Read the Operator’s Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover photo may show optional equipment not supplied with standard unit.
For an Operator’s Manual and Decal Kit in French Language, please see your Land Pride dealer.
Machine Identification
Record your machine details in the log below. If you replace this manual, be sure to transfer this information to the new manual.

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

<table>
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<tr>
<th>Model Number</th>
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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.*
See previous page for Table of Contents.

**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 smartphone, open the App, point your phone on the QR code and take a picture.

**Dealer QR Locator**

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

**Safety at All Times**

Careful operation is you best insurance against an accident.

All operators, no matter how much experience they may have, should carefully read this manual and other related manuals before operating the power machine and this implement.

It is the owner’s obligation to instruct all operators in safe operation.

- 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 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.

**Look For The Safety Alert Symbol**

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

**Be Aware of Signal Words**

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

- **WARNING** Indicates a 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 skid-resistant surfaces when getting on and off the tractor.
- Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.
These are common practices that may or may not be applicable to the products described in this manual.

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

**Transport Safely**
- Comply with state and local laws.
- Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if towed trailer is not equipped with brakes.
- Avoid contact with any over head 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 a 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.

**Practice Safe Maintenance**
- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- Do not grease or oil implement while it is in operation.
- Inspect all parts. Make certain parts are in good condition & installed properly.
- Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement in a way which will adversely affect its performance.
- Remove buildup of grease, oil, or debris.
- Remove all tools and unused parts from equipment before operation.
- 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.

**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.

**Important Safety Information**

5/23/19
Important Safety Information

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

Keep Riders Off Machinery
▲ Never carry riders or use tractor to lift or transport individuals.
▲ There is not a safe place for a person to ride.
▲ 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.
Important Safety Information

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

Avoid crystalline Silica (quartz) Dust
Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis).
There are guidelines which should be followed if crystalline silica (quartz) is present in the dust.

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

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

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

Your All Flex Grooming 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. 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.

---

**818-558C**
Warning: Serious Injury

**838-293C**
Warning: Read Operator's Manual
Important Safety Information

**WARNING**
NEGATIVE TONGUE WEIGHT HAZARD
Negative tongue weight can cause immediate elevation of tongue when unlatching implement
To prevent serious injury or death:
• Always be certain implement is hitched securely to tractor drawbar before raising.
• Lower implement BEFORE unlatching.

**818-019C**
Warning: Negative Tongue Weight

**DANGER**
RAISED WING HAZARD KEEP AWAY
To prevent serious injury or death:
• Do not transport without transport locks securely engaged
• Do not walk or work underneath raised wing unless it is securely locked.

**818-561C**
Danger: Raised Wing

**WARNING**
HIGH PRESSURE FLUID HAZARD
To prevent Serious Injury or Death:
• Relieve pressure on system before repairing, adjusting, or disconnecting
• Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
• Keep all components in good repair.

**818-339C**
Warning: High Pressure
Important Safety Information

818-565C
Important: U-Joint Timing Instructions

818-560C
Notice: Read Operator’s Manual

818-337C
Warning: Max Trans Speed
**Important Safety Information**

**818-130C**
Warning: 540 rpm Power Take-off Speed

**818-351C**
Caution: Engage Transport Locks

**818-353C**
Caution: Disengage Transport Locks/Pins
Important Safety Information

**818-237C**
Caution: V-Belt Under Tension
Installation: Left-hand deck

**818-847C**
Caution: V-Belt Under Tension
Installation: Right-hand & center deck

**818-552C**
Danger: Driveline Entanglement Hazard
818-556C
Danger: Thrown Object Hazard
Location: (3-Places) On Back of All Three Decks

818-045C
Warning: Pinch point or Crushing Hazard
Location: (3-Places) On Back of All Three Decks

818-555C
Danger: Rotating Blade Hazard
Location: (3-Places) On Back of All Three Decks
818-543C
Danger: Guard Missing
Location: (6-Places) Beneath both guards on all decks

818-552C
Danger: Entanglement

818-540C
Danger: Guard Missing
Important Safety Information

Danger: Shield Missing

838-614C
2" x 9" Red Reflector
Location:
(2 Places on back of wing deck guards)
(2 Places on center deck, back side of light brackets)

858-096C
2" x 4 1/2" Amber Reflector
(4 places on front of left-hand & right-hand decks)

818-187C
Danger: Shield Missing
Land Pride welcomes you to the growing family of new product owners. This Grooming 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 this machine.

Application
The AFM4522 All-Flex Mower is designed and built by Land Pride to provide excellent cutting quality and performance on lush turf grasses located on expansive and well manicured areas such as sports fields, theme parks, fairways, turf farms, and large estates.

The AFM4522 requires attachment to a 65-100 hp turf tractor drawbar with 540 rpm power take-off speed. It can be ordered with slip-clutch or conventional wing driveline configurations.

The mower offers independent deck flotation and zero turning radius due to the sleek frame design. When you need to transport one of these mowers from one mowing site to another on a public street or right-of-way the hydraulic wing cylinders will easily lift up the wing decks for a 9’-6” transport width. The contour following capability, highly productive 22’ cutting width, and rear discharge design of the floating cutting decks will greatly reduce wide-area cutting times and still deliver finely groomed surfaces at mowing speeds from 2-6 mph.

See “Specifications & Capacities” on page 48 and “Features & Benefits” on page 47 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.

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.

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.

