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

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

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Dealer Contact Information

Name: ____________________________
Street: __________________________
City/State: _______________________
Telephone: _______________________
Email: __________________________

California Proposition 65

⚠️ WARNING: Cancer and reproductive harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)
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*Printed in the United States of America.*
Parts Manual QR Locator
The QR (Quick Reference) code on the cover and to the left will take you to the Parts Manual for this equipment. Download the appropriate App on your smart phone, open the App, point your phone on the QR code and take a picture.

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

**Safety at All Times**

Careful operation is your best assurance against an accident. All operators, no matter how much experience they may have, should carefully read this manual and other related manuals, or have the manuals read to them, before operating the power machine and this implement.

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

**Look for the Safety Alert Symbol**

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

**Be Aware of Signal Words**

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

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

**WARNING**

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

**CAUTION**

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

**Safety Precautions for Children**

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

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

**Tractor Shutdown & Storage**

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

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

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

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

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

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

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

### Avoid High Pressure Fluids Hazard
- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Before disconnecting hydraulic lines or performing work on the hydraulic system, be sure to release all residual pressure.
- 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.

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

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

### Avoid Underground Utilities
- Dig Safe, Call 811 (USA). 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.

### Keep Riders Off Machinery
- Never carry riders on tractor or implement.
- Riders obstruct operator’s view and interfere with the control of the power machine.
- Riders can be struck by objects or thrown from the equipment.
- Never use tractor or implement to lift or transport riders.
Safety Labels
Your Rotary Tiller 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.

858-519C
RTA15 Series Cluster Decal
**818-540C**
Shield missing - Do Not operate.

**818-552C**
Rotating Driveline Hazard - Keep Away!
Land Pride welcomes you to the growing family of new product owners. This Rotary Tiller 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 implement.

Application
The RTA25 and RTA35 Series Rotary Tillers are designed and built by Land Pride to till the soil for seedbed or planting preparation. Both models are adapted for three-point hitch Category 1 mounting. The RTA25 has a 25-75 hp tractor requirement and the RTA35 has a 35-95 hp requirement. These Land Pride Tillers have uses and applications in landscaping, nurseries, gardens, and light commercial use.

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

Terminology
“Right” or “Left” as used in this manual is determined by facing forward in 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 dealer should complete the Online Warranty Registration at the time of purchase. This information is necessary to provide you with quality customer service.

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

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

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

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

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

E-mail address
lpservicedept@landpride.com
Dealer Preparations

**WARNING**

To avoid serious injury or death:

An unsupported parked tiller can tip over. Always use park stand and/or support blocks to prevent it from tipping over onto a person.

This unit is shipped almost completely assembled. Carefully follow instructions for final assembly.

Before attempting assembly check the following items. Having all the needed parts and equipment readily at hand will speed up your assembly task and will make the job as safe as possible.

- Check for fasteners and pins that were shipped with the tiller. All hardware coming from the factory has been installed in the location where it will be used. If a part or fastener is temporarily removed for assembly reasons, remember where it goes. Keep the parts separated.
- Have a fork lift or loader along with chains and safety stands that are sized for the job ready for the assembly task.
- Have a minimum of 2 people at hand during assembly.

**Torque Requirements**

Refer to “Torque Values Chart” on page 32 to determine correct torque values for common bolts.

**Tractor Requirements**

This tiller is designed with a 3-point category I hitch. Horsepower rating of tractor should not exceed 75 power take-off horsepower on all 25 Series Tillers and not to exceed 95 power take-off horsepower on 35 Series.

Maximum Take-Off Horsepower

- 25 Series Tiller: 75 power take-off
- 35 Series Tiller: 95 power take-off

**Hitch Type**: 3 - Point Cat. 1

**WARNING**

To avoid serious injury or death:

Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control.

Consult your tractor Operator’s Manual to determine proper weight requirements and maximum weight limitations.

Tractor Shutdown Procedure

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

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

**WARNING**

To avoid serious injury or death:

An unsupported parked tiller can tip over. Always use park stand and/or support blocks to prevent it from tipping over onto a person.

**Refer to Figure 1-1:**

1. Insert park stand (#6) into park stand holder on the end of the tiller frame.
2. Adjust park stand to a height that will support the tiller level while resting on the skid shoes.
3. Secure park stand with wire retaining pin (#7). Make sure wire retainer is hooked over the end of the retaining pin.

Hitch and Guard Assembly

**Refer to Figure 1-1:**

1. Install right and left top hitch halves (#1 & #2) inside the hitch mounting bars with 5/8" -11 x 1 1/2" long bolts (#8), lock washers (#9), and nuts (#10). Do not tighten bolts at this time.
2. Install spacer (#3) between upper 3-point hitch plates (#1 & #2) with 5/8" x 3 1/2" long bolt (#11), lock washer (#12), and nut (#13).
3. Securely tighten all bolts to the correct torque.
4. Install driveline guard (#4) to the top of the 3-point hitch plates with four 1/4" wing screws (#5).

**NOTE:** Remove driveline guard for easier access to the driveline at the gearbox.

5. Mount left-hand clevis (#18) over square tube as shown. Make certain longer chamfer is positioned on the bottom.
6. Locate u-bolt (#19) behind the square tube and insert through clevis (#18) holes as shown.
7. Secure with 1/2"-13 hex nylock nuts (#20). Do not tighten nuts at this time.
8. Drive 1/4" x 1 3/4" roll pin into pin (#22) into 1/4" hole into lower hitch pin (#21).
9. Insert lower hitch pin into clevis and secure with linchpin (#23).
10. Repeat step 5 through 9 for the right-hand clevis.
11. Position clevis 26 7/8" apart from inside of clevis plate to inside of clevis plate and center off the gearbox input shaft.

12. Tighten 1/2" nuts (#20) to the correct torque.

13. Install manual tube (#14) to hitch plate (#2) with two 1/4"-20 x 1 GR5 hex head cap screws (#15), SAE flat washers (#16), and hex nylock nut (#17).

14. Tighten 1/4" cap screws (#15) to the correct torque.

**Driveline Installation**

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

**IMPORTANT:** The driveline must be lubricated before putting it into service. Refer to “Ordering Replacement Parts” on page 24 for detailed instructions.

**IMPORTANT:** Drivelines with friction clutches must go through a “run-in” operation prior to initial use and after long periods of inactivity. See “Driveline Protection” on page 21 for detailed instructions.

**IMPORTANT:** An additional driveline may be required if implement will be attached to more than one tractor.

The tiller driveline is coupled to the tractor and implement shafts with either push pin couplers, pull collar couplers or a combination of both, and with either a shear bolt or slip clutch on one end for protection from shock loads.

Always engage power take-off at low engine rpm to minimize start-up torque. Drivelines with friction slip clutches must go through a “run-in” operation prior to initial use and after long periods of inactivity. See “Driveline Protection” on page 21 for detailed instructions on maintaining the slip clutch.

If Rotary Tiller is used on more than one tractor, an additional driveline may be required - especially if a quick hitch is used.

*Refer to Figure 1-1 on page 8:*

1. Remove gearbox shaft protector (#26) from end of gearbox shaft.

2. Pull on the pull collar or push on the push pin and slide slip clutch or shear bolt end of driveline (#1) over the gearbox input shaft.

3. Release the pull collar or push pin and continue to push the driveline onto the gearbox shaft until the pull collar or push pin pops out and locks in place.

