End-Wheel, No-Till Drill

313-855M
Operator 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 another language, please see your Land Pride dealer.

Printed 2018-06-12
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 with the option(s) weight and measurements.

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Dealer Contact Information

Name: __________________________
Street: _________________________
City/State: _____________________
Telephone: _____________________
Email: _________________________
Dealer’s Customer No.: ___________

⚠️WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
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Printed in the United States of America.
Parts Manual QR Locator
The QR Code® (Quick Reference) on the front 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® at left will link you to available dealers for Land Pride products. Refer to Parts Manual QR Locator for detailed instructions.
Important Safety Information

Look for Safety 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

Signal words designate a degree or level of hazard seriousness.

DANGER, and the color Safety Red, indicate an imminent hazard which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING, and the color Safety Orange, indicate a potential hazard 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, and the color Safety Yellow, indicate a potential hazard which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

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.

Be Familiar with Safety Decals

▲ Read and understand “Safety Decals” on page 5, thoroughly.
▲ Read all instructions noted on the decals.
▲ Keep decals clean. Replace damaged, faded, and illegible decals.
▲ Keep decals clean. Replace damaged, faded and illegible decals.
Wear Protective Equipment

- Wear protective clothing and equipment.
- Wear clothing and equipment appropriate for the job. Avoid loose-fitting clothing.
- Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection such as earmuffs or earplugs.
- Because operating equipment safely requires your full attention, avoid wearing entertainment headphones while operating machinery.

Handle Chemicals Properly

Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil and property.

- Do not use liquid seed treatments with the drill.
- Read and follow chemical manufacturer’s instructions.
- Wear protective clothing.
- Handle all chemicals with care.
- Avoid inhaling smoke from any type of chemical fire.
- Never drain, rinse or wash dispensers within 100 feet (30m) of a freshwater source, nor at a car wash.
- Store or dispose of unused chemicals as specified by chemical manufacturer.
- Dispose of empty chemical containers properly. Laws generally require power rinsing or rinsing three times, followed by perforation of the container to prevent re-use.

Avoid High Pressure Fluids

Escaping fluid under pressure can penetrate the skin, causing serious injury.

- Avoid the hazard by relieving pressure before disconnecting hydraulic lines.
- 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.
- If an accident occurs, seek immediate medical attention from a physician familiar with this type of injury.

Keep Riders Off Machinery

Riders obstruct the operator’s view. Riders could be struck by foreign objects or thrown from the machine.

- Never allow children to operate equipment.
- Keep all bystanders away from machine during operation.
Use Safety Lights and Devices
Slow-moving tractors and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.

▲ Use flashing warning lights and turn signals whenever driving on public roads.
▲ Use lights and devices provided with implement

Transport Machinery Safely
Maximum transport speed for implement is 20 mph (30 kph). Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.

▲ Do not exceed 20 mph (30 kph). Never travel at a speed which does not allow adequate control of steering and stopping. Reduce speed if drill is not equipped with brakes.
▲ Comply with state and local laws.
▲ Carry reflectors or flags to mark drill in case of breakdown on the road.
▲ Semi-mounted and 3-point implements reduce weight on steering tires. Verify that tractor is correctly ballasted. Watch for signs of poor steering traction.

Tires Not a Step
Do not use gauge wheel or lift-assist tires as steps. A tire could spin underfoot, resulting in a fall onto the implement or ground, possibly causing serious injury.

▲ The gauge wheel tires can be in poor ground contact at any time, even with the drill lowered in the field. They can appear to be in ground contact, and spin easily, in multiple conditions.
▲ The lift-assist tires can be in poor ground contact, or out of ground contact, whenever the drill is lowered.

Shutdown and Storage
▲ Park on level ground.
▲ Unhitch and store the drill in an area where children normally do not play.

Tire Safety
Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

▲ When inflating tires, use a clip-on chuck and extension hose long enough for you to stand to one side—not in front of or over tire assembly. Use a safety cage if available.
▲ When removing and installing wheels, use wheel-handling equipment adequate for weight involved.
Practice Safe Maintenance

▲ Understand procedure before doing work. Use proper tools and equipment. Refer to this manual.
▲ Work in a clean, dry area.
▲ Lower the drill, put tractor in park, turn off engine, and remove key before performing maintenance. If work must be performed with implement raised, use blocks or jackstands rated for the drill weight.
▲ Make sure all moving parts have stopped and all system pressure is relieved.
▲ Allow drill to cool completely.
▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems.
▲ Welding: Disconnect battery ground. Avoid fumes from heated paint.
▲ Inspect all parts. Make sure parts are in good condition and installed properly.
▲ Remove buildup of grease, oil or debris.
▲ Remove all tools and unused parts from drill before operation.

Safety At All Times

Thoroughly read and understand the instructions in this manual before operation. Read all instructions noted on the safety decals.
▲ Be familiar with all drill functions.
▲ Operate machinery from the driver’s seat only.
▲ Do not leave drill unattended with tractor engine running.
▲ Do not stand between the moving tractor and drill during hitching.
▲ Keep hands, feet and clothing away from power-driven parts.
▲ Wear snug-fitting clothing to avoid entanglement with moving parts.
▲ Make sure all persons are clear of working area.
Safety Decals

Safety Reflectors and Decals
Your implement comes equipped with all lights, safety reflectors and decals in place. They were designed to help you safely operate your implement.

▲ Read and follow decal directions.
▲ Keep lights in operating condition.
▲ Keep all safety decals clean and legible.
▲ Replace all damaged or missing decals. Order new decals from your Land Pride dealer. Refer to this section for proper decal placement.
▲ When ordering new parts or components, also request corresponding safety decals.

To install new decals:
1. Clean the area on which the decal is to be placed.
2. Peel backing from decal. Press firmly on surface, being careful not to cause air bubbles under decal.

Reflector: Slow Moving Vehicle (SMV)
818-055C
On rear of walkboard; 1 total
See “Transporting” on page 19.

Reflectors: Red (706NT only)
838-266C
On rear face of walkboard at each end; 2 total
See “Transporting” on page 19.

Reflectors: Red (1006NT S/N 1136220-)
838-266C
On rear face of walkboard, outside daytime reflectors; 2 total
See “Transporting” on page 19.
Reflectors: Red (1006NT S/N 1136221+)
838-266C
On rear face of light bracket, both ends;
2 total
See “Transporting” on page 19.

