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*Printed in the United States of America.*

*FM2060 & FM2072 Flail Mowers 309-100M 9/27/10*
These are common practices that may or may not be applicable to the products described in this manual.

### Safety at All Times

**Thoroughly read and understand the instructions given in this manual before operation. Refer to the “Safety Label” section, read all instructions noted on them.**

**Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.**

- Operator should be familiar with all functions of the unit.
- Operate implement from the driver’s seat only.
- Make sure all guards and shields are in place and secured before operating implement.
- Do not leave tractor or implement unattended with engine running.
- Dismounting from a moving tractor could cause serious injury or death.
- Do not allow anyone to stand between the tractor and implement while backing up to the implement.
- Keep hands, feet, and clothing away from power-driven parts.
- Wear snug fitting clothing to avoid entanglement with moving parts.
- Watch out for wires, trees, etc., when raising implement. Make sure all persons are clear of working area.
- Turning tractor too tight may cause implement to ride up on wheels. This could result in injury or equipment damage.
- Do not carry passengers on implement at any time.

### 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 an imminently hazardous situation 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**

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

- **CAUTION**

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

### For Your Protection

- Thoroughly read and understand the “Safety Label” section, read all instructions noted on them.

### Shutdown and Storage

- Lower machine to ground, put tractor in park, turn off engine, and remove the key.
- Detach and store implements in an area where children normally do not play. Secure implement by using blocks and supports.
These are common practices that may or may not be applicable to the products described in this manual.

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

**Transport Machinery Safely**
- Comply with state and local laws.
- Maximum transport speed for implement is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrain require a slower speed.
- Sudden braking can cause a towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes.

**Practice Safe Maintenance**
- Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- Work in a clean dry area.
- Lower the implement to the ground, put tractor in park, turn off engine, and remove key before preforming maintenance.
- Allow implement to cool completely.
- Do not grease or oil implement while it is in operation.
- Inspect all parts. Make sure parts are in good condition & installed properly.
- Remove buildup of grease, oil or debris.
- Remove all tools and unused parts from implement before operation.
These are common practices that may or may not be applicable to the products described in this manual.

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 Protective Equipment
- Wear protective clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- 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 full attention of the operator. Avoid wearing radio headphones while operating machinery.

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

Keep Riders Off Machinery
- Riders obstruct the operator's view, they could be struck by foreign objects or thrown from the machine.
- Never allow children to operate equipment.

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

Your mower 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. Replace all damaged or missing labels. To order new labels go to your nearest Land Pride dealer.
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 the area the label is to be placed.
   b. Spray soapy water on the surface where the label is to be placed.
   c. Peel backing from label. Press firmly onto the surface.
   a. Squeeze out air bubbles with the edge of a credit card.

---

**CAUTION**

To avoid Injury or Machine Damage:
*Operate only with 540 rpm PTO*

---

**818-130C**

Caution: To avoid injury

---

**DANGER**

Guard Missing

When this is visible
Do not operate
Entanglement Hazard
Can cause Serious Injury or Death
Do not operate until it is repaired and protected with a skirt, flap, guard, or other appropriate and effective guard.

---

**818-543C**

Danger: Guard Missing
Table of Contents

Important Safety Information

818-230C
Red Reflector (Both ends)

818-552C
Danger: Rotating Driveline

818-540C
Danger: Guard Missing
Introduction

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

This Flail Mower 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 the machine.

Application

The medium duty FM2060 and FM2072 Series Flail Mowers are designed and built to provide excellent cutting performance on gently sloping or slightly contoured grassy right-of-ways, roadsides, ditches, pastures, nurseries, and smaller fields of light row crop debris, stalks, and residual agricultural trash. The 60" and 72" cutting widths and 3/4" to 4" cutting height and ability to cut weeds and brush up to 1" in diameter makes these flail mowers well suited for nursery and agricultural applications where grass, brush, pruning's, small saplings, and cotton residue are present. Either model equipped with fine cut knives will perform extremely well cutting material up to 1" in diameter or provide a very respectable quality of cut for grooming yards, municipal parks, medians, or right of ways.

Both models offer a Cat. 1 three-point hitch for tractors not to exceed 55 PTO horsepower. The three point hitches on both models offer centered mounting or offset capability 6" to the right making them even more desirable for cutting in and around trees with extremely low hanging branches. Both models also offer a Cat. 4 and 540rpm shielded driveline. The FM2060 and FM2072 Flail Mowers, with their horizontal cutting rotor design, also provide for greatly reduced potential of launching projectiles out from under the mower making them an excellent choice for state and municipal mowing applications.

See “Specifications & Capacities” on page 22 and “Features & Benefits” on page 23 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 the direction the machine will operate while in use unless otherwise stated.

Definitions

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

IMPORTANT: A special point of information related to its preceding topic. Land Pride’s intention is that this information should be read and noted before continuing.

Owner Assistance

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

If customer service or repair parts are required contact a Land Pride dealer. A dealer has trained personnel, repair parts and equipment needed to service the mower.

The parts on your mower have been specially designed and should only be replaced with genuine Land Pride parts. Therefore, should your mower require replacement parts go to your Land Pride Dealer.