4. Push/pull on slip-clutch or shear bolt yoke end of driveline (#1) to ensure it is securely fastened to the gearbox input shaft.

Tractor Hook-Up

Refer to Figure 1-4:

**DANGER**

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

**WARNING**

To avoid serious injury or death:

- Do not raise center of lower 3-point hitch pins more than dimension “A” in Figure 1-4 above ground with power take-off engaged. Do not engage power take-off if hitch pins are more than “A” above ground. If 3-point hitch pins are raised above “A” with power take-off engaged, the driveline can break and send projectiles.
- Always shut tractor down using “Tractor Shutdown Procedure” provided in this manual before dismounting tractor.
- An unsupported parked tiller can tip over. Always use park stand and/or support blocks to prevent it from tipping over onto a person.

**IMPORTANT:** The tractor’s lower 3-point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

**IMPORTANT:** To prevent park stand from being damaged, always store stand in the transport position before moving tractor with tiller attached.

**NOTE:** Land Pride’s Quick Hitch can be attached to the tractor to provide quick and easy 3-point hook-up and detachment. An additional driveline may be required if a Quick Hitch is used. See your nearest Land Pride dealer to purchase a Quick Hitch.

**NOTE:** Hairpin cotter (#8) and hitch pin (#7) are customer supplied.

1. Make sure you have read and follow all Safety Alerts and Important notes listed in this section.
2. The tiller is equipped with a Cat. 1 hitch. Make sure your tractor’s hitch is compatible with the tiller’s hitch.
3. Ensure lower 3-point lift arms are blocked to prevent excessive side-to-side movement.
4. Move or remove drawbar to prevent interference with tiller driveline. See tractor Operator’s Manual for instructions.
5. If installed, remove linchpins (#6), hitch pins (#2), hairpin cotter (#8), and hitch pin (#7).
6. Slowly back tractor to tiller while using tractor’s 3-point control lever to align holes in lower 3-point lift arms with tiller clevises (#5).
8. Secure tractor’s 3-Point lower hitch arms to the lower clevises using 7/8” diameter hitch pins (#2). Secure hitch pins with linchpins (#6).
9. Secure tractor’s top center link to the tiller hitch plates using customer supplied 3/4” diameter hitch pin (#7) and hairpin cotter (#8).
10. With gear selector in park or park brake set, start tractor and raise tiller just high enough to be able to remove the park stand.
11. Without lowering the tiller, shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 7.
12. Place a level on the end plate and adjust tractor’s top center link to level the tiller from front to back.
13. Place the level on the square tube and adjust one of the two tractor’s lower 3-Point arms up or down to level tiller from left to right.
14. Remove park stand from its mounting tube. Turn park stand upside down and reinsert it several inches through the top of the mounting tube. Secure park stand using one of the upper three holes with existing wire retaining pin.

15. Start tractor and raise tiller fully up. Measure vertical distance from center of 3-point hitch pins (#2) to ground. If distance exceeds dimension “A” in “Figure 1-4” on page 10, adjust tractor’s 3-point lift height limiter to set maximum hitch pin lift height at dimension “A”.

Driveline Hook-Up
Refer to Figure 1-4 on page 10:

DANGER
To avoid serious injury or death:

- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person’s body and/or clothing can become entangled in the driveline.
- All guards and shields must be installed and in good working condition while operating the implement.

WARNING
To avoid serious injury or death:

- Do not use a power take-off adapter. The adapter will increase strain on the tractor’s power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor’s power take-off shield.
- Always shut tractor down using “Tractor Shutdown Procedure” provided in this manual before dismounting tractor.
- Select a safe ground speed when transporting. Never travel at a speed which does not allow adequate control of steering and stopping, and never exceed 20 mph (32.2 km/h) with attached equipment. Rough terrain requires a slower speed.
- Check driveline when lowering tiller into the ground to make sure it does not interfere with the tractor drawbar at maximum depth. If needed, shut tractor off and move or remove drawbar to prevent damage to the driveline.
- A rotating driveline must not exceed an angle of 25 degrees up or down, and never engage a driveline while at an angle exceeding 25 degrees up or down. The driveline can break and send projectiles.

IMPORTANT: Drivelines with friction clutches must go through a “run-in” prior to initial use and after long periods of inactivity. For detailed instructions, see “Driveline Protection” on page 21.

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

IMPORTANT: The power take-off shaft and gearbox input shaft must be aligned and level with each other when checking driveline minimum length. A driveline that is too long can damage tractor and implement.

IMPORTANT: The drivelines must be lubricated before putting them into service. Refer to “Lubrication Points” on page 25.

The driveline (#1) fastens to the tractor power take-off shaft with a push-pin coupler or pull collar (#9).

1. If driveline collapsible length has not been checked, go to “Check Driveline Collapsible Length” on page 12. Otherwise, continue with step 2 below.

2. Park tractor and implement on a level surface.


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

5. Collapse driveline by pushing tractor end of driveline toward the tiller gearbox.

6. Attach driveline (R) to the tractor’s power take-off shaft as follows:

- **Push Pin Driveline Yoke**
  a. Push in on driveline yoke pin (#9) and push yoke onto the tractor power take-off shaft.
  b. Release push pin and continue to push driveline yoke forward until push pin pops out and yoke collar locks in place.

- **Pull Collar Driveline Yoke**
  a. Pull back on driveline pull collar (#9) and push yoke onto the tractor power take-off shaft.
  b. Release pull collar and continue to push driveline yoke forward until pull collar pops out and locks in place.

7. Pull on driveline yoke at the tractor to make sure it is secured to the tractor power take-off shaft.

Section 1: Assembly & Set-Up

Check Driveline Minimum Length
Figure 1-5

Check Driveline Collapsible Length
Refer to Figure 1-5:

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

1. Park tractor and implement on a level surface.
2. Raise implement until gearbox input shaft is level with tractor power take-off shaft. Securely block implement at this height to keep unit from lowering.
4. Disconnect driveline from the tractor’s power take-off shaft.
5. Remove outer driveline (tractor end) from inner driveline to separate the two profiles.
6. Attach outer driveline to the tractor’s power take-off shaft. Refer to steps 5-7 under “Driveline Hook-Up” on page 11.
7. Hold inner and outer drivelines parallel to each other. If dimension “A” is greater than or equal to 1”, then skip to “Check Driveline Maximum Length” on page 13. Otherwise continue with step 8.

Refer to Figure 1-6:

8. If dimension “A” was less than 1”, shorten driveline as follows:
   a. Measure 1” (“B1” dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.
   b. Measure 1” (“B2” dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.
9. Remove outer driveline from the tractor power take-off shaft and inner driveline from the implement’s gearbox shaft.
10. Cut off non-yoke end of inner driveline as follows:
   a. Measure from end of inner shield to scribed mark (“X” dimension) and record.
   b. Cut off inner shield at the mark. Cut same amount off the inner shaft (“X1” dimension).
11. Cut off non-yoke end of outer driveline as follows:
   a. Measure from end of outer shield to scribed mark (“Y” dimension) and record.
   b. Cut off outer shield at the mark. Cut same amount off the outer shaft (“Y1” dimension).
12. Remove all burrs and cuttings.
Section 1: Assembly & Set-Up

Check Driveline Maximum Length

Refer to Figure 1-7:

Driveline maximum length must, when fully extended, have 1/3 overlap of the profile tubes with both inner and outer profile tubes being of equal length as shown in Figure 1-7. Check driveline maximum allowable length as follows:

1. Make sure “Check Driveline Collapsible Length” on page 12 has been completed before continuing with instructions below.
2. Unhook driveline profiles from the tractor and implement.
3. If profiles are assembled together, pull outer and inner drivelines profiles apart.
4. Measure and record “Free Length” of inner and outer profiles as shown in Figure 1-7.
6. Assemble driveline halves together until profile tubes have exactly 1/3 profile overlap as shown.
7. Measure driveline “Maximum Allowable Length” and record that length here _______.
8. Start tractor, raise implement slightly, and drive forward enough to clear support blocks.
9. Lower implement to ground and shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 7.