Reflectors: Amber
838-266C
On side frames at walkboard ends,
on front face of lower front tool bars, outside ends;
4 total
See “Transporting” on page 19.

Reflectors: Daytime (1006NT S/N 1136220-)
838-267C
On rear face of walkboard, inside red reflectors;
2 total
See “Transporting” on page 19.

Reflectors: Daytime (1006NT S/N 1136221+)
838-267C
On rear face of walkboard at each end;
2 total
See “Transporting” on page 19.
Caution: Operation of Machine
818-587C

On top of tongue; 1 total

Caution: General
818-719C

On top of tongue; 1 total
See “Important Safety Information” on page 1.

Caution: Tires Not A Step
818-398C

One each on outer frame weldments, one on right-hand end of walkboard; 3 total
See “Tires Not a Step” on page 3.
Caution: Moving Chain
818-518C

![CAUTION]

MOVING CHAIN HAZARD
To prevent serious injury from moving chain:
• DO NOT operate with enclosure missing

Dual Seed: On outside of box end wall, under both covers; 2 total

Caution: Moving Chain (Option)
818-518C

![CAUTION]

MOVING CHAIN HAZARD
To prevent serious injury from moving chain:
• DO NOT operate with enclosure missing

Dual Seed: On outside of box end wall, under both covers; 2 total

Caution: Moving Chain (Option)
818-518C

![CAUTION]

MOVING CHAIN HAZARD
To prevent serious injury from moving chain:
• DO NOT operate with enclosure missing

Native Grass: On outside of box end wall, under both covers; 2 total

Caution: Moving Chain (Option)
818-518C

![CAUTION]

MOVING CHAIN HAZARD
To prevent serious injury from moving chain:
• DO NOT operate with enclosure missing

Small Seeds: On chain guard of Small Seeds option; 1 total
Caution: High Pressure Hazard
838-556C

To Avoid Injury or Machine Damage from Improper Tire Inflation or Torquing of Wheel Bolts:
- Maximum inflation pressure of tires is 40 psi,
- Torque wheel bolts to 170 lb-ft.

On each wheel; 2 total

Warning: High Pressure Fluid
818-437C

On top of tongue; 1 total

See “Hitching Tractor to Drill” on page 13.

Warning: Speed
818-337C

On on top of tongue; 1 total

See “Transporting” on page 19.

Warning: Jack Angle
858-895C

To prevent serious injury or death:
Do not adjust jack angle without being hitched and connected to a tractor.

On face of jack mount; 1 total
Important Safety Information

Warning: Falling Hazard
838-102C

![Warning: Falling Hazard](image)

On left-hand side of frame at ladder;
1 total
See “Field Operation” on page 18.

Warning: Hand Crush (Option)
838-611C

![Warning: Hand Crush (Option)](image)

Dual Seed: Under lid;
1 total
See “Hitching Tractor to Drill” on page 13.

Warning: Hand Crush (Option)
838-611C

![Warning: Hand Crush (Option)](image)

Native Grass: Under lid;
2 total
See “Hitching Tractor to Drill” on page 13.

Danger: Possible Chemical Hazard
838-467C

![Danger: Possible Chemical Hazard](image)

Under lid of Small Seeds box;
1 total
See “Field Operation” on page 18.
Introduction

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

Description of Unit

The 706/1006NT is a grain drill of end wheel design which couples Land Pride spring mounted coulter to achieve no-till drilling capabilities. The end wheel design keeps the ground-working components in line with the end wheels for accurate coulter depth and seed placement over uneven terrain and allows the unit to follow field curves without side-loading the openers.

Intended Usage

Use this drill to primarily for no-till drilling. It can easily be adapted for conventional drilling applications.

Models Covered

This manual applies to Land Pride compact drill model:

706/1006NT 15-row 7.5-inch (19.1 cm)

Using This Manual

This manual familiarizes you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

The information in this manual is current at printing. Some parts may change to assure top performance.

NOTICE

Refer to 706/1006NT End-Wheel, No-Till Drill seed rate book for seed rate charts, calibration instructions, and setting seed rate instructions.

Document Family

<table>
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<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>313-855M</td>
<td>Operator’s Manual (this document)</td>
</tr>
<tr>
<td>313-855P</td>
<td>706/1006NT Parts Manual</td>
</tr>
<tr>
<td>313-855Q</td>
<td>706/1006NT Pre-Delivery Manual</td>
</tr>
<tr>
<td>313-855B</td>
<td>Seed Rate Manual</td>
</tr>
</tbody>
</table>

NOTICE

Identifies an Economic (not a Safety) Risk:

NOTICE provides a crucial point of information related to the current topic. Read and follow the instructions to avoid damage to equipment and ensure desired field results.

Note: This form sets off useful information related to the current topic, or forestalls possible misunderstanding.

Right-hand and left-hand as used in this manual are determined by facing the direction the machine will travel while in use unless otherwise stated. An orientation rose in some line art illustrations shows the directions of: Up, Back, Left, Down, Front, Right.
Owner Assistance

If you need customer service or repair parts, contact a Land Pride dealer. They have trained personnel, repair parts and equipment specially designed for Land Pride products.

Refer to Figure 2

Your machine’s parts were specially designed and should only be replaced with Land Pride parts. Always use the serial and model number when ordering parts from your Land Pride dealer. The serial-number plate is located on the top front cross-tube, left of the left gauge wheel mount.

Record your drill model and serial number here and on the bottom of the warranty page (inside back cover) for quick reference:

Model Number: _______________________
Serial Number: _______________________

Further Assistance

Your Land Pride dealer wants you to be satisfied with your new drill. If for any reason you do not understand any part of this manual or are otherwise dissatisfied with the product please contact:

Land Pride Service Department
P.O. Box 5060
Salina, KS 67402-5060

Or go to www.landpride.com and follow the contact information at the bottom of your screen for our service FAQs.
Preparation and Setup

This section will help you prepare your tractor and drill for use. Before going to the field, you must hitch a tractor to the drill, hook up hydraulics and check that hydraulics have been bled.

Pre-start Checklist

- Read and understand “Important Safety Information,” page 1.
- Check that all working parts are moving freely, bolts are tight, and cotter pins are spread.
- Check that all grease fittings are in place and lubricated. Refer to “Lubrication,” page 30.
- Check that all safety decals and reflectors are correctly located and legible. Replace if damaged. See “Safety Decals,” page 5.
- Inflate tires to pressure recommended and tighten wheel bolts as specified. See “Appendix,” page 38.