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

   **Land Pride Service Department**
   1525 East North Street
   P.O. Box 5060
   Salina, Ks. 67402-5060
   E-mail address
   lpservicedept@landpride.com
Tractor Requirements
Tractor horsepower should be within the range noted below. Tractors outside the horsepower range must not be used.

- Horsepower rating: 65-100 hp
- Rear Power Take-Off shaft type: 1 3/8”-6 Spline
- Rear Power Take-Off speed: 540 rpm
- Hitch type: Draw bar
- Hydraulic duplex outlets required:
  - Without optional hydraulic transport locks: 1
  - With optional hydraulic transport locks: 2
- Electrical Hook-up (See Figure 1-1):

**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.

Electrical Hook-up
Refer to Figure 1-14:

The LED wire harness is equipped with a 7-way round pin connector for connecting to the tractor’s 7-pin electrical outlet shown in Figure 1-5.

Hardware Torque Information
When tightening hardware, refer to “Torque Values Chart for Common Bolt Sizes” on page 52 to determine standard torque values. Refer to “Additional Torque Values” at the bottom of the chart for exceptions to the standard torque values.

Dealer Preparations
This mower has been partially assembled at the factory. Some additional preparations will be necessary to finish assembling the mower and to attach it to the customer’s tractor. Ensure that the intended tractor conforms to the requirements stated under the heading “Tractor Requirements”.

Assembly Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Ref.</th>
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<tbody>
<tr>
<td>Make sure miscellaneous assembly tools are on hand: Hammer, tape measure, hacksaw, assortment of wrenches &amp; sockets, 3/8” drill, drill bits and spirit level.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>Have a forklift or hoist with properly sized chains and safety stands on hand capable of lifting 2500 lbs.</td>
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<tr>
<td>Have a minimum of two people available during assembly.</td>
<td></td>
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<tr>
<td>Check to see if auxiliary tractor weights are needed.</td>
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<tr>
<td>Make sure all major components and loose parts are shipped with the machine.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>Double check to make sure all fasteners &amp; pins are installed in the correct location. Refer to the Parts Manual if unsure.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>Make sure working parts move freely, bolts are tight &amp; cotter pins are spread.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>80-90 EP Gear Lube must be added to the gearbox &amp; motor as indicated in the “Maintenance &amp; Lubrication”.</td>
<td>Section 5 Page 43</td>
</tr>
<tr>
<td>Make sure all safety labels are correctly located and legible. Replace if damaged.</td>
<td>Safety Labels Page 6</td>
</tr>
<tr>
<td>Make sure all red and amber reflectors are correctly located and visible when machine is in transport position.</td>
<td>Important Safety Information Page 1</td>
</tr>
<tr>
<td>Make sure all tires are inflated to the specified psi air pressure.</td>
<td>Section 8 Page 52</td>
</tr>
<tr>
<td>Make sure all wheel bolts and axle nuts are tightened to the specified torque.</td>
<td>Section 8 Page 52</td>
</tr>
</tbody>
</table>

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.
Deck Gauge Wheel Assembly
Refer to Figure 1-1 and Figure 1-2:

1. Remove mower decks (3 each) from their shipping crates. Set each deck on a working stand capable of supporting the decks high enough to install gauge wheel assemblies (#1).

2. Assemble gauge wheel yoke assemblies (#1) to the decks with hardware indicated. 6 gauge wheel assemblies are caster yoke with round shafts and 4 assemblies are non-caster yoke with square shafts. See Figure 1-1 and Figure 1-2 for correct location of caster and non-caster assemblies.

IMPORTANT: Be sure to position equal size and amount of spacers under each spindle. See “Center Deck Height Adjustments” on page 32.

Refer to Figure 1-3:

3. Remove mower decks from their working stands and position them on a level surface in the arrangement shown. Left, and right wing gearbox input shafts should point towards each other.

Power Take-Off To Drawbar Set-Up
Refer to Figure 1-4:

WARNING
To avoid serious injury or death:

- 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.

- Power take-off damage may occur if distances are not properly maintained.

The 14” distances between center of drawbar hitch pin hole to end of tractor power take-off shaft and 8” distance from top of drawbar hitch to center of power take-off shaft must be maintained.
Tractor Hook-up

**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.

- Jack must be installed on the hitch and jack attachment pin must be fully inserted and secured before working on or around an implement not hooked to the tractor drawbar.

*Refer to Figure 1-5:*

1. Make certain park jack (#1) is attached to the transport frame and secured with retaining pin (#2).
2. Back tractor within close proximity of clevis (#3).
3. Raise or lower park jack (#1) to align clevis (#3) with tractor drawbar. Drawbar should fit between lower and upper clevis plates.
4. Back tractor up to transport frame hitch until holes in tractor drawbar and clevis (#3) align.
5. Attach transport frame with 1" hitch pin (#4) and secure hitch pin with hairpin (#5). Always use a hitch pin with a safety lock to prevent pin from coming out.
6. Retract park jack (#1) until weight of transport frame is fully removed from the jack. Remove jack and store on storage tube (#7).
7. Attach safety chain (#6) on the hitch to the tractor. Adjust chain length to remove all slack except what is necessary to permit turning of mower. Lock chain hook securely onto the chain.
8. Continue with “Hydraulic Hook-up”. Installation of main driveline (#8) on page 20 will be completed later.