Serial Number Plate

For prompt service always use the serial number and model number when ordering parts from your Land Pride dealer. Be sure to include your serial and model numbers in correspondence also. Refer to Figure 1 for the location of your serial number plate.

Further Assistance

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

1. Discuss the matter with your dealership service manager making sure he is aware of your problems and that he has had the opportunity to assist you.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem and request assistance.
3. For further assistance write to:

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

E-mail address
lpservicedept@landpride.com
Table of Contents

Section 1: Assembly and Set-up

Tractor Requirements
Tractor horsepower and hitch category should be within the range noted below. Tractors outside the horsepower range must not be used. The lower 3-Point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

- **Horsepower Rating**: 25-55 HP
- **Hitch Type**: 3-Point Cat. I
- **Rear PTO Speed**: 540 RPM
- **Tractor Weight**: See Important Note Below

**IMPORTANT:** Your tractor may require additional ballast to maintain steering control. Refer to your Tractor’s Operators Manual and machine weights on page 22 to make this determination.

Torque Requirements
Refer to “Torque Values Chart” on page 25 to determine correct torque values when tightening hardware.

Hitch Assembly
Refer to Figure 1-1:
1. The hitch is disassembled for ease in shipping.
2. The hitch can be assembled in two different positions.
   - Position 5: Offsets hitch 6 1/2” to the right.
   - Position 6: Centers hitch on the mower.
3. Assemble hitch (#1) to the Flail Mower in the position preferred and secure with hex head cap screws (#2), lock washers (#3) and hex nuts (#4) as shown.
4. Tighten all hardware to the correct torque.
Tractor Hook-Up
1. Be certain tractor draw bar will not interfere. Move draw bar ahead or remove if required. Draw bar should also be checked for clearance when unit is raised for the first time.
2. Remove linch pins in lower hitch pins.
3. Align ball swivels in the tractor's lower 3-point arms with hitch pins on mower. Slide lower ball swivels onto lower hitch pins and secure with linch pins.
4. Align top center link with mower's center hitch clevis. Insert hitch pin supplied and secure with lock pin.
5. Level mower by adjusting lower 3-point arms and upper center link. Refer to “Leveling the Mower” on page 15.

Driveline Installation

**DANGER**
Do not engage tractor PTO while hooking-up and unhooking driveline or stand near a rotating driveline. A person’s body and/or clothing can become entangled in the driveline resulting in serious injury or death.

**CAUTION**
Tractor PTO shield and all mower guards must be in place at all times during operation!

**CAUTION**
Always disengage PTO, engage parking brake, shut off tractor and remove key before dismounting from tractor.

An additional driveline may be required if the Flail Mower will be attached to more than one tractor.

**IMPORTANT:** The driveline must be lubricated before putting it into service. Refer to “Lubrication” on page 19.

**IMPORTANT:** Some tractors are equipped with multispeed PTO ranges. Be certain your tractor’s PTO is set for 540 rpm.

**IMPORTANT:** The tractor's PTO shaft and mower gearbox shaft must be level with each other during installation of driveline.
Refer to Figure 1-3:

1. Park tractor on a level surface. Slowly engage tractor 3-point lift lever to raise mower until gearbox shaft is in line (level) with tractor PTO shaft.
2. Support mower deck at this height with support jacks or blocks to keep mower from drifting down.
3. Place gear selector in park, set park brake, shut tractor off and remove switch key.
4. Slide inner yoke (implement end) of driveline onto the gearbox. Secure driveline with yoke locking device.
5. Slide outer yoke of driveline over the tractor PTO shaft. Secure driveline with yoke locking device.
6. If driveline does not fit between tractor and gearbox, skip to "Shorten Driveline Length" instructions on the right side of this page.
7. The driveline should now be moved back and forth to insure both ends are secured to the tractor and mower gearbox shaft. Reattach any end that is loose.

IMPORTANT: Two small chains are supplied with the driveline. These chains must be attached to the outer and inner driveline shields and to the mower and tractor frames to keep driveline shields from rotating.

8. Hook driveline safety chain on the outer shield to the tractor. Re-latch safety chain to the driveline shield.
9. Hook driveline safety chain on the inner shield to the mower frame. Re-latch safety chain to the driveline shield.

Check Driveline Collapsible Length

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

1. Make sure driveline is properly installed and level before checking driveline collapsible length. (Refer to "Driveline Installation" instructions if needed.)

Refer to Figure 1-3:

2. With driveline level, measure 1" ("B" dimension) back from universal joint shield to end of outer driveline shield. If measurement is less than 1", then shorten driveline using instructions provided on the right side of this page. If measurement is 1" or more, skip to "Check Driveline Extended Length" instructions on page 11.
Check Driveline Extended Length
Refer to Figure 1-4:
Make sure driveline collapsible length is acceptable. If needed, refer to “Check Driveline Collapsible Length” instructions on page 10.

The driveline maximum allowable length must, when fully extended, have a minimum overlap of the profile tubes by not less than 1/3 the free length with both inner and outer profile tubes being of equal length.

1. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.
2. Assemble driveline profiles together with 1/3 overlapping of inner and outer profile tubes. Once assembled, measure and record the maximum allowable length shown below for future reference.

