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Printed in the United States of America.
These are common practices that may or may not be applicable to the products described in this manual.

**Safety at All Times**
Thoroughly read and understand the instructions given in this manual before operation. Refer to the “Safety Label” section, read all instructions noted on them. Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

▲ The operator must not use drugs or alcohol as they can change the alertness or coordination of that person while operating equipment. The operator should, if taking over-the-counter drugs, seek medical advice on whether he/she can safely operate the equipment.

▲ Operator should be familiar with all functions of the tractor and attachments, and be able to handle emergencies quickly.

▲ Make sure all guards and shields are in place and secured before operating implement.

▲ Keep all bystanders away from equipment and work area.

▲ Operator must start tractor and operate controls from the driver’s seat only. Never from the ground.

▲ Do not leave tractor or implement unattended with engine running.

▲ Dismounting from a moving tractor can cause serious injury or death.

▲ Do not allow anyone to stand between tractor and implement while backing up to implement.

▲ Keep hands, feet, and clothing away from power-driven parts.

▲ Watch out for fences, trees, rocks, wires, etc., while operating and transporting implement.

▲ Turning tractor too tight may cause hitched machinery to ride up on wheels. This could result in injury or equipment damage.

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

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

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

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

**For Your Protection**
▲ Thoroughly read and understand the “Safety Label” section, read all instructions noted on them.

**Tractor Shutdown & Storage**
▲ If engaged, disengage PTO.

▲ Lower attached implement to ground, put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.

▲ Wait for all components to come to a complete stop before leaving the operator’s seat.

▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.

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

**Dealer QR Locator**
The QR code on the left will link you to available dealers for Land Pride products. Refer to Parts Manual QR Locator on this page for detailed instructions.
These are common practices that may or may not be applicable to the products described in this manual.

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

**Transport Machinery Safely**
- Comply with state and local laws.
- Use towing vehicle and trailer of adequate size and capacity.
- Secure equipment towed on a trailer with tie downs and chains.
- Sudden braking can cause a trailer to swerve and upset. Reduce speed if trailer is not equipped with brakes.
- Avoid contact with any over head utility lines or electrically charged conductors.
- Engage park brake when stopped on an incline.
- Maximum transport speed for an attached implement is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- As a guideline, use the following maximum speed weight ratios for an attached implement:
  - 20 mph when weight of attached implement is less than or equal to the weight of machine towing the implement.
  - 10 mph when weight of attached implement exceeds weight of machine towing implement but not more than double the weight.
- IMPORTANT: Do not tow a load that is more than double the weight of the machine towing the load.

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

**Practice Safe Maintenance**
- Understand procedure before doing work. Use proper tools and equipment, refer to Operator’s Manual for additional information.
- Work in a clean dry area.
- Lower attached implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.
- Allow implement to cool before working on it.
- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- Do not grease or oil implement while it is in operation.
- Inspect all parts. Make certain parts are in good condition & installed properly.
- Replace parts on this machine with genuine Land Pride parts only. Do not alter this machine in a way which will adversely affect its performance.
- Remove buildup of grease, oil, or debris.
- Remove all tools and unused parts from implement before operation.
These are common practices that may or may not be applicable to the products described in this manual.

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

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

**Avoid Underground Utilities**
- ▲ Dig Safe, Call 811. 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.

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

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

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

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

Your Disc Harrow 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.

**WARNING**

DO NOT EXCEED 20 MPH TRANSPORT SPEED. TO PREVENT MACHINE DAMAGE LIMIT SPEED WHILE:
- TRANSPORTING
- TURNING
- IN WINDY CONDITIONS
- IN ROUGH TERRAIN

838-588C
Notice: 20 MPH Maximum Speed

**CAUTION**

To prevent injury or death:
- Read and understand Operator’s Manual before using.
- Lower implement, stop tractor engine, set park brake and remove ignition key before servicing, adjusting, repainting or unplugging.
- Do not allow riders.
- Keep others away during operation.
- Safely support and secure implement before repairs are made.

818-719C
Caution: General Instructions

**WARNING**

To Prevent Striking Injury or Death
- Read entire operation or maintenance.
- Do not operate or work on this machine without reading and understanding the operator’s manual.
- If manual is lost, contact your nearest dealer for a new manual.

838-293C
Warning: Read Manual
**Warning: High Pressure**

To prevent serious injury or death:
- Relieve pressure on hydraulic system before servicing or disconnecting hoses.
- Wear proper hand and eye protection when operating or troubleshooting.
- Keep all components in good repair.

**838-615C**
2" x 9" Amber Reflector (2 places)

**838-614C**
2" x 9" Red Reflector (2 places)

**838-603C**
2" x 9" Orange Reflector (2 places)

**818-831C**
Warning: High Pressure
**Important Safety Information**

**Table of Contents**

---

**WARNING**

**CRUSHING FALLING BLADE HAZARD**

To prevent serious injury or death from crushing or falling blade hazard:

- Stand clear from implement while
- Raising
- Lowering
- Transporting

**848-247C**

Warning: Crushing Falling Blade Hazard

---

**WARNING**

**SHARP OBJECT HAZARD**

To prevent serious injury or death from sharp objects:

- Keep hands, feet, hair, & clothing away from blades.
- Do not stand on, climb on, implement.
- Keep others away.

**838-093C**

Warning: Sharp Object Hazard

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DH3510 & DH3512 Disc Harrow 322-251M 12/09/15
Introduction

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

This Disc Harrow 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 Land Pride DH3510 ten foot and DH3512 twelve foot pull-type discs are perfectly matched for agricultural utility tractors having 45 to 100 drawbar horsepower. They have applications in seed bed preparation, soil pulverization, and tillage on smaller farms, ranches, construction sites, race tracks, rodeo grounds, nurseries, reclamation sites, and sod farms. Economy conscious customers will find them more than equal to just about any soil cultivation task you can throw at them. With choices of notched or smooth 20" or 22" discs mounted on fore and aft gangs that have easily adjustable angling, the DH3510 and DH3512 readily adapt to a wide range of tillage conditions.

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

Using This Manual

• This Operator’s Manual is designed to help familiarize the operator with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

• The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.

• To order a new Operator’s or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

Terminology

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

Definitions

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

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

Owner Assistance

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

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

Serial Number

Model No. _____________Serial No. ______________

For quick reference and prompt service, record model number and serial number in the spaces provided above and again on warranty page 35. Always provide model number and serial number when ordering parts and in all correspondences with your Land Pride dealer. Refer to Figure 1 for location of your serial number plate.

Further Assistance

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

1. Discuss the matter with your dealership service manager making sure that person is aware of any problems you may have and has had the opportunity to assist you.

2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem, and request assistance.

3. For further assistance write to:

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

E-mail address
lpservicedept@landpride.com
Tractor Requirements
Tractor horsepower and weight must be capable of controlling the Disc Harrow under all operating conditions. Smaller horsepower and lighter weight tractors must not be used.

- **DH3510 Model**
  - Horsepower: 45-100 HP
  - Hitch Type: Drawbar
  - Hydraulic Outlets: 2 duplex outlets

- **DH3512 Model**
  - Horsepower: 55-100 HP
  - Hitch Type: Drawbar
  - Hydraulic Outlets: 2 duplex outlets

**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.

Torque Requirements
Refer to “Torque Values Chart for Common Bolt Sizes” on page 34 to determine correct torque values when tightening hardware during assembly and maintenance.

Dealer Preparations
Read and understand the Operator’s Manual. An understanding of how it works will aid in the assembly and setup.

Go through the “Assembly Checklist” on this page before assembling the Disc Harrow. Speed up your assembly task and make the job safer by having all needed parts and equipment readily at hand.

This harrow has been partially assembled at the factory. However, there are still some assembly requirements before the machine is ready for operation.

Single Wheel Assembly
Refer to Figure 1-1:

**IMPORTANT:** A forklift or adequate lifting devise is recommended for lifting the main frame when installing wheels, hitch, and hydraulic cylinder.

1. Unpack Disc Harrow from shipping crate.
2. Support main frame with a suitable lifting device.
3. Verify fit-up of spindle (#6) to support tube (#2) by assembling them without anti-seize lubricant.
4. Remove spindle from support tube and apply a thin coat of anti-seize lubricant on the unpainted spindle shaft and a thin coat to the inside entrance of the spindle support tube.
5. Insert spindle (#6) into support tube (#2) and secure with two 1/2"-13 x 3 1/4" GR5 cap screws (#3) and 1/2" lock nuts (#5). Tighten nuts to the correct torque.
6. Mount wheel (#1) to hub with five 1/2"-20 lug nuts (#4). Tighten lug nuts to the correct torque.