Check Driveline Interference

Refer to Figure 1-8:

WARNING
To avoid serious injury or death:

- Do not raise center of lower 3-point hitch pins more than dimension “A” in “Figure 1-4” on page 10 above ground with power take-off engaged. Do not engage power take-off if hitch pins are more than “A” above ground. If 3-point hitch pins are raised above “A” with power take-off engaged, the driveline can break and send projectiles.

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

1. Start tractor, raise implement fully up, and back implement over the support blocks used to “Check Driveline Collapsible Length” on page 12,
2. Without changing 3-point lift height, shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 7.
3. Check to make sure driveline does not exceed any of the limits listed below:
   • Driveline does not exceed maximum allowable length recorded in step 7 under “Check Driveline Maximum Length” on this page.
   • Center of lower 3-point hitch pins do not exceed 30" above ground level.
   • Driveline angle does not exceed 25° above horizontal or 25° below horizontal.
4. If any limit was exceeded, adjust tractor 3-point lift limiter to the height that will keep the driveline within the recommended limit listed above.
5. If needed, repeat steps 1-4 until all limits mentioned in step 3 are maintained.
6. Start tractor, raise implement slightly, and drive forward enough to clear support blocks.
7. Lower implement to ground and shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 7.
Down Pressure Kit (Optional)

Refer to Figure 1-9:
Spring loaded rear deflector deflects flying debris and levels the freshly tilled soil. See manual 311-134M included with the Down Pressure Kit No. 311-162A for assembly instructions.

Optional Down Pressure Kit 311-162A
Figure 1-9
Operating Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Rotary Tiller. Therefore, it is absolutely essential that no one operates the Rotary Tiller 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, page 1
- Section 1: Assembly & Set-Up, page 7
- Section 2: Operating, page 15
- Section 3: Adjustments, page 18
- Section 4: Maintenance & Lubrication, page 20

Inspections

Perform the following inspections before using your Rotary tiller with tiller attached to a tractor, power take-off disengaged and completely stopped.

### Operating Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect tractor safety equipment to make sure it is in good working condition.</td>
<td>Tractor Manual</td>
</tr>
<tr>
<td>Check all guards and shields to make certain they are in good working condition, in place, and secured.</td>
<td></td>
</tr>
<tr>
<td>Carefully raise and lower implement to ensure drawbar, tires, etc. do not contact tiller frame or driveline.</td>
<td></td>
</tr>
<tr>
<td>Check driveline. Make sure it is secured at both ends. Refer to “Driveline Installation”.</td>
<td>Page 9</td>
</tr>
<tr>
<td>Check drive chain tension. Refer to “Drive Chain Adjustment”.</td>
<td>Page 18</td>
</tr>
<tr>
<td>Check tiller depth setting. Refer to “Skid Shoe Adjustment”.</td>
<td>Page 18</td>
</tr>
<tr>
<td>Check driveline slip clutch to make sure disks will slip. Refer to “Driveline Protection”</td>
<td>Page 21</td>
</tr>
<tr>
<td>Check for worn, bent, broken, loose, and/or missing tines. Refer to “Tine Replacement”</td>
<td>Page 21</td>
</tr>
<tr>
<td>Grease driveline shaft and all other grease fittings. Refer to “Lubrication Points”.</td>
<td>Page 1</td>
</tr>
<tr>
<td>Check oil level in gearbox. Make sure all plugs have been replaced when completed. Refer to “Lubrication Points”.</td>
<td>Page 26</td>
</tr>
<tr>
<td>Check oil level in chaincase. Make sure all plugs have been replaced when completed. Refer to “Lubrication Points”.</td>
<td>Page 26</td>
</tr>
<tr>
<td>Check tiller initially and periodically for loose bolts and pins. Refer to “Torque Values Chart”</td>
<td>Page 32</td>
</tr>
</tbody>
</table>

### Safety Information

**DANGER**

To avoid serious injury or death:

- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person’s body and/or clothing can become entangled in the driveline.

- Keep yourself and all others away from rotating tines and drive train. Always disengage power take-off and lockout power source before making adjustments or servicing the tiller. A person’s body, hair, or clothing can become entangled in rotating components causing serious bodily injury or death.

- Keep away from rotating hex drive shaft located between gearbox and drive end of tiller. A person can become entangled in the shaft.

- Make all 3-point hydraulic adjustments from the tractor seat. Never make hydraulic adjustments while standing behind the tractor.

- Tine impact on objects can throw projectiles resulting in bodily injury or death. Do not point discharge toward people, animals, or buildings and keep people and animals away from tiller during operation.

- Keep front rubber dirt deflector on reverse tine tillers in place while operating the unit. Objects in a reverse tine tiller can be thrown forward toward the operator.

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

- Do not use a power take-off adapter. The adapter will increase strain on the tractor’s power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor’s power take-off shield.

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

**WARNING**

To avoid serious injury or death:

- Be careful when working areas where obstructions can be hidden. Always mark potential hazards with a visible flag. Travel slowly through high risk areas and be prepared to stop immediately should implement make contact with a solid object.

- Do not till across steep inclines that are subject to rollover. The action of the tines being forced down into the ground can cause the tractor to roll-over resulting in serious injury or death. Consult your tractor’s manual for acceptable inclines the tractor is capable of traveling across.

- Never carry riders on the implement or tractor. Riders can obstruct the operator’s view, interfere with control of the equipment, be pinched by moving components, become entangled in rotating components, be struck by objects, be thrown or fall from the equipment, etc.
Section 2: Operating

- Allow only persons to operate this implement who have fully read and comprehended this manual, who have been properly trained in the safe operation of this implement, and who are age 16 or older. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Do not use implement as a man lift or work platform. It is not properly designed or guarded for this use.
- Do not use implement to lift objects; to pull objects such as fence posts, stumps, etc; or to push objects. The unit is not designed or guarded for these uses.
- Always shut tractor down using “Tractor Shutdown Procedure” provided in this manual before dismounting tractor.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting implement back into service. Serious breakdowns can result in injury or death.
- Always disengage power take-off immediately after lifting tiller above ground level. Never operate tiller in the raised position. The tiller can discharge objects at high speeds resulting in injury or death.
- Never make contact with underground utilities such as electrical power lines, gas lines, phone lines, etc. They can cause serious injury or death from electrocution, explosion, or fire. If in doubt, call 811 (USA) before digging so that they can mark the location of underground services in the area. For contact information, see Dig Safe in the “Important Safety Information” starting on page 1.
- Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds and can cause serious injury or death. Always remove the implement from use until the damaged driveline can be repaired or replaced.
- A rotating driveline must not exceed an angle of 25 degrees up or down, and never engage a driveline while at an angle exceeding 25 degrees up or down. The driveline can break and send projectiles.

