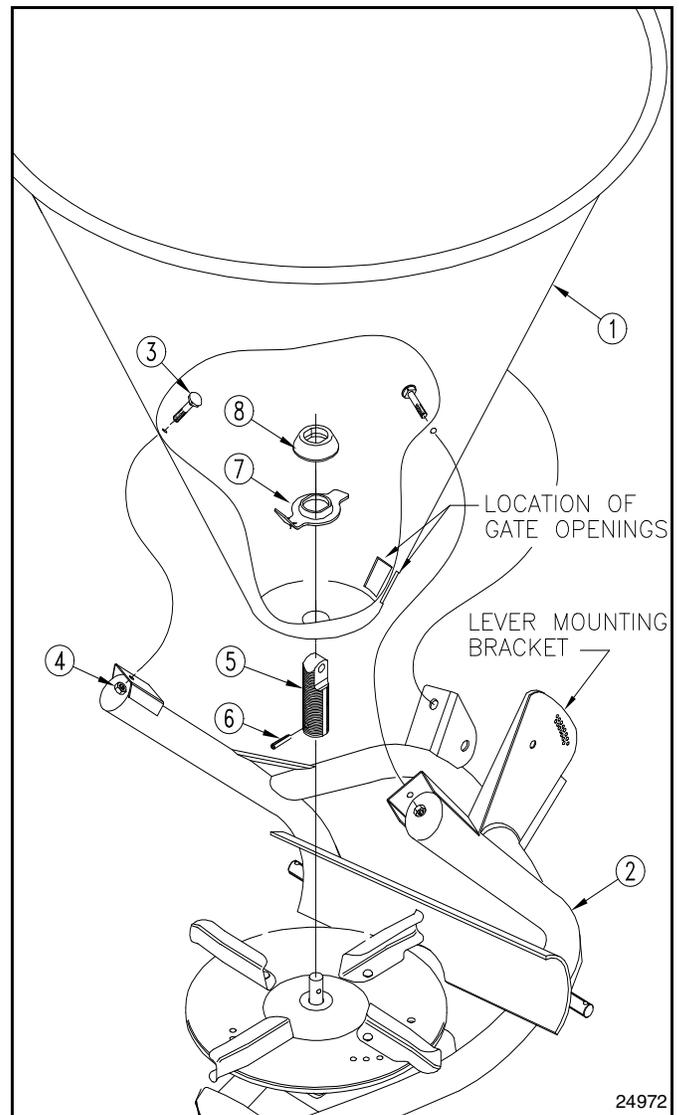


**Gearbox and Spreader Disc Assembly
 Figure 1-1**

Poly Hopper Assembly

Refer to Figure 1-2:

1. Attach entrainer (#5) to gearbox output shaft with M8 x 14 spring pin (#6). Be sure to drive spring pin all the way in.
2. Orient poly hopper with gate openings positioned on both sides of the lever mounting bracket.
3. Attach poly hopper (#1) to main frame (#2) with three M10 x 20 round head cap screws (#3) and M10 nut (#4).
4. Insert lower agitator (#7) over entrainer (#5).
5. Insert rubber ring (#8) over entrainer and press down against agitator (#7) until agitator is against hopper bottom.



**Poly Hopper Assembly
 Figure 1-2**

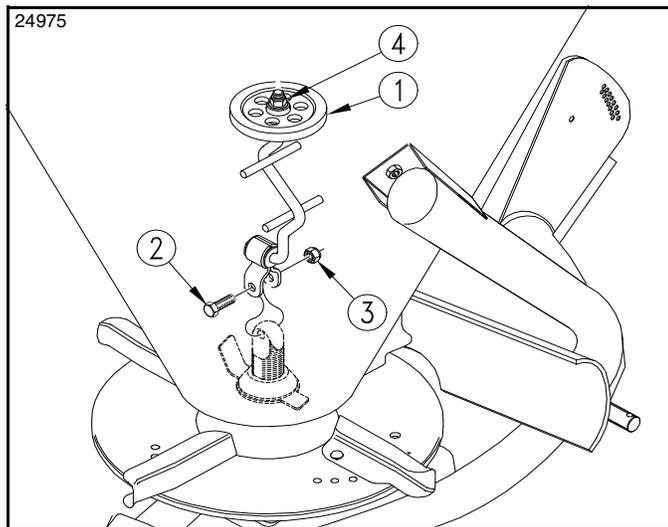
Section 1: Assembly & Set-up

Agitator Assembly

Refer to Figure 1-3:

IMPORTANT: Agitator should only be used with light fluffy material such as grass seeds. Do not use with heavy dense materials such as fertilizer, salt, and sand. Doing so can break the agitator.

1. Check buffer wheel (#1) to make sure it spins freely on the agitator. Slightly loosen hex locking nut (#4) if wheel does not spin freely.
2. Attach upper agitator (#1) to entrainer with M12 x 55 hex head cap screw (#2). Secure with M12 hex locking nut (#3). Draw locknut up snug. Do not tighten.

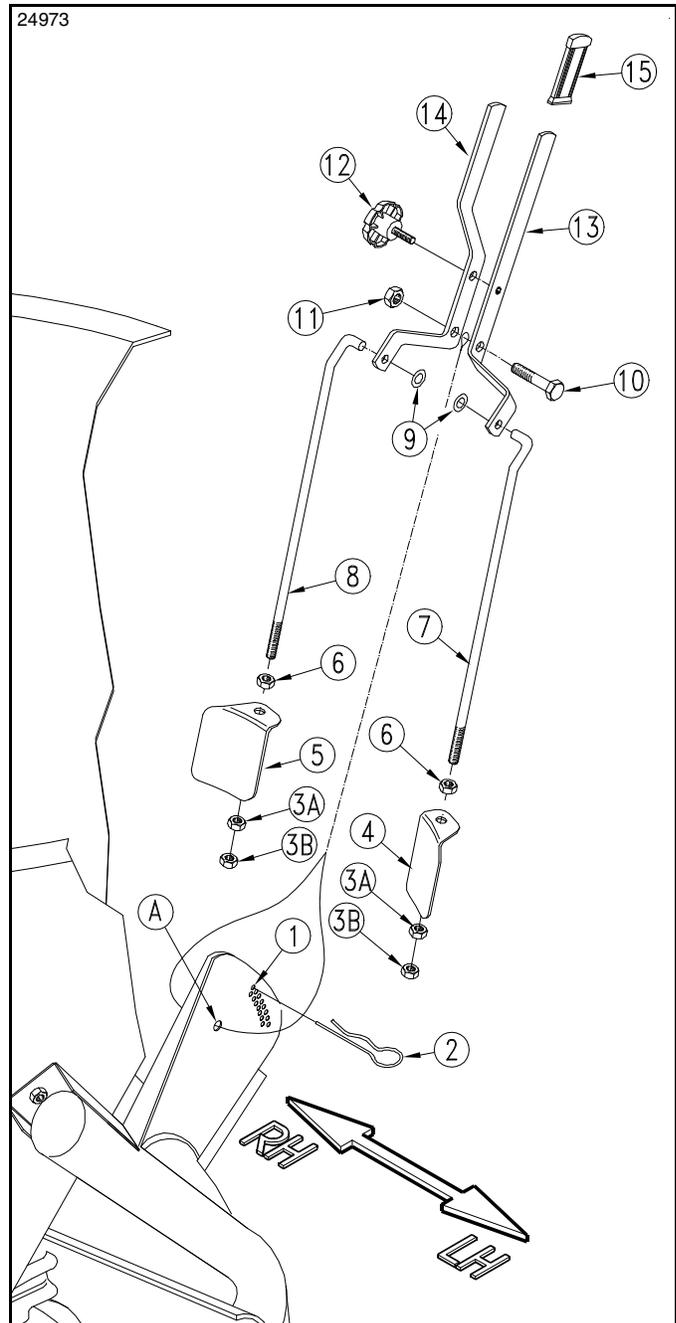


Agitator Assembly
Figure 1-3

Gate Lift Assembly

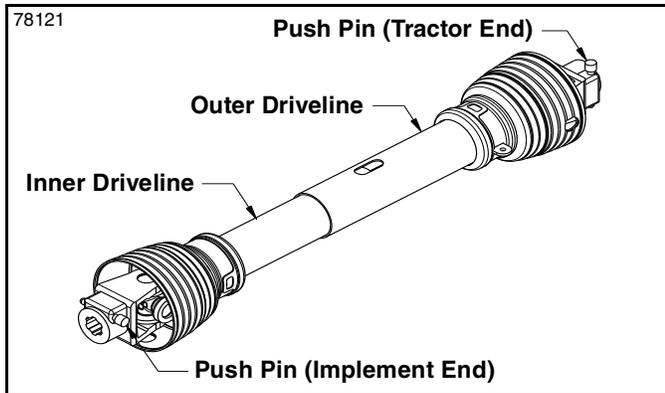
Refer to Figure 1-4:

1. Thread M10 hex nut (#6) onto right and left lift rods (#7 & #8). Run nuts up the rods approximately 1" (25.5 cm).
2. Insert left lift rod (#7) into left gate (#4) and secure with two M10 hex nuts (#3). Do not tighten nuts.
3. Insert right lift rod (#8) into right gate (#5) and secure with two M10 hex nuts (#3). Do not tighten nuts.
4. Slide left and right gates into the gate opening guides located in back of the poly hopper. Guides not shown.
5. Attach left adjustment lever (#13) and right adjustment lever (#14) to lever mounting bracket hole (A) with M12 x 35 hex head cap screw (#10) and M12 hex (#11). Draw up snug.
6. Install adjustment lever locking knob (#12) as shown. Do not tighten knob.
7. Attach left lift rod (#7) to left adjustment lever (#13) and secure with M10.5 x 21 washer (#9).
8. Attach right lift rod (#8) to right adjustment lever (#14) and secure with M10.5 x 21 washer (#9).
9. Raise levers (#13 & #14) above hole (#1) and insert hair pin (#2) in hole (#1).
10. With levers (#13 & #14) resting against hair pin (#2), tighten adjustment lever locking knob (#12).
11. Adjust gates (#4 & #5) closed and tighten M10 hex nuts (#3A & #6).
12. Hold nuts (#3A) from moving and tighten hex jam nuts (#3B) against nuts (#3A).



Gate Lift Assembly
Figure 1-4

Section 1: Assembly & Set-up



Driveline Installation
Figure 1-5

Driveline Installation

Refer to Figure 1-5:

1. Push in on the inner driveline push pin and slide driveline yoke over the implement's gearbox input shaft.
2. Release inner yoke push pin and continue to slide the inner yoke onto the implement's input shaft until the push pin pops out.
3. Pull on the driveline yoke to make sure it is securely fastened to the input shaft.
4. Collapse driveline by pushing on the tractor end of the driveline toward the implement's gearbox.

Tractor 3-Point Hook-up

⚠ DANGER

To avoid serious injury or death:

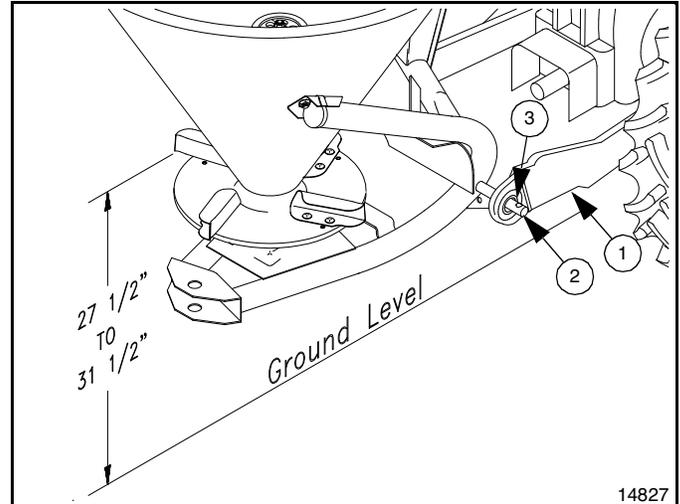
All guards and shields must be installed and in good working condition while operating the implement.

⚠ WARNING

To avoid serious injury or death:

- Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator's Manual to determine proper weight requirements and maximum weight limitations.
- Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.

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



Tractor 3-Point Hook-Up
Figure 1-6

Refer to Figure 1-6:

1. Slowly back tractor up to the Broadcast Spreader while using tractor's 3-Point hydraulic control lever to align hitch holes in lower arms (#1) with lower hitch pins (#2).
2. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
3. Ensure that the lower hitch arms are blocked to prevent excessive side movement.
4. With tractor's lower hitch arms aligned and positioned correctly, attach arms (#1) to hitch pins (#2) and secure with linchpins (#3).
5. (Not shown) Connect top center link to upper pivot hitch using customer supplied clevis pin and linchpin.
6. Return to tractor and slowly operate controls up and down to make sure the spreader clears tractor tires, frame and drawbar. Move or remove the drawbar if it interferes with the spreader.
7. Adjust 3-Point hitch so that the spreader disc is horizontal and between 27 1/2" and 31 1/2" (70-80 cm) above ground level.
 - a. Manually adjust one of the two lower lift arms up or down to level the Broadcast Spreader from left to right.
 - b. Raise or lower tractor 3-Point lift until spreader disc is between 27 1/2" and 31 1/2" (70-80 cm) above ground level.
 - c. Manually adjust length of top-link to level Broadcast Spreader from front to rear.
 - d. Repeat steps 7b and 7c above as needed until spreader is level when at a height of 27 1/2" to 31 1/2" (70-80 cm) above ground.
 - e. Set 3-Point control lever stop to support the spreader at this height.



Section 1: Assembly & Set-up

Driveline Hook-up

DANGER

To avoid serious injury or death:

- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline.
- All guards and shields must be installed and in good working condition while operating the implement.
- Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.
- Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably.

WARNING

To avoid serious injury or death:

- Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor.
- Check driveline when lowering implement to make sure it does not interfere with the tractor drawbar at maximum depth. If needed, shut tractor off and move or remove drawbar to prevent driveline damage.
- 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.
- Some tractors are equipped with two power take-off speeds. Be certain your tractor's power take-off shaft is set-up to operate at 540 rpm. Do not exceed 540 rpm power take-off speed. Excessive speed can damage drive/driven components and increase the risk of a thrown object hazard.

IMPORTANT: The drivelines must be lubricated before putting them into service. Refer to "Lubrication Points" on page 28.

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

IMPORTANT: Check driveline minimum collapsible length before completing "Driveline Hook-up". Structural damage to the tractor and spreader can occur if this check is not made. Refer to "Check Driveline Collapsible Length" on page 15.

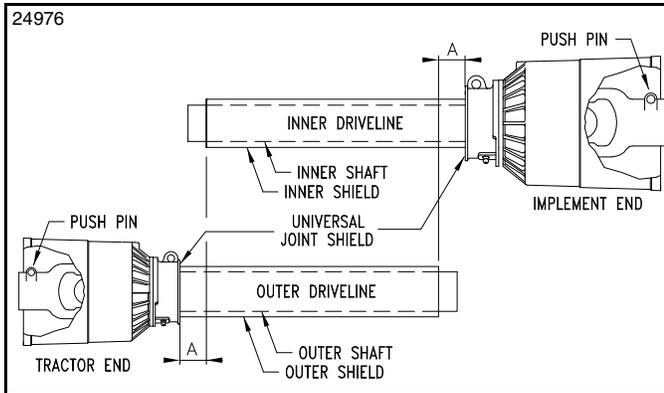
IMPORTANT: If tractor drawbar interferes with the driveline during hook-up, disconnect driveline and move drawbar forward, to the side, or remove.

1. If driveline collapsible length has not been checked, go to "Check Driveline Collapsible Length" on page 15. Otherwise, continue with step 2 below.
2. Shut tractor down before dismounting. Refer to "Tractor Shutdown Procedure" on page 19.

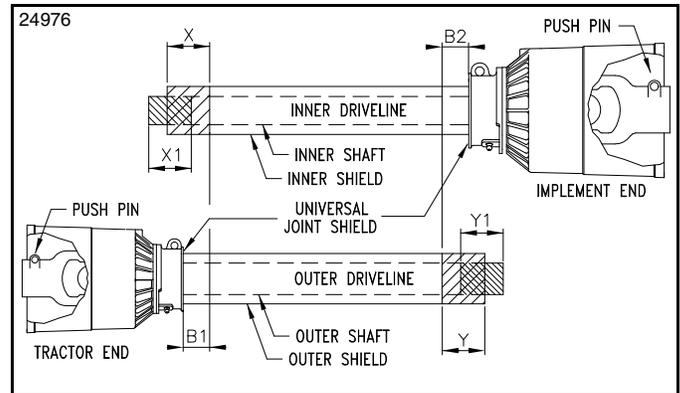
Refer to Figure 1-7 on page 15:

3. Push in on the outer driveline push pin and push driveline yoke onto the tractor power take-off shaft. Release pull collar and continue to push driveline yoke forward until pull collar locks in place.
4. Pull on driveline yokes at the tractor and implement end to make sure it is secured to the tractor's power take-off shaft and implement gearbox shaft.
5. Continue with "Check Driveline Interference" on page 17.