Assembly Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make sure miscellaneous assembly tools are on hand:</td>
<td>Hammer, tape measure, hacksaw, assortment of wrenches &amp; sockets, 3/8” drill, drill bits, and spirit level.</td>
</tr>
<tr>
<td>Have a forklift or hoist capable of 2500 lbs.</td>
<td>Have a minimum of two people available during assembly and set-up.</td>
</tr>
<tr>
<td>Check to see if auxiliary tractor weights are needed.</td>
<td>Make sure quick disconnect adaptors match tractor’s duplex outlets.</td>
</tr>
<tr>
<td>Make sure all major components and loose parts are shipped with the machine.</td>
<td>Section 1 &amp; Section 2</td>
</tr>
<tr>
<td>Make sure working parts move freely, bolts are tight &amp; cotter pins are spread.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>Make sure all grease fittings are in place and lubricated.</td>
<td>Section 5 Page 26</td>
</tr>
<tr>
<td>Make sure all safety labels are correctly located and legible. Replace if damaged.</td>
<td>Pages 4 to 6</td>
</tr>
<tr>
<td>Double check to make sure all fasteners &amp; pins are installed in the correct location. Refer to the Parts Manual if unsure.</td>
<td>See Parts Manual 322-251P</td>
</tr>
<tr>
<td>NOTE: All assembled hardware from the factory has been installed in the correct location. Remember location of a part or fastener if removed during assembly. Keep parts separated.</td>
<td></td>
</tr>
<tr>
<td>Make sure all red and amber reflectors are correctly located and visible when machine is in transport position.</td>
<td>Page 5</td>
</tr>
<tr>
<td>Make sure all tires are inflated to the specified psi air pressure.</td>
<td>Section 8 Page 34</td>
</tr>
<tr>
<td>Make sure all wheel bolts and axle nuts are tightened to the specified torque.</td>
<td>Section 8 Page 34</td>
</tr>
</tbody>
</table>

Repeat steps 2 to 6 for the opposite side.

See “Dual Wheel Assembly” on page 17 for instructions on installing optional dual wheels.

Hitch Assembly

**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.
Table of Contents

Section 1: Assembly & Set-up

Refer to Figure 1-2:

1. Attach tongue (#5) to main frame (#3) with two 1"-8 x 4" GR5 cap screws (#8) & 1" nylock nut (#11). Draw nuts up snug. Do not tighten.

2. If included, rotate optional parking jack (#22) to the upright position and retain with pin (#18). Extend jack to support hitch approximately 18" off the ground. Refer to “Parking Jack Assembly” on page 16.

NOTE: Spring adjuster (#6) and pivot bracket (#7) are shipped shop assembled together.

3. Attach mid point of pivot bracket (#7) to the main frame (#3) with one 7/8" x 5 3/8" pin (#19) and two 3/16" x 1 1/2" cotter pins (#17). Bend one or both legs of cotter pins to prevent them from falling out.

4. Attach pivot bracket (#7) to tongue with lower hitch pin (#1) and 1/4" x 2" cotter pin (#15). Bend one or both legs of cotter pin.

5. Attach spring adjuster (#6) to axle lug (#4) with 3/4"-10 x 2 1/2" GR5 cap screw (#9) and 3/4" top lock nut (#12). Draw nut up snug. Do not tighten.

6. Insert 1/2"-13 x 1" GR5 hex head cap screw (#10) through 1/2" spring lock washer (#13), 1/2" flat washer (#14), spring hose loop (#20), 1/2" flat washer (#14), and into welded nut on top of hitch frame as shown. Tighten bolt to the correct torque.

7. Mount the five stroke control spacers (#21) onto the spring adjuster (#6) storage rack.

8. Attach cylinder transport lock (#2) to spring adjuster gusset with 1/4" wire retaining pin (#16).

Hitch Assembly
Figure 1-2

Hydraulic Cylinder Assembly

DANGER
Hydraulic fluid under high pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin or eyes, it must be treated by a doctor familiar with this type of injury within a few hours or gangrene may result. DO NOT DELAY.

Refer to Figure 1-3:

IMPORTANT: Attach cylinder base to the front main frame lug. Hydraulic fittings will be stressed if cylinder base is attached to the rear main frame lug.

1. Position hydraulic cylinder (#3) with ports on top as shown. Install two 90 degree elbows (#4) into the cylinder ports with elbow fittings facing forward. Tighten elbows in cylinder as needed.

2. Screw 111" long hydraulic hose (#5) into the front elbow at cylinder base end and tighten.

3. Screw 123" long hydraulic hose (#7) into the rear elbow at cylinder rod end and tighten.

4. Thread adapter fittings (#6) onto the other end of the hydraulic hoses and tighten.

5. Purge hydraulic cylinder of air before continuing.
   a. Place hydraulic cylinder near a hydraulic power source on the ground in an area where it can be extend and retract freely.
   b. Connect hydraulic hoses to a power source.
   c. Fully extend & retract cylinder two or more cycles until cylinder rod moves in and out smoothly.
   d. Refer to “Bleeding Hydraulic Lines” on page 13 if cylinder will not move smoothly.

6. Thread adapter fittings (#6) onto the other end of the hydraulic hoses and tighten.

7. Secure cylinder base to main frame lug with 1" x 2 3/4" clevis pin (#1). Make sure hydraulic ports are positioned on top and cylinder base positioned to the front as shown.

8. Secure clevis pin with cotter pin (#2). Bend one or both legs of cotter pin.
8. Route hydraulic hoses through pivot bracket (#9) and spring hose loop (#8).
9. Adjust fittings on cylinder as needed to prevent wear on outside of hose due to any frame contact.
10. Connect hydraulic hoses to a power source and extend cylinder until holes in the rod clevis align with axle lug hole.
11. Attach cylinder rod to axle frame with 1" x 2 3/4" clevis pin (#1) and cotter pin (#2). Bend one or both legs of cotter pin.

Refer to Figure 1-4:
12. Fully extend hydraulic cylinder.
13. Remove transport lock (#1) from storage bar (#2) and pin to cylinder rod with wire retaining pin (#3).
14. Retract cylinder until weight of Disc Harrow is supported by the transport lock.

Reflectors Brackets
Refer to Figure 1-5:
1. Attach left-hand reflector bracket (#6) and right-hand reflector bracket (#7) to the disc frame with red & orange reflectors facing rearward using 1/2"-13 u-bolts (#13), flat washers (#11), and hex nylock nuts (#10).
2. Tighten nylock nuts (#1) to the correct torque.

Swing Arm Assembly
Refer to Figure 1-5:
1. Insert swing arms (#3A) through slots at rear of mainframe with pivot hole end in first and sharp object decal on the other end facing up.
2. Connect the two arms together at the center with two spacers (#1), one top slide bracket (#5), one bottom slide bracket (#2), two 3/4"-10 x 5" GR5 hex head bolts (#8), and two 3/4" lock nuts (#9). Tighten lock nuts to the correct torque.
3. Insert 1/2" spacer (#15) over rear pin located on the main frame.
4. Install end hole on stabilizer bar (#4) over rear pin and third hole back from the opposite end over the top slide bracket pin.
5. Secure stabilizer bar with hairpin cotters (#12).
6. Apply a bead of silicone on the inside lip of the swing tube outer ends. Press end caps (#14) into tube ends.
7. Repeat steps 1 to 6 to install front swing arms (#3B).
Section 1: Assembly & Set-up

Disc Gang Assembly
Refer to Figure 1-6 on page 11:

CAUTION
Be careful when working with Disc blades as the edges are sharp. Wear gloves when working around disc blades!

WARNING
Keep feet and other body extremities out from under the disc gangs to prevent serious injury or death from crushing or falling blade hazard.

IMPORTANT: Make sure swing arms (#1) are assembled to the disc frame before attaching disc gangs (#2) to the swing arms. See “Swing Arm Assembly” on page 10.

Disc gangs are provided in 7 1/2” & 9” spacing and with plain or notched disc blades. Check with your dealer to determine which disc gangs are mounted on the front and which are mounted on the back.

Front disc gangs are mounted with concave side of disc blades facing out and rear disc gangs with concave side facing in.

IMPORTANT: U-bolts (#5) are longer for attaching optional scraper bars and are always located in the holes furthest away from the vertical leg of the disc gang mounting brackets.