CAUTION
To avoid minor or moderate injury:
Some tractors are equipped with two power take-off speeds. Do not exceed 540 rpm power take-off speed or equipment breakage may result.

IMPORTANT: Make sure all safety labels are in their proper location and in good condition before operation. Follow all directions on the safety labels.

IMPORTANT: To prevent park stand from being damaged, always store stand in the transport position before moving tractor with tiller attached.

IMPORTANT: Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.

Transporting

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

1. When raising the tiller to the transport position, be sure that driveline does not contact tractor or tiller. Adjust the tractor’s 3-point hitch lift height so that the tiller lines are not lifted more than 14 inches off the ground to prevent damage to the driveline.
2. Remove wire retaining pin from park stand and raise park stand up to the bottom hole. Reinsert wire retaining pin. Make certain wire retainer is caught over end of pin.
3. Be sure to reduce tractor ground speed when turning; and, leave enough clearance so the tiller does not contact obstacles such as buildings, trees, or fences.
4. Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
5. When traveling over rough or hilly terrain, shift tractor to a lower gear.

Unhook Rotary Tiller
The following steps should be done when preparing to store the tiller or unhitch it from the tractor.

1. Park the tiller on a level, solid area.
2. Shut off tractor engine and engage park brake.
3. Set park stand to desired height for re-hook-up and install pin to lock in place.
4. Unhitch tiller from tractor.

WARNING
To avoid serious injury or death:
An unsupported parked tiller can tip over. Always use park stand and/or support blocks to prevent it from tipping over onto a person.
5. Check tiller for stability by physically applying pressure at hitch plates to see if it will tip forward or backward. If tiller moves in either direction, block under tiller as needed to prevent that movement.
6. See “Long-Term Storage” on page 24 for additional information on long term storage of your Rotary Tiller.

General Operating Notes
Before beginning to till the following inspection should be performed:

1. Check oil level in gearbox and chaincase. Refer to “Ordering Replacement Parts” on page 24.
2. Check that all plugs have been replaced properly in the gearbox and chaincase.
3. Be sure all tiller tines, bolts, and nuts are tight.
4. Be certain all guards, shields, and dirt deflectors are in place and secure.
5. Grease driveline shaft and all other grease fittings. Refer to “Ordering Replacement Parts” on page 24.
6. Clear area to be tilled of rocks, branches, and other foreign objects.
7. Tall grass and weeds should be mowed before tilling.
8. Do not engage power take-off at full throttle. Once engaged, increase throttle to 540 power take-off speed. Tiller tines will cut better at 540 power take-off speed than at reduced throttle.
9. Tilling should not be done in wet conditions as soil will stick to tines.
10. At first begin tilling at a slow forward speed and shift up as ground conditions warrant.
11. Operated tiller with deck level to the ground.
12. Tiller should be operated with the tiller deck level to the ground.
13. Tiller tines will cut better when operating the tractor at full 540 rpm power take-off speed than at reduced throttle.
14. After tilling the first 50 feet, stop and check to see that the tiller is adjusted properly.
15. Do not make turns or attempt to back up while tiller is in the ground. See important note below.

IMPORTANT: Turning or backing up with rotary tines in the ground will damage the tiller.

16. Do not engage power take-off with machine in the fully raised or lowered position.
17. Periodically check for foreign objects wrapped around the rotor shaft and remove them after disengaging power take-off, turning off tractor engine, and removing ignition key.

General Operating Instructions
Before using your Land Pride RTA25 or RTA35 Series Rotary Tiller, you should have completely read the Operator’s Manual, properly attached the Tiller to the tractor, cut the Drive-line to proper length, Run-in the clutch, and gone through the Operating Checklist. If you have missed any of these steps, please complete them before proceeding.

Now that you have properly prepared yourself and your tiller, it’s time to do some tilling. Carefully drive the tractor to the site where you intend to till. You should have already cleaned this site of any large limbs, rocks, trash, metal, or extraneous debris. Best results will be achieved if you have mounted your tiller offset to the left far enough to cover the tread of your left tractor wheel. Line the tractor up just to the right of center on your tillage plot. You will be working from the center out and always turning to the left to line up for your next pass. Lower the tiller half way to the ground and reduce your tractor engine speed to about one quarter throttle. Engage the power take-off and gradually increase the engine speed until you reach full power take-off speed of 540 rpm. Lower the Tiller to the ground and simultaneously commence forward travel of approximately 2 mph. Do not make turns or attempt to back up while tiller is in the ground. See important note below.

IMPORTANT: Turning or backing up with rotary tines in the ground will damage the tiller.

Travel about 50ft. and then stop to check your results. When stopping, remember to lift the tiller out of the ground, stop the tractor, reduce engine speed, disengage the power take-off, set the park brake, shut off the tractor, and remove the keys. If you are tilling too shallow or too deep, adjust the skid shoes accordingly. If the soil texture is too coarse, lower the leveling door and reduce your ground speed. If the soil texture is too fine, you will need to raise your leveling door and increase your ground speed. For any other problem conditions that may arise, you will want to refer to the Troubleshooting section of this Operator’s Manual.

When you are done tilling for the day, make sure you use proper tractor shutdown procedures before you get off of the tractor. If you are detaching your tiller, make sure you park it on a dry and level surface leaving it clean and ready for the next use. When you put your tiller up for the season, make sure you refer to the Storage Directions in this Operator’s Manual.

With a little practice and a few adjustments, you will soon be achieving the results you want with your Land Pride Rotary Tiller. See “Features and Benefits” page 30 or “Specifications and Capacities” page 28 for additional information and performance enhancing options.
Section 3: Adjustments

Torque Requirements
Refer to “Torque Values Chart” on page 32 to determine correct torque values for common bolts.

Drive Chain Adjustment
Refer to: Refer to Figure 3-1:
The tension on the drive chain can be easily adjusted by using the chain tightener stud as shown. Should excessive backlash occur:
1. Unscrew nylock jam nut.
2. Turn chain tightener stud clockwise as indicated by the arrow until idler arm is firm against the chain. Then back stud off counterclockwise 1/4 turn.
3. Re-lock nylock jam nut while holding the head of the bolt in place.

Skid Shoe Adjustment
Refer to Figure 3-2:
The skid shoes can be raised or lowered for the desired tilling depth by:

NOTE: Tilling depth is the vertical distance from bottom of skid shoes to bottom of lowest tine. Be certain both skid shoes are adjusted the same.

1. Raise tiller off the ground and properly support.
2. Loosen pivot bolt (#1) on front of shoe.
3. Remove adjusting bolt (#2) on rear of shoe.
4. Adjust skid shoe (#3) to desired location.
5. Reinstall adjusting bolt (#2) and lock washer (#4). Tighten adjusting bolt (#2) and the pivot bolt (#1).
Rear Deflector Adjustment

Refer to Figure 3-3:
The rear deflector can be adjusted closer to the ground to produce a fine soil texture or can be raised to produce a coarse soil texture by adjusting the rod length on the rear deflector.

1. Remove cotter hair pins (#2) and move spring rods (#1) up or down the desired height.
2. Reinsert cotter hair pins in the holes (#3) closest to springs (#4).

An optional spring kit, part no. 311-162A, is offered to apply down pressure on the rear deflector for leveling.

1. Loosen slide collar set screws (#5).
2. Adjust slide collars (#7) up to compress springs (#6) to desired pressure.
3. Tighten slide collar set screws.