Section 1: Assembly & Set-up



Check Driveline Minimum Length
Figure 1-7



Shorten Driveline Length
Figure 1-8

Check Driveline Collapsible Length

All subcompact tractors and Kubota BX tractors require a shorter driveline. If the tractor is a subcompact or Kubota BX, skip to “**Check Subcompact Tractor fit-up**” on page 16. Otherwise, continue with “**Check Standard Tractor Fit-up**” below.

Check Standard Tractor Fit-up

Refer to Figure 1-5:

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

1. With driveline attached only to the spreader, remove outer driveline (tractor end) from inner driveline to separate the two profiles.
2. Park tractor and spreader on a level surface.
3. Raise spreader until gearbox input shaft is level with tractor power take-off shaft. Securely block spreader at this height to keep the unit from lowering.
4. With spreader resting on the support blocks, shutdown tractor using “**Tractor Shutdown Procedure**” on page 19.
5. Attach outer driveline half to the tractor’s power take-off shaft. Refer to “**Driveline Hook-up**” on page 14.
6. Hold inner and outer drivelines parallel to each other as shown in Figure 1-5. Measure dimension “A.”
 - If “A” is less than 1" (2.5 cm), continue with step 7.
 - If “A” is greater than or equal to 1" (2.5 cm), skip to “**Assemble Inner & Outer Driveline Halves**” on this page.

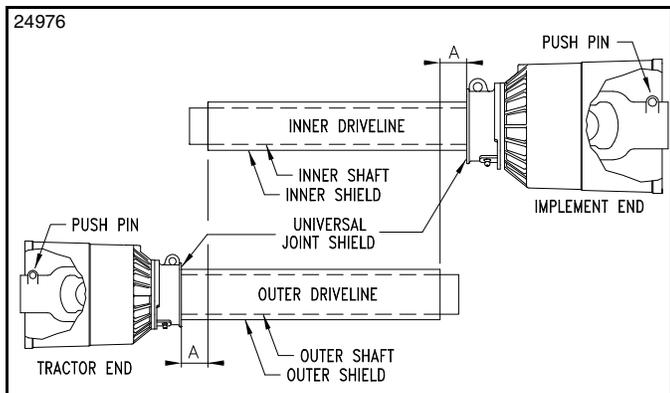
Refer to Figure 1-8:

7. Shorten driveline as follows:
 - a. Measure 1" (2.5 cm) (“**B1**” dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.
 - b. Measure 1" (2.5 cm) (“**B2**” dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.
8. Remove outer driveline from the tractor’s power take-off shaft and inner driveline from the spreader’s gearbox shaft.
9. Cut off non-yoke end of inner driveline as follows:
 - a. Measure from end of inner shield to scribed mark (“**X**” dimension) and record.
 - b. Cut off inner shield at the mark. Cut same amount off the inner shaft (“**X1**” dimension).
10. Cut off non-yoke end of outer driveline as follows:
 - a. Measure from end of outer shield to scribed mark (“**Y**” dimension) and record.
 - b. Cut off outer shield at the mark. Cut same amount off the outer shaft (“**Y1**” dimension).
11. Remove all burrs and cuttings.
12. Continue with “**Assemble Inner & Outer Driveline Halves**” below.

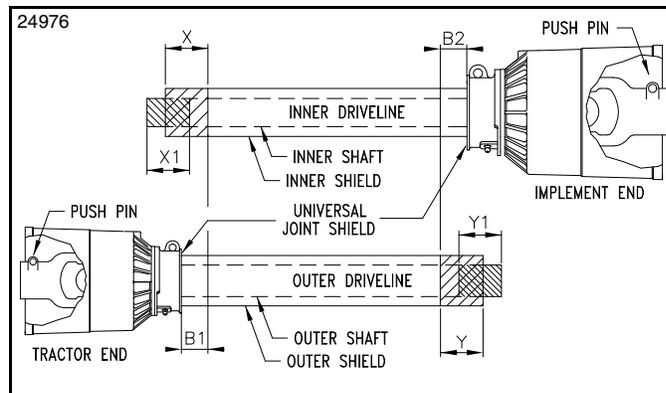
Assemble Inner & Outer Driveline Halves

Refer to Figure 1-8:

1. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline halves.
2. If removed, reattach the driveline to the implement. Refer to “**Driveline Installation**” on page 13.
3. Without removing the support blocks, continue with “**Driveline Hook-up**” on page 14.



Check Driveline Minimum Length
Figure 1-9



Shorten Driveline Length
Figure 1-10

Check Subcompact Tractor fit-up

Use instructions below when hooking-up a subcompact tractor or Kubota BX tractor. If the tractor is a standard size tractor, go to “**Check Standard Tractor Fit-up**” on page 15.

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

Refer to Figure 1-9:

1. With driveline attached only to the spreader, remove outer driveline (tractor end) from inner driveline to separate the two profiles.
2. Park tractor and spreader on a level surface.
3. Raise spreader until gearbox input shaft is level with tractor power take-off shaft. Securely block spreader at this height to keep the unit from lowering.
4. With spreader resting on the support blocks, shutdown tractor using “**Tractor Shutdown Procedure**” on page 19.
5. Attach outer driveline half to the tractor’s power take-off shaft. Refer to “**Driveline Hook-up**” on page 14.
6. Hold inner and outer drivelines parallel to each other as shown in Figure 1-5. Measure dimension “A.”
 - If “A” is less than 2” (5 cm), continue with step 7.
 - If “A” is greater than or equal to 2” (5 cm), skip to “**Assemble Inner & Outer Driveline Halves**” on this page.

Refer to Figure 1-10:

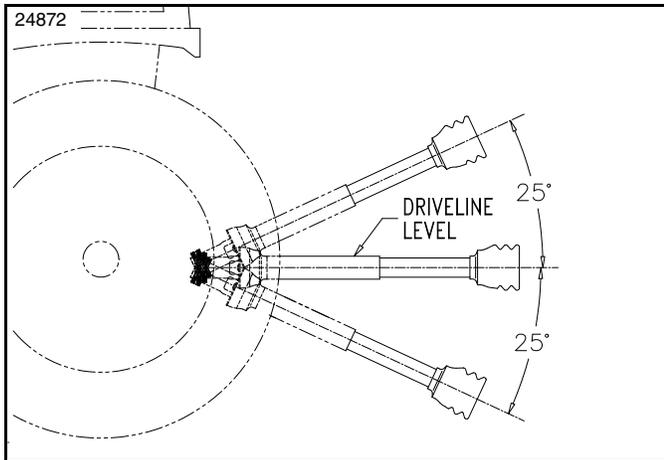
7. Shorten driveline as follows:
 - a. Measure 2” (5 cm) (“**B1**” dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.
 - b. Measure 2” (5 cm) (“**B2**” dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.
8. Remove outer driveline from the tractor’s power take-off shaft and inner driveline from the spreader’s gearbox shaft.
9. Cut off non-yoke end of inner driveline as follows:
 - a. Measure from end of inner shield to scribed mark (“**X**” dimension) and record.
 - b. Cut off inner shield at the mark. Cut same amount off the inner shaft (“**X1**” dimension).
10. Cut off non-yoke end of outer driveline as follows:
 - a. Measure from end of outer shield to scribed mark (“**Y**” dimension) and record.
 - b. Cut off outer shield at the mark. Cut same amount off the outer shaft (“**Y1**” dimension).
11. Remove all burrs and cuttings.

Assemble Inner & Outer Driveline Halves

Refer to Figure 1-10:

1. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline halves.
2. If removed, reattach the driveline to the implement. Refer to “**Driveline Installation**” on page 13.
3. Without removing the support blocks, continue with “**Driveline Hook-up**” on page 14.

Section 1: Assembly & Set-up



Maximum driveline Movement During Operation
Figure 1-11

Check Driveline Interference

Refer to Figure 1-11:

WARNING

To avoid serious injury or death:

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

1. Start tractor and slowly fully raise implement while watching to make sure the driveline does not bottom out. Stop raising implement immediately if driveline does start to bottom out. If the driveline does bottom out while being raised, shorten the driveline further or limit the height the seeder can be raised.
2. With the implement fully raised, back implement over the support blocks used to “**Check Driveline Collapsible Length**” on page 15 or to “**Check Subcompact Tractor fit-up**” on page 16.
3. Without changing 3-point lift height, shut tractor down before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 19.
4. Check driveline angle to make sure it does not exceed 25° above horizontal.
5. If the 25° limit was exceeded, adjust tractor 3-point lift limiter to the height that will keep the driveline within the recommended limit. If left lever does not have a lift height limiter, make a mark with tape or other means to indicate maximum lift height.
6. If needed, repeat steps 1-5 until the maximum lift height can be maintained.
7. Start tractor, raise implement slightly, and drive forward enough to clear the support blocks.
8. Lower implement to ground and shut tractor down before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 19.