Do not install flat washers (#4) and lock nuts (#3A) until installation of optional scrapers.

1. Start with the rear disc gangs. Position them under the rear swing arms.
2. Lower the disc frame swing arms within close proximity of the mounting brackets as follows:
   Method #1: Use the hydraulic cylinder to raise and lower the swing arms.
   Method #2: Raise the front of the disc up to lower the rear swing arms and raise the back of the disc up to lower the front swing arms.
3. Align disc gangs with swing arms and then drop u-bolts over the swing arms into the mounting bracket holes. Take care to make sure the long u-bolts are mounted in the holes located farthest from the mounting bracket's vertical leg.
4. Continue lowering the swing arms until they are touching the mounting bracket flanges.
5. Install 3/4” hex flange top lock nuts (#3B) to the short u-bolts (#6). Draw nuts up loosely. Do not tighten.
6. Repeat steps 1 to 5 to attach the front disc gangs to the front swing arms.

NOTE: If axle nut runs out of threads, order 3/8” thick washer # 322-345D from your nearest Land Pride dealer and install between end disc and casting.
Disc Gang Positioning

Refer to Figure 1-7 & Figure 1-8:

You must know the Disc Harrow model number and distance between disc blades (7 1/2" or 9") to position disc gangs on the swing arms correctly.

1. Measure distance between disc blades. Use this measurement to find dimensions A & B in the “Positioning Chart” below. Dimensions A & B are the distances from end of swing arms to end of the first inside mounting bracket flange (#1).

2. Make a pencil mark (Dimensions A & B) on the swing arm where the end of the mounting bracket flange begins.

3. Move disc gang along the length of the swing arm until end of inside mounting bracket flange is aligned with the pencil mark made on the swing arm.

4. Tighten the short u-bolt (#6) for the inside mounting bracket (#1) to 170 ft-lbs. Do not attach nuts (#3A) to the long u-bolts.

5. Move out to the next mounting bracket. Align this bracket vertically and then tighten the short u-bolt to 170 ft-lbs.

6. Continue moving out while aligning the mounting brackets vertically and then tightening the short u-bolts until all brackets have been secured.

7. Refer to “Disc Scrapers” & “Scraper Assembly” on page 14 if optional disc scrapers are included. Skip to step 8 if they are not included.

8. Install two flat washers (#4) and 3/4" hex flange top lock nuts (#3A) to each leg of the long u-bolts (#5). Tighten nuts to 170 ft-lbs.

Positioning Chart

<table>
<thead>
<tr>
<th>Distance From End of Swing Arm to End of Mounting Bracket Flange</th>
<th>Model DH3510 Disc Spacing</th>
<th>Model DH3512 Disc Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7 1/2&quot;</td>
<td>9&quot;</td>
</tr>
<tr>
<td></td>
<td>7 1/2&quot;</td>
<td>9&quot;</td>
</tr>
<tr>
<td>See Figure 1-7 A</td>
<td>7 1/16&quot;</td>
<td>7 5/8&quot;</td>
</tr>
<tr>
<td>See Figure 1-8 B</td>
<td>8 7/8&quot;</td>
<td>9 1/2&quot;</td>
</tr>
<tr>
<td></td>
<td>8 7/16&quot;</td>
<td>9 1/16&quot;</td>
</tr>
</tbody>
</table>

IMPORTANT: Make sure all mounting bracket legs are vertical before tightening the short u-bolts. This will ensure that the long u-bolts are spaced properly when mounting scraper channels.
Adjutment Lever Storage

Refer to Figure 2-10 on page 17:

Store adjustment lever (#6) in a suitable location. One location would be pinned under stabilize bar (#8) with hairpin cotter (#7) as shown. If disc gang is angled such that pinning the bar in front does not work, then try pinning it behind.

Tractor Hook-up

**DANGER**

Crushing Hazard between tractor and implement. Do not allow anyone to stand between tractor and implement while backing-up to an implement. Do not operate hydraulic 3-Point lift controls while someone is directly behind the tractor or near the Disc Harrow.

**DANGER**

Engage parking brake, shut off tractor, and remove key before dismounting from the tractor.

Refer to Figure 1-9:

**IMPORTANT:** Jack attachment pin (#2) must be fully inserted and secured before working on or around a Disc Harrow that is not hooked to the tractor drawbar.

1. Make certain parking jack (#1) is properly attached to implement hitch and secured with detent pin (#2).
2. Pivot clevis hitch up horizontally and support in this position with wire retaining pin (#3).
3. Back tractor within close proximity of clevis.
4. Raise or lower parking jack (#1) to align clevis with tractor drawbar. Drawbar should fit between lower and upper plates of clevis.
5. Back tractor up to implement hitch until holes in drawbar and clevis are aligned.
6. Remove wire retaining pin (#3) and store in a safe place for future use.
7. Insert 1 1/4" flat washers (#5 & #6) equally above and below tractor drawbar until both spaces between drawbar and clevis plates are filled. This will reduce drawbar wear.
8. Insert 1 1/4" -7 x 6 1/2" GR5 hex bolt (#4) through bottom clevis hole, 1 1/4" washers (#5), drawbar, remaining 1 1/4" washers (#6) and out through upper clevis hole. Secure hex bolt with hex nut (#7) and jam nut (#8). Tighten hex nut snugly to remove all play and then back nut one-quarter turn. Tighten Jam nut tight against hex nut.
9. Lower parking jack (#1) until implement weight is removed from parking jack. Rotate parking jack counterclockwise 90 degrees and reinsert detent pin for storage.
10. Attach hitch safety chain (#9) to tractor. Adjust chain length to remove all slack except what is necessary to permit turning. Lock chain hook securely to the safety chain.
11. Attach hydraulic hoses (#10) to tractor hydraulic system.
12. Pin tractor drawbar in fixed center position.

Bleeding Hydraulic Lines

**DANGER**

Hydraulic fluid under high pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin or eyes, it must be treated by a doctor familiar with this type of injury within a few hours or gangrene may result. DO NOT DELAY.

1. With implement lowered to the ground, remove connecting pin from rod end of cylinder. Support cylinder in a vertical position with rod end up. Cycle hydraulic system to extend and retract cylinder. Repeat this process 2 times.
2. Crack fitting at the rod end of cylinder and apply hydraulic pressure until air free oil leaks from fitting and then retighten.
3. Support cylinder in a vertical position with base end up and repeat bleeding process on rod end cylinder fitting.
4. Pin clevis on rod end. Slowly cycle Disc Harrow to transport position while checking to make sure hydraulic hoses are not pinched in the process.
Disc Scrapers

Refer to Figure 2-1:

Orient disc scrapers as shown in Figure 2-1 to determine scraper types.

The bottom of Type “A” is skewed up to the left and mounted on the back right and front left disc gangs.

The bottom of Type “B” is skewed up to the right and mounted on the back left and front right disc gangs.

IMPORTANT: Disc scrapers (#5) must point in towards the disc concave surfaces. Hex head square neck bolts (#7) can be inserted from the bottom or top when attaching disc scrapers.

2. Select the correct mounting bracket (#1) for the back right disc gang and then orient the square bolt holes in the mounting bracket to match the square bolt holes in the mounting bracket shown in the illustration.

Scraper Assembly

Refer to Figures 2-2, 2-3, 2-4 & 2-5:

1. Determine correct orientation of scraper mounting brackets (#1) by locate the figure that illustrates your Disc Harrow model number and disc blade spacing. Be sure to check the disc blade spacing on both the front and rear disc gangs as they can be different. Mounting brackets for disc gangs with 7 1/2" blade spacing will have more square holes than ones with 9" blade spacings.

3. Bolt Type “A” disc scrapers to scraper mounting bracket (#1) with 1/2"-13 x 1 1/4" GR5 round head square neck bolts (#7) and 1/2" hex flange lock nuts (#8). Draw nuts up snug. Do Not tighten.

4. Attach scraper hangers (#6) to the long u-bolts (#4) with 3/4" flat washers (#3) and 3/4" hex flange lock nuts (#2). Draw nuts up snug. Do not tighten.

5. Attach scraper mounting bracket (#1) to scraper hangers (#6) with 1/2"-13 x 1 1/4" GR5 round head square neck bolts (#7) and 1/2" hex flange lock nuts (#8). Draw nuts up snug. Do not tighten.

6. Recheck fit-up of the scraper assembly and then tighten u-bolt hex flange nuts (#2) and scraper hanger lock nuts (#8) to the correct torque.