3. Attach inner driveline yoke to the mower gearbox shaft. Attach outer driveline yoke to the tractor's PTO shaft.
4. Move yoke ends of driveline back and forth to insure they are secured to the tractor and mower shafts. Reattach any end that is loose.

5. Hook driveline safety chain on the outer shield to the tractor. Re-latch safety chain to the driveline shield.
6. Hook driveline safety chain on the inner shield to the mower frame. Re-latch safety chain to the driveline shield.
7. Start tractor and raise Flail Mower just enough to remove blocks.
8. Slowly engage tractor hydraulic 3-point control lever to lower Flail Mower. Check for sufficient drawbar clearance. Move drawbar ahead, aside or remove if required.
9. Raise and lower implement to find maximum extended driveline length. Check to make certain that the driveline overall length does not exceed the maximum recorded length in step 2.
10. If needed, set tractor 3-point lift height to keep driveline from exceeding maximum allowable length.

Check Driveline Interference
Refer to Figure 1-5:

IMPORTANT: Small chains are supplied with the driveline. They must be attached to the inner and outer driveline shields and to the Flail Mower and tractor to restrict shield rotation.

1. Slowly engage tractor hydraulic 3-point control lever to lower mower while checking for sufficient drawbar clearance. Move drawbar ahead, aside or remove if required.
2. Raise and lower implement to find maximum extended driveline length. Check to make certain the driveline does not exceed the maximum allowable length and 25° up or down.
3. If needed, set tractor 3-point lift height so that the driveline does not exceed 25° up.

IMPORTANT: Avoid premature driveline breakdown. A driveline that is operating must not exceed an angle of 25 degrees up or down while operating 3-point lift. If needed, set tractor 3-point lift height so that the driveline does not exceed 25° up.
Pre-Start Checklist
Hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training involved in the operation, transport, maintenance and storage of the Flail Mower. Therefore, it is absolutely essential that no one operates the mower without first having read, fully understood and become totally familiar with the Operator's Manual. Make sure the operator has read and paid particular attention to:

• Important Safety Information, page 1  
• Section 1: Assembly and Set-up, page 8  
• Section 2: Operating Instructions, page 12  
• Section 3: Adjustments, page 15  
• Section 4: Maintenance and Lubrication, page 17

Make sure the operator has completed the Operating Checklist below.

Operating Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔ Read and follow all Safety Information carefully. Refer to “Important Safety Information”.</td>
<td>Page 1</td>
</tr>
<tr>
<td>✔ Make sure all guards and shields are in place. Refer to “Important Safety Information”.</td>
<td>Page 1</td>
</tr>
<tr>
<td>✔ Read and follow Hook-up &amp; preparation instructions. Refer to “Assembly &amp; Set-up”.</td>
<td>Page 8</td>
</tr>
<tr>
<td>✔ Read and made all required adjustments. Refer to “Section 3: Adjustments”.</td>
<td>Page 15</td>
</tr>
<tr>
<td>✔ Read and follow all operating procedures. Refer to “Section 2: Operating Instructions”.</td>
<td>Page 12</td>
</tr>
<tr>
<td>✔ Read and follow all Maintenance Instructions. Refer to “Section 4: Maintenance and Lubrication”.</td>
<td>Page 17</td>
</tr>
<tr>
<td>✔ Read and follow all Lubrication Instructions. Refer to “Lubrication”.</td>
<td>Page 19</td>
</tr>
<tr>
<td>✔ Make sure all gearboxes are properly lubricated. Refer to Gearbox lubrication.</td>
<td>Page 20</td>
</tr>
<tr>
<td>✔ Check mower initially and periodically for loose bolts and pins. Be sure all nuts and bolts are tight. Especially make sure mower blade bolts are tight. Refer to “Torque Values Chart”.</td>
<td>Page 25</td>
</tr>
</tbody>
</table>

Transporting

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

NOTE: Always disengage PTO before raising mower to transport position.

1. When raising mower to transport position, be sure driveline does not contact tractor or mower. Adjust and set tractor's 3-point lift height so that the driveline does not contact mower in the fully raised position.

2. Be sure to reduce tractor ground speed when turning, leaving enough clearance so that the mower does not contact obstacles such as buildings, trees or fences.

3. 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 safely.

4. When traveling over rough or hilly terrain, shift tractor to a lower gear.

Safety Information

⚠️ DANGER
Do not engage tractor PTO while hooking-up and unhooking the driveline or while someone is standing near the driveline. A person’s body and/or clothing can become entangled in the driveline resulting in serious injury or death.

⚠️ DANGER
Flail Mowers have the ability to discharge objects at high speeds if guards and safety shields are not in place and closed.

⚠️ DANGER
Gearbox and driveline shields must be secured in place when operating the mower to avoid injury or death from entanglement in rotating drivelines.

⚠️ DANGER
Do not operate a broken or bent driveline. Such a driveline can brake apart while rotating at high speeds causing serious injury or death. Always remove Flail Mower from service until damaged driveline is repaired or replaced.

⚠️ DANGER
Never carry a person on the mower. A rider can fall or become entangled in the machine causing serious injury or death.