Hitching Tractor to Drill

DANGER

You may be severely injured or killed by being crushed between the tractor and drill. Do not stand or place any part of your body between drill and moving tractor. Stop tractor engine and set park brake before installing the hitch pin.

Hitch Assembly

Refer to Figure 3

1. Insert upper hitch plate (1) into clevis hitch (2) with a spacer tube (3) on each side of ball swivel.
2. Bolt in place with 1 x 5 1/2 inch bolt (4), flat washer (5) and nylock nut (6).
Hitch Height
Refer to Figure 4
For proper field operation, drill tongue should run level in field position.

a. With drill in field position, adjust tongue jack to level tongue.
b. Measure tractor drawbar height to determine proper hitch height on drill.
c. Attach hitch to tongue with two 3/4 x 6 inch bolts (1), lock washers (2) and nuts (3).

Note: Mounting holes in drill hitch are offset so hitch can be turned over and attached in three different positions, giving six different hitch heights.

Note: When hitching drill to a different tractor, check for a difference in draw-bar heights. If heights are different, readjust accordingly.

Hitching to Tractor
Refer to Figure 5
1. Back tractor to drill. Using the screw jack, adjust drill tongue to get drawbar under upper hitch plate (1).
2. Align rear hole in upper hitch plate with large hole in drawbar. Place lower hitch plate (4) under drawbar and attach to upper hitch plate with two 5/8 x 4 inch bolts (5), flat washers (6) and nylock nuts (7).
3. Bolt top upper hitch plate through hole in drawbar to lower hitch plate with 1 x 5 1/2 inch bolt (8), USS flat washer (3) and nylock nut (2).
4. Securely attach safety chain to drill hitch with a 3/4 x 2 1/4 inch bolt (10), safety washer (11), lock washer (12) and nut (13). Then attach chain to tractor drawbar.

Refer to Figure 6
5. Store jack on top of tongue.
Hydraulic Hose Hookup

Refer to Figure 7

Land Pride hydraulic hoses are color coded to help you hook up hoses to your tractor outlets. Hoses that go to the same remote valve are marked with the same color.

<table>
<thead>
<tr>
<th>Color</th>
<th>Hydraulic Function</th>
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<tr>
<td>Blue</td>
<td>Transport Lift Cylinders</td>
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To distinguish hoses on the same hydraulic circuit, refer to plastic hose holder. Hose under extended-cylinder symbol feeds cylinder base ends. Hose under retracted-cylinder symbol feeds cylinder rod ends.

Rephasing Cylinders

The lift cylinders may, after a period of time, get out of time or phase. The effects of this can be seen when one side of the drill is running too low or too high because its lift cylinder is either over extended or not retracted compared to the other lift cylinder.

To rephase the cylinders, raise drill completely and hold tractor hydraulic lever on for a few seconds to give cylinders time to rephase.

Each time drill is raised out of ground momentarily reverse hydraulic lever immediately after rephasing to allow cylinders to retract about 1/2 inch. This will help in maintaining a level drill.

Note: Understand that having cylinders become gradually out of time is different than having air trapped in the system from improper bleeding. Each condition is corrected differently.
Bleeding Hydraulics

**WARNING**

Escaping fluid under pressure can have sufficient pressure to penetrate the skin. Check all hydraulic lines and fittings before applying pressure. Fluid escaping from a very small hole can be almost invisible. Use paper or cardboard, not body parts, and wear heavy gloves to check for suspected leaks. If injured, seek medical assistance from a doctor that is familiar with this type of injury. Foreign fluids in the tissue must be surgically removed within a few hours or gangrene will result. Check that tractor hydraulic reservoir is full.

The drill lifting system is equipped with rephasing type hydraulic cylinders that require a special procedure for bleeding air from the hydraulic circuits. Read and follow this procedure carefully. Rephasing type cylinders will not function properly with air in hydraulic circuit.

1. Check hydraulic fluid in tractor reservoir and fill reservoir to proper level. Drill-system capacity is about 1 gallon. Add fluid to system as needed. A low reservoir level may draw air back into the system, causing jerky or uneven cylinder movements.

2. With drill attached to tractor, jack drill up and support frame at ends near gauge wheels.

3. With drill raised and supported, unpin cylinders from gauge wheel arms and frame. Turn cylinders "rod end up". Wire or otherwise safely support rod ends higher than base ends.

**Note:** In order to prevent trapped air pockets, rod end must be higher than any other part of cylinder during bleeding operation.

4. With tractor engine idling, engage tractor hydraulics to extend cylinder rods. When cylinder rods are completely extended, hold remote lever on for one minute.

5. Retract cylinders. Extend cylinders again and hold remote lever on for one more minute. Repeat this step two more times to completely bleed system.

6. Pin cylinders to drill frame and gauge wheel arm with transport cylinder locks in place. If any air still is trapped in either cylinder, the cylinder will have a spongy, erratic movement and drill will not raise evenly. If necessary, repeat bleeding process.

7. Refill tractor hydraulic fluid reservoir to its proper level.

**Note:** After the drill is raised, a slight settling will occur due to the action of the rephasing cylinders.
Leveling Drill

Refer to Figure 8

1. Loosen locknuts (2) and adjust cylinder eyebolts (1). The eye bolts are factory pre-set at 4 3/4” of thread above mounting plate.
2. Raise drill with hydraulics until openers and coulters are 1 to 2 inches off the ground.
3. Measure height of coulter tube from ground on both ends of drill.
4. Adjust eyebolt to level drill from end to end.
5. Tighten nuts on eyebolts when drill is level.

⚠️ CAUTION

Do not exceed 5 inches of thread above mounting plate. This could lead to hydraulic cylinder damage.
Operating Instructions

This section covers general operating procedures. Experience, machine familiarity and the following information will lead to efficient operation and good working habits. Always operate farm machinery with safety in mind.

Pre-start Checklist
2. Lubricate drill as indicated under “Lubrication,” page 30.
3. Check all tires for proper inflation. See “Appendix,” page 38.
4. Check all bolts, pins and fasteners. Torque as shown in “Appendix,” page 38.
5. Check drill for worn or damaged parts. Repair or replace parts before going to the field.
6. Check hydraulic hoses, fittings and cylinders for leaks. Repair or replace before going to the field.
7. Rotate both gauge wheels to see that the drive and meters are working properly and free from foreign material.