7. Adjust individual scrapers (#5) to be within close contact without touching the disc blade. Tighten scraper mounting nuts (#8) to the correct torque. See “Disc Scraper Adjustments” on page 19 for detailed scraper adjustment instructions.

8. Repeat steps 2 - 7 for the front left scraper assembly with Type “A” scrapers.

9. Repeat steps 2 - 7 for the back left scraper assembly with Type “B” scrapers.

10. Repeat steps 2 - 7 for the front right scraper assembly with Type “B” scrapers.
Section 2: Optional Equipment Set-up

Model DH3510 Disc Harrow With Blades Spaced 9” Apart
Figure 2-3

Model DH3512 Disc Harrow With Blades Spaced 7 1/2” Apart
Figure 2-4

Model DH3512 Disc Harrow With Blades Spaced 9” Apart
Figure 2-5
Furrow Filler Assembly
Refer to Figure 2-6:
1. Attach furrow filler (#1) to the right back end disc with 5/8"-11 x 2" GR5 round head square neck bolt (#4), spring lock washers (#9) and 5/8" hex nut (#8).
2. Tighten nuts to the correct torque.
3. Repeat steps 1 & 2 for the left side.

Furrow Scraper Assembly
Refer to Figure 2-6:
1. Remove existing 1/2" x 1 1/4" round head bolt (#6), hex nut (#7B) and end scraper (#10). Keep scraper for reuse.
2. Attach right furrow scraper (#3) and end scraper (#10) to scraper bar with new 1/2"-13 x 1 1/2" GR5 round head square neck bolt (#5) and 1/2" hex lock nut (#7A). Make sure furrow scraper is positioned above the end scraper as shown.
3. Tighten nut to the correct torque.
4. Repeat steps 1, 2 & 3 for the left side furrow scraper.
5. Adjust individual scrapers to be within close contact with disc concave surfaces without touching. See “Disc Scraper Adjustments” on page 19.

Center Sweep Assembly
Refer to Figure 2-7:
1. Attach sweep arm (#2) to the main frame at about mid point between the front disc gangs and rear disc gangs with two 5/8"-11 x 4 1/32" x 4 3/4" u-bolts (#7), spring bracket (#1), and hex flange lock nuts (#5).
2. Tighten lock nuts to the correct torque.
3. Mount center sweep (#8) to the sweep arm in the lowest position if disc blades are 22" in diameter. Mount in the highest position if disc blades are 20" in diameter. Use 7/16"-14 x 1 3/4" GR3 plow bolts (#3), lock washers (#6), and hex nuts (#4) when mounting.

Parking Jack Assembly
Refer to Figure 2-8:
1. Attach parking jack (#22) to jack pivot bracket with detent pin (#18). Screw parking jack up and down to position tongue (#5) at the correct hook-up height.
2. Pull pin and rotate parking jack counterclockwise 90° and reinsert pin for transporting.
Dual Wheel Assembly
Refer to Figure 2-9:
1. Support main frame off the floor with a suitable lifting device.
2. Install single bolt-on spindle (#6) to inside of axle frame (#2) with two 1/2"-13 x 3 1/4" GR5 hex head cap screws (#3) and 1/2" hex lock nuts (#5). Tighten nuts to the correct torque.
3. Mount wheel (#1) to hub (#7) with five 1/2"-20 lug nuts (#4). Tighten lug nuts to the correct torque.
4. Repeat steps 2 to 6 for the opposite side.

Slow Moving Vehicle Sign
Refer to Figure 2-10:
Attach slow moving vehicle sign (#2) to the back of the frame (#1) with 1/2"-13 x 3 1/32" x 5" u-bolt (#5), spring lock washers (#4) and 1/2" hex nuts (#3). Tighten nuts to the correct torque.
Out-of-Field Adjustments
Some adjustments can be made on concrete slabs or on a good level surface.

Side to Side Leveling
Check tire pressure. All tires should have equal pressure. See “Tire Inflation Chart” on page 34. Unequal tire pressure will allow the disc to dig in deeper on the side with the lowest tire pressure. This will make the Disc Harrow pull at an angle to the direction of travel.

Front to Rear Leveling
Refer to Figure 3-1:

WARNING
Total compressed length of leveling springs (#3) is 12 1/2" between flat washers. Never adjust nuts (#4) to compress springs under 12 1/2". Compressing springs too tight can damage the spring adjuster resulting in flying projectiles and sudden drop of the Disc Harrow.

Disc Gang Angle Adjustment
Refer to Figure 3-3:

CAUTION
Refer to Figure 3-2. Keep everyone clear of swing arm hanger brackets while adjusting disc gang angles. Body extremities can become pinched in the bracket openings.

Front to Back Leveling
Refer to Figure 3-1:

Refer to Figure 3-7 on page 20:
1. Lower Disc Harrow until rear disc blades are almost touching the ground. Raise implement slightly and then add stroke control spacers (#4 & #5) to the cylinder rod until rod is full.
2. Lower machine until cylinder is pressing against the stroke control spacers.

Refer to Figure 3-1:
3. Turn spring adjuster to position the front disc blades approximately 2 inches above the rear disc blades as follows:
   - Turn spring adjuster (#2) clockwise with adjusting lever (#1) to lower the rear disc blades.
   - Turn spring adjuster (#2) counterclockwise with adjusting lever (#1) to raise the rear disc blades.

Disc Gang Angle Adjustment (Rear Gangs Shown)
Figure 3-3

It is best if the disc gang angles are set at the smallest angle required to do the job. Refer to values provided in Figure 3-4 when adjusting the front disc gang angle and Figure 3-5 when adjusting the rear disc gang angle. A good starting angle is 18.5 degrees for the front gangs and 16.5 degrees for the rear gangs.

Refer to Figure 3-3:
Make adjustments with disc gangs off the ground:
1. Remove hairpin cotters (#1) from rear gang slide mount.
2. Remove stabilizing bar (#2) from pin (#3).
3. Place hole in adjusting lever (#4) over pin (#3). Make sure pin (#5) on adjusting lever is facing up.
4. Place one of the holes in stabilizing bar (#2) over pin (#5).
Section 3: Adjustments

Refer to Figure 3-4 & Figure 3-5:
5. Determine which hole to select in the stabilizing bar when setting disc gangs to the desired angle.

Refer to Figure 3-3 on page 18:
6. Pull or push on lever handle (#4) to move disc gangs forward or rearward until selected hole in stabilizing bar aligns with pin (#3).
7. Remove adjusting lever (#4) and place stabilizing bar (#2) on pin (#3).
8. Replace hairpin cotters (#1).
9. Repeat steps 1 to 8 for the front gangs.
10. Store adjusting lever under one of the stabilizing bars when completed. Make sure all hairpin cotters (#1) have been replaced.

Disc Scraper Adjustments
Refer to Figure 3-6 (Right Rear Disc Gang):

NOTE: Rear furrow filler scraper (#2) is optional and may not be included with your Disc Harrow.

1. Loosen bolt (#1) and adjust furrow filler scraper (#2) and scraper (#4B) as close to the disc blades as possible without touching.
2. Tighten 1/2" -13 GR5 carriage bolt #1 to the correct torque.
3. Loosen remaining bolts (#3) and adjust remaining cup scrapers (#4B) as close to the disc blades as possible without touching.
4. Tighten each 1/2" -13 GR5 carriage bolt #3 to the correct torque after adjusting the cup scraper (#4B) associated with that bolt.
5. Repeat scraper adjustment steps 1 to 4 on all four disc gangs.

In-Field Adjustments
Final adjustments will need to be made while operating the Disc Harrow in the field. Make sure you have properly hooked-up to your tractor, lubricated the Disc Harrow, made a full bolt inspection, and completely read this manual before going to the field.

CAUTION
Be careful when working with Disc blades as the edges are sharp. Wear gloves when working around disc blades!

CAUTION
Damage to the harrow can occur if it is not lifted out of the ground before making sharp turns.

IMPORTANT: Make sure tractor drawbar is pinned in the center position and tractor 3-Point arms are positioned so that they will not make contact with the Disc Harrow hitch.

IMPORTANT: The Disc Harrow tires can be raised off the ground to add weight to the disc gangs. However, DO NOT add any additional weight to the Disc Harrow in an attempt to make the disc blades sink into the ground deeper. Instead, make additional passes over the worked area.
Section 3: Adjustments

Disc Gang Angle
Increasing the disc gang angle will help the Disc Harrow to penetrate the soil and remove vegetation. However, too much angle can cause the Disc Harrow to operate erratically. Therefore, it is best if the disc gang angles are set at the smallest angle required to do the job. Make sure the angle of the front disc gangs is 3 degrees more than the rear disc gangs.