NOTE: Too much pressure will cause premature wear on the rear deflector.

Hitch Offset

Refer to Figure 3-4:
The tiller can be offset up to 5" maximum by adjusting the lower 3-point clevises horizontally on the tiller frame and if needed, offsetting the tractor’s lower 3-point arms.

NOTE: The tiller cannot be offset when using a Quick Hitch.

IMPORTANT: Do not exceed 5" offset. The driveline, power take-off shaft, and/or gearbox can be damaged.

1. Loosen 1/2" nylock nuts (#3) and move both left and right-hand clevises (#1) an equal amount left or right on tiller frame (#2).
2. Tighten 1/2" nylock nuts (#3) to the correct torque.
3. If additional adjustment is needed, offset tractor’s lower 3-point arms. Do not exceed 5" maximum offset.
Section 4: Maintenance & Lubrication

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

Check all hardware after several hours of operation and regularly thereafter to ensure they are tight and secured. Replace worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride dealer.

⚠️ WARNING
To avoid serious injury or death:
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.
- Before any adjustments or maintenance is performed, lower implement to ground, shut engine off, and remove switch key. Do not attempt to make adjustments or perform maintenance with implement or power machine running.

Roller Chain & Drive Sprockets
Sprockets and roller chain should be checked for wear annually by a qualified person. Replacing a worn roller chain will extend the life of the sprockets. Be sure to replace worn sprockets when replacing the roller chain. Access roller chain and sprockets through the chain case.

Refer to Figure 4-1:
1. Remove oil level plug (#1). Tip tiller backwards and drain oil out into an oil drip pan.
2. Loosen chain tightener jam nut (#2) and chain tightener stud (#3).
3. Placed an oil drip pan under chain case cover (#6) and remove 1/4"-20 hex bolts (#5).
4. Being careful not to damage gasket (#7), remove chain case cover (#6).
5. Inspect gasket (#7). Be sure to replace it if it is damaged.
6. Inspect roller chain (#4) and replace if worn excessively.
7. Inspect top sprocket (#9) and bottom sprocket (#10). Replace if worn excessively.
8. When replacing the bottom sprocket (#10), be sure to tighten nylock nut (#8) to the correct torque.

9. Tighten nylock jam nut (#8) all the way down until top sprocket (#9) is bottomed out on the bearing.
10. Back jam nut out until you can install .015" feeler gauge between sprocket and jam nut as shown.
11. Tighten jam nut up against feeler gauge until snug. Pull feeler out and tighten jam nut 1/6 of a turn.

NOTE: The input shaft on the gearbox should turn using hand pressure.

Refer to Figure 4-2:
12. Install roller chain (#4). Make sure roller chain is under chain idler arm (#11).
13. Install gasket (#7) and chain case (#6) with 1/4"-20 hex flange serrated screws.
14. Draw all the screws (#5) up snug before tightening them. Tighten the screws to the correct torque as follows:
   • Tighten the bottom screw first.
   • Tighten the next screw up on the right.
   • Cross over to the left and tighten that screw.
   • Continuing crossing back and forth tightening the screws working your way up the chain case until you have reached the top and tightened the top screw.

15. Tighten roller chain per instructions under “Drive Chain Adjustment” on page 18.

16. Fill chain case with oil specified on page 28 until oil reaches the oil level hole at the bottom. Install oil level plug (#1) and tighten to the correct torque.

Tine Replacement
Refer to Figure 4-3:

**WARNING**
To avoid serious injury or death:
Used tines can be very sharp. Always wear gloves when handling tines to protect against cuts.

**IMPORTANT:** When ordering tines, be sure to order only genuine OEM tines and to order both right- and left-hand tines. Always install tines with cutting edge facing the direction of rotation.

**IMPORTANT:** Remove and install one tine at a time to ensure they are oriented correctly when installed.

1. Remove 2 cap screws and fasteners from tine to be replaced. Remove tine.
2. Install new tine on side of attaching flange as shown.
3. Replace 2 cap screws and fasteners and tighten nuts to proper torque. See the Torque Values Chart “Appendix” section on 32.

Driveline Protection
Driveline components are protected from shock loads by a friction slip clutch. The clutch must be capable of slippage during operation to protect the gearbox, driveline, and other drive train parts.

Friction clutches should be “run-in” prior to initial operation and after long periods of inactivity to remove any oxidation that may have accumulated on the friction surfaces. Repeat “run-in” instructions at the beginning of each season and when moisture and/or condensation seizes the inner friction plates.

Refer to Figure 4-4 below and Figure 4-5 on page 23 to determine which friction clutch your tiller has. Follow run-In, disassembly, and assembly instructions for your specific clutch.

Clutches With 4 Adjusting Nuts
Clutch Run-In
Refer to Figure 4-4 (View - A):

1. Using a pencil or other marker, scribe a line across the exposed edges of the clutch plates and friction disks.
2. Tighten all 4 nuts uniformly until spring load is low enough that the clutch slips freely with power take-off engaged.

3. Start tractor and engage power take-off for 2-3 seconds to permit slippage of clutch surfaces. Disengage power take-off, then re-engage a second time for 2-3 seconds. Disengage power take-off, shut off tractor, and remove key. Wait for all components to stop before dismounting from tractor.
4. Inspect clutch and ensure that the scribed markings made on the clutch plates have changed position. Slippage has not occurred if any two marks on the friction disk and plate are still aligned. A clutch that has not slipped must be disassembled to separate the friction disk plates. See “Clutch Disassembly & Assembly” on page 22.

Refer to Figure 4-4 (View - B):

5. Turn all 4 nuts fully back if no two marks on the friction disk and plate are still aligned. Clutch is ready for use.
6. The clutch should be checked during first hour of cutting and periodically each week. An additional set of scribe marks can be added to check for slippage.
Clutch Disassembly & Assembly
If clutch run-in procedure indicates that one or more of the friction disks did not slip, then the clutch must be disassembled to separate the friction disks.

**IMPORTANT:** Secure clutch firmly in a vise or other clamping device to prevent injury.

### Disassembly

**Step 1**
Remove snap ring.

**Step 2**
Remove backup ring, lock collar, compression spring, bottom backup ring, and balls.

**Step 3**
Tighten the four hex nuts uniformly until the clutch pack and hub are loose.

**Step 4**
Bend all four retaining lugs out on the edge of the clutch housing.

**Step 5**
Remove the thrust plate with the Belleville Springs and lug rings to access friction disks and hub for inspection or service.

**Step 6**
Inspect friction disks and hub.

### Assembly

**Step 1**
Place the hub and friction disks into the housing.

**Step 2**
Compress the Belleville Springs to the pressure plate by tightening the four hex nuts and then placing the assembly into the clutch housing.

**Step 3**
Bend the retaining lugs inward over the Belleville Spring edges to secure the spring before backing the four hex nuts off.

**Step 4**
With the lugs bent in, loosen the four hex nuts completely to the end of the threaded studs.

**Step 5**
Insert greased balls.

**Step 6**
Install bottom backup ring, compression spring, lock collar, and top backup ring.

**Step 7**
Install snap ring.
### Section 4: Maintenance & Lubrication

#### Clutches With 8 Hex Socket Bolts

#### Clutch Run-In

**Refer to Figure 4-5:**

1. Loosen counterclockwise all 8 hex head socket bolts uniformly 6 full turns.
2. Cycle clutch on and off 5 or 6 times (15 seconds on and 15 seconds off) with the engine operating at half throttle. Disengage driveline, shut off tractor, and remove key. Wait for all components to stop before dismounting from tractor.
3. Tighten hex head socket bolts fully back. Clutch is ready for use.
4. The clutch should be checked during the first hour of cutting and periodically each week.