Field Operation
1. Hitch drill to a suitable tractor.
2. Set seed population as explained in the seed rate book.
3. Load box with clean seed.
4. Raise drill. Rotate gauge wheel. Check that feed cups, seed tubes and drives are working properly and free from foreign material by looking for seed flow under each opener.
5. Record acremeter readout. Subtract initial reading from later readings to determine acres drilled.
6. Pull forward, lower drill and begin seeding.
7. Always lift drill out of the ground when turning at row ends and for other short-radius turns. Seeding will stop automatically as drill is raised.

⚠️ WARNING
Escaping fluid under pressure can have sufficient pressure to penetrate the skin. Check all hydraulic lines and fittings before applying pressure. Fluid escaping from a very small hole can be almost invisible. Use paper or cardboard, not body parts, and wear heavy gloves to check for suspected leaks. If injured, seek medical assistance from a doctor that is familiar with this type of injury. Foreign fluids in the tissue must be surgically removed within a few hours or gangrene will result.

⚠️ DANGER
Watch your step when walking on drill ladder and walkboard. Falling from drill could cause severe injury or death.

⚠️ DANGER
You may be severely injured or killed by being crushed between the tractor and drill. Do not stand or place any part of your body between drill and moving tractor. Stop tractor engine and set park brake before installing pins.
Opener Operation

**CAUTION**

Never back up with openers in the ground. To do so may cause damage or opener plugging.

For information on opener adjustments, refer to page 23. For more information on troubleshooting opener problems, see “Troubleshooting”, page 27.

Transporting

**WARNING**

Towing the drill at high speeds or with a vehicle that is not heavy enough could lead to loss of vehicle control. Loss of vehicle control could lead to serious road accidents, injury and death. To reduce the hazard, do not exceed 20 mph. Check that your tractor has enough ballast to handle the weight of the drill. Refer to your tractor operator’s manual for ballast requirements.

Before transporting the drill, follow and check these items:

**Cylinder Locks**

Cylinder locks are located near both hydraulic cylinders. With drill fully raised place lock over rod of cylinder and secure in place with pin and clip.

Note: The cylinder locks can be engaged or disengaged only after the drill is fully raised.

**Unload Drill Box**

The drill can be transported with a full box of grain, but the added weight will increase stopping distance and decrease maneuverability. Unload drill box before transporting if at all possible.

**Clearance**

Remember that the drill is wider than the tractor. Allow safe clearance.

**Road Rules**

Comply with all federal, state and local safety laws when traveling on public roads.
Lock-out Hub

Refer to Figure 10

Make sure drive lock-out hub on both sides of drill are disengaged before transporting. This will prevent excessive wear of drive system during transport.

Parking and Unhitching

Perform the following steps when parking the drill. See “Storage” on page 30, to prepare for long-term storage.

1. Park drill on a level, solid surface.
2. Lower drill until openers are resting on the ground.
3. Securely block tires to prevent rolling.
4. Remove tongue jack (1) from storage mount. Pin the jack on the side of the tongue. Do not extend the jack at this time.

Refer to Figure 11

5. If the drill has a jack with angle adjustment as shown in the illustration, do the following:

WARNING

Do not adjust the jack angle without being hitched and connected to a tractor.

Before operating the jack, make sure the foot (2) of the jack is parallel to the ground.

If the foot is not parallel to the ground, loosen the three nuts (3) in the middle of the jack adjustment plate (4). Rotate the jack so the foot is parallel to the ground and tighten the three nuts.

If the foot is parallel to the ground, make sure the three nuts (3) in the middle of the jack adjustment plate (4) are tight.

6. If ground is soft, place a board or plate under the foot.
7. Extend jack until tongue weight is off tractor drawbar.
8. Unplug hydraulic hoses and wiring harness from tractor. Do not allow hose ends or harness ends to rest on the ground.
9. Remove hitch bolt and safety chain from tractor drawbar.
Adjustments

Coulter Adjustments

Refer to Figure 12

A no-till coulter (1) is mounted directly ahead of each opener on the drill. The coulters cut through heavy trash and make a groove in the soil for the openers. The coulters are mounted on the drill frame so coulter cutting depth changes as the drill is raised and lowered.

To set drill seeding depth, you must:

1. Set coulter depth with hydraulic stop.
2. Set opener depth with T-handles on press wheels.
3. If soil conditions make it necessary, increase coulter down pressure by adding weights.

If necessary, adjust individual coulters or openers to seed in tire tracks, refer to page 22.

Coulter cutting depth is controlled by a depth control valve.

The amount of coulter down force needed to cut a soil groove varies with soil conditions. Adding weight or shortening the coulter spring increases coulter down pressure and cutting force.

Coulter Depth Control

The master-slave lift cylinders on your drill control the depth of the coulters. A depth valve regulates the retracted length of these cylinders.

Refer to Figure 13

1. Slightly raise drill with depth stop engagement arm on the rock shaft not touching the valve.
2. Turn the depth control knob clockwise. Each rotation lowers the coulters approximately 1/4 inch.
3. Raise and lower drill a few times to recheck depth.

Note: Changing depth of coulters will effect planting depth of openers. Press wheels will need to be adjusted accordingly.
Coulter Down Pressure

Weights
If more weight is required for your soil conditions, add weights to weight brackets located on box frame. No more than 1100 pounds for the 706 (550 pounds per side) and 1500 pounds for the 1006 (750 pounds per side) should ever be added. Add an equal amount of weight to each end of drill. See Figure 14.

<table>
<thead>
<tr>
<th>Pounds Per Coulters</th>
<th>7 inch</th>
<th>7.5 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty Drill</td>
<td>274</td>
<td>282</td>
<td>290</td>
</tr>
<tr>
<td>Drill with 300 pounds added</td>
<td>304</td>
<td>314</td>
<td>323</td>
</tr>
<tr>
<td>Drill with 600 pounds added</td>
<td>334</td>
<td>345</td>
<td>356</td>
</tr>
</tbody>
</table>

Refer to Figure 15

Spring Length
Coulter springs are preset at 9 7/8 to 10 inches, giving coulters an initial operating force of 400 pounds. This setting is adequate for many difficult no-till conditions.

**CAUTION**

Resetting coulter-spring length shorter than 9 3/4 inches may contribute to premature failure of parts and warranty will be voided. If additional force is needed, add weights to drill.