See also Section 8: Troubleshooting for helpful solutions to setting the disc gang angles.

Disc Leveling Front To Rear
Refer to Figure 3-1 on page 18:
The truest way to level your disc from front to rear is to observe behind the center of the Disc Harrow. In most soil conditions, a slight ridge in the center is actually a level operation. More air pockets will form where soil is thrown against each other, causing a small ridge to from that will disappear after a soaking rain.

1. If unit is leaving a significant ridge in the center, raise disc rear gangs by turning spring adjuster (#2) counterclockwise.
2. If unit is leaving a furrow (valley) in the center, lower the rear disc gangs by turning spring adjuster (#2) clockwise.
3. See also Section 8: Troubleshooting for helpful solutions to leveling the Disc Harrow.

Disc Blade Replacement
Refer to Figure 3-8:
When replacing notched disc blades, assemble the disc blades in a spiral pattern.

See note in Figure 1-6 on page 11: Order 3/8” thick washer(s) from your nearest Land Pride dealer if axle nut(s) runs out of threads before the disc blades are tight on the axle.
CAUTION
Always make sure the tractor is shut off and no one is near the tractor when installing stroke control spacers and/or transport lock. Also, keep away from possible pinch points during installation as the hydraulic lines could burst dropping the unit suddenly.

DANGER
Do not use tires as a step or lean against them. They can suddenly move even when they appear to be solidly against the ground causing a falling hazard against metal protruding objects and sharp disc blades.

- Follow all directions on the safety labels.
- Do not allow anyone to operate this Disc Harrow who has not been properly trained in its safe operation.
- Do not let anyone under the age of 16 operate the Disc Harrow.
- Pin drawbar in the fixed center position and make sure tractor 3-Point arms are positioned so that they will not make contact with the Disc Harrow hitch.
- Raise Disc Harrow out of the ground to make sharp turns. When making sharp turns, make sure the tractor tires do not make contact with the Disc Harrow hitch.
- Use the Disc Harrow for its intended purpose only. Never use the Disc Harrow as a wagon to carry things or pull other equipment behind it.
- Never carry passengers.
- Make sure all safety labels are in their proper location and in good condition before operation.
- Never work under the unit without properly blocking the unit up.
- Contact your local utility company before working the soil so that they may mark the location of any underground utility services in the area. Be sure to ask how close you can work to the marks they positioned.
- All nuts, bolts, screws, and fasteners should be checked daily for tightness. Refer to the “Torque Values Chart for Common Bolt Sizes” on page 34.
- Do not alter the Disc Harrow in a way which will adversely affect its performance or reliability or use the harrow for a purpose for which it was not designed.

WARNING
Do not allow anyone near the Disc Harrow during its operation.

CAUTION
Do not work over any underground wiring, pipes, or other obstructions. If there is any doubt, call your public service agency.

CAUTION
Keep everyone away from the Disc Harrow while raising, lowering and transporting to prevent serious injury or death from crushing or falling blade hazard.

Operator’s Responsibilities
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 Disc Harrow. Therefore, it is absolutely essential that no one operates the harrow without first having read, fully understood, and become totally familiar with the Operator’s Manual. Make sure the operator has paid particular attention to:

- Important Safety Information, pages 1 to 6
- Section 1: Assembly & Set-up, page 8
- Section 2: Optional Equipment Set-up, page 14
- Section 3: Adjustments, page 18
- Section 4: Operating Procedures, page 21
- Section 5: Maintenance & Lubrication, page 24

Operating Checklist

<table>
<thead>
<tr>
<th>✔</th>
<th>Check</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>Read “Important Safety Information”</td>
<td>Page 1</td>
</tr>
<tr>
<td>✔</td>
<td>Read all of the “Tractor Hook-up” and preparation instructions.</td>
<td>Page 13</td>
</tr>
<tr>
<td>✔</td>
<td>Read “Section 4: Operating Procedures”</td>
<td>Page 21</td>
</tr>
<tr>
<td>✔</td>
<td>Lubricate the harrow as needed. Refer to “Lubrication Points”.</td>
<td>Page 26</td>
</tr>
<tr>
<td>✔</td>
<td>Check the harrow initially and periodically for loose bolts &amp; pins. Pay special attention to disc gang hanger bolts and axle nuts. Refer to “Torque Values Chart for Common Bolt Sizes” for torque values.</td>
<td>Page 34</td>
</tr>
</tbody>
</table>
Transporting

**CAUTION**

When traveling on public roads whether at night or during the day, use accessory light and devices for adequate warning to operators of other vehicles. Comply with all federal, state, and local laws.

Refer to Figure 4-1:

1. Raise Disc Harrow fully up with tractor hydraulic control lever.
2. Remove transport lock (#1) from storage bar (#2) and pin to cylinder rod with wire retaining pin (#3) to make transporting safe.

3. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
4. Do not lower unit while transporting on pavement, blacktop, or road. Damage to unit and/or road may occur.
5. Select a safe ground travel speed when transporting from one area to another. Never travel faster than 20 mph when transporting.
6. Be sure to reduce tractor ground speed when turning; and, leave enough clearance so that the Disc Harrow does not contact obstacles such as buildings, trees, or fences.
7. When traveling over rough or hilly terrain, shift tractor to a lower gear.

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Field Operating Instructions

Final adjustments will need to be made while operating the Disc Harrow in the field. See “In-Field Adjustments” on page 19 for final adjusting instructions.

**NOTE:** Disc Harrows with disc blades spaced 7 1/2” apart are primarily used to pulverize soil. They work best in tilled soil. Disc blades spaced 9” apart are recommended for cutting non-tilled soil.

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**CAUTION**

Damage to the harrow can occur if it is not lifted out of the ground before making sharp turns.

1. Raise unit out of the ground to make sharp turns. When making sharp turns, make sure the tractor tires do not make contact with the Disc Harrow hitch.
2. Do not disc in reverse (traveling backwards). The Disc Harrow is designed to work soil while traveling forward only. Damage to the harrow may occur.
3. Do not back Disc Harrow into corners and tight places with disc gangs down. Instead, lift unit up and back unit into the corner or tight area. Lower disc to the ground and then proceed forward.
4. It is best to work ground traveling with a ditch and not across. Raise Disc Harrow up to cross shallow ditches straight on at 90 degrees. Crossing a ditch on the diagonal can damage the disc and/or tractor especially if a disc gang on one side digs into the ground. *Never cross deep ditches.*

---

Unhook Disc Harrow

Un-hook Disc Harrow from the tractor as follows:

1. Park on a level solid surface.
2. Remove all stroke control spacers from hydraulic cylinder and place on storage rack. Lower Disc Harrow until wheels are resting on the ground.
3. Place tractor gear selector in park, set park brake, shut tractor engine off, and remove switch key. Move cylinder lift lever back and forth to release hydraulic line pressure.
4. Rotate parking jack on the tongue down and install detent pin to lock parking jack in place. Set jack to desired height to maintain proper hook-up height.
5. Unhook hydraulic hoses from tractor and store hose ends on hydraulic hose loop.
6. Un-bolt hitch from tractor. Once tractor is clear of hitch, reinstall bolt, washers, and nuts to the Disc Harrow clevis hitch for safe keeping.
7. See “Storage” on page 25 if Disc Harrow is to be stored for a long time.
General Operating Instructions

Before putting your Land Pride 35 Series Disc Harrow into service you must thoroughly review the Operator’s Manual. Once you have read the Operator’s Manual and properly attached your Land Pride Disc Harrow on your tractor drawbar, you should be ready to raise it into transport position and head for the work site. You should have already removed any sizeable tree limbs, rocks, or debris from this area. You might have already plowed this area previously in preparation for planting. Do not attempt to disc wet or mucky soil and all areas should be well drained and capable of being walked on without having the soil stick to your shoes.

Discing action will commence as soon as you lower the disc from transport position, the unit touches the ground, and tractor begins to move forward. Your travel speed forward will be determined by soil conditions and available tractor horsepower. Never try to disc in reverse and when you reach the end of a pass, raise the unit up into transport before turning. Trying to turn sharply with the unit in the ground will cause extreme side loading on the discs and may cause damage. Making disc gang adjustments is relatively easy by raising the disc off of the ground, pulling the locking pin, making the required gang angle adjustment, and then reverse the process till your back in action.