Tractor Shut Down Procedure
It is essential that the tractor be shut down as noted below before making any inspections, maintenance and/or repairs to the tractor and/or mower.

1. Park tractor on a level surface. Don’t work under or around an implement parked on a steep incline.
2. Place tractor in park and set park brake.
3. Disengage PTO if operating.
4. Shut engine off and remove switch key.
5. Wait for PTO to come to a complete stop before dismounting tractor.
6. Wear safety glasses.
Mowing Instructions

1. Clear area to be mowed of objects and debris that might be picked up and thrown by the mower knives.

2. Make the following machine checks before operating the mower.
   - Make sure all hook-up pins are secured.
   - Make sure all shields, guards and rear cover are in place and secured.
   - Make sure all bolts and nuts are present and tight.
   - Make sure the mounting slots in the duckfoot knives and their mounting bolts are not worn or broken and the nylock nuts are drawn up snug against the mounting lugs. Replace duckfoot knives and mounting hardware if they are showing high wear.
   - Check duckfoot knives for cracks, breakage, and deformation. Replace any knife that is cracked, broken or deformed before putting cutter into service.
   - Check duckfoot knives for sharpness. Sharpen dull knives or replace them.
   - Check oil level in gearbox. Refer to "Gearbox" lubrication instructions on page 20. Make sure all plugs have been replaced and properly tightened.
   - Make sure driveline and all other greaseable components have been properly lubricated. See "Lubrication" instructions on page 19.

3. Operate mower with a 540 rpm PTO tractor. Lower mower to the ground. Set tractor throttle at approximately 1/4 open. Engage PTO to start blades rotating and then increase throttle speed to 540 PTO speed. The rotor knives will cut better at full blade speed than at reduced throttle speed. Do not exceed 540 PTO speed.

4. At first begin mowing at a slow forward speed and shift up until the desired ground speed is achieved at 540 PTO throttle speed.

5. After mowing the first 50 feet, stop and check to see that the mower is adjusted properly.

6. Do not make sharp turns or attempt to back up while mower is on the ground.

7. Never work close to or on steep slopes.

8. Do not engage PTO with mower in the fully raised position. Do not engage PTO at full throttle. Do not lift mower with PTO engage.

9. Do not allow anyone including yourself near the mower when it is operating.

10. Periodically check for and remove foreign objects wrapped around the rotor shaft and knives. Be sure to disengage PTO, turn off tractor, remove ignition key and wait for knives to come to a complete stop before opening rear cover. Refer to “Trash Removal & Rotor Knife Access” on page 17 for instructions to open rear cover.

DANGER
Do not operate and/or travel across steep inclines where a tractor can roll-over resulting in serious injury or death. Consult your tractor’s manual for acceptable inclines the tractor is capable of traveling across.

DANGER
Do not use mower to lift or carry objects. Lifting and/or carrying objects can result in damage to the mower, serious bodily injury or death.

DANGER
Do not use the mower as a working platform. The mower is not properly designed or guarded for this. Using the mower as a working platform can cause serious injury or death.

WARNING
Always disengage PTO, engage parking brake, shut tractor engine off, remove switch key and wait for blades to come to a complete stop before dismounting from tractor. Be aware that the mower gearbox is equipped with an over-running clutch and that the blades will continue to freely rotate after the PTO has stopped rotating.

WARNING
The FM20 Series Flail Mowers are designed to cut grass and brush up to 1” diameter. Using this mower for another type of work can damage the cutting components, drive components, mower frame and tractor.

WARNING
Tractor PTO shield and mower guards, shields and rear cover must be in place and secured at all times during operation!

CAUTION
Do not over speed PTO or machine damage may result. This mower is designed to be used only with a tractor having a 540 RPM rear PTO.

CAUTION
When mowing in sandy soil areas, wear may occur to the mower knives from sand erosion. Frequent inspection should be made and knives replaced if damaged.

CAUTION
Operator must use caution as objects may be thrown forward. Always make sure the area in front of the mower and tractor is clear of people and animals to prevent injury from thrown objects.
General Operating Instructions

Now that you have familiarized yourself with the Operator’s Manual, completed the Operators Checklist, properly attached your flail mower to your tractor, made the right offset or center adjustments, and preset your cutting height, you’re almost ready to begin using your Land Pride FM2060 or FM2072 Flail Mower.

It’s now time to do a running operational safety check. If at any time during this safety check you detect a malfunction in either the mower or tractor shut the tractor off immediately, remove the key, and make necessary repairs or adjustments before continuing on.

Make sure the tractor’s park brake is engaged, the tractor’s PTO is disengaged, and the mower is resting on the ground. Start the tractor and then back the tractor throttle off till the engine is at low idle. With the tractor’s rear hydraulic lift control lever, raise the mower to transport position making sure that the PTO shaft is not in a bind and does not come in contact with the mower frame. Lower the unit to mowing position and, with the tractor still at low idle, engage the PTO. If everything is running smoothly at this point increase the engine rpm until the tractor’s engine reaches full PTO operating speed which will be 540 rpm. Slowly raise the mower to transport height to make sure the driveline does not bind or chatter. Then return the engine to low idle, disengage PTO, and position the adjustable stops on the tractor’s hydraulic lift lever control console so the mower can be consistently returned to the same mowing and transport height.