#### Clutch Disassembly & Assembly

**Refer to Figure 4-6:**

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

1. Rotate 8 hex head socket bolts (#2) all the way out to free stop flange (#3).
2. Record position of the lips (up or down) on stop flange (#3) and then rotate flange and remove it.
3. Remove the following inner components:
   a. Spring kit (#4)
   b. Pressure flange (#5)
   c. 1st Friction Disc (#6)
   d. Hub with flange and pull collar (#7 & #1)
   e. 2nd Friction disc (#6)
   f. Intermediary flange (#8)
   g. 3rd Friction disc (#6)
   h. Hub disc (#9)
   i. 4th Friction disc (#6)
   j. Bearing (#10)

**IMPORTANT:** Check position of lip on stop flange. (UP or DOWN). Install stop flange with lip UP if there is only one spring (#4) and with lip DOWN if there are two springs (#4).

4. Inspect all components and replace to their original position. Make certain stop flange (#3) is replaced with its flanges in its original position. See important note in Figure 4-6.
5. Fully tighten all 8 hex head socket bolts (#2).
Long-Term Storage
Clean, inspect, service, and make necessary repairs to the implement when storing it for long periods and at the end of the season. This will help to ensure the unit is ready for field use the next time you hook-up to it.

⚠️ DANGER
To avoid serious injury or death:
Always disconnect driveline from the tractor and secure implement in the up position with solid, non-concrete supports before servicing the underside. A person can become entangled in the drivetrain if the tractor is started and power take-off is engaged or crushed by an unsupported implement.

1. Clean off any dirt or grease that may have accumulated on any of the moving parts.
2. Check tines for wear and replace if necessary. See “Tine Replacement” on page 21.
3. Inspect tiller for loose, damaged, or worn parts, and adjust or replace as needed.

Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for Aerosol touch-up paint. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the Aerosol part number.

4. A coating of oil may be applied to worn surfaces in lieu of painting to minimize oxidation.
5. Replace all damaged or missing decals.
7. Drain and refill gearbox and chaincase oil. Be sure to replace all oil plugs.
   • Drain oil in gearbox by removing the bottom drain plug or right-hand cap.
   • Drain oil in chaincase by removing the bottom plug and tipping the Rotary Tiller backwards.
8. Store Rotary Tiller on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer tiller life.
9. Follow all parking instructions on page 16 when disconnecting tractor from Rotary Tiller.

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

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>821-011C</td>
<td>PAINT LP BEIGE SPRAY CAN</td>
</tr>
<tr>
<td>821-066C</td>
<td>PAINT ORANGE SPRAY CAN</td>
</tr>
<tr>
<td>821-070C</td>
<td>PAINT GP GLOSS BLACK SPRAY CAN</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Lubrication Legend</th>
<th>50 Hrs</th>
<th>Intervals in hours at which lubrication is required</th>
</tr>
</thead>
<tbody>
<tr>
<td>spray lube</td>
<td></td>
<td></td>
</tr>
<tr>
<td>grease lube</td>
<td></td>
<td></td>
</tr>
<tr>
<td>oil lube</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Driveline U-Joint**

Coat driveline u-joint with grease every 8 hours of operation

Type of grease = Multi-Purpose
Quantity = Coat Generously

**Driveline Shaft**

Disconnect driveline from the tractor and slide apart. Clean and coat the inner tube of the driveline with a light film of grease and then reassemble.

Type of grease = Multi-Purpose
Quantity = Coat Generously

**Bearing on Right End of Rotor Shaft**

Grease bearing on right end of rotor shaft until grease starts to purge from the relief hole in the bearing mount casting on the inside of the tiller end plate.

Type of grease = Multi-Purpose
Quantity = Coat Generously
Section 4: Maintenance & Lubrication

Chaincase

**IMPORTANT:** Tiller should be level when checking oil level in chaincase. Check oil level by removing lower level plug. Oil should reach bottom of plug hole. Remove fill plug and add recommended lubrication as needed. Tighten both plugs when full.

**Type of lubrication:** Shell Gadus S2 V220 00 flowable grease
**Land Pride #821-045C (32oz. bottle)**
**Quantity:** Gear Lube will run out of lower plug when full.

Gearbox (RTA25 Series)

Check oil level in gearbox by unscrewing top vented dipstick. Wipe oil from dipstick and screw dipstick in without tightening. Unscrew dipstick and check oil on dipstick. If on or below bottom level mark, add recommended gear lube through dipstick hole until oil reaches top mark on dipstick. Do not overfill. Reinstall vented dipstick and tighten.

**Type of lubrication = Gear Lube 80-90W EP**
**Quantity = As required**

Gearbox (RTA35 Series)

Check oil level in gearbox by unscrewing top vented dipstick. Wipe oil from dipstick and screw dipstick in without tightening. Unscrew dipstick and check oil on dipstick. If below level mark on dipstick, add recommended gear lube through dipstick hole until oil reaches level mark on dipstick. Do not overfill. Reinstall vented dipstick and tighten.

**IMPORTANT:** Take your gearbox to your dealer should it require repair work. Check oil level in gearbox at least every 50 hours of operation.

**Type of lubrication = Gear Lube 80-90W EP**
**Quantity = As required**
This page left blank intentionally
## Section 5: Specifications & Capacities