Ground conditions and the finish you require will determine how you position the angles of your front and rear disc gangs. Both of the front and rear disc gangs have five angle adjustment positions. The best ground finish will usually be achieved when the rear gang is set at a slightly lesser angle than the front gang. The more aggressive you set the angle of the gangs, the more aggressive the cutting action in the soil profile will be. The more aggressive the cutting action is, the more horsepower will be required to pull your unit. Achieving the desired effect may require a little experimentation in your given conditions. If the soil is building up on or sticking to your discs then the soil is too wet and discing operations should be discontinued until the ground is dry and more workable. Optional disc scrapers are recommended and will significantly improve overall performance in conditions where soil continually tends to buildup or stick to discs.

Once you are finished using your disc and you have traveled to your equipment storage area, lower it out of transport position parking it on a dry and level surface. Clean it, service it, and make it ready for the next use by replacing any parts that may have become excessively worn or damaged during field operation.

With a little practice you will be able to achieve excellent results from your Land Pride 35 Series Disc Harrow. See “Features and Benefits” section or “Specifications & Capacities” for additional information and performance enhancing options.
General Maintenance Information

The parts on your Disc Harrow have been specially designed and should only be replaced with genuine Land Pride parts. Do not alter the harrow in a way which will adversely affect its performance.

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 after using the unit for several hours to be sure they are tight. Replace any worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride dealer.

⚠️ DANGER
Hydraulic fluid under high pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin or eyes, it must be treated by a doctor familiar with this type of injury within a few hours or gangrene may result. DO NOT DELAY.

⚠️ CAUTION
Do not work on or around the Disc Harrow without blocking the unit properly. The roller raised off the ground could drop suddenly crushing someone. If the roller is on the ground, it could roll onto someone crushing that person.

⚠️ CAUTION
Do not alter Land Pride equipment or replace parts with other brands. Doing so can cause equipment to perform improperly and may lead to breakage that can cause bodily injury. Replace parts only with genuine Land Pride parts.

⚠️ CAUTION
Be careful when working with Disc blades as the edges are sharp. Wear gloves when working around disc blades!

Tractor Maintenance

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

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

Daily Operational Checks

1. Clean the unit of dirt and trash to minimize rusting and wear.
2. Visually inspect all nuts for tightness. Torque loose nuts to the torque value listed on page 34.
3. Inspect all bearings for wear. Replace any worn out bearings.
4. Lubricate unit as required. See Lubrication Points on page 26 for detailed lubrication information.
5. Replace any decals that are worn or damaged.
Storage

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

1. Clean off any dirt and grease that may have accumulated on the Disc Harrow and moving parts. Scrape off compacted dirt and then wash surface thoroughly with a garden hose.

2. Inspect all nuts for tightness. Torque loose nuts to the torque value listed on page 34.

3. Inspect all bearings for wear. Replace any worn out bearings.

4. Clean dirt, oil, and grease from areas where paint has been worn, chipped, or scratched. Prime bare metal surfaces after cleaning and repaint to prevent rust. Ask your dealer for Land Pride 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.

5. Replace any decals that are worn or damaged.

6. Lubricate Disc Harrow per the Lubrication Section starting on page 26 to keep moisture out of moving components. Be sure to lubricate Spring Adjuster Tube as noted in the section to prevent moisture from collecting in the bottom of the tube and freezing.

7. Spray cutting blades with a rust inhibitor or paint to prevent rust.

<table>
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<tbody>
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<td>821-002CPAINT LP BLACK AEROSOL SPRAY CAN</td>
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<tr>
<td>821-066CPAINT ORANGE AEROSOL SPRAY CAN</td>
</tr>
</tbody>
</table>
## Section 5: Maintenance & Lubrication

### Spring Adjuster Tube

1 Zerk

Type of Lubrication: Multi-purpose Grease

Add 2 to 3 pumps when needed to lubricate the threads and when storing your Disc Harrow for winter to keep moisture from collecting in the bottom of the tube and freezing.

### Hitch Pivot Points

3 Zerks

Type of Lubrication: Multi-purpose Grease

- 25 Hours
- Seasonally

### Spring Washers

Spring Bearing Surfaces (2-places)

Type of Lubrication: Silicon Spray

Spray silicon on flat washers at both ends of springs to make turning spring adjuster easier.
Section 5: Maintenance & Lubrication

Table of Contents

25 Hours

Axle Top Clamp Half

3 Zerks
Type of Lubrication: Multi-purpose Grease
Lower Disc Harrow until wheels are resting on the ground to relieve pressure on upper clamp halves before applying grease.

25 Hours

Axle Bottom Clamp Half

3 Zerks
Type of Lubrication: Multi-purpose Grease
Raise Disc Harrow up until gangs are slightly off the ground to relieve pressure on lower clamp halves before applying grease.

25 Hours

Disc Gang Hanger Bearings

1 Zerk for every hanger bearing
Type of Lubrication: Multi-purpose Grease

25 Hours

Wheel Hub

1 Zerk per wheel hub
Depending on which wheel you have, the zerk may be located inside the hub or outside the hub. See illustration.
Type of Lubrication: Multi-purpose Grease
## DH35 Series

### Specifications & Capacities

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>DH3510</th>
<th>DH3512</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drawbar horsepower requirement</strong></td>
<td>45-100 hp</td>
<td>55-100 hp</td>
</tr>
<tr>
<td><strong>Weight with 20&quot; discs on 7 1/2&quot; spacing &amp; no other options</strong></td>
<td>2,491 lbs.</td>
<td>2,747 lbs.</td>
</tr>
<tr>
<td><strong>Hitch type</strong></td>
<td>Pull-type w/clevis &amp; hole for 1 1/4” pin</td>
<td></td>
</tr>
<tr>
<td><strong>Hitch frame construction</strong></td>
<td>3&quot; x 3&quot; x 1/4&quot; Wall tubing w/hose carrier and parking jack mount</td>
<td></td>
</tr>
<tr>
<td><strong>Transport width</strong></td>
<td>10’-10” Base unit</td>
<td>12’-4” Base unit</td>
</tr>
<tr>
<td><strong>Max. cultivation width</strong></td>
<td>10’-6” Approx.</td>
<td>12’-0” Approx.</td>
</tr>
<tr>
<td><strong>Mainframe Width</strong></td>
<td>93”</td>
<td></td>
</tr>
<tr>
<td><strong>Approx weight load on each blade with 7.5” spacing</strong></td>
<td>79 to 84 lbs</td>
<td>76 to 82 lbs</td>
</tr>
<tr>
<td><strong>Approx weight load on each blade with 9” spacing</strong></td>
<td>87 to 93 lbs</td>
<td>81 to 86 lbs</td>
</tr>
<tr>
<td><strong>Disc blade sizes and types</strong></td>
<td>20” or 22” Notched or smooth</td>
<td></td>
</tr>
<tr>
<td><strong>Disc blade spacing</strong></td>
<td>7.5” or 9”</td>
<td></td>
</tr>
<tr>
<td><strong>Disc bearing type</strong></td>
<td>Greasable &amp; triple lip sealed ball bearings</td>
<td></td>
</tr>
<tr>
<td><strong>Number of bearings</strong></td>
<td>12 For all ten foot disc configurations</td>
<td>12 For 9” disc spacing 16 For 7.5” disc spacing</td>
</tr>
<tr>
<td><strong>Forward gang angle adjustment</strong></td>
<td>Single pin adjustment to 15, 16 1/2, 18, 19 1/2, or 21 degrees</td>
<td></td>
</tr>
<tr>
<td><strong>Rear gang angle adjustment</strong></td>
<td>Single pin adjustment to 12, 13 1/2, 15, 16 1/2, or 18 degrees</td>
<td></td>
</tr>
<tr>
<td><strong>Side mainframe construction</strong></td>
<td>3” x 4” x 1/16” Wall tubing with gusset reinforcements</td>
<td>3” x 4” x 3/16” Wall tubing with gusset reinforcements</td>
</tr>
<tr>
<td><strong>Mainframe front tube</strong></td>
<td>5” x 3” x 1/4” Wall tubing</td>
<td></td>
</tr>
<tr>
<td><strong>Center gang beam construction</strong></td>
<td>4” x 3” x 1/4” Wall tubing</td>
<td></td>
</tr>
<tr>
<td><strong>Gang swing arm</strong></td>
<td>4” x 3” x 1/4” Wall tubing</td>
<td></td>
</tr>
<tr>
<td><strong>Gang axle construction</strong></td>
<td>1 1/8” Square hi-strength steel</td>
<td></td>
</tr>
<tr>
<td><strong>Front to rear leveling system</strong></td>
<td>Manual crank adjustment</td>
<td></td>
</tr>
<tr>
<td><strong>Depth control</strong></td>
<td>Cylinder stroke control spacers</td>
<td></td>
</tr>
<tr>
<td><strong>Hydraulic cylinder for depth/lift control</strong></td>
<td>3” x 8” Hydraulic cylinder with hoses and fittings</td>
<td></td>
</tr>
<tr>
<td><strong>Transport tires &amp; rims</strong></td>
<td>Two 9.5L x 15 tires mounted on 15” x 6” 5-bolt rims</td>
<td></td>
</tr>
<tr>
<td><strong>Disc scrapers</strong></td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>Center sweep kit</strong></td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>20” Rear furrow filler pair</strong></td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>18” Rear furrow filler pair</strong></td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>Parking jack</strong></td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>Dual wheel transport kit</strong></td>
<td>Optional</td>
<td></td>
</tr>
</tbody>
</table>
Overall Dimensions