You should now be ready to move to the mowing site to begin mowing. You should have inspected and should only be mowing in an area you are familiar with which is relatively free of debris and unseen objects. Never assume an area is clear and extremely tall grass or brush should be checked twice to detect potential hazards. In the event you do strike an object, stop the tractor and mower immediately to inspect the rotor and make any necessary repairs before resuming operation. It pays to inspect a new area and to develop a plan before you cut.

Normal mowing speed will be between 2-5 mph and you will need to maintain tractor PTO speed to produce a clean cut so make a tractor gear and range selection that will maintain this combination. Generally the quality of cut or degree of debris pulverization will be better at lower ground speeds and mowing denser ground cover or heavier brush may create the need to slow down. Always cut downward on slopes and avoid crossing the face of steep slopes. Avoid sharp drops and cross diagonally through dips to prevent hanging up the tractor and mower. Slow down in turns and avoid sharp turns if at all possible. Remember to look back often. Always be aware and extremely cautious when there are people, pets, livestock, and valuable property in your immediate operating vicinity.

Now you’re prepared and well briefed so let’s begin mowing. Reduce the tractor’s engine rpm, make sure the mower is on the ground and in mowing position, engage the PTO, raise the engine rpm to the appropriate PTO speed, and begin mowing. Operators must plan ahead and choose a mowing route that allows safe turns. Try increasing or decreasing ground speed to determine the effect on quality of cut. With a little practice you will be pleased with what you and your Land Pride Flail Mower can do.

Dense growth will require more horsepower and will cause you to slow down especially if you are encountering material up to 1” in diameter. The duckfoot knives are much better suited for a finer quality of cut in grass cutting applications and in no case should duckfoot knives be used for cutting material greater than 1’ in diameter.

When you are done mowing, need to take a break, or just need to make a few adjustments to the mower, remember to always do the following. Reduce the tractor’s engine rpm, disengage the PTO, stop on level ground, set the park brake, turn off the engine, and remove the key. Land Pride Flail Mowers are very user friendly and easy to operate. With a little practice you should be operating your Land Pride Flail Mower like an expert in no time at all.
CAUTION
Engage parking brake, shut off tractor, remove key and disengage PTO before making any adjustments!

CAUTION
Secure mower with special supports if it is necessary to support mower off the ground while making adjustments! If not supported, the mower could fall causing serious injury to those present.

Leveling the Mower
Level adjustments are made at the tractor's 3-point lower arms and top center link.
1. Park tractor and Flail Mower on a flat level surface.
2. Slowly raise mower with the tractor's hydraulic 3-point lift until the unit is about 1 to 2" above the ground.
3. Ensure that the lower arms are stabilized to prevent excessive side movement.
4. Place a spirit level on the top cover running from left to right and adjust one of the lower 3-point arms up or down until mower is level from left to right.
5. Shorten or lengthen tractor's top center link until the upper hitch pin is vertically above or slightly behind the lower hitch pins.
6. Slowly operate the tractor's 3-point hydraulic control up and down to check for clearance between the tires, frame, drawbar etc.

Hitch Adjustments
Make certain the top center link is adjusted as outlined in Step 5 under “Leveling the Mower”.
There is also two different positions for right offset. Refer to “Hitch Assembly” on page 8.

CAUTION
Refer to Figure 3-1:

WARNING
Do not operate Flail Mower with rear roller removed. Removing rear roller will expose cutting knives and can cause serious injury or death.

Cutting height depends upon the position of the rear roller.
1. Remove bolts that fix the roller height on both sides.
2. Lift or lower both sides of roller an equal amount.
3. Replace bolts and re-tighten. Refer to “Torque Values Chart” on page 25.
4. Inspect knives to make sure they do not touch the ground. Knives that come in contact with the ground will wear quickly. If necessary, readjust rear roller height to keep knives from touching the ground.
Belt Tension

CAUTION
Belt drive system under spring tension; use care to avoid bodily harm!

WARNING
Excessive tension on the belt may lead to premature failure of belt and drive components. Excessive tension on the belt may also lead to a safety hazard to the operator or bystanders.

Refer to Figure 3-2:
The belt tension should be checked after the first 20 hours of use and then after every 40 hours of use.

1. Remove nuts (#2) and belt guard fender (#1).
2. Remove nuts (#4), washers (#5) and belt guard (#3).
3. Unhook spring (#7) from tension idler (#6) or hold tension idler (#6) away from the belts to check belt tension in step #4 below.
4. To check belt tension, apply approximately 22 pounds of pressure half way between the pulleys. There should be approximately 3/8” of deflection. Replace V-Belts if there is excessive deflection. Refer to “V-Belt Installation” on page 18.
5. Reinstall belt guard (#2), flat washers (#5) and nuts (#4). Tighten nuts to the correct torque.
6. Reinstall belt guard fender (#1) and nuts (#2). Tighten nuts to the correct torque.
Maintenance

Proper servicing and adjustment is the key to the long life of any implement. With careful inspection and routine maintenance, you can avoid costly down time and repair.

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

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

**DANGER**

For safety reasons, each maintenance operation must be performed with tractor PTO disengaged, mower lowered completely to ground and tractor engine shut off with ignition key removed.