Hydraulic Hook-up

*Refer to Figure 1-6:*

This mower is equipped and plumbed from the factory with double acting cylinders, hydraulic hoses, and couplings for folding the wings and center deck.

1. Cut plastic ties securing hydraulic hoses (#1) to hose support loop (#2).
2. Route hoses (#1) through hose support loop (#2) and connect to tractor remote outlets. Quick disconnect hydraulic fittings for your tractor are supplied attached to the hoses.
3. Locate carbon steel wire (#3) attached between wing cylinders (#4). This wire secures the wing tool bars in the folded position during shipment. Remove wire and dispose of it in a trash container.
Pull Rope Hook-up
Skip to “Wing Deck Hook-up” below if mower is equipped with “Hydraulic Wing Unlock Option”.

Refer to Figure 1-7:
The operator on the tractor seat will need to be able to access the pull rope from the tractor seat when lowering the folded decks to ground level.

1. Attach pull rope (#3) to an area within the operator’s reach. Make sure the pull rope can not become tangled with the operator and driveline.
2. See “Unfold Mower Decks” on page 28 for detailed unfolding instructions.

Wing Deck Hook-up

Refer to Figure 1-8:

1. Back transport frame between the two wing decks until the wing tool bars (#10) are centered over the wing deck pivot tubes (#11).
2. Unfold both wing tool bars (#10) to a position level with the ground.
3. Remove 1 1/4” diameter pins (#12) from outer mounting lugs on both wing tool bars.
4. Roll the left wing deck to align its pivot tube (#11) with the tool bar’s outer mounting lugs. Hydraulically raise or lower the tool bar to finishing aligning the holes. Insert pin (#12) through the mounting lugs and pivot tube as shown. Secure with bolt (#13) and nut (#14).
5. Repeat step 9 for the right wing deck.
Center Deck Hook-up

Refer to Figure 1-9:

1. Remove 2 center deck front mounting pins (#2) from transport frame pivot tubes (#8).
2. Loosen the 16 mounting bolts (#6) that secure the gauge wheel mounting frames to the center deck.
3. Roll center deck forward to align front mounting tubes (#7) with transport frame pivot tubes (#8).
4. Move storage screw jack from transport frame to jack stob (#1) centered on the gearbox channel. Make sure jack retaining pin has been fully inserted to prevent jack from slipping off of the jack stob. Extend jack to level the center deck.
5. Install 2 center front mounting pins (#2) to attach center deck to transport frame.
6. Install C-spacers (#3 & #4) to mounting pins (#2) as shown. Use grooves at the bottom of the rods to install the lower spacers. See also Figure 3-3 on page 33 for a detailed description.
7. Secure c-spacers at the top with linchpins (#5).
8. Tighten all hardware using torque requirements on page 52.
Driveline Installations

**DANGER**
To avoid serious injury or death:
- 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.

**WARNING**
To avoid serious injury or death:
- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- 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.
- Some tractors are equipped with two power take-off speeds. Be certain your tractor’s power take-off shaft is set-up to operate at 540 rpm. Do not exceed 540 rpm power take-off speed or equipment breakage may result.

**IMPORTANT:** The driveline must be lubricated before putting it into service. Refer to “Lubrication Points” on page 43.

Always engage power take-off at low engine rpm to minimize start-up torque on driveline. 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 40 for a detailed run-in description.

Deck Driveline Installations

Refer to Figure 1-10:
There are three deck drivelines with slip clutches. The slip clutch end attaches to the splitter gearbox. The center driveline is shorter than the other two drivelines.

2. Pull all three deck driveline profiles apart.
3. Apply multi-purpose grease to the inside of the outer profile and reassemble the two profiles.
4. Attach center driveline to the splitter gearbox output shaft as follows:
   a. Pull back on the slip clutch lock collar and slide yoke end of slip clutch over the splitter gearbox center output shaft.
   b. Release lock collar and continue to push yoke end onto the shaft until pull collar snaps in place.
5. Attach center driveline to the center deck gearbox input shaft as follows:
   a. Pull back on spindle gearbox lock collar and slide yoke end over the spindle gearbox input shaft.
   b. Release lock collar and continue to push yoke end onto the shaft until pull collar snaps in place.
   c. If driveline does not fits between splitter gearbox and deck gearbox, skip to “Check Driveline Collapsible Length” on page 21. Otherwise, continue with step 6.
6. Move driveline back and forth to ensure both ends are secured. Reattach any end that is loose.
7. Repeat steps 4-6 for the left-hand deck driveline.
8. Repeat steps 4-6 for the right-hand deck driveline.

Main Driveline Installation

Refer to Figure 1-11 on page 21:
1. If driveline collapsible length has not been checked, go to “Check Driveline Collapsible Length” on page 21. Otherwise, continue with step 2 below.
2. Place tractor gear selector in park, shut tractor engine off, set park brake, and remove switch key.
3. Pull main driveline profiles apart, apply multi-purpose grease to the inside of the outer profile and reassemble the two profiles.
4. Attach driveline to the gearbox input shaft:
   a. Pull back on inner driveline yoke lock collar and slide yoke over the splitter gearbox input shaft.
   b. Release lock collar and continue to push yoke onto the input shaft until pull collar snaps in place.
5. Attach driveline to the tractor’s power take-off shaft:
   a. Pull back on outer driveline yoke lock collar and slide yoke over the tractor’s power take-off shaft.
   b. Release lock collar and continue to push yoke onto the shaft until pull collar snaps in place.
   c. Move driveline back and forth to ensure both ends are secured. Reattach any end that is loose.
6. Continue with “LED Light Assembly” on page 22.
Section 1: Assembly & Setup