Figure 6-1
## DH35 Series

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two working widths and several models to choose from</td>
<td>Designed to meet the operational and geographical needs of our customers.</td>
</tr>
<tr>
<td>Pull-type clevis hitch attachment for 45 to 100 hp tractors</td>
<td>Allows easy one person attachment to a wider range of lower priced new or used utility tractors.</td>
</tr>
<tr>
<td>High weight per blade concentration</td>
<td>Makes for easier disc penetration.</td>
</tr>
<tr>
<td>Heavy duty carrier frame and tongue construction</td>
<td>Provides for years of dependable service and performance.</td>
</tr>
<tr>
<td>Single pin release and lock on five position gang angling front and rear</td>
<td>Makes gang adjustments for less or more aggressive tillage an easy task.</td>
</tr>
<tr>
<td>Notched or smooth disc selection in 20” or 22” disc sizes</td>
<td>Lets customers choose a configuration that’s just right for their tillage task.</td>
</tr>
<tr>
<td>Greasable triple sealed disc bearing</td>
<td>Provides for ease of service and longer bearing life.</td>
</tr>
<tr>
<td>Large transport tires with option of adding two more</td>
<td>Provides capability of road and field transport over tough surface conditions.</td>
</tr>
<tr>
<td>Hydraulic depth and transport control</td>
<td>Goes from working to transport position and back again with easy single tractor hydraulic control lever manipulation.</td>
</tr>
<tr>
<td>Front to rear leveling system</td>
<td>Provides uniform front to rear disc gang penetration.</td>
</tr>
<tr>
<td>Optional dirt Scrapers</td>
<td>Keeps discs from balling up with sticky mud.</td>
</tr>
<tr>
<td>Optional 18” and 20” furrow filler blades</td>
<td>Provides for more uniform finish on multiple pass applications.</td>
</tr>
<tr>
<td>Optional center sweep kit</td>
<td>Provides more consistent uniform finish between gangs.</td>
</tr>
<tr>
<td>Optional parking jack</td>
<td>Assures easier hitch attachment to tractor.</td>
</tr>
<tr>
<td>2 Rear disc choices</td>
<td>Choose Notched or Smooth rear discs to achieve your desired finish.</td>
</tr>
</tbody>
</table>
This page left blank intentionally.
# DH35 Series Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc Harrow makes a high center ridge.</td>
<td>Disc blades are moving too much soil to the center.</td>
<td>Tilt Disc Harrow up at the rear by turning spring adjuster counterclockwise. See “Front to Rear Leveling” on page 18.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set tractor draw bar in its lowest possible position by flipping the offset drawbar over.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decrease tractor speed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase spacing between disc gangs by moving all gang hangers on both sides away from the center equal amounts.</td>
</tr>
<tr>
<td>Disc Harrow cuts a furrow (valley) in the center.</td>
<td>Disc blades are not moving enough soil to the center.</td>
<td>Tilt Disc Harrow down at the rear by turning spring adjuster clockwise.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set tractor draw bar in its highest possible position. This can be done by flipping an offset drawbar over.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase tractor speed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reduce spacing between rear disc gangs by moving all gang hangers on both sides toward the center by equal amounts.</td>
</tr>
<tr>
<td>Disc Harrow makes ridges on the out side cuts and furrows just inside the ridges.</td>
<td>Too much soil is thrown out by the front disc gangs.</td>
<td>Check front to rear disc leveling. Raise front disc gangs with spring adjuster by turning it 2 or 3 revolutions clockwise.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reduce front disc gang angle by one position.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set tractor draw bar in its lowest possible position by flipping the offset drawbar over.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Add disc furrow fillers to the rear disc gangs. See “Furrow Filler Assembly” on page 16.</td>
</tr>
<tr>
<td>Disc Harrow makes a furrow on the out side cuts and a ridge just inside the furrow.</td>
<td>Rear disc gangs are set too wide and picks up soil beyond where the front gangs throw it out.</td>
<td>Reduce spacing between rear disc gangs by moving all rear gang hangers in toward the center equal amounts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Raise front disc gangs by turning spring adjuster clockwise.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Furrow fillers on the end of the rear disc gangs may be too large.</td>
</tr>
<tr>
<td>Disc Harrow does not pull straight and/or shifts from side to side.</td>
<td>Front disc gangs run deeper than the rear disc gangs.</td>
<td>Tilt Disc Harrow down at the rear by turning spring adjuster clockwise.</td>
</tr>
<tr>
<td></td>
<td>Disc gangs are not centered on the frame.</td>
<td>Center disc gangs on the Disc Harrow.</td>
</tr>
<tr>
<td></td>
<td>Front disc gangs not at the same angle.</td>
<td>Set Front disc gangs at the same angle.</td>
</tr>
<tr>
<td></td>
<td>Rear disc gangs not at the same angle.</td>
<td>Set Rear disc gangs at the same angle.</td>
</tr>
<tr>
<td></td>
<td>Spring compressed length not set to the correct length.</td>
<td>Set spring compressed length to 12 1/2&quot;.</td>
</tr>
<tr>
<td>Disc Harrow leaves a depression in the worked soil behind tractor wheels</td>
<td>Tire slippage, heavy tractor, soft soil conditions.</td>
<td>Add duals, increase tractor speed, increase gang angle and/or increase cutting depth.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tilt Disc Harrow down at the rear by turning spring adjuster clockwise.</td>
</tr>
</tbody>
</table>
## DH35 Series Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc Harrow won’t settle down and operate smoothly.</td>
<td>Disc gang angles are set too high.</td>
<td>Set disc gang angles at the smallest angle required to do the job. Make sure front disc gangs are set 3 degrees higher than the rear disc gang angles.</td>
</tr>
<tr>
<td>Disc Harrow does not penetrate soil properly.</td>
<td>Disc gangs are not set at enough angle.</td>
<td>Increase disc gang angles. Make sure the front disc gangs are set 3 degrees more than the rear disc gangs.</td>
</tr>
<tr>
<td></td>
<td>Tires are not raised off the ground.</td>
<td>Raise Disc Harrow tires off the ground by fully retracting hydraulic lift cylinder.</td>
</tr>
<tr>
<td></td>
<td>Not enough weight with tires raised off the ground.</td>
<td>Fill Disc Harrow tires with water or calcium chloride. Do not add weight such as tractor weights to the Disc Harrow frame.</td>
</tr>
<tr>
<td>Outside front disc blades and/or gang axle is bending or breaking.</td>
<td>Making sharp turns and crossing ditches with Disc Harrow in the ground.</td>
<td>Raise Disc Harrow out of the ground when making sharp turns and crossing ditches. Do not cross deep ditches.</td>
</tr>
<tr>
<td></td>
<td>Gang axles become loose</td>
<td>Keep disc gang axle nuts tight. See “Additional Torque Values” on page 34.</td>
</tr>
<tr>
<td>Disc gang axles keep coming loose or are bending.</td>
<td>Disc components are not sliding on axle giving a false sense of tightness</td>
<td>Check fit-up of all disc components. Make sure they are all tight against one another. Especially check to make sure end washers and disc blades are on correct.</td>
</tr>
<tr>
<td></td>
<td>Foreign objects that become clamped between disc components and fall out through use.</td>
<td>Completely disassembly disc gang components and clean thoroughly before reassembling. Check spacers for uneven edges that will not allow a tight seal between disc blade and spacer.</td>
</tr>
<tr>
<td></td>
<td>Solid obstructions in the soil such as rocks and stumps.</td>
<td>Remove solid obstructions, raise disc up above solid objects or go around. Travel 3 mph or slower over small obstructions.</td>
</tr>
<tr>
<td>Bearing problems</td>
<td>Bent gang axle causing bearing to wobble.</td>
<td>Replace gang axle and damaged bearings.</td>
</tr>
<tr>
<td></td>
<td>Foreign objects and/or dirt caught between spacer and disc blades causing bearing to wobble.</td>
<td>Completely disassembly disc gang components and clean thoroughly before reassembling. Replace damaged bearings.</td>
</tr>
<tr>
<td></td>
<td>Abrasive material such as wire rubbing against the bearing and destroying its seals.</td>
<td>Remove abrasive material right away. Replace damaged bearings.</td>
</tr>
<tr>
<td></td>
<td>Contaminated bearings caused by not cleaning the grease zerks before adding grease to the bearings.</td>
<td>Always clean grease zerks before pumping grease into the bearings. Replace damaged bearings.</td>
</tr>
<tr>
<td></td>
<td>Pumping grease into the bearing too fast in cold weather will pop off bearing seals.</td>
<td>Pump grease into the bearings slower especially in cold weather. Replace all damaged bearings.</td>
</tr>
</tbody>
</table>
## Section 9: Torque Values Chart