- After using the mower for several hours, check all bolts to be sure they are tight and check drive belt tension. Refer to “Belt Tension” on page 16.
- Lubricate components as listed under “Lubrication” on page 19.
- Replace any worn, damaged or illegible safety labels by obtaining new labels from your Land Pride Dealer. Information about labels is located under “Safety Labels” on page 4.

Trash Removal & Rotor Knife Access

Refer to Figure 4-1:

Rotor knives and trash around the knives and rotor is accessed by opening the rear cover (#3).

1. Remove nylock nuts (#1) and bolts (#2) located on both ends of the mower.
2. Raise rear cover fully up to hole “A”. Secure cover in the raised position with removed hardware.
3. Service rotor and knives through rear cover opening.
4. Remove nuts (#1) and bolts (#2) from both ends of the mower and lower rear cover down to hole “B”.
5. Replace bolts (#2) and nylock nuts (#1) in hole “B”. Tighten nuts to the correct torque.

Rotor Knife Replacement

Refer to Figure 4-2:

Frequently check rotor knives to make sure they are in good working condition and properly secured to the rotor. Replace worn or damaged knives with new knives.

**IMPORTANT:** Make sure that the knives are the same length as others on the mower. This will keep the rotor rotation balanced.

**IMPORTANT:** Replace cutting knives with Land Pride fine cutting knives only. Inspect bushing and bolt for wear and replace as needed. Always replace the self locking nut to ensure it will not come loose.

1. Access cutting knives through the rear cover. Refer to “Trash Removal & Rotor Knife Access” on left side of this page for instructions to open and close cover.
2. Remove bolt (#1) and self locking nut (#2).
3. Remove old knives (#3) and spacer (#4).
4. Install new knives (#3) and spacer (#4) in the same arrangement they were removed with bolt (#1) and self locking nut (#2). Tighten nut to the proper torque.
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Section 4: Maintenance and Lubrication

**Belt Installation**

Refer to Figure 4-3:

![Belt Installation](image)

**CAUTION**

*Belt drive system under spring tension; use care to avoid bodily harm!*

1. Remove nuts (#2) and belt guard fender (#1).
2. Remove nuts (#4), flat washers (#5) and belt guard (#3).
3. Disengage belt tension by removing idler arm with roller (#6) and idler spring (#7).
4. Remove old belts (#8) from pulleys and install new belts.
5. Reinstall idler arm with roller (#3) & idler spring (#7).
6. Reinstall belt guard (#2), flat washers (#5) and nuts (#4). Tighten nuts to the correct torque.
7. Reinstall belt guard fender (#1) and nuts (#2). Tighten nuts to the correct torque.

**Storage**

It is good practice to clean off any dirt and grease that may have accumulated on the mower and to inspect and make necessary repairs before parking the unit at the end of the working season and for long periods. This will help ensure that the mower will be ready for field use the next time you hook-up to it.

**DANGER**

Always disconnect main driveline from tractor PTO and secure mower in the up position with solid supports before servicing underside of the mower.

1. Clean off any dirt and grease that may have accumulated on the mower and moving parts. Scrape off compacted dirt from under the hood and then wash the surface thoroughly with a garden hose.
2. Check rotor knives and knife bolts for wear and replace if necessary. See “Rotor Knife Replacement” on page 17.
3. Inspect mower for loose, damaged or worn parts and adjust or replace as needed.
4. Lubricate as noted in the “Lubrication” portion of this manual starting on page 19.
5. Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Land Pride aerosol touch-up paint #821-011C. It are 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.
6. Replace all damaged or missing decals.
7. A light coat of oil or grease may also be applied to areas where paint has worn off to minimize oxidation.
8. Store mower on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer mower life. Position the unit on a flat surface with jack stands lowered to a suitable 3-Point height. Ensure that the main frame is stable.
9. Store driveline end off the ground.
Lubrication

**Driveline Shaft U-Joints**

Type of Lubrication: Multi-purpose Grease
Quantity - 4 to 8 Pumps

**Driveline Profiles**

Type of Lubrication: Multi-purpose Grease
Quantity - Clean & coat inner profile tube of driveline with a light film of grease and then reassemble.

**Inner Tube Bearings**

Type of Lubrication: Multi-purpose Grease
Quantity - As Required
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Section 4: Maintenance and Lubrication

Gearbox
Type of Lubrication: SAE EP 90W Gear Lube
Check oil level in gearbox by removing fill plug located on top. Gearbox should be about halfway full. Insert a clean dowel rod (or clean stick) through the top plug hole to check. Add recommended oil until gearbox is about half full. Replace fill plug and tighten.