Section 2: Operation

Operating Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Broadcast Spreader. Therefore, it is absolutely essential that no one operates the spreader unless they have read, fully understood, and are totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, page 1
- **Section 1: Assembly & Set-up**, page 11
- **Section 2: Operation**, page 18
- **Section 3: Adjustments**, page 22
- **Section 5: Maintenance**, page 27

Perform the following inspections before using your spreader.

Operating Checklist

✓	Check	Page
	Read "Important Safety Information".	1
	Make sure all guards and shields are in place.	1
	Read "Tractor 3-Point Hook-up" instructions.	13
	Read "Operating Instructions".	18
	Lubricate the spreader as needed. Refer to <i>Lubrication</i> .	28
	Check the spreader initially and periodically for loose bolts and pins, <i>Torque Values Chart</i> .	31

Make the following inspections after the spreader is attached to a tractor and before loading hopper with product.

IMPORTANT: Disengage power take-off, set tractor park brake, shut engine off, and remove ignition key before making the first three checks.

1. Check tractor safety equipment. Make sure it is in good working condition.
2. Check all guards to make certain they are in good working condition and in place.
3. Check wear on distributor vanes. Replace vanes that are wore out.
4. With power take-off, start tractor and carefully raise and lower implement to ensure tractor drawbar, tires, and other equipment do not contact spreader frame or driveline.
5. Set 3-Point control lever stop to support spreader disc between 27 1/2" and 31 1/2" (70-80 cm) above ground level.
6. Set tractor throttle to idle and engage power take-off. If unit runs smoothly, increase power take-off speed to 540 rpm. Stop power take-off immediately if at any time unit begins to vibrate. Wait for power take-off to make a complete stop before dismounting from tractor to check for probable causes.

Safety Information

DANGER

To avoid serious injury or death:

- Do not allow anyone near the tractor or implement while they are operating. Stop operation if bystanders are too close. They can be hit by flying projectiles, become entangled in the equipment, or ran over.
- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline.
- Do not allow anyone to climb inside the hopper for any reason. Serious injury or death can result from someone becoming entangled in the hopper.
- Be careful not to hit solid objects with equipment in tow. Hitting solid objects can cause the front of the tractor to raise up suddenly, throw the operator from his/her seat and/or cause loss of steering control.

WARNING

To avoid serious injury or death:

- Always shut tractor down according to "Tractor Shutdown Procedure" provided in this manual before allowing anyone including the operator to hook up or unhook the implement.
- Do not allow any person or animal inside the danger zone while vanes are slinging product (within a radius of 50 yards from the spreader). Stop application immediately should anyone come inside the danger zone. Product thrown from the spreader can cause bodily injury or death.
- Some tractors are equipped with two power take-off speeds. Be certain your tractor's power take-off shaft is set-up to operate at 540 rpm. Do not exceed 540 rpm power take-off speed. Excessive speed can damage drive/driven components and increase the risk of a thrown object hazard.
- 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.
- 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.
- Do not allow tractor and spreader to run unattended and never dismount from tractor with spreader operating. Always engage parking brake, shut off tractor and remove switch key before dismounting from tractor.
- Always wear non slip shoes, gloves, protective clothing, safety glasses, and a breathing mask capable of filtering powders when cleaning, servicing, lubricating, and filling your Broadcast Spreader to prevent injury to the body and/or injury from inhalation of product. Refer to chemical manufacturers' labels for specific protective requirements.



Section 2: Operation

- Use a cab tractor with filters on the ventilation system or wear a breathing mask capable of filtering powders to prevent inhalation of product.
- Always park the Broadcast Spreader on a hard level surface and always empty hopper of product before disconnecting spreader from the tractor.
- 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.
- Clear area of debris and other unforeseen removal objects before spreading product. Mark any potential hazards that cannot be removed such as tree stumps, post, rocks, holes, and drop-offs with a visible flag.
- Do not use implement as a man lift, work platform or as a wagon to carry objects. It is not properly designed or guarded for this use.
- Do not use spreader to carry objects. Doing so can damage the spreader, cause serious bodily injury or result in death.
- Make sure safety labels are in their proper location and are in good condition before operating the attached implement. Read and obey all instructions on the labels.
- Always wear non slip shoes, gloves, protective clothing, safety glasses, and a breathing mask capable of filtering powders when filling hopper to prevent injury to the body and/or injury from inhalation of product. Refer to the chemical manufacturer labels for specific protective requirements.
- Fill hopper with product only after the Broadcast Spreader has been properly hitched to a tractor capable of handling a fully loaded hopper.
- 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.

CAUTION

To avoid minor or moderate injury:

Keep Broadcast Spreader clean of rocks, tools, and other debris that can damage the operation of the machine or be thrown causing bodily injury.

Tractor Shutdown Procedure

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

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

Filling the Hopper

WARNING

To avoid serious injury or death:

- Always read and comply with all instructions and precautions on the label of the product being used.

NOTE: Do not travel long distances or carry fertilizer bags stacked on top of product in the hopper. Both situations will cause fertilizer to compress resulting in improper discharge.

1. Stop tractor and Broadcast Spreader on a hard level surface before filling hopper.
2. Make sure power take-off is disengaged at the tractor and then lower hopper to ground.
3. Engage park brake, shut engine off, and remove ignition key before dismounting from tractor.
4. Check driveline to make sure it has not come apart in the middle or loose from the power take-off shafts due to lowering unit to ground.

IMPORTANT: Agitator should only be used with light fluffy material such as grass seeds. Do not use agitator with heavy dense materials such as fertilizer, salt, and sand. Doing so can break the agitator.

5. Check agitator to make sure it functions properly if product to be spread is a light fluffy material. Refer to "Agitator Assembly" on page 12: If product is a heavy dense material, unscrew M12 x 55 bolt (#2) and remove agitator assembly.
6. Check distributor vanes for wear.
7. Check discharge gates to make sure they open and close properly.
8. Close discharge gates, tighten lever locking knob, and insert hair pin cotter in the first hole just below the lift levers to ensure gates do not work open.

IMPORTANT: Product must be dry (not humid) without lumps to spread uniformly and correctly.

9. Fill hopper with product.



Section 2: Operation

Transporting

WARNING

To avoid serious injury or death:

- When traveling on roadways, travel in such a way that other vehicles may pass you safely. Always use LED lights, clean reflectors, and a slow moving vehicle sign that is visible from the back to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.
- 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.

IMPORTANT: Always disengage power take-off before raising Broadcast Spreader to transport position.

1. Be sure driveline does not contact tractor or spreader when raising the spreader.
2. Make sure 3-Point control lever is locked in the up position to prevent unit from accidentally lowering onto the ground.
3. Be sure to reduce tractor ground speed when turning; and leave enough clearance so the spreader does not contact obstacles such as buildings, trees, or fences.
4. Select a safe ground speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
5. When traveling over rough or hilly terrain, shift tractor to a lower gear.
6. The Broadcast Spreader is equipped with a towing hook for trailers. Maximum towing weight is 1200 pounds.

Field Application

NOTE: To distribute product more uniformly, operate spreader only on calm (non windy) days.

NOTE: To ensure full coverage (without skips), set spreader to disperse product at half the rate and go over the field plot twice using a 2nd pattern that crosses the first pattern.