For lighter no-till conditions where rocks or other obstructions are a problem, you can lengthen coulter springs to protect coulters from impact.

Individual Coulter Adjustment
Individual coulters can be lowered if coulters follow in tractor tire tracks and do not give satisfactory depth. To do so:

1. Loosen 5/8 inch jam nuts on 5/8 inch square head set screws. Then loosen set screws.
2. Lower coulters to desired depth.
3. Tighten set screw on side of coulter clamp first. This squares coulter bar in clamp.
4. Tighten set screw on front of coulter clamp. Then tighten both 5/8 inch jam nuts on each set screw.

Note: Torque 5/8 inch set screws 85-100 ft-lbs to obtain adequate holding force.
Opener Adjustments

Opener Down Pressure
Refer to Figure 17

Opener springs provide the down pressure necessary for opener disks to open a seed trench. The springs allow the openers to float down into depressions and up over obstructions.

Each opener spring can be adjusted for down pressure. This is useful when penetrating hard soil and for planting in tractor tire tracks.

To adjust the pressure, remove “W” clip at bottom of spring. Place “W” clip in a higher hole in spring rod for more pressure or in a lower hole for less pressure.

Opener Seeding Depth
Refer to Figure 18

A press wheel attached to each opener body controls seeding depth. To maintain consistent depth, the relationship between the bottom of the opener disks and press wheel is fixed upwardly by an adjustable stop on each opener.

Refer to Figure 19

The press wheels also close the seed trench and gently press soil over seed. To provide consistent soil firming, press wheels are free to move down from normal operating position. This maintains pressing action even if opener disks encounter obstructions or hard soil.

Set opener seeding depth by adjusting press-wheel height. To adjust, first raise drill slightly, then lift and slide T-handles ① on top of openers as shown in Figure 2.

- For shallower seeding, slide T-handles toward drill.
- For deeper seeding, slide T-handles away from drill.
Disk Scraper Adjustment

Refer to Figure 20

To keep opener disks turning freely, dirt scrapers are mounted between disks to clean as the disks rotate. As field conditions vary, scrapers may need to be adjusted. In damp conditions, scrapers may need to be lowered. If openers are not turning freely, scrapers may need to be raised.

To adjust scrapers, loosen 3/8 inch bolt ① and move scraper as needed.

Gauge Wheel Idler Adjustment

Refer to Figure 21

Located inside the left hand gauge wheel arm is two idler sprockets which should be readjusted after the first 100 acres of drill use. From then on, readjust at the beginning of each season.

To adjust, move front idler sprocket on top of chain down by loosening jam nut ① and screwing in adjustment stud ②.

Tighten jam nut to maintain idler position.

Note: Do not over-tighten chains. To do so will cause excessive wear.

Drive Clutch

Refer to Figure 22

The main drive clutch on your drill is a mechanical-release, jaw-style design. You may need to adjust the clutch for proper engagement and disengagement.

When properly adjusted, the cam plates ① will disengage the clutch jaws completely when the drill is raised. When lowered in field position, clutch jaws should be engaged.

To adjust, loosen bolts on clutch tab ②. Slide tab forward or back to change point at which cam plates meet. When satisfied with adjustment, tighten bolts on clutch tab.
Drive Train Operation

Refer to Figure 23
Check all chain idlers at beginning of each season for proper adjustment. Check that each idler is taking up excess chain slack. The access door ① is located on the top side of the gage wheel arm near the pivot end.

After first 100 hours of use and at beginning of each season, readjust idler sprocket in left wheel arm. To access idlers, remove access door.

Refer to Figure 24
To adjust idler sprocket, move top idler sprocket (1) down into chain by loosening jam nut and screwing in adjustment stud (2). Retighten jam nut to maintain idler position.

Note: Do not tighten chains too much. Tightening chains too much will cause excess wear on idlers and drive components. Be sure chain is installed with the chain connector link retainer towards the centerline and the clip opening (split end) faces the opposite way of the chain travel.
Spring Tine Harrow

Harrow Tine Angle
Refer to Figure 25
The drawing on the right shows a successful harrow position for no-till and minimum-till conditions. Because of different soil moisture, trash levels and trash types, you may need to reposition the tube frame or tines. Initially position the frame and tines as shown, then readjust as necessary.

Harrow Frame and Tine Adjustment
Refer to Figure 26
To adjust harrow frame loosen the four hex nuts (1) on the u-bolts and rotate frame tube (2) as necessary.
To adjust tines, loosen the four 1/2-inch hex nuts (3) on the 1/2-inch u-bolts (4) on the support bar (5). Rotate tine tubes (6) so tines (7) are against stop bushings (8) and are angled back as necessary. Tighten hex nuts on U-bolts.