**Do not overfill!**
Should your gearbox require service, take it to your LAND PRIDE dealer.

Extension Shaft Bearing
Type of Lubrication: Multi-purpose Grease

IMPORTANT: The mower should be level when checking oil in gearbox!
Section 4: Maintenance and Lubrication

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Roller Bearing (Both Ends)

Type of Lubrication: Multi-purpose Grease

Cutter Rotor Bearing (Both Ends)

Type of Lubrication: Multi-purpose Grease
## FM2060 & FM2072 Series Flail Mowers

<table>
<thead>
<tr>
<th>Feature</th>
<th>FM2060</th>
<th>FM2072</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting Width</td>
<td>60&quot;</td>
<td>72&quot;</td>
</tr>
<tr>
<td>Overall Width</td>
<td>68&quot;</td>
<td>80&quot;</td>
</tr>
<tr>
<td>Height</td>
<td>37&quot;</td>
<td></td>
</tr>
<tr>
<td>Depth</td>
<td>28&quot;</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>616 lbs.</td>
<td>660 lbs.</td>
</tr>
<tr>
<td>Cutting Capacity</td>
<td>1&quot;</td>
<td></td>
</tr>
<tr>
<td>Cutting Height</td>
<td>3/4&quot; - 4&quot;</td>
<td></td>
</tr>
<tr>
<td>Deck Material Thickness</td>
<td>11 gauge</td>
<td></td>
</tr>
<tr>
<td>Knives</td>
<td>Fine cut</td>
<td></td>
</tr>
<tr>
<td>Rotor Shaft Speed</td>
<td>1980 RPM</td>
<td></td>
</tr>
<tr>
<td>Rotor Diameter</td>
<td>4 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Rotor Rotation</td>
<td>Reverse</td>
<td></td>
</tr>
<tr>
<td>Knife Tip Speed</td>
<td>8705 fpm</td>
<td></td>
</tr>
<tr>
<td>Number of Knives</td>
<td>60</td>
<td>72</td>
</tr>
<tr>
<td>Hitch Type</td>
<td>Category I</td>
<td></td>
</tr>
<tr>
<td>Offset Hitch</td>
<td>6 1/4&quot; Right (Bolt-on)</td>
<td></td>
</tr>
<tr>
<td>PTO Speed</td>
<td>540 RPM</td>
<td></td>
</tr>
<tr>
<td>Driveline</td>
<td>Cat 4</td>
<td></td>
</tr>
<tr>
<td>Belt Type</td>
<td>(3) - “B” Section belts</td>
<td></td>
</tr>
<tr>
<td>Gearbox Type</td>
<td>540 RPM with internal over-running Clutch</td>
<td></td>
</tr>
<tr>
<td>Gearbox Rating</td>
<td>55 HP</td>
<td></td>
</tr>
<tr>
<td>Gearbox Lubrication</td>
<td>SAE EP 90W</td>
<td></td>
</tr>
<tr>
<td>Rear Roller Diameter</td>
<td>5 1/2&quot;</td>
<td></td>
</tr>
</tbody>
</table>
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Section 6: Features and Benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>60” &amp; 72” Cutting widths</td>
<td>Good cutting widths for applications in this HP range.</td>
</tr>
<tr>
<td>25-55 HP gearbox rating</td>
<td>Fits a large array of consumer, municipality and landscape of tractors.</td>
</tr>
<tr>
<td>3-Point hitch can be centered or offset 6 1/4” to the right</td>
<td>The two position hitch allows the mower to be centered behind the tractor or offset 6 1/4” to the left for a closer cut alongside buildings, fences and roadsides.</td>
</tr>
<tr>
<td>One year gearbox warranty</td>
<td>The gearbox is designed tough to withstand the rigors of flail mowing.</td>
</tr>
<tr>
<td>3/4” – 4” Cutting height</td>
<td>Variable cutting heights for many uses.</td>
</tr>
<tr>
<td>1” Cutting capacity</td>
<td>Can cut small saplings.</td>
</tr>
<tr>
<td>3 Fine cut knives per hanger</td>
<td>Heavy enough to cut 1” material and cuts fine enough to groom a yard.</td>
</tr>
<tr>
<td>4 1/4” Rotor diameter</td>
<td>Large rotor diameter protects against obstructions.</td>
</tr>
<tr>
<td>Reverse rotor rotation</td>
<td>Brings the cut material up and over which allows it to be dispersed more evenly.</td>
</tr>
<tr>
<td>High knife tip speed</td>
<td>Knife tip speed of 8,705 fpm provides for a clean cut.</td>
</tr>
<tr>
<td>Cat. 4 driveline with over-running clutch</td>
<td>Upon disengaging the PTO, the over-running clutch allows the driveline to quit turning, while the clutch yoke, gearbox and rotor shaft slow down under their own inertia.</td>
</tr>
<tr>
<td>3 - “B” Section belts</td>
<td>“B” Section belts fit snug in the sheaves, and the multiple belts ensure positive transfer of power.</td>
</tr>
<tr>
<td>Baffles on the top inside of the deck</td>
<td>Keeps the cut material from clumping together, ensuring an even distribution of clippings.</td>
</tr>
<tr>
<td>Height adjusting roller</td>
<td>Rear height adjusting roller with greaseable bearings and tapered ends to prevent gouging during turns.</td>
</tr>
<tr>
<td>Standard scrapers on rear height adjusting roller</td>
<td>Keeps the roller clean for consistent cutting height.</td>
</tr>
<tr>
<td>Adjustable rear panel</td>
<td>Adjusts to allow strong discharge of material and aids in cleaning underside of deck.</td>
</tr>
</tbody>
</table>
# Section 7: Troubleshooting