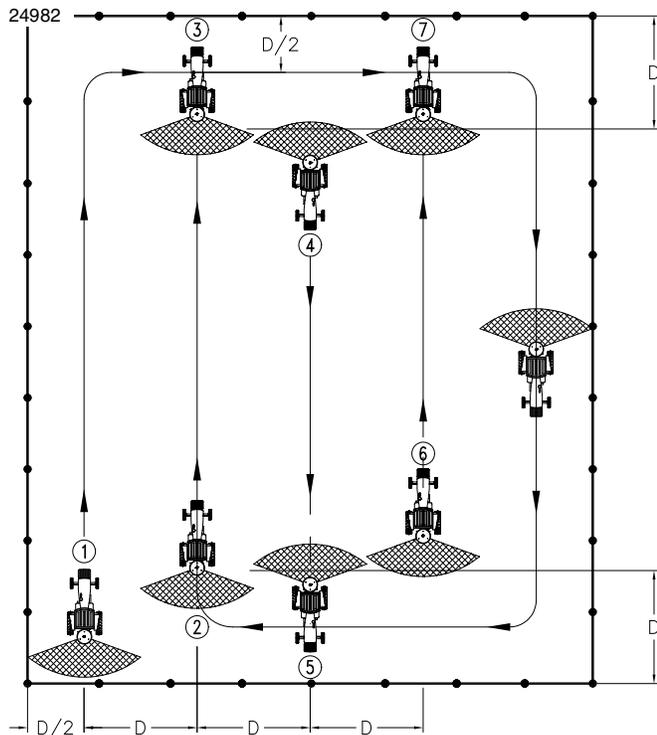
1. With gates closed and tractor engine set at idle, engage power take-off to verify everything is running smoothly. Increase power take-off speed to 540 rpm to complete verification. Remember to disengage power take-off immediately and shut tractor down if Broadcast Spreader vibrates excessively.
2. Shut power take-off and tractor down to continue field set-up.
3. Check to make certain spreader disc is level and between 27 1/2" to 31 1/2" (70-80 cm) above grade.
4. Make gate adjustments per instructions under "**Dispersal Pattern**" on page 22.
5. Fill poly hopper with precise amount of material to cover one acre or hectare. Make a test run traveling at the speed you intend to apply product while dispersing it over a premarked area such as one acre or hectare to verify if any additional adjustments need to be made.
6. Adjust distributor vanes as needed. See "**Distributor Vane Adjustment**" on page 23.
7. Make a measurement of the spread pattern to be used later when applying product to the field.
8. Once all adjustments have been made and settings are satisfactory, lower hopper to ground and fill with product.

Refer to Figure 2-1 on page 21:

9. There are a variety of ways to spread product over a field. With D = spread pattern and D/2 = one half the spread pattern:
 - a. Start tractor (1) in a field corner at a distance equal to (D/2) away from the field edge.
 - b. Maintain this half distance from the field edge as you travel around the complete perimeter of the field.
 - c. When approaching starting point (2), turn tractor when at distance (D) away from the first run and travel parallel to the first run until the tractor (#3) is at distance (D) away from end of field.
 - d. Once you reach distance (D) from end of field, stop power take-off, turn tractor, and drive forward until at distance (D) away from the last run and then turn the tractor (4) again to head back across the field.

Section 2: Operation

- e. Start power take-off when at distance (D) from the field edge and continue back parallel to the previous run until tractor (5) is again at distance (D) away from end of field.
- f. Continue this back and forth pattern (2 to 3, 4 to 5, 6 to 7 etc.) until field plot has been covered.



Field Application Pattern (One Example)
Figure 2-1

General Operating Instructions

By now you should have properly installed your Land Pride Broadcast Spreader on your tractor. Based on the type of material and pounds per acre or kilograms per hectare you intend to broadcast, you should have referred to the spreading chart in the Operator's Manual to determine the proper tractor ground speed, distribution gate opening, and spread pattern setting for your spreader. This process of taking prescribed fertilizer or seed label rates and making the necessary spreader setting adjustments is called "initial calibration".

When setting-up your spreader for initial calibration, it is "absolutely essential and required" that you follow the directions provided by the chemical or seed supplier and Spreader Charts provided in this manual. Once you have achieved your initial calibration, it is time to make the "final calibration" adjustments. Measure off an area where chemicals or seed are to be applied. An acre or hectare is preferred. Measure out exactly enough product to cover the area at the manufacturer's prescribed rate and put it in the hopper. You should have already determined the appropriate ground speed that will allow you to meet the application rate and also maintain 540 rpm power take-off speed.

Start the tractor and travel to the plot you have measured off. Maintaining proper ground and engine speed, engage the power take-off and open the distribution gate just as you move onto the plot. Look back often to observe your distribution width and pattern density. Typically the pattern won't be as dense on the outer edges. As you make your turn for an adjacent pass, adjust your travel path to achieve uniform overlap and pattern density. You may need to close and open the distribution gate at the beginning and ending of each pass. Your hopper should empty out just as you complete coverage of your plot. If not, make the necessary adjustments until you are absolutely confident that you have achieved the proper final calibration.

Once you have achieved final calibration, load the spreader hopper with the appropriate amount of material to be spread. Do not overload hopper with more weight than is specified for your individual model. If the tractor front end becomes too light for proper steering, add tractor weights to the front end. Proceed with spreading operations looking back often to ensure a uniform distribution pattern and to make sure there are no interruptions to hopper flow.

With a little practice you should become a very good applicator. Once you are done spreading, disengage the power take-off, park the tractor, set the brake, shut off the tractor, and remove the keys. When finished, always clean out the spreader to prevent rust and corrosion.



Section 3: Adjustments

Dispersal Pattern

Refer to **Figure 3-1**, **Figure 3-2** & **Figure 3-3**:

Product dispersal is controlled by properly opening and closing left and right gates at the hopper bottom with adjustment levers (#1 & #2).

Some adjustment to the distributor vanes may be required. See detailed instructions for “**Distributor Vane Adjustment**” on page 23.

Positioning right and left gate levers as follows:

Left Side Dispersal, View (A) in Figure 3-1

Refer to **Figure 3-3**:

1. Remove lever locking knob (#3).
2. Close right gate by moving adjustment lever (#1) above gate setting position #1.
3. Move adjustment lever (#2) to the selected gate setting provided in spreading charts on page 24 for lbs/acre and page 25 for kgs/hectare.
4. Secure adjustment lever (#2) by placing hair pin cotter (#5) in the selected gate setting hole with adjustment lever (#2) resting on top of hairpin (#5).

Full Width Dispersal, View (B) in Figure 3-1

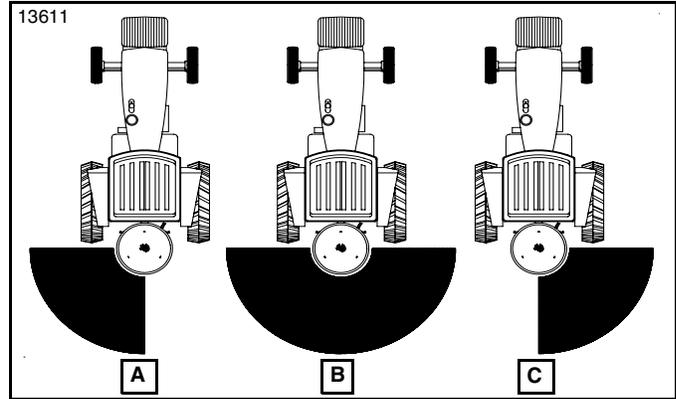
Refer to **Figure 3-2** & **Figure 3-3**:

1. Lock adjustment levers (#1 & #2) together with lever locking knob (#3).
2. Move adjustment levers together just above selected gate setting provided in spreading charts on page 24 for lbs/acre and page 25 for kgs/hectare.
3. Secure adjustment levers by placing hair pin cotter (#5) in the selected gate setting hole with adjustment levers resting on top of hairpin (#5).

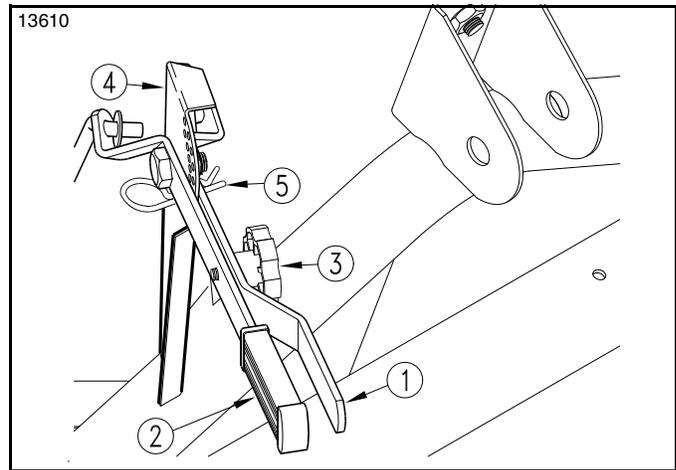
Right Side Dispersal, View (C) in Figure 3-1

Refer to **Figure 3-3**:

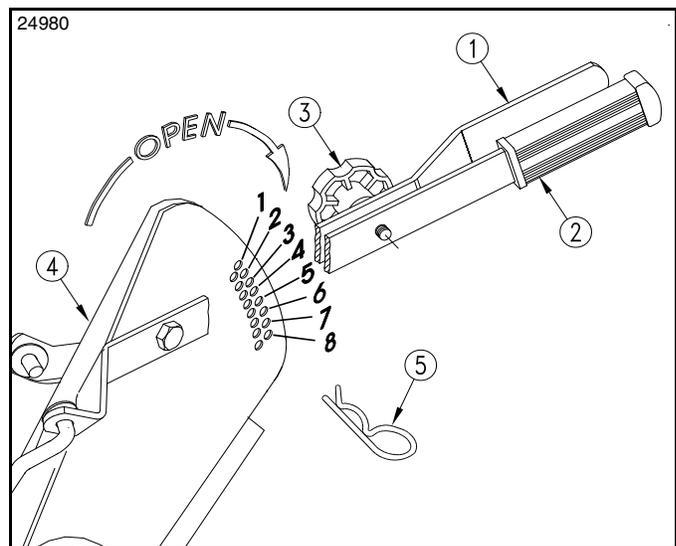
1. Remove lever locking knob (#3).
2. Close left gate by moving adjustment lever (#2) up above gate setting position #1.
3. Move adjustment lever (#1) to the selected gate setting provided in spreading charts on page 24 for lbs/acre and page 25 for kgs/hectare.
4. Secure adjustment lever (#1) by placing hair pin cotter (#5) in the selected gate setting hole with adjustment lever (#1) resting on top of hairpin (#5).