Check Driveline Minimum Length

Figure 1-11

Check Driveline Collapsible Length

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. Make sure all drivelines are secured before moving the mower.
2. If parked on an uneven surface, start tractor and move mower and tractor to a level, flat surface.
3. If checking main driveline, raise mower until splitter gearbox input shaft is level with tractor power take-off shaft. Securely block cutter at this height.
5. Remove outer driveline from inner driveline to separate the two profiles as shown in Figure 1-11.
6. If unattached, attach driveline to the gearbox input shaft. Refer to step 4 on page 20 under “Deck Driveline Installations” or “Main Driveline Installation”, whichever is applicable.
7. Attach driveline to the output shaft. Refer to step 5 on page 20 under “Deck Driveline Installations” or “Main Driveline Installation”, whichever is applicable.
8. Hold inner and outer drivelines parallel to each other as shown in Figure 1-11. Measure dimension “A”.
   • If “A” is less than 1”, continue with step 13.
   • If “A” is greater than or equal to 1”, continue with step 9 below.
9. Pull back on outer driveline yoke lock collar and slide driveline yoke off of the output shaft.
10. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.
11. Reattach driveline to the output shaft. Move driveline back and forth to ensure both ends are secured. Reattach any end that is loose.
12. Skip to “LED Light Assembly” on page 22.
13. If dimension “A” is less than 1”, shorten driveline as follows:
   Refer to Figure 1-12:
   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.
14. Pull back on outer driveline yoke lock collar and slide driveline yoke off of the output shaft.
15. Pull back on inner driveline yoke lock collar and slide driveline yoke off of the input shaft.
16. 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).
17. 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).
18. Remove all burrs and cuttings.
19. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.
20. Attach driveline to the mower and tractor. Refer to steps 4-5 on page 20 under “Deck Driveline Installations” or “Main Driveline Installation”, whichever is applicable.
21. Move driveline back and forth to ensure both ends are secured. Reattach any end that is loose.
22. Continue with “LED Light Assembly” on page 22.
LED Light Assembly

Refer to Figure 1-13:

LED lights are mounted at an angle to be viewable from the rear while transporting with center deck raised.

Each LED light fixture is supplied with two amber lens and one red lens. The lights are mounted with one amber lens facing forward and one facing rearward. The rear facing amber lens must be positioned above the rear facing red lens.

Light mounting brackets (#2) are mounted with 2" x 9" red reflector decals facing rearward and rectangle holes (B1 & B2) facing forward.

1. On the right-hand side, rotate light bracket (#2) to the angle shown with hole (B1) facing forward. Attach mounting bracket (#13) with 1/2"-13 x 1 1/2" GR5 hex head bolts (#1) and hex flange lock nuts (#3). Tighten lock nuts to the correct torque.
2. Locate LED light (#6). It will have one amber lens facing forward and one facing rearward with the rear facing amber lens above the rear facing red lens.
3. Thread connector (A1) through hole (B1).
4. With amber lens above rear facing red lens, attach LED light (#6) to light mounting bracket (#2) using 1/4"-20 x 1" GR5 hex head bolt (#4), flat washer (#5), and hex nylock nut (#8). Tighten nylock nut (#8) to the correct torque.
5. Uncoil wire harness (#11) and attach connector (C1) to LED light connector (A1).
6. On the left-hand side, rotate light bracket (#2) to the angle shown with hole (B2) facing forward. Attach mounting bracket (#14) with 1/2"-13 x 1 1/2" GR5 hex head bolts (#1) and hex flange lock nuts (#3). Tighten lock nuts to the correct torque.
7. Thread connector (A2) through hole (B2).
8. With amber lens above rear facing red lens, attach LED light (#7) to light mounting bracket (#2) using 1/4"-20 x 1" GR5 hex head bolt (#4), flat washer (#5), and hex nylock nut (#8). Tighten nylock nut (#8) to the correct torque.
9. Uncoil wire harness (#12) and attach connector (C2) to LED light connector (A2).
10. Check connections at enhance module (#10) to make sure wire harness (#11 & #12) are securely connected to the module connectors.
11. With zip ties (#9), attach wire harnesses (#11 & #12) to the gauge wheel arms and slots (D) as needed.
12. Check wire harness routing to make sure wires will not be pinched as the decks are folded and unfolded and while raising and lowering the mower.
Hook-up LED Lights
Refer to Figure 1-14:
The lead wiring harness (#6) is equipped with a 7-way round pin connector for connecting to the tractor’s 7-pin electrical outlet shown in Figure 1-1 on page 15.
1. Route lead wire harness (#6) through spring hose loop (#2) as shown.
2. Connect wire harness (#6) to the tractor’s 7-pin electrical outlet.
Refer to Figure 1-15:
3. Check LED lights to make certain they are operating correctly.

**IMPORTANT:** Connectors on wire harness (#1 & #2) are labeled “Light” on one end and “Enhancer” on the other end. Ends labeled “Light” connect to the LED lights. Ends labeled “Enhancer” connect to enhance module (#3).