Harrow Chain
Refer to Figure 27
In clean, tilled, extremely loose soils, harrow chain may need to be shortened to lift harrow off the ground.
To adjust chain, support the harrow to remove weight from the harrow arms ①. Remove the lower bolt ② and select a different chain link.
Note: Keep the harrow arms at the same length.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uneven seed spacing or uneven stand</strong></td>
<td>Excessive field speed.</td>
<td>Reduce field speed.</td>
</tr>
<tr>
<td></td>
<td>Feed cups plugging.</td>
<td>Clean out feed cups.</td>
</tr>
<tr>
<td></td>
<td>Seed tubes plugging.</td>
<td>Clean out seed tubes.</td>
</tr>
<tr>
<td></td>
<td>Opener disks not turning freely.</td>
<td>See “Opener disks not turning freely” in this Troubleshooting section.</td>
</tr>
<tr>
<td></td>
<td>Opener not penetrating low spots.</td>
<td>Adjust opener, page 23.</td>
</tr>
<tr>
<td><strong>Uneven seed depth</strong></td>
<td>Excessive field speed.</td>
<td>Reduce field speed.</td>
</tr>
<tr>
<td></td>
<td>Planting conditions too wet.</td>
<td>Wait until drier weather.</td>
</tr>
<tr>
<td></td>
<td>Drill not level.</td>
<td>Readjust, page 17.</td>
</tr>
<tr>
<td><strong>Opener disks not turning freely</strong></td>
<td>Trash or mud build up on disk scraper.</td>
<td>Adjust scraper, page 24.</td>
</tr>
<tr>
<td></td>
<td>Failed disk bearings.</td>
<td>Replace disk bearings.</td>
</tr>
<tr>
<td></td>
<td>Bent or twisted opener frame.</td>
<td>Replace opener frame.</td>
</tr>
<tr>
<td></td>
<td>Planting conditions too wet.</td>
<td>Wait until drier weather.</td>
</tr>
<tr>
<td></td>
<td>Too much opener down pressure.</td>
<td>Readjust opener down pressure, page 23.</td>
</tr>
<tr>
<td><strong>Actual seeding rate different than desired</strong></td>
<td>Improper tire size or air pressure.</td>
<td>Check tire size and air pressure, page 38.</td>
</tr>
<tr>
<td></td>
<td>Build up of seed treatment in feed cup.</td>
<td>Clean seed treatment from feed cups.</td>
</tr>
<tr>
<td></td>
<td>Incorrect rate adjustment.</td>
<td>Check gearbox setting and seed-rate handle setting, refer to the seed rate book.</td>
</tr>
<tr>
<td><strong>Excessive seed cracking</strong></td>
<td>Excessive field speed.</td>
<td>Reduce field speed.</td>
</tr>
<tr>
<td></td>
<td>Feed cup flutes not open enough.</td>
<td>Open feed cups to a wider position.</td>
</tr>
<tr>
<td></td>
<td>Feed cup door handle not open enough.</td>
<td>Open feed cup door handle to a lower position.</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>---------</td>
<td>-------</td>
<td>----------</td>
</tr>
<tr>
<td>Acremeter does not measure accurately.</td>
<td>Incorrect tire size or air pressure.</td>
<td>Correct tire size or air pressure, page 38.</td>
</tr>
<tr>
<td></td>
<td>Excessive overlap or gaps between passes.</td>
<td>Avoid overlap or gaps.</td>
</tr>
<tr>
<td></td>
<td>Soil conditions.</td>
<td>Loose soil and slippage will cause variations in acres registered.</td>
</tr>
<tr>
<td></td>
<td>Acremeter not for your width of drill.</td>
<td>Refer to parts manual.</td>
</tr>
<tr>
<td></td>
<td>Actual field size different.</td>
<td>Verify field size.</td>
</tr>
<tr>
<td>Press wheels not compacting soil as desired</td>
<td>Too wet or cloddy.</td>
<td>Wait until drier weather or rework ground.</td>
</tr>
<tr>
<td></td>
<td>Not enough down pressure on disk openers.</td>
<td>Increase down pressure on openers, page 23.</td>
</tr>
<tr>
<td>Grain box not emptying evenly</td>
<td>Some models do not have same number of feed cups between each divider of bulkhead.</td>
<td></td>
</tr>
<tr>
<td>Press wheel or openers plugging</td>
<td>Planting conditions too wet.</td>
<td>Wait until drier weather.</td>
</tr>
<tr>
<td></td>
<td>Too much down pressure on openers.</td>
<td>Reduce down pressure on openers, page 23.</td>
</tr>
<tr>
<td></td>
<td>Backed up with drill in the ground.</td>
<td>Clean out and check for damage.</td>
</tr>
<tr>
<td></td>
<td>Failed disk bearings.</td>
<td>Replace disk bearings.</td>
</tr>
<tr>
<td></td>
<td>Scraper worn or damaged.</td>
<td>Replace scraper.</td>
</tr>
<tr>
<td>Raising and lowered drill is rough or uneven</td>
<td>Wheel arm pivot casting needs lubricating.</td>
<td>Lubricate wheel arm pivot castings.</td>
</tr>
<tr>
<td></td>
<td>Leaking hydraulic fittings.</td>
<td>Check fittings for leaks, see page 16 for safety message.</td>
</tr>
<tr>
<td></td>
<td>Rephasing cylinders not bled properly.</td>
<td>See page 15 for information.</td>
</tr>
<tr>
<td>Feed cup sprockets locked up or twisted feed cup drive shaft</td>
<td>Foreign matter lodged in one or more feed cup sprockets.</td>
<td>Clean out feed cup sprockets. Use clean seed.</td>
</tr>
<tr>
<td></td>
<td>Dried liquid insecticide inside feed cups.</td>
<td>Remove build up by disassembling each feed cup and scraping foreign substance from turn surfaces.</td>
</tr>
<tr>
<td>Coulters not going deep enough</td>
<td>Not enough weight.</td>
<td>See page 22 for correct weight.</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>-----------------------------------</td>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>Coulters and drill going too deep</td>
<td>Too much weight.</td>
<td>See page 22 for correct weight.</td>
</tr>
<tr>
<td></td>
<td>Incorrect depth control setting.</td>
<td>Reset depth control, page 23.</td>
</tr>
<tr>
<td></td>
<td>Incorrect press wheel adjustment.</td>
<td>Set press wheels to a shallower depth.</td>
</tr>
<tr>
<td>Coulters and openers plugging in no-till conditions</td>
<td></td>
<td>Drill at a slight angle to rows.</td>
</tr>
<tr>
<td>Small seeds box not emptying evenly</td>
<td>Adjustable divider not set evenly.</td>
<td>Move adjustable divider to create more volume in areas that run out first.</td>
</tr>
<tr>
<td>Chain</td>
<td>Debris, retainer clip</td>
<td>Be sure retainer clip is facing opposite way of chain travel.</td>
</tr>
</tbody>
</table>
Maintenance and Lubrication

Maintenance

Proper servicing and maintenance is the key to long implement life. With careful and systematic inspection, you can avoid costly maintenance, downtime and repair. Always turn off and remove the tractor key before making any adjustments or performing any maintenance.

**WARNING**

You may be severely injured or killed by being crushed under the falling implement. Always have transport locks in place and frame sufficiently blocked up when working on implement.

**WARNING**

Escaping fluid under pressure can have sufficient pressure to penetrate the skin. Check all hydraulic lines and fittings before applying pressure. Fluid escaping from a very small hole can be almost invisible. Use paper or cardboard, not body parts, and wear heavy gloves to check for suspected leaks. If injured, seek medical assistance from a doctor that is familiar with this type of injury. Foreign fluids in the tissue must be surgically removed within a few hours or gangrene will result.

1. After using the drill for several hours, check all bolts to be sure they are tight.
2. Lubricate areas listed under “Lubrication”, page 30.
3. Adjust idlers to remove excess slack from chains.
   Clean and use chain lube on all roller chains as needed.
4. Inflate tires as specified on “Tire Inflation Chart”, page 38.
5. Clean out build up of seed treatment in feed cups.