### Torque Values Chart for Common Bolt Sizes

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Bolt Size (Metric)</th>
<th>In-tpi</th>
<th>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
<th>Class 5.8</th>
<th>Class 8.8</th>
<th>Class 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; - 20</td>
<td>M 5 X 0.8</td>
<td>7.4</td>
<td>6.5</td>
<td>11</td>
<td>5.6</td>
<td>16</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>M 6 X 1</td>
<td>8.5</td>
<td>6.5</td>
<td>13</td>
<td>10</td>
<td>16</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>M 8 X 1.25</td>
<td>15</td>
<td>11</td>
<td>17</td>
<td>14</td>
<td>20</td>
<td>19</td>
<td>25</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>M 8 X 1</td>
<td>17</td>
<td>13</td>
<td>19</td>
<td>16</td>
<td>21</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>M10 X 1.5</td>
<td>27</td>
<td>20</td>
<td>17</td>
<td>23</td>
<td>18</td>
<td>21</td>
<td>27</td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>M10 X 0.75</td>
<td>31</td>
<td>22</td>
<td>31</td>
<td>23</td>
<td>22</td>
<td>24</td>
<td>49</td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>M12 X 1.75</td>
<td>49</td>
<td>36</td>
<td>45</td>
<td>37</td>
<td>39</td>
<td>37</td>
<td>50</td>
</tr>
<tr>
<td>7/16&quot; - 20</td>
<td>M12 X 1.5</td>
<td>5/16&quot; - 18</td>
<td>105</td>
<td>79</td>
<td>105</td>
<td>78</td>
<td>105</td>
<td>78</td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td>M12 X 1</td>
<td>66</td>
<td>49</td>
<td>76</td>
<td>53</td>
<td>145</td>
<td>105</td>
<td>145</td>
</tr>
<tr>
<td>1/2&quot; - 20</td>
<td>M14 X 2</td>
<td>75</td>
<td>55</td>
<td>85</td>
<td>66</td>
<td>145</td>
<td>105</td>
<td>145</td>
</tr>
<tr>
<td>9/16&quot; - 12</td>
<td>M14 X 1.5</td>
<td>95</td>
<td>70</td>
<td>110</td>
<td>85</td>
<td>155</td>
<td>115</td>
<td>155</td>
</tr>
<tr>
<td>9/16&quot; - 13</td>
<td>M16 X 2</td>
<td>105</td>
<td>79</td>
<td>105</td>
<td>78</td>
<td>125</td>
<td>85</td>
<td>125</td>
</tr>
<tr>
<td>5/8&quot; - 11</td>
<td>M16 X 1.5</td>
<td>130</td>
<td>97</td>
<td>150</td>
<td>105</td>
<td>175</td>
<td>115</td>
<td>175</td>
</tr>
<tr>
<td>5/8&quot; - 18</td>
<td>M18 X 2.5</td>
<td>150</td>
<td>110</td>
<td>170</td>
<td>120</td>
<td>205</td>
<td>145</td>
<td>205</td>
</tr>
<tr>
<td>3/4&quot; - 10</td>
<td>M18 X 1.5</td>
<td>235</td>
<td>170</td>
<td>360</td>
<td>265</td>
<td>410</td>
<td>295</td>
<td>410</td>
</tr>
<tr>
<td>3/4&quot; - 12</td>
<td>M20 X 2.5</td>
<td>260</td>
<td>190</td>
<td>405</td>
<td>295</td>
<td>450</td>
<td>325</td>
<td>450</td>
</tr>
<tr>
<td>7/8&quot; - 9</td>
<td>M20 X 1.5</td>
<td>225</td>
<td>165</td>
<td>585</td>
<td>430</td>
<td>605</td>
<td>490</td>
<td>605</td>
</tr>
<tr>
<td>7/8&quot; - 14</td>
<td>M24 X 3</td>
<td>250</td>
<td>185</td>
<td>640</td>
<td>475</td>
<td>730</td>
<td>565</td>
<td>730</td>
</tr>
<tr>
<td>1&quot; - 8</td>
<td>M24 X 2</td>
<td>340</td>
<td>250</td>
<td>875</td>
<td>645</td>
<td>1230</td>
<td>890</td>
<td>1230</td>
</tr>
<tr>
<td>1&quot; - 12</td>
<td>M30 X 3.5</td>
<td>370</td>
<td>275</td>
<td>955</td>
<td>705</td>
<td>1350</td>
<td>995</td>
<td>1350</td>
</tr>
<tr>
<td>1-1/8&quot; - 7</td>
<td>M30 X 2</td>
<td>480</td>
<td>355</td>
<td>1080</td>
<td>895</td>
<td>1750</td>
<td>1290</td>
<td>1290</td>
</tr>
<tr>
<td>1-1/8&quot; - 12</td>
<td>M36 X 3.5</td>
<td>540</td>
<td>395</td>
<td>1210</td>
<td>990</td>
<td>1960</td>
<td>1440</td>
<td>1440</td>
</tr>
<tr>
<td>1-1/4&quot; - 7</td>
<td>M36 X 2</td>
<td>680</td>
<td>500</td>
<td>1520</td>
<td>1120</td>
<td>2460</td>
<td>1820</td>
<td>1820</td>
</tr>
<tr>
<td>1-1/4&quot; - 12</td>
<td>M36 X 2</td>
<td>750</td>
<td>555</td>
<td>1680</td>
<td>1240</td>
<td>2730</td>
<td>2010</td>
<td>2010</td>
</tr>
<tr>
<td>1-3/8&quot; - 6</td>
<td>M42 X 3</td>
<td>890</td>
<td>655</td>
<td>1990</td>
<td>1470</td>
<td>3230</td>
<td>2380</td>
<td>2380</td>
</tr>
<tr>
<td>1-3/8&quot; - 12</td>
<td>M42 X 2</td>
<td>1010</td>
<td>745</td>
<td>2270</td>
<td>1670</td>
<td>3680</td>
<td>2710</td>
<td>2710</td>
</tr>
<tr>
<td>1-1/2&quot; - 6</td>
<td>M54 X 3</td>
<td>1180</td>
<td>870</td>
<td>2640</td>
<td>1950</td>
<td>4290</td>
<td>3160</td>
<td>3160</td>
</tr>
<tr>
<td>1-1/2&quot; - 12</td>
<td>M54 X 2</td>
<td>1330</td>
<td>980</td>
<td>2970</td>
<td>2190</td>
<td>4820</td>
<td>3560</td>
<td>3560</td>
</tr>
</tbody>
</table>

1. in-tpi = nominal thread diameter in inches-threats per inch
2. N·m = newton-meters
3. ft-lb = foot pounds
4. mm x pitch = nominal thread diameter in millimeters x thread pitch

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

### Additional Torque Values

- **Disc gang axle nuts**: 500 ft. lbs

### Tire Inflation Chart

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Inflation PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5L x 15 x 8 ply Rib Implement</td>
<td>44</td>
</tr>
</tbody>
</table>
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
**Hydraulic Cylinder:** One year Parts and Labor.
**Hoses and seals:** Considered wear items.
**Disc Blades:** Considered wear items.

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

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

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

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

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

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

**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 ____________________