**IMPORTANT:** Connector (#1D) has a Red wire and connects to wire harness (#1) on the right side of the implement. Connector (#2D) has a yellow wire and connects to wire harness (#2) on the left side.

4. It is best to have a second person available for this operation. Start tractor and operate lights as follows:
   a. Turn on head lights to verify red lights illuminate.
   b. Turn on flasher lights to verify amber light are blinking on and off.
5. If lights did not operate properly, recheck hook-up of wire harness (#1, #2, & #4) to enhance module (#3).
   • Make sure connector (#1D) with a red wire is connected to the right-hand wire harness (#1).
   • Make sure connector (#2D) with a yellow wire is connected to the left-hand wire harness (#2).
   • Make sure connector (#3B) on the lead wire harness (#4) is connected to connector (#3A) on enhancer module (#3).
6. Check wire harness routing to make sure wires will not be pinched as the decks are folded and unfolded and while raising and lowering mower height.
7. Add cable ties to wire harness (#1, #2, & #4) as needed to secure them in place.
Bleed Hydraulic System

Refer to Figure 1-15:

**WARNING**

To avoid serious injury or death:

Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of injury must treat the injury within a few hours or gangrene may result. **DO NOT DELAY.**

Hydraulic hoses and cylinders are supplied fully charged with oil from the factory and should not require bleeding. If any of the decks raise or lower in a jerking motion, then bleed the hydraulics as follows:

1. With mower decks lowered onto the ground, remove connecting pins (#1) from rod end of the 2 wing cylinders (#2) and center deck cylinder (#3).
2. Support cylinders in a vertical position with rod end up.
3. Cycle hydraulic system to extend both wing cylinders and center deck cylinder. Retract cylinders and repeat this process 2 times.
4. On each cylinder, crack rod end cylinder fitting (#4) and apply hydraulic pressure until air free oil leaks from fitting and tighten fitting.
5. Support cylinders in a vertical position with base end of cylinder up and repeat bleeding process on the base end fitting (#5).
6. Re-pin all clevises. Secure connecting pins with cotter pins (#6) by bending one or more legs of cotter pin.
7. Slowly cycle all decks to transport position checking to make sure the hydraulic hoses are not pinched in the process.
Section 2: Operating Instructions

Introduction
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 Grooming Mower. Therefore, it is absolutely essential that no one operates the mower unless they are age 16 or older and have read, fully understood, and are totally familiar with the Operator’s Manual. Make sure the operator has paid particular attention to:

- Important Safety Information, page 1
- Section 1: Assembly & Setup, page 15
- Section 2: Operating Instructions, page 25
- Section 3: Adjustments, page 32
- Section 5: Maintenance & Lubrication, page 37

Perform the following inspections before using your All-Flex Grooming Mower.

Operating Checklist

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<th>Check</th>
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<tbody>
<tr>
<td></td>
<td>Read and follow all Safety Rules carefully. Refer to “Important Safety Information”.</td>
<td>Page 1</td>
</tr>
<tr>
<td></td>
<td>Make sure all guards and shields are in place. Refer to “Important Safety Information”.</td>
<td>Page 1</td>
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<tr>
<td></td>
<td>Make sure their are no hydraulic leaks on the unit. See “Avoid High Pressure Fluids Hazard”.</td>
<td>Page 3</td>
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<tr>
<td></td>
<td>Read and follow hook-up &amp; preparation. Refer to “Section 1: Assembly &amp; Setup”.</td>
<td>Page 15</td>
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<td>examination of drivelines. Check connections at the tractor and gearboxes.</td>
<td>Page 20</td>
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<td></td>
<td>Read and make all required adjustments. Refer to “Section 3: Adjustments”.</td>
<td>Page 32</td>
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<tr>
<td></td>
<td>Inspect blades for wear and sharpness.</td>
<td>Page 37</td>
</tr>
<tr>
<td></td>
<td>Read and follow all Maintenance Instructions. See “Section 5: Maintenance &amp; Lubrication”.</td>
<td>Page 37</td>
</tr>
<tr>
<td></td>
<td>Read and follow all Lubrication Instructions. Refer to “Lubrication Points” instructions.</td>
<td>Page 43</td>
</tr>
<tr>
<td></td>
<td>Check mower initially and periodically for loose bolts and pins. Refer to “Torque Values Chart”.</td>
<td>Page 52</td>
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<tr>
<td></td>
<td>Check tire pressure. Add air if needed.</td>
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Tractor & Mower Inspection
Make the following inspections with mower attached to a tractor, with tractor and mower parked on a level surface, power take-off disengaged, and mower blades stopped.