Storage

Store drill where children do not play. If possible, store the drill inside for longer life.

1. Unload seed box.
2. Thoroughly clean seed and seed-treatment residue from boxes and feed cups.
3. Remove any dirt and debris that can hold moisture and cause corrosion.
4. Lubricate and adjust all roller chains.
5. Take special care to oil feed cup drive sprocket in its square bore.
7. Inspect drill for worn or damaged parts. Make repairs and service during the off season.
8. Use spray paint to cover scratches, chips and worn areas on the drill to protect the metal.
9. Disconnect seed hoses from openers. Permanent elongation and premature cracking of hoses may occur if stored connected.
10. Cover with a tarp if stored outside.

Lubrication and Scheduled Maintenance

<table>
<thead>
<tr>
<th>Multi-purpose</th>
<th>Multi-purpose</th>
<th>Multi-purpose</th>
<th>Inspect</th>
<th>50</th>
<th>Intervals (operating hours) at</th>
</tr>
</thead>
</table>

Clutches

Two zerks on each.
Smear grease on clutch engagement teeth.

**WARNING**

Type of Lubrication: Grease
Quantity = Until grease emerges
Coulter Hub Bearings

Seasonal

One zerk per coulter; 15 total
Type of Lubrication: Grease
Quantity = Until resistance is felt

Drive Chains

As Required

Type of Lubrication: Chain Lube
Quantity = Coat thoroughly.

Feed Cup Drive Shaft Sprocket

50hrs

1 sliding sprocket
Type of Lubrication: Oil
Quantity: Coat thoroughly

Move the Seed Rate adjustment handle back and forth to get oil into the square bore. Perform this with seed box empty, or handle may be difficult to set to 100.
Felt Barrier Seals

- **30hrs**
- 1 seal at each shaft end, 2 total
- Type of Lubrication: Oil
- Quantity: Soak seal
- If Small Seeds is also installed, access these seals from below or through the end wall gaps.

Fertilizer Tray Bearings

- **15hrs**
- Both ends of shaft
- Type of Lubrication: Grease
- Quantity = Until grease emerges

Gauge Wheel Arms

- **15hrs**
- Type of Lubrication: Grease
- Quantity = Until grease emerges
Gearbox

The gearbox is lubricated and sealed at the factory. Under normal conditions, it does not require maintenance or lubrication.

If the gearbox has been opened for repair, repack all gears and around shaft bearings using at least 7 oz. of gear lube, part number 788067.

Keep moisture and dirt out of gearbox. Inspect (replace if needed) the rubber seals on gearbox drive and shifter shafts.

Spread a small skim coat of anaerobic sealant (Loctite® 525 or equivalent) to gear case mating surfaces before bolting them back together.

Grease Banks

Type of Lubrication: Grease
Quantity = Until grease emerges

Ground Drive Wheel Bearings

2 races per wheel; 4 total
Type of Lubrication: Grease
Quantity = repack

**NOTICE**

Use sparingly. Excess sealant may squeeze off the intended surface and lock bearings or gears.
Small Seeds Feed Cup Drive Sprocket

| Symbol | 50hrs |

Type of Lubrication: Oil
Quantity = Coat sprocket bore thoroughly

Small Seeds Shaft Bearings (Option)

| Symbol | 15hrs |

1 zerk total
Type of Lubrication: Grease
Quantity: Until grease emerges
Options

Seed Box Agitator
The seed box agitator is designed to stir the seed directly above the metering cups. It is intended to cut down on the “bridging” of light fluffy seeds, and help to separate individual soybeans that become sticky from inoculant.

Note: The seed box agitator will not guarantee consistent seeding of hard to meter seeds such as Brome Grass or “bin run” seed that contains crop residue.

For lubrication points, refer to “Lubrication”, page 30.
To order the seed box agitator, contact your Great Plains dealer.

<table>
<thead>
<tr>
<th>Agitator Packages</th>
<th>row spacing (inches)</th>
<th>7</th>
<th>7.5</th>
<th>8</th>
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<tbody>
<tr>
<td></td>
<td>706</td>
<td>Part No</td>
<td>118-893A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1006</td>
<td>Part No</td>
<td>118-897</td>
<td></td>
</tr>
<tr>
<td>Without small seeds or fertilizer</td>
<td></td>
<td></td>
<td>118-895A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>706</td>
<td>Part No</td>
<td>118-895A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1006</td>
<td>Part No</td>
<td>118-899A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>118-895A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>118-901A</td>
<td></td>
</tr>
<tr>
<td>With small seeds or fertilizer</td>
<td></td>
<td></td>
<td>118-894A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>706</td>
<td>Part No</td>
<td>118-894A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1006</td>
<td>Part No</td>
<td>118-898A</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>118-896A</td>
<td></td>
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<td>118-900A</td>
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<td></td>
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<td>118-896A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>118-902A</td>
<td></td>
</tr>
</tbody>
</table>

Harrow Attachment
The coil-tine harrow finishes no-till surfaces by leveling and distributing residue for enhanced seed germination.

For information on how to adjust the harrow, refer to “Harrow Adjustment”, page 26.
To order the harrow attachment, contact your Great Plains dealer.

<table>
<thead>
<tr>
<th>Harrow Packages</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>706 Harrow Attachment</td>
<td>116-278A</td>
</tr>
<tr>
<td>1006 Harrow Attachment</td>
<td>116-279A</td>
</tr>
</tbody>
</table>
**Fertilizer Attachment**
The fertilizer attachment allows you to plant seed and apply fertilizer in the same field pass. The fertilizer box mounts on the rear of the main drill box. A fertilizer drive meters dry, granular fertilizer.

For fertilizer meter rate calibrating and charts, refer to “Fertilizer Meter Rate” in the seed rate book. For lubrication points, refer to “Lubrication”, page 30.

To order the fertilizer attachment, contact your Great Plains dealer.

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**Small Seeds Attachment**
The small seeds attachment is designed to meter various small seeds. It is driven independently of the main seed box. The small seeds box is 0.24 bushel per foot (27.7 liters/meter) with a total capacity of 2.62 bushes (92.3 liters).

The small seeds attachment is available with two seed release point options: In row delivery and side delivery.

With the In row delivery, small seeds are metered and dropped between the disc blades or just in front of the press wheel.

With the side delivery, small seeds are metered and dropped just to the side of the opener furrow.