### RTA25 & RTA35 Series

<table>
<thead>
<tr>
<th>Specification &amp; Capacities</th>
<th>RTA2562-06</th>
<th>RTA2570-06</th>
<th>RTA3576</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Number</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Recommended Power Take-off Horsepower</strong></td>
<td>25-75 Horsepower</td>
<td></td>
<td>35-95 Horsepower</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>649 lbs.</td>
<td>663 lbs.</td>
<td>856 lbs.</td>
</tr>
<tr>
<td><strong>Tilling Width</strong></td>
<td>62&quot;</td>
<td>70&quot;</td>
<td>76&quot;</td>
</tr>
<tr>
<td><strong>Overall Width</strong></td>
<td>67 5/8&quot;</td>
<td>75 5/8&quot;</td>
<td>81 5/8&quot;</td>
</tr>
<tr>
<td><strong>3-Point Hitch Type</strong></td>
<td>Category I, Adjustable Lower Hitch Clevis with Plated Pins</td>
<td>Category I &amp; 2, Adjustable Lower Hitch Clevis</td>
<td></td>
</tr>
<tr>
<td><strong>Quick Hitch Compatible</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Cat. I</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Cat. II</strong></td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Offset Capabilities</strong></td>
<td>Yes, up to 5&quot; maximum. May require offsetting the tractor’s lower 3-Point lift arms to achieve full 5&quot; offset. (Cannot offset with Quick Hitch)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of Flanges</strong></td>
<td>8</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td><strong>Number of Tines per Flange</strong></td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tine Construction</strong></td>
<td></td>
<td>High Carbon heat treated “C” shaped blades</td>
<td></td>
</tr>
<tr>
<td><strong>Skid Shoes</strong></td>
<td></td>
<td>Adjustable</td>
<td></td>
</tr>
<tr>
<td><strong>Storage Stands</strong></td>
<td></td>
<td>Adjustable</td>
<td></td>
</tr>
<tr>
<td><strong>Rear Deflector</strong></td>
<td></td>
<td>Spring Loaded, adjustable, rear deflector</td>
<td></td>
</tr>
<tr>
<td><strong>Driveline</strong></td>
<td>ASAE Category III Heavy Duty Slip-Clutch</td>
<td>ASAE Category IV Heavy Duty Slip-Clutch</td>
<td></td>
</tr>
<tr>
<td><strong>Gearbox</strong></td>
<td>45 hp at 540 rpm 1.92:1 Ratio</td>
<td>65 hp at 540 rpm 1.87:1 Ratio</td>
<td></td>
</tr>
<tr>
<td><strong>Gearbox Construction</strong></td>
<td>Cast Iron Housing, Straight Bevel Gears</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gearbox Lubrication</strong></td>
<td>SAE 80-90W EP oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gearbox Oil Capacity</strong></td>
<td>2 Pints</td>
<td>1.65 Pints</td>
<td>2 Pints</td>
</tr>
<tr>
<td><strong>Drive Chain</strong></td>
<td>#100 Roller chain</td>
<td>Fully enclosed in oil bath with drain plug, fill plug and skid protection</td>
<td></td>
</tr>
<tr>
<td><strong>Chain Case Oil Type</strong></td>
<td>Shell Gadus S2 V2200 00 flowable grease or equivalent Land Pride Part #821-045C (32 oz. bottle)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sprockets</strong></td>
<td>2&quot; Cold rolled steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rotor Swing Diameter</strong></td>
<td>17&quot;</td>
<td></td>
<td>19&quot;</td>
</tr>
<tr>
<td><strong>Rotor Shaft Speed</strong></td>
<td>220 rpm at 540 rpm power take-off speed</td>
<td>204 rpm at 540 rpm power take-off speed</td>
<td></td>
</tr>
</tbody>
</table>
Section 5: Specifications & Capacities

Table of Contents

RTA25 & RTR25 Series

RTA2562 = 30 1/2"
RTA/R2570 = 34 1/2"
RTA2562 = 31 1/2"
RTA/R2570 = 35 1/2"
RTA2562 = 67 5/8"
RTA2570 & RTR2570 = 75 5/8"

RTA35 & RTR35 Series

RTA3576 = 36 5/8"
RTA3576 = 39 3/8"
RTA3576 = 81 5/8"

RTA25 & RTR25 Series

26801

RTA35 Series

26803
## Section 6: Features & Benefits

### RTA25 & RTA35 Series Rotary Tiller

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>American made</td>
<td>Many tillers are imported. American made means better parts availability.</td>
</tr>
<tr>
<td>Tractor horsepower range</td>
<td>(RTA25 = 25 - 75 hp) and (RTA35 = 35 - 95 hp)</td>
</tr>
<tr>
<td>Gearbox warranty</td>
<td>3 Years on housing, gears, shafts, seals, bearings. Shows our confidence in the product.</td>
</tr>
<tr>
<td>Working widths</td>
<td>(RTA25 = 62&quot; &amp; 70&quot;) And (RTA35 = 76&quot;) To meet specific customer needs</td>
</tr>
<tr>
<td>8” Digging depth</td>
<td>For extra deep soil penetration and cultivation.</td>
</tr>
<tr>
<td>Stamped upper hitch plate</td>
<td>Stamped plate adds additional strength to hitch.</td>
</tr>
<tr>
<td>Hitch bolted to inside of support</td>
<td>Force is applied downward on top hitch, by bolting hitch to inside of support. Keeps hitch from 'spreading' outward.</td>
</tr>
<tr>
<td>Clevis style lower hitch</td>
<td>Allows easier hook-up of lower 3-point arms.</td>
</tr>
<tr>
<td>Hitch offset capability</td>
<td>Offset 5&quot; by moving lower hitch points to cover right tire track.</td>
</tr>
<tr>
<td>Fits Land Pride Quick Hitch</td>
<td>Allows for quick and easy one person hook-up. Offset can not be used with Quick Hitch.</td>
</tr>
<tr>
<td>Adjustable park stand</td>
<td>Allows for easy hook-up and storage.</td>
</tr>
<tr>
<td>Adjustable skid shoes</td>
<td>Control depth with various settings.</td>
</tr>
<tr>
<td>Wear shield or left skid shoe</td>
<td>Shield protects lower portion of chain cover from wearing due to dragging in the soil.</td>
</tr>
<tr>
<td>Formed rear deflector with springs</td>
<td>Forming gives deflector additional strength. Springs allow deflector to &quot;bounce&quot; when obstructions are hit.</td>
</tr>
<tr>
<td>Rear gate down pressure springs (optional)</td>
<td>Forces the rear gate down to level even better. Easy-to-adjust chain tightener cast iron chain tightener is a simple bolt adjustment to keep constant tension on the chain.</td>
</tr>
<tr>
<td>Four or six tines per flange</td>
<td>Six tines go through the ground better than four.</td>
</tr>
<tr>
<td>“C” Tines</td>
<td>C Tines take less horsepower to move through the ground.</td>
</tr>
<tr>
<td>Rotor swing diameter</td>
<td>(RTA25 = 17”) And (RTA35 = 19”) For deep tilling action and turning the soil over faster.</td>
</tr>
<tr>
<td>Double lip seal on rotor bearings</td>
<td>Double lip seal helps keep the dirt out and the grease in.</td>
</tr>
<tr>
<td>Cat. 3 driveline with slip-clutch protection</td>
<td>Heavy driveline for rough conditions. Slip-clutch protects other drive train components and saves having to replace shear bolts.</td>
</tr>
<tr>
<td>#100 Drive chain enclosed in oil bath</td>
<td>Heavy-duty drive chain reduces stretching, oil keeps constant lubrication and holds wear to a minimum.</td>
</tr>
<tr>
<td>Stamped chain cover</td>
<td>Stamped forming adds additional strength.</td>
</tr>
</tbody>
</table>
## Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine makes intermittent clicking noise</td>
<td>Tines are loose.</td>
<td>Tighten tines.</td>
</tr>
<tr>
<td></td>
<td>Gearbox has tooth damaged.</td>
<td>Replace damaged gearbox.</td>
</tr>
<tr>
<td></td>
<td>Roller chain is damaged.</td>
<td>Replace damaged chain link.</td>
</tr>
<tr>
<td>Power take-off vibrates</td>
<td>Universal joint is worn.</td>
<td>Replace universal joint.</td>
</tr>
<tr>
<td></td>
<td>Excessive trash is wrapped on rotor.</td>
<td>Remove trash.</td>
</tr>
<tr>
<td></td>
<td>Machine is lifted too high.</td>
<td>Lower machine and readjust tractor lift stop.</td>
</tr>
<tr>
<td>Gearbox noise is noticeable and constant</td>
<td>May be normal on new machine.</td>
<td>Allow time for break-in.</td>
</tr>
<tr>
<td></td>
<td>Low oil level.</td>
<td>Add oil to the gearbox.</td>
</tr>
<tr>
<td></td>
<td>Worn gears.</td>
<td>Replace gears in the gearbox.</td>
</tr>
<tr>
<td>Oil leaking from gearbox</td>
<td>Seals and/or gaskets are damaged.</td>
<td>Replace seals or gaskets in the gearbox.</td>
</tr>
<tr>
<td></td>
<td>Gearbox is overfilled.</td>
<td>Drain oil to proper level.</td>
</tr>
<tr>
<td>Rotor will not turn</td>
<td><strong>Power take-off</strong> is not engaged.</td>
<td>Engage power take-off.</td>
</tr>
<tr>
<td></td>
<td>Drive chain is broken.</td>
<td>Repair drive chain.</td>
</tr>
<tr>
<td></td>
<td>Driveline shearbolt is sheared.</td>
<td>Replace shearbolt.</td>
</tr>
<tr>
<td></td>
<td>Friction clutch is slipping.</td>
<td>Reduce load to tiller.</td>
</tr>
<tr>
<td>Tillage depth insufficient</td>
<td>Tiller is carried by tractor.</td>
<td>Lower tractor 3-point arms.</td>
</tr>
<tr>
<td></td>
<td>Tractor has insufficient power.</td>
<td>Increase tractor rpm.</td>
</tr>
<tr>
<td></td>
<td>Skid Shoes need adjusting.</td>
<td>Adjust skid shoes.</td>
</tr>
<tr>
<td></td>
<td>Tines are worn or bent.</td>
<td>Replace tines.</td>
</tr>
<tr>
<td></td>
<td>Tines are incorrectly installed.</td>
<td>Check tine placement.</td>
</tr>
<tr>
<td></td>
<td>Obstacles are entangled in tines and/or rotor.</td>
<td>Clear rotor and/or tines of obstacles.</td>
</tr>
<tr>
<td></td>
<td>Lower hitch clevises are in the wrong position.</td>
<td>Relocate lower hitch clevises.</td>
</tr>
<tr>
<td>Soil texture too coarse</td>
<td>Leveling door is too high.</td>
<td>Lower leveling door.</td>
</tr>
<tr>
<td></td>
<td><strong>Power take-off</strong> speed is too slow.</td>
<td>Increase power take-off speed.</td>
</tr>
<tr>
<td></td>
<td>Ground speed is too fast.</td>
<td>Decrease ground speed.</td>
</tr>
<tr>
<td>Soil texture too fine</td>
<td>Leveling door is too low.</td>
<td>Raise leveling door.</td>
</tr>
<tr>
<td></td>
<td>Ground speed is too slow.</td>
<td>Increase Ground Speed.</td>
</tr>
<tr>
<td>Machine skips or leaves crop residue</td>
<td>Tines are badly worn.</td>
<td>Replace worn tines.</td>
</tr>
<tr>
<td></td>
<td>Friction clutch is slipping.</td>
<td>Reduce load.</td>
</tr>
<tr>
<td></td>
<td>Ground speed is too fast for conditions.</td>
<td>Reduce ground speed.</td>
</tr>
<tr>
<td>Tines operating behind tractor tires show increased wear</td>
<td>Tractor tires can compact soil causing tines that operate in the compacted soil to have increased wear.</td>
<td>Considered as normal wear. Replace worn tines.</td>
</tr>
<tr>
<td>Tines balling up with soil</td>
<td>Tines are worn or bent.</td>
<td>Replace tines.</td>
</tr>
<tr>
<td></td>
<td>Tines are incorrectly installed.</td>
<td>Install tines correctly.</td>
</tr>
<tr>
<td></td>
<td>Rear deflector is too low.</td>
<td>Raise rear deflector.</td>
</tr>
<tr>
<td></td>
<td>Tractor speed is too fast.</td>
<td>Decrease tractor speed.</td>
</tr>
<tr>
<td></td>
<td>Soil is too wet.</td>
<td>Wait until soil dries.</td>
</tr>
<tr>
<td>Tiller bumping on ground</td>
<td>Obstacles are entangled in tines and/or rotor.</td>
<td>Clear rotor and/or tines.</td>
</tr>
<tr>
<td></td>
<td>Tines are not installed correctly.</td>
<td>Install tines correctly.</td>
</tr>
</tbody>
</table>
## Torque Values Chart for Common Bolt Sizes