Delivery Direction
Figure 3-1



Lever Adjustments
Figure 3-2



Gate Setting Hole Numbers
Figure 3-3

Section 3: Adjustments

Distributor Vane Adjustment

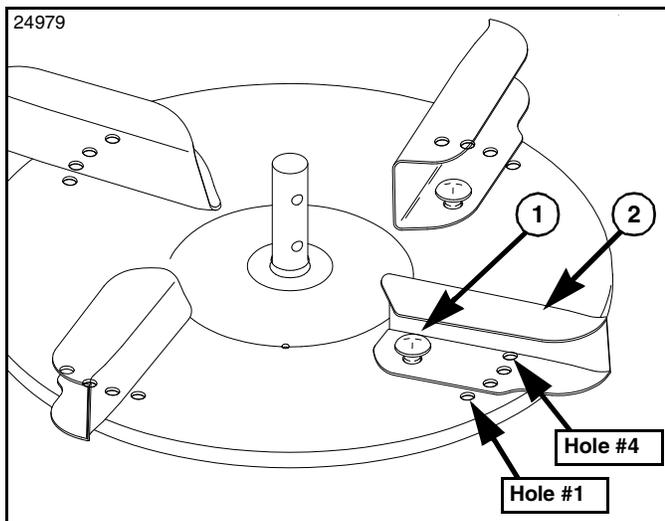
Product distribution varies depending on travel speed, radius of distribution, and roughness of terrain. Also specific gravity, quality, and humidity of the product can effect distribution. To help ensure even distribution, the operator can adjust the distributor vanes to different hole locations on the spreader disc.

Refer to Figure 3-4:

When all vanes are placed in hole #1, distribution of product to the left is increased. If inserted into hole #4, distribution to the right is increases.

Final adjustment of the vanes depends upon the type of material being used and the operator's experience.

1. Loosen M8 x 16 round head bolt (#1).
2. Rotate distributor vanes (#2) to desired hole position.
3. Tighten M8 bolts.



Distributor Vanes
Figure 3-4



Spreader Chart for Fertilizer & Seed (English)

	TRACTOR SPEED (MPH)	Spreader Width (Feet)	QUANTITY SPREAD IN LBS/ACRE AT VARIOUS GATE SETTINGS								
			1	2	3	4	5	6	7	8	8.5
Large Granular Fertilizer	2.5	60		132	245	402	635	929	1014	1140	1248
	5			66	123	201	318	465	507	570	624
	7.5			44	82	134	212	310	338	380	416
Medium Granular Fertilizere	2.5	53			311	448	709	925	1025	1118	1182
	5				156	224	355	463	513	559	591
	7.5				104	149	237	309	342	373	394
Fine Granular Fertilizer	2.5	40		226	368	560	890	1236	1354	1522	1632
	5			113	184	280	445	618	677	761	816
	7.5			75	123	187	297	412	451	507	544
Crystal (Ammon Sulphate)	2.5	23				571		1270		1685	
	5					286		635		843	
	7.5			75	123	187	297	412	451	507	544
Thomas Meal (Basic Slag)	4	20			571		1270		1685		
	8					286		635		843	
Wheat	3	52						46	129	268	
	4							35	97	201	
	5							28	77	161	
	6							23	64	134	
	7							20	55	115	
Alfalfa & Clover	3	31					43	163	340	645	
	4					33	122	255	484		
	5					26	98	204	387		
	6					22	82	170	323		
	7					19	70	146	277		
Fescue & Ryegrass	3	19							85	161	
	4							64	121		
	5							51	97		
	6							43	81		
	7							36	69		
Red Clover	3	31					44	167	333	642	
	4					33	125	250	481		
	5					26	100	200	385		
	6					22	84	167	321		
	7					19	72	143	275		
Kentucky Blue Grass & Bermuda Grass	3	12					30	131	311	660	
	4					23	98	233	495		
	5					18	78	186	396		
	6					15	65	155	330		
	7					13	56	133	283		
Sudan Grass	3	52						49	131	271	
	4							37	98	203	
	5							29	79	163	
	6							24	66	136	
	7							21	56	116	
Barley	3	49						25	81	186	
	4							19	61	139	
	5							15	49	111	
	6							13	41	93	
	7							11	35	80	
Rye	3	40						25	81	186	
	4							19	61	139	
	5							15	49	111	
	6							13	41	93	
	7							11	35	80	
	8						9	30	70		



Spreader Chart for Fertilizer & Seed (Metric)

	TRACTOR SPEED (KPH)	Spreader Width (Meters)	QUANTITY SPREAD IN KGS/HECTARE AT VARIOUS GATE SETTINGS								
			1	2	3	4	5	6	7	8	8.5
Large Granular Fertilizer	4	18.3		160	296	486	767	1123	1225	1378	1508
	8			80	149	243	384	562	613	689	754
	12			53	99	162	256	375	408	459	503
Medium Granular Fertilizere	4	16.2			376	541	857	1118	1239	1351	1428
	8				189	271	429	560	620	676	714
	12				126	180	286	373	413	451	476
Fine Granular Fertilizer	4	12.2		273	445	677	1076	1494	1636	1839	1972
	8			137	222	338	538	747	818	920	986
	12			91	149	226	359	498	545	613	657
Crystal (Ammon Sulphate)	4	7.0				690		1535		2036	
	8					346		767		1019	
	12			91	149	226	359	498	545	613	657
Thomas Meal (Basic Slag)	6	6.1			690		1535		2036		
	13					346		767		1019	
Wheat	5	15.8						56	156	324	
	6							42	117	243	
	8							34	93	195	
	10							28	77	162	
	11							24	66	139	
	13							21	58	121	
Alfalfa & Clover	5	9.4					52	197	411	779	
	6						40	147	308	585	
	8						31	118	247	468	
	10						27	99	205	390	
	11						23	85	176	335	
	13						19	74	153	292	
Fescue & Ryegrass	5	5.8							103	195	
	6								77	146	
	8								62	117	
	10								52	98	
	11								44	83	
	13								39	73	
Red Clover	5	9.4					53	202	402	776	
	6						40	151	302	581	
	8						31	121	242	465	
	10						27	102	202	388	
	11						23	87	173	332	
	13						19	76	151	291	
Kentucky Blue Grass & Bermuda Grass	5	3.7					36	158	376	798	
	6						28	118	282	598	
	8						22	94	225	479	
	10						18	79	187	399	
	11						16	68	161	342	
	13						13	59	140	300	
Sudan Grass	5	15.8						59	158	328	
	6							45	118	245	
	8							35	95	197	
	10							29	80	164	
	11							25	68	140	
	13							22	59	123	
Barley	5	14.9						30	98	225	
	6							23	74	168	
	8							18	59	134	
	10							16	50	112	
	11							13	42	97	
	13							11	36	85	
Rye	5	12.2						30	98	225	
	6							23	74	168	
	8							18	59	134	
	10							16	50	112	
	11							13	42	97	
	13							11	36	85	