For seed rates and adjustments, refer to “Small Seeds Attachment” in the seed rate book. For lubrication points, refer to “Lubrication”, page 30.

To order the small seeds attachment, contact your Great Plains dealer.

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**Seed-Lok® Firming Wheels**
The spring-loaded Seed-Lok® firming wheel presses seed directly into the bottom of the seed bed. The Seed-Lok® option provides more even emergence since seeds are planted and firmed at the same depth. Seed-Lok® can be used on all units except native grass, unless native grass tube is removed during Seed-Lok® use.

To order the Seed-Lok® firming wheels, contact your Great Plains dealer.

<table>
<thead>
<tr>
<th>Seed-Lok® Packages</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed-Lok® Assembly</td>
<td>122-193K</td>
</tr>
</tbody>
</table>
Series II Native Grass Attachment
The native grass attachment is designed to seed fluffy, hard-to-plant grasses.
For seed rates and adjustments, refer to “Native Grass Attachment” in the seed rate book.
To order the native grass attachment, contact your Great Plains dealer.

Folding Tongue
The folding tongue is designed to allow narrower widths for trailer towing of drill and for space saving during storage.
To order the folding tongue, contact your Great Plains dealer.

<table>
<thead>
<tr>
<th>Folding Tongue Packages</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1006 Folding Tongue</td>
<td>151-111A</td>
</tr>
<tr>
<td>706 Folding Tongue</td>
<td>151-114A</td>
</tr>
</tbody>
</table>
Appendix

Torque Values Chart

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>Bolt Head Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Grade 2</td>
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<td>in-tpi²</td>
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<td>3/12-12</td>
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<td>1/2-14</td>
<td>250.185</td>
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<td>1-8</td>
<td>340.250</td>
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<td>1-12</td>
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<td>540.395</td>
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<td>1/2-7</td>
<td>680.500</td>
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<td>1/2-12</td>
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<td>1/2-6</td>
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<td>1/2-12</td>
<td>1010.745</td>
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<td>1/2-6</td>
<td>1180.870</td>
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<tr>
<td>1/2-12</td>
<td>1330.980</td>
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Torque tolerance ± 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Tire Inflation Chart

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Inflation</th>
</tr>
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<tbody>
<tr>
<td>9.0 x 24&quot; 8-Ply Rib Implement</td>
<td>40 psi</td>
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</table>

Tire Warranty Information

All tires are warranted by the original manufacturer of the tire. Tire warranty information can be found in the brochures included with your Operator’s and Parts Manuals or online at the manufacturer’s websites. For service assistance or information, contact your nearest Authorized Farm Tire Retailer. ManufacturerWebsite Titanwww.titan-intl.com Goodyearwww.goodyearag.com
## Specifications and Capacities

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<th></th>
<th>706</th>
<th>1006</th>
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<tr>
<td><strong>Row Spacing, Inches</strong></td>
<td>7</td>
<td>7.5</td>
</tr>
<tr>
<td><strong>Rows Per Drill</strong></td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td><strong>Approx. Weight, Pounds</strong></td>
<td>3,900 lb (1769 kg)</td>
<td>3,800 lb (1724 kg)</td>
</tr>
<tr>
<td><strong>Working Width</strong></td>
<td>7 feet (2.1 m)</td>
<td></td>
</tr>
<tr>
<td><strong>Transport Width</strong></td>
<td>9 feet 10 inches (3 m)</td>
<td></td>
</tr>
<tr>
<td><strong>Transport Height</strong></td>
<td>6 feet 7 inches (2.0 m)</td>
<td></td>
</tr>
<tr>
<td><strong>Transport Length</strong></td>
<td>13 feet 10 inches (4.2 m)</td>
<td></td>
</tr>
<tr>
<td><strong>Tongue Weight, Transport</strong></td>
<td>700 lb (318 kg)</td>
<td></td>
</tr>
<tr>
<td><strong>Tongue Weight, Field</strong></td>
<td>460 lb (209 kg)</td>
<td></td>
</tr>
<tr>
<td><strong>Approx. Seedbox Capacity</strong></td>
<td>17.1 bushels (602.5 l)</td>
<td></td>
</tr>
<tr>
<td><strong>Small Seeds</strong></td>
<td>1.68 bushels (59.2 l)</td>
<td></td>
</tr>
<tr>
<td><strong>Native Grass</strong></td>
<td>7 bushels (9246.7 l)</td>
<td></td>
</tr>
<tr>
<td><strong>Fertilizer</strong></td>
<td>6.5 cubic feet (184.1 l)</td>
<td></td>
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<tr>
<td><strong>Dual Seed</strong></td>
<td>7 bushels (9246.7)</td>
<td></td>
</tr>
<tr>
<td><strong>End Wheel Tires</strong></td>
<td>9.00 x 24</td>
<td></td>
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<tr>
<td><strong>Tractor Requirements</strong></td>
<td>55 horsepower (41 kw);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>one remote valve</td>
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</table>
Hydraulic Schematic
Sprocket Configuration

Seed Box

Seed Box Agitator
Dual Seed Box

Small Grass Seeds
Native Grass

Fertilizer
Fertilizer with Small Grass Seeds Box
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Warranty

Land Pride warrants to the original purchaser that this Land Pride unit will be free from defects in material and workmanship for a period of one year from the first use date when used as intended and under normal service and conditions for personal use; ninety days for custom/commercial or rental use. This Warranty is limited to the replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part. Land Pride reserves the right to inspect any equipment or part which are claimed to have been defective in material or workmanship.

The following items and/or conditions are not covered under warranty: failures resulting from abuse or misuse of the equipment, failures occurring as a result of accidental damage or acts of God, failures resulting from alterations or modifications, failures caused by lack of normal maintenance as outlined in the operator’s manual, repairs made by non-authorized personnel, items replaced or repaired due to normal wear (such as wear items and ground engaging components), repeat repair due to improper diagnosis or repair by the dealer, temporary repairs, service calls and/or mileage to and from customer location, overtime premium, or unit hauling expenses. The warranty may be voided if the unit is towed at speeds in excess of 20 miles per hour (32 kilometers per hour), or is used in soils with rocks, stumps, or other obstructions.

Land Pride reserves the right to make changes in materials or design of the product at any time without notice. The warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct or consequential or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its control. This warranty does not extend to crop loss, losses caused by planting or harvest delays or any expense or loss of 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 the unit is registered with Land Pride within 10 days from the date of the original purchase.