1. Complete “Operating Checklist” above.
2. Make sure hitch safety chain is securely attached to mower and tractor.
3. Grease driveline shaft and all other grease fittings.
4. Check oil level in all gearboxes. Refer to “4-Way Gearbox” and “Deck Gear Box” on page 46.
5. Check all plugs and caps in gearboxes to make certain that they have been replaced and tightened properly.
6. Check mower blades for damage and sharpness. See “Blade Inspection” on page 37.
7. Be sure blades are installed properly on each deck with the cutting edge leading in rotation. See “Blade Removal & Installation” on page 38.
8. Be sure all mower blades bolts are tight. Know which center blade bolts are left-hand threaded and which are right-hand threaded when checking for tightness. See “Blade Removal & Installation” on page 38.
9. Be sure all bolts and nuts are tight.
10. Be certain all guards and shields are in place and secure.
11. Slowly cycle all decks to transport position checking to make sure hydraulic hoses and wire harness are not pinched in the process.
12. Check LED lights to make sure they are hooked-up correctly and functioning:
   a. Check all electrical connections on the wire harness. Refer to “Hook-up LED Lights” on page 23.
   b. Check wire harness and their connectors to make sure the wires are not pinched, bare, or broken and connectors are not damaged. Replace wire harness if damaged.
   c. Check lens modules for broken lens and/or burnt out LED lights. Replace module if needed. Modules are available in amber, red, and black.
   d. Make necessary repairs and repeat step 12 above.
13. Clear area to be mowed of objects and debris that might be picked up and thrown by the mower blades.
14. Operate with 540 rpm power take-off tractor.
15. Refer to your tractor’s operator manual for engaging and disengaging the power take-off.
16. In case of emergency learn to stop tractor and mower quickly.
Safety

**DANGER**
To avoid serious injury or death:

- All guards and shields must be installed and in good working condition while operating the implement.
- Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.
- Do not allow anyone near the tractor or implement while operating. Stop operation if bystanders are too close. They can be hit by flying projectiles, become entangled in the equipment, or ran over.
- Do not 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.

**WARNING**
To avoid serious injury or death:

- 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.
- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- 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.
- Do not operate and/or travel across inclines where tractor and/or implement can roll over. Consult your tractor’s manual for acceptable inclines the tractor is capable of traveling across.
- 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.
- Do not use implement as a man lift, work platform or as a wagon to carry objects. It is not properly designed or guarded for this use.
- Do not use 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.
- Do not engage power take-off with AFM decks in the raised position or with engine speed above idle. Doing so will damage power train components.
- Use mower to cut only turf grasses. Cutting other materials can damage drive components, cutting blades, and deck.
- Avoid catching hydraulic hoses on brush, posts, tree limbs, and other protrusions that could damage and/or break them.
- Always disengage tractor PTO before raising mower decks to transport position to avoid power train damage, injury from thrown objects, or blade contact.
- High wear may occur to mower blades when mowing in areas with sandy soil. Frequent inspection should be made and blades replaced if worn excessively or damaged.
- Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.
- Some tractors are equipped with two power take-off speeds. Be certain your tractor’s power take-off shaft is set-up to operate at 540 rpm. Do not exceed 540 rpm power take-off speed or equipment breakage may result.

**U-Joint Timing**
Refer to Refer to Figure 2-1:

**WARNING**
To avoid serious injury or death:

If deck drivelines (3 each) do not have slip clutches, then the driveline u-joints at the splitter box must be in time to avoid driveline damage when folding and unfolding the decks.

**NOTICE**
To avoid nonclutch drive system component damage:
- When installing drivelines be sure u-joints for the RH & LH wing decks are positioned as shown to avoid u-joint damage when folding.
- When servicing machine use proper tools and equipment.
- Refer to Operator’s Manual for instructions.

**U-Joint Timing**
Figure 2-1
Section 2: Operating Instructions

Fold Mower Decks
Refer to Figure 2-2 or Figure 2-3:

1. Using tractor’s hydraulic control lever, raise all three mower decks to transport position by retracting all three hydraulic cylinders (#2) completely.

2. As the mower decks are raising, the three transport locks (#1) will automatically lock in place. Make sure they have locked in place before transporting.

Refer to Figure 2-4

3. Pin deck lock bar to the mower deck on each wing deck when transporting long distances and when a narrow width is required.

IMPORTANT: Make sure deck lock bars are pinned in field position before unfolding the mower.
Unfold Mower Decks

The mower is furnished with either manual transport locks or optional hydraulic transport locks. Manual transport locks are released with a pull rope. Hydraulic transport locks are released with the same tractor hydraulic control lever that is used for raising and lower the mower decks.

**IMPORTANT:** Make sure deck lock bars are pinned in field position before unfolding the mower.

**IMPORTANT:** Make sure transport locks are fully unlatched before unfolding the mower.

**IMPORTANT:** When unfolding mower, fully extend cylinders to utilize maximum flexibility. Damage to mower may occur if cylinders are not fully extended.

Unfold Decks With Pull Rope Locks

*Refer to Figure 2-7:*
1. Return deck lock bar to Field position.

*Refer to Figure 2-5:*
2. Fully retract hydraulic cylinders (#2) to remove weight from transport locks (#1).
3. Pull transport lock rope (#3) toward the tractor to disengage transport locks (#1).
4. Hold locks in this disengaged position until all three mower decks have unfolded enough to allow locking lugs (#4) to be out from under transport locks (#1).
5. Extend all three cylinders (#2) to their maximum stroke for maximum field float of mower decks.

Unfold Decks With Hydraulic Locks

*Refer to Figure 2-7:*
1. Return deck lock bar to Filed position.

*Refer to Figure 2-6:*
2. Using the tractor’s hydraulic control lever, fully retract all hydraulic cylinders (#2) to remove weight from transport locks (#1).
3. After hydraulic cylinders (#2) have fully retracted, extend hydraulic cylinders (#2). The transport lock hydraulic cylinder (#3) will extend first and will open all three transport locks (#1) before hydraulic cylinders (#2) start to extend.
4. Continue to extend all three cylinders (#2) to their maximum stroke to utilize maximum flexibility of the decks as they float over the terrain.
Transporting

**WARNING**

To avoid serious injury or death:

- 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.