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### Problem

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUTION</strong></td>
<td>Do not try to clean rear discharge area when mower is running. Bodily harm may occur!</td>
</tr>
<tr>
<td>Belt slipping</td>
<td>Unplug and clean mower deck.</td>
</tr>
<tr>
<td></td>
<td>Remove belt guard shields and clean sheaves.</td>
</tr>
<tr>
<td></td>
<td>Replace belt</td>
</tr>
<tr>
<td>Patches of uncut grass</td>
<td>Mow at full throttle (540 PTO rpm), check PTO speed and tractor engine.</td>
</tr>
<tr>
<td></td>
<td>Shift transmission to a lower gear.</td>
</tr>
<tr>
<td></td>
<td>Tighten belts.</td>
</tr>
<tr>
<td></td>
<td>Replace missing knives.</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>Replace knives</td>
</tr>
<tr>
<td></td>
<td>Replace drive belt.</td>
</tr>
<tr>
<td></td>
<td>Replace pulleys or align.</td>
</tr>
<tr>
<td></td>
<td>Remove belt guard shields &amp; clean debris from belt area &amp; sheaves.</td>
</tr>
<tr>
<td>Gearbox noisy</td>
<td>Check lubricant level</td>
</tr>
<tr>
<td>Knives scalping ground</td>
<td>Raise cutting height by adjusting roller.</td>
</tr>
<tr>
<td></td>
<td>Change mowing pattern</td>
</tr>
<tr>
<td></td>
<td>Reduce tractor speed while making turns.</td>
</tr>
<tr>
<td>Uneven cut</td>
<td>Shift to a lower gear</td>
</tr>
<tr>
<td></td>
<td>Level mower</td>
</tr>
<tr>
<td></td>
<td>Replace missing knives</td>
</tr>
<tr>
<td>Tractor loaded down by mower</td>
<td>Mow at full throttle (540 PTO rpm).</td>
</tr>
<tr>
<td></td>
<td>Shift to a lower gear</td>
</tr>
<tr>
<td></td>
<td>Clean mower</td>
</tr>
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</table>
## Torque Values Chart

<table>
<thead>
<tr>
<th>Bolt Head Identification</th>
<th>5.8 Class 5.8</th>
<th>8.8 Class 8.8</th>
<th>10.9 Class 10.9</th>
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<tbody>
<tr>
<td>mm x pitch 4</td>
<td>N·m ft-lb</td>
<td>N·m ft-lb</td>
<td>N·m ft-lb</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5</td>
<td>6.0</td>
<td>13</td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15</td>
<td>11</td>
<td>24</td>
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<td>5/16&quot; - 24</td>
<td>17</td>
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<td>27</td>
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<td>42</td>
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<td>31</td>
<td>22</td>
<td>47</td>
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<tr>
<td>7/16&quot; - 14</td>
<td>43</td>
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<td>67</td>
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<tr>
<td>7/16&quot; - 20</td>
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<td>36</td>
<td>75</td>
</tr>
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<td>66</td>
<td>49</td>
<td>105</td>
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<td>75</td>
<td>55</td>
<td>115</td>
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<tr>
<td>9/16&quot; - 12</td>
<td>95</td>
<td>70</td>
<td>150</td>
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<td>9/16&quot; - 18</td>
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<td>79</td>
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<td>97</td>
<td>205</td>
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<td>110</td>
<td>230</td>
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<td>3/4&quot; - 10</td>
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<td>170</td>
<td>360</td>
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<td>3/4&quot; - 16</td>
<td>260</td>
<td>190</td>
<td>405</td>
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<td>7/8&quot; - 9</td>
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<td>165</td>
<td>585</td>
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<td>7/8&quot; - 14</td>
<td>250</td>
<td>185</td>
<td>640</td>
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<td>1&quot; - 8</td>
<td>340</td>
<td>250</td>
<td>875</td>
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<tr>
<td>1&quot; - 12</td>
<td>370</td>
<td>275</td>
<td>955</td>
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<td>1-1/8&quot; - 7</td>
<td>480</td>
<td>355</td>
<td>1080</td>
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<td>1 1/8&quot; - 12</td>
<td>540</td>
<td>395</td>
<td>1210</td>
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<tr>
<td>1 1/4&quot; - 7</td>
<td>680</td>
<td>500</td>
<td>1520</td>
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<tr>
<td>1 1/4&quot; - 12</td>
<td>750</td>
<td>555</td>
<td>1680</td>
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<td>655</td>
<td>1990</td>
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<tr>
<td>1 3/8&quot; - 12</td>
<td>1010</td>
<td>745</td>
<td>2270</td>
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<tr>
<td>1 1/2&quot; - 6</td>
<td>1180</td>
<td>870</td>
<td>2640</td>
</tr>
<tr>
<td>1 1/2&quot; - 12</td>
<td>1330</td>
<td>980</td>
<td>2970</td>
</tr>
</tbody>
</table>

1 in-tpi = nominal thread diameter in inches-threads per inch
2 N·m = newtons-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.
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**: One year on all components.

**Belts and Blades**: Considered wear items.

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, and does not cover common wear items. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

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

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

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

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

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