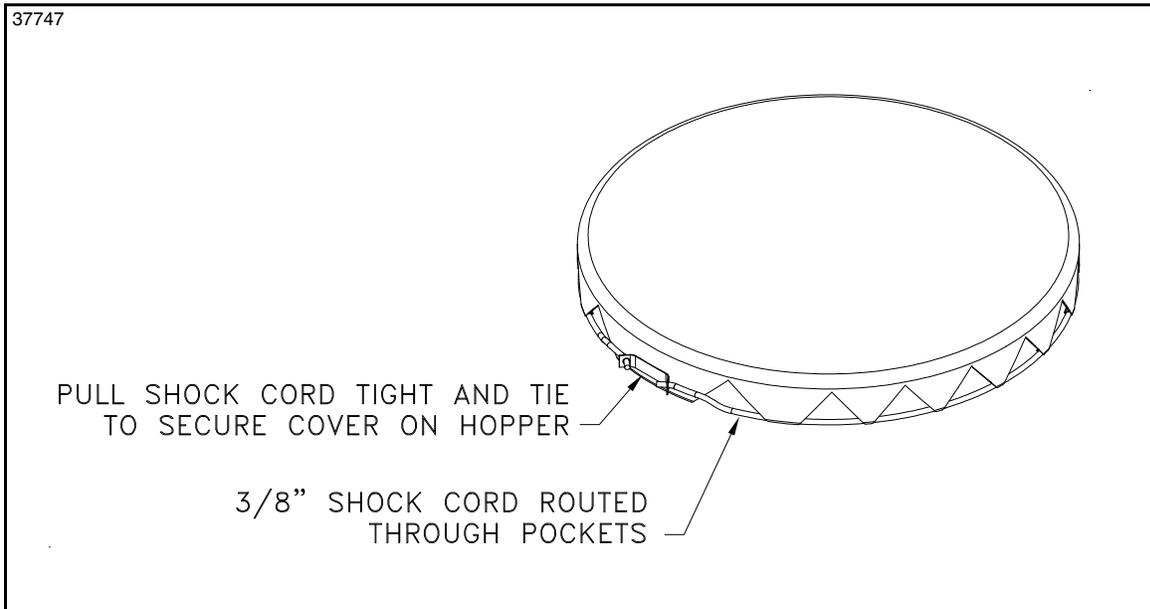
Section 4: Options

Polyester Hopper Cover

Refer to Figure 4-1:

A black vinyl coated polyester cover is offered as an option to keep material in the hopper and elements out. The cover is drawn up tight around the top of the hopper with a 3/8" shock cord and tied to secure it in place.

Land Pride Hopper Covers	
Part No.	Part Description
891-145C	FSP500 HOPPER COVER
891-146C	FSP700 & FSP1000 HOPPER COVER



Polyester Hopper Cover
Figure 4-1



Section 5: Maintenance

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.

⚠ WARNING

To avoid serious injury or death:

- Allow only persons to perform maintenance on this implement who have been properly trained in its safe operation.
 - Make sure controls are all in neutral position or park before starting the power machine.
 - Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
 - Maintenance, adjustments, and cleaning of the spreader must always be done with unit resting on the ground or on stable, non-concrete supports and with tractor park brakes applied, engine turned off, and ignition key removed.
 - 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.
 - Always wear non slip shoes, gloves, protective clothing, safety glasses, and a breathing mask capable of filtering powders when servicing, lubricating, or cleaning your Broadcast Spreader. Be sure to wear eye protection if cleaning with air or water. Refer to chemical manufacturer’s labels for specific protective requirements.
1. Check all bolts to be sure they are tight
 2. Check driveline to make sure it has not come apart in the middle or loose from power take-off shafts.
 3. Check agitator to make sure it moves freely.
 4. Check distributor vanes and spreader disc for wear. Replace if worn out.
 5. Check discharge gates and lifting mechanism for wear and mechanical operation.
 6. Lubricate gearbox grease fitting and driveline as noted under Lubrication on page 28.
 7. Repaint parts where paint is worn or scratched to prevent rust.
 8. Replace any worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride Dealer.

Long-Term Storage

Clean, inspect, service, and make necessary repairs to the implement after each use, 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. Empty hopper of product before unhooking unit from tractor.
2. Clean off all particles of fertilizer, dirt, and grease that may have accumulated on the frame, hopper, and moving parts.
3. Wash Broadcast Spreader thoroughly inside and outside with a garden hose. Make sure all particles of fertilizer have been removed. Allow to completely dry before closing gates.
4. Inspect for loose, damaged, or worn parts. Make needed adjustments, tighten loose parts, and replace damaged and worn parts.
5. Lubricate as noted under “**Lubrication Points**” on page 28.
6. Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Aerosol Land Pride touch-up paint.

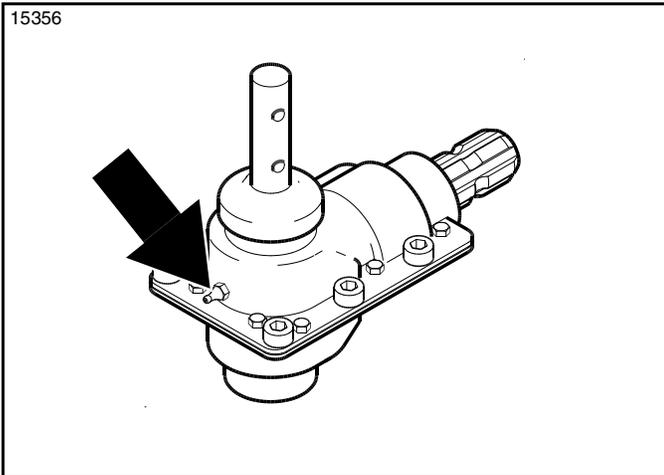
Touch-Up Paint	
Part No.	Part Description
821-070C	GLOSS BLACK ENAMEL SPRAY CAN
821-070CTU	GLOSS BLACK ENAMEL BOTTLE & BRUSH
821-070CQT	GLOSS BLACK ENAMEL QUART
821-070CGL	GLOSS BLACK ENAMEL GALLON

7. Replace any worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride Dealer.
8. Store spreader in a clean, dry place away from atmospheric conditions to protect unit from further deterioration.
9. Make sure the spreader is stable. Use auxiliary supports if necessary to prevent unit from tipping over accidentally.



Lubrication Points

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



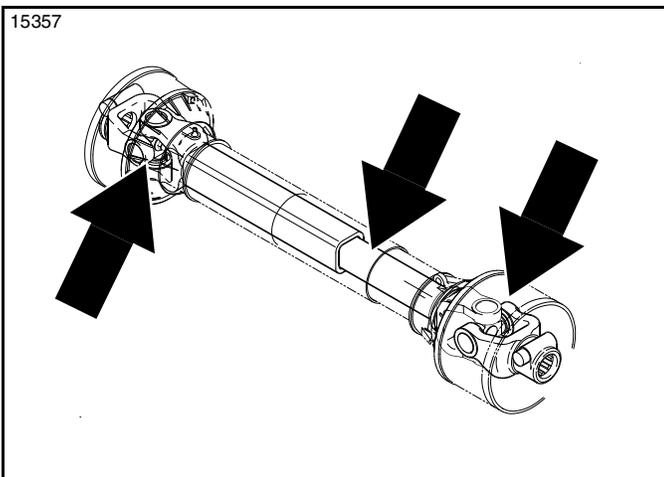
	 25 Hours
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Gearbox

Type of Lubrication:
Use Lithium Base gun grease, Grade 2 rated for gearbox application.

Quantity = 3 pumps every 25 hours.

NOTE: DO NOT OVERFILL, SEAL DAMAGE CAN OCCUR. There is no purge hole in gearbox! Gearbox can be checked for grease level by removing grease zerk. Grease should be up to bottom of zerk hole when full.