- When traveling on public roads, use LED lights, slow moving vehicle sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. If implement blocks visibility of slow moving vehicle sign, relocate sign so it is visible from the back at all times. Always comply with all federal, state, and local laws.

- Reduce ground speed when turning and leave enough clearance to avoid making contact with obstacles such as buildings, trees, fences, etc. Making contact can result in equipment damage and cause serious injury or death.

- Slow down when traveling over rough or hilly terrain. Shift to a lower gear to maintain engine rpm while traveling slower.

- Care should be taken when encountering oncoming traffic and roadside obstructions if implement is wider than your tractor.

- Always disengage tractor PTO before raising mower decks to transport position to avoid power train damage, injury from thrown objects, or blade contact.

- Operate only power machines equipped with a certified Roll-Over Protective Structure (ROPS) and seat belt. Keep folding ROPS in the “locked up” position when appropriate. 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.

1. Refer to Figure 2-8: Relocate slow moving vehicle Safety sign (#1) from back of your tractor to mounting bracket (#2) on the back of the mower. If needed, the slow moving vehicle sign can be purchased from your nearest Land Pride dealer. Refer to “Slow Moving Vehicle Sign (Accessory)” on page 36.

2. Select a safe ground speed when transporting from one area to another. Maximum transport speed for the All Flex Grooming Mowers is 20 mph. DO NOT EXCEED.

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

4. Always raise wings and set transport locks before traveling on public roadways.

5. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely. Use LED lights on the mower to make yourself more visible on roadways.

6. Shift tractor to a lower gear when traveling over rough or hilly terrain.

---

**Constant Velocity Driveline Angle**

Refer to Figure 2-9:

The main driveline is equipped with a constant velocity (CV) joint that allows the unit to run at angles up to 80 degrees with no vibration.

**IMPORTANT:** Do not make turns that will subject the CV joint to angles greater than 80 degrees. Angles greater than 80 degrees will damage the driveline.

The constant velocity joint must be greased every 8 hours of operation. Refer to “Driveline Constant Velocity Shaft” on page 43.
Section 2: Operating Instructions

Special Operating Instructions

1. After attaching the tractor to the mower, carefully check all hoses and wires to be sure they will not contact the driveline.
2. Check power take-off guards to make sure they are in good condition and in place.
4. Check the following after the power take-off has been disengaged and come to a complete stop. Wear your safety glasses.
   - Check mower blades for sharpness.
   - Make sure all bolts and nuts are tight.
   - Check tractor safety equipment to be sure the equipment is in good working condition.
5. Set tractor throttle at idle. Engage power take-off start blades rotating.
6. Begin mowing at a slow forward speed. Increase throttle speed to 540 power take-off rpm. Shift up until desired speed is achieved - maintaining 540 power take-off rpm. Mower blades will cut better at 540 power take-off blade speed than at reduced throttle.
7. After mowing the first 50 feet, stop and check to see that mower is adjusted properly.
8. Grass is best cut when it is dry. Mowing wet grass can cause plugging resulting in grass clumps behind the mower.
9. Grass should be mowed frequently as shorter clippings deteriorate faster.
10. Mow areas with extremely tall grass twice. Raise mower high for the first cutting and then set mower at finished cutting height for the second cutting.

Unhook Mower

Refer to Figure 2-10:

1. See “Long-Term Storage” on page 42 before parking mower for a long period.
3. Move hydraulic control levers back and forth several times to relieve all hydraulic pressure in hydraulic hoses and at the couplers.
4. Attach park jack (#1) to jack mount (#12) and secure with detent pin (#2). Make sure detent pin is fully inserted.
5. Adjust height of park jack (#1) until hitch is supported by the park jack.
6. Unhook wire harness (#3) from the tractor electrical outlet. Coil wire harness up and store on the spring hose loop. Keep wire harness pin connector (#3) out of the dirt.
7. Unhook hydraulic hoses (#4) from tractor duplex outlet. Insert couplers through spring hose loop to keep couplers out of the dirt.
8. Pull back on driveline lock collar (#5) and pull driveline (#6) from tractor power take-off shaft.
9. Collapse driveline (#6) by pushing tractor end of driveline toward the splitter gearbox.
10. Store yoke end of driveline (#5) on driveline support rest (#13). Do not store yoke end in the dirt.
11. Unhook transport safety chain (#7) from the tractor and stow on the hitch.
12. Adjust park jack (#1) until hitch weight is removed from tractor drawbar.
13. Remove hairpin cotter (#8), flat washer (#10), and hitch pin (#9).
14. Start tractor and drive slowly forward several feet while watching to make sure no mower components are connected to or catching on the tractor.
16. Replace hitch pin (#9) with flat washer (#10) in mower hitch clevis (#11). Secure hitch pin with hairpin (#8).

Refer to Figure 2-8 on page 29:

17. Remove slow moving vehicle sign (#1) from mounting bracket (#2).
18. Reinsert slow moving vehicle Sign in mounting bracket on the back of the tractor.
General Operating Instructions
By now you should have familiarized yourself with the Operator’s Manual, completed the Operator’s Checklist, set-up the unit properly and attached your Land Pride All-Flex mower to your tractor.