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
<th>Bolt Size (Metric)</th>
<th>5.8</th>
<th>8.8</th>
<th>10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N · m 2</td>
<td>ft-lb 3</td>
<td>N · m 2</td>
<td></td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
<td>1</td>
<td>16</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5</td>
<td>6</td>
<td>13</td>
<td>10</td>
<td>18</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15</td>
<td>11</td>
<td>24</td>
<td>17</td>
<td>33</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17</td>
<td>13</td>
<td>26</td>
<td>19</td>
<td>37</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>27</td>
<td>20</td>
<td>42</td>
<td>31</td>
<td>59</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>31</td>
<td>22</td>
<td>47</td>
<td>35</td>
<td>67</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>43</td>
<td>32</td>
<td>67</td>
<td>49</td>
<td>95</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>7/16&quot; - 20</td>
<td>49</td>
<td>36</td>
<td>75</td>
<td>55</td>
<td>105</td>
<td>78</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td>66</td>
<td>49</td>
<td>105</td>
<td>76</td>
<td>145</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; - 20</td>
<td>75</td>
<td>55</td>
<td>115</td>
<td>85</td>
<td>165</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>9/16&quot; - 12</td>
<td>95</td>
<td>70</td>
<td>150</td>
<td>110</td>
<td>210</td>
<td>155</td>
<td></td>
</tr>
<tr>
<td>9/16&quot; - 18</td>
<td>105</td>
<td>79</td>
<td>165</td>
<td>120</td>
<td>235</td>
<td>170</td>
<td></td>
</tr>
<tr>
<td>5/8&quot; - 11</td>
<td>130</td>
<td>97</td>
<td>205</td>
<td>150</td>
<td>285</td>
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<td>5/8&quot; - 18</td>
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<td>110</td>
<td>230</td>
<td>170</td>
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<td>3/4&quot; - 10</td>
<td>235</td>
<td>170</td>
<td>360</td>
<td>265</td>
<td>510</td>
<td>375</td>
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<td>3/4&quot; - 16</td>
<td>260</td>
<td>190</td>
<td>405</td>
<td>295</td>
<td>570</td>
<td>420</td>
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<td>7/8&quot; - 9</td>
<td>225</td>
<td>165</td>
<td>585</td>
<td>430</td>
<td>820</td>
<td>605</td>
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<td>7/8&quot; - 14</td>
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<td>185</td>
<td>640</td>
<td>475</td>
<td>905</td>
<td>670</td>
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<tr>
<td>1&quot; - 8</td>
<td>340</td>
<td>250</td>
<td>875</td>
<td>645</td>
<td>1230</td>
<td>910</td>
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<td>1&quot; - 12</td>
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<td>275</td>
<td>955</td>
<td>705</td>
<td>1350</td>
<td>995</td>
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<tr>
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<td>480</td>
<td>355</td>
<td>1080</td>
<td>795</td>
<td>1750</td>
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<tr>
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<td>395</td>
<td>1210</td>
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<td>1960</td>
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<td>2460</td>
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<td>750</td>
<td>555</td>
<td>1680</td>
<td>1240</td>
<td>2730</td>
<td>2010</td>
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</tbody>
</table>

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

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

### Additional Torque Values

Lower flange bearing on drive end of rotor, 1/2" nuts 45-50 ft-lbs
Warranty

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

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

**Gearbox:** 3 years on Housing, Gears, Shafts, Bearings and Seals

**Tines & Driveline friction discs:** Considered wear items

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

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

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

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

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

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

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

Model Number ____________________ Serial Number ____________________