	Seasonally
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Driveline

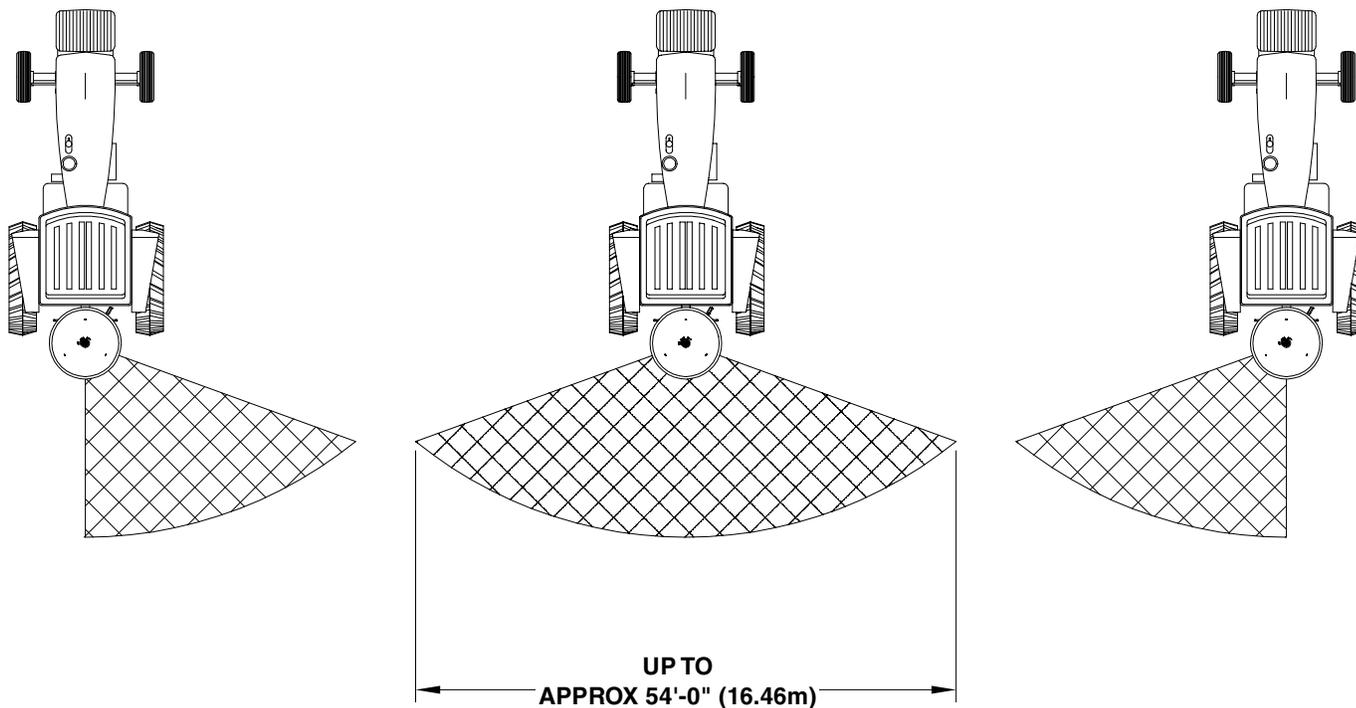
Grease all knuckle points daily. This includes the zerks, and tubes of the driveline shaft.



FSP500, FSP700 & FSP1000 Broadcast Spreaders

Specifications & Capacities			
Model Numbers	FSP500	FSP700	FSP1000
Capacity (maximum Cu.ft. & pounds)	5.83 cu. ft. (350 lbs.) [.17 m ³ (158.8 kg)]	9.18 cu. ft. (563 lbs.) [.26 m ³ (255.4 kg)]	12.18 cu. ft. (673 lbs.) [.34 m ³ (305.3 kg)]
Overall dimensions	37" x 40" (0.94m x 1.02m)	44" x 46" (1.12m x 1.17m)	47" x 46" (1.19m x 1.17m)
Loading height	36" (0.91 m)	41" (1.04 m)	44.5" (1.13 m)
Weight	119 (54 kg)	128 (58 kg)	139 (63 kg)
3-Point attachment	Category 1	Category 1	Category 1
Net spreadable width			
Granular	39-46 ft (12-14 m)	39-46 ft (12-14 m)	39-46 ft (12-14 m)
Crystalline	20-23 (6-7 m)	20-23 ft (6-7 m)	20-23 ft (6-7 m)
Power take-off shaft type	1 3/8"	1 3/8"	1 3/8"
Transmission ratio	1:1	1:1	1:1
Min. tractor horsepower	15 hp (11.2 kW)	18 hp (13.4 kW)	20 hp (14.9 kW)
Range of spreading Possibility	lbs/acre 44 - 890 (49 - 998)	lbs/acre 44 - 890 (49 - 998)	lbs/acre 44 - 890 (49 - 998)

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**Specification Drawing
Figure 6-1**



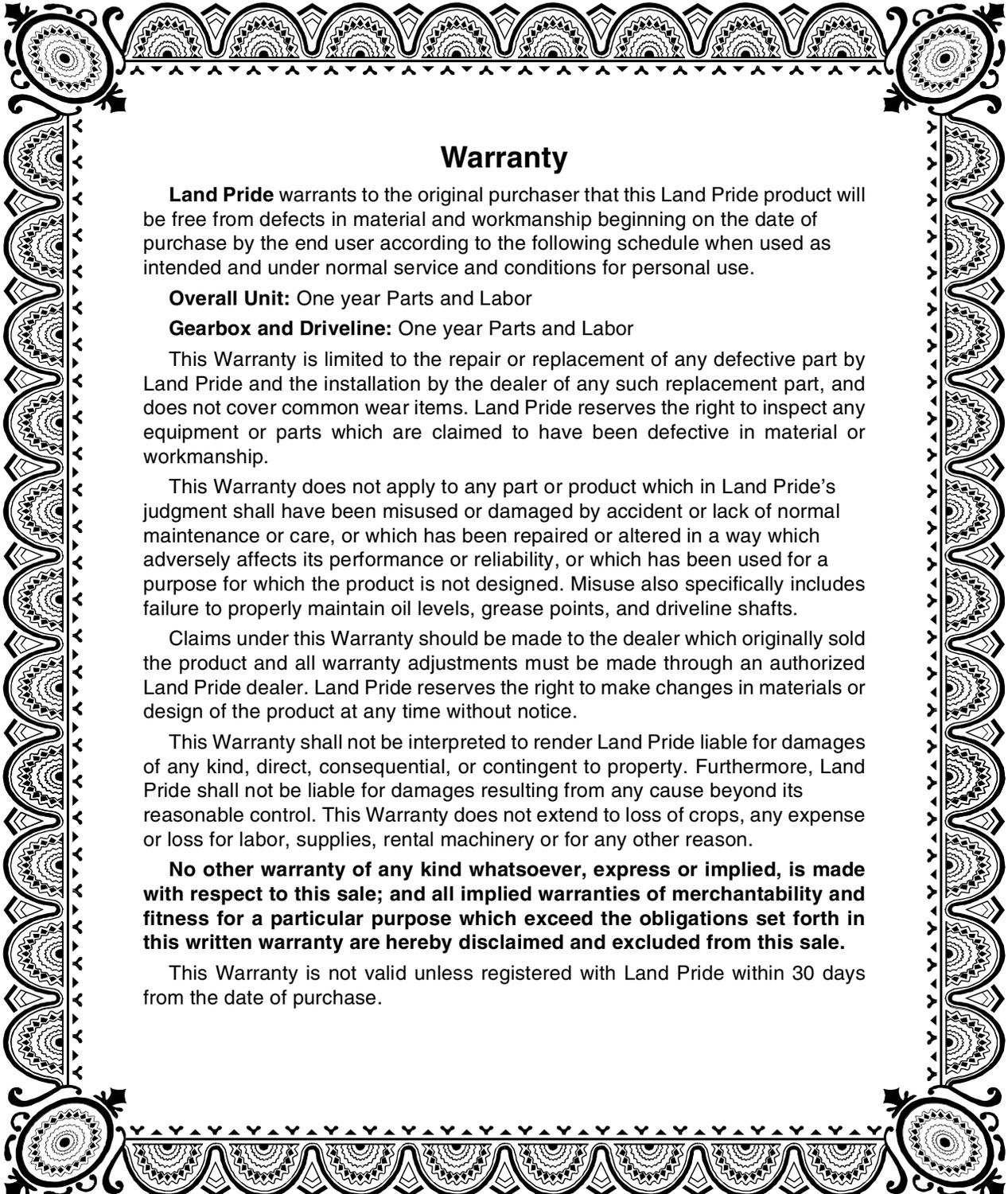
FSP500, FSP700 & FSP1000 Broadcast Spreaders

Features	Benefits
Hopper capacity	FSP500-350 lbs. (158.8 kg); FSP700-563 lbs. (255.4 kg); FSP1000-673 lbs. (305.3 kg) to meet specific customer needs.
Spreading capacity	Highly productive at 44 to 890 lbs. per acre and 49 to 998 kgs/hectare.
Spin-type broadcast	For even spreading and productive coverage up to 54 ft (16.46m)
One piece molded polyethylene hopper	Plastic construction to eliminate corrosion. Seamless for accurate and consistent emptying.
Heavy-duty tubular frame	Supports the weight when full.
Tow hook	Handles up to 1200 pounds (544.3 kg).
540 rpm shielded power take-off	For added safety.
Shielded front	Prevents spreading of material in front of the spreader.
Stainless steel distributor vanes	Protects from corrosive material to enhance longevity.
Adjustable distributor vanes	Four adjustable positions to obtain maximum spreading precision and uniformity.
Plastic agitator wheel with steel arm	Standard equipment and should only be used when spreading light fluffy materials such as grass seeds and some light aerated powders that tend to bridge.
Stainless steel orifice doors	Protects from corrosive material enabling doors to operate smoothly.
Plated adjustment levers	Protects from corrosive material to enhance longevity.
Cat. 1 3-Point hitch	For attachment to a wide range of tractors.



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

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
 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

Gearbox and Driveline: One year Parts and Labor

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
www.landpride.com