With the tractor’s park brake engaged and the power take-off disengaged, start the tractor. Using the tractor’s hydraulic control levers, retract the hydraulic deck-lift cylinders all the way in and pull the ropes leading to your transport locks to release them. With the same control levers, slowly lower your mowing decks from transport position to working position on the ground. Having lowered the decks, shut the tractor off, check to make sure the park brake is set and remove the switch key. Dismount from the tractor and preset your mower to the desired cutting height.

It’s now time to do a running operational safety check. It is extremely important that if at any time during this safety check you detect a malfunction in either the mower or tractor that you immediately shut the tractor off, remove the key, and set the park brake. Make necessary repairs and/or adjustments before continuing on.

Make sure before starting the tractor that the mower is properly attached to the draw bar with both wings down resting on the ground. Also make sure the driveline is securely coupled to the tractor’s power take-off shaft, the hydraulic hoses are properly attached to the tractor’s hydraulics, the tractor’s park brake is engaged and the tractor’s power take-off drive is disengaged. Starting the tractor and set the engine throttle speed at a low idle. Engage the tractor’s power take-off drive. If everything is running smoothly, slowly increase the engine rpm until the tractor’s engine reaches full power take-off operating speed of 540 rpm. If everything is still running as it should, then return the engine to low idle and disengage power to the power take-off. Under no circumstances should you ever raise the cutting decks into transport position with the power take-off drive engaged. Personal injury and machine damage could result.

You should now be ready to move to your cutting site to begin mowing. On roadway transport in such a manner that faster moving vehicles can easily see you and pass you safely. Reduce your speed when traveling over rough and hilly terrain. Avoid quick or sharp steering corrections. Take extra care to ensure that the mower doesn’t come into contact with obstacles such as trees, buildings, or fences. Use accessory lights and appropriate reflective devices to provide adequate warning to pedestrians and other vehicle operators when traveling on public roads and in the dark of night. Comply with all local, state, and federal laws.

It is important that you inspect the area where you will be cutting and clear it of safety hazards and foreign objects either before or after you arrive at the cutting site. Never assume the area is clear. Cut only in areas you are familiar with and are free of debris and unseen objects. In the event you do strike an object, stop the mower and tractor immediately to inspect and make any necessary repairs before resuming operation. It really pays to inspect a new area and to develop a safe plan before mowing.

You will need to maintain a ground speed between 2-6 mph and 540 rpm power take-off speed to produce a clean cut. Make a tractor gear and range selection that will enable you to maintain these speed combinations. Generally the quality of cut is better at lower ground speeds. Dense ground cover will create the need to slow down even more. In certain conditions tractor tires will roll grass down resulting in an uneven cut when the grass fails to rebound. Should this happen you may try reversing the direction of cut and/or double cut to achieve the desired finish.

Avoid very low cutting heights especially on extremely uneven terrain. 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.

Now you’re prepared and well briefed you may begin cutting. Begin cutting by doing the following:

- Reducing the tractor’s engine rpm.
- Make sure the mower is on the ground in cutting position.
- Engage the power take-off.
- Raise the engine rpm to the appropriate power take-off speed.
- Begin mowing.

Make wide turns when possible. Operators of pull-type models must plan ahead and choose a cutting pattern that allows for wider 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 All-Flex Mower can do.

Whether 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 power take-off.
- Stop on level ground.
- Set the park brake.
- Turn off the engine and remove the key.
- Stay on the tractor until the mower blades have come to a complete stop.

You should now be ready to move to your cutting site to begin mowing. On roadway transport in such a manner that faster moving vehicles can easily see you and pass you safely. Reduce your speed when traveling over rough and hilly terrain. Avoid quick or sharp steering corrections. Take extra care to ensure that the mower doesn’t come into contact with obstacles such as trees, buildings, or fences. Use accessory lights and appropriate reflective devices to provide adequate warning to pedestrians and other vehicle operators when traveling on public roads and in the dark of night. Comply with all local, state, and federal laws.
Center Deck Height Adjustments

**DANGER**

To avoid serious injury or death:
- Always disconnect driveline from the tractor before servicing the drivetrain and components powered by the drivetrain. A person can become entangled in the drivetrain if the tractor is started and the power take-off is engaged.

**WARNING**

To avoid serious injury or death:
- Block decks up before making cutting height adjustments.
- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.

These adjustments should be made with mower hooked-up to the tractor that will be used for field operations or one having the same drawbar height.

Position mower on a level surface and adjust hitch clevis up or down on end of tongue until tongue is close to level with the ground. Tire pressure will affect mowing height. Be sure all tires have proper psi pressure. See “Tire Inflation Chart” on page 52.

**IMPORTANT:** When going over a raised area, make sure main driveline does not make contact with mower tongue, especially near hitch end of tongue.

**Refer to Figure 3-1:**

1. Lower mower decks fully down on a flat level surface.
2. Make measurement (A) (top of deck to ground) on all three decks. Check measurements in Cutting Height Chart to determine if the decks need to raised or lowered to obtain preferred cutting height (B).
3. Raise all three mower decks up to an adequate height and block under the decks to prevent them from falling during gauge wheel height adjustments.

**Cutting Height Chart**

<table>
<thead>
<tr>
<th>Dim. A</th>
<th>Dim. B</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 5/8”</td>
<td>3/4”</td>
</tr>
<tr>
<td>6 1/8”</td>
<td>1 1/4”</td>
</tr>
<tr>
<td>7 1/8”</td>
<td>2 1/4”</td>
</tr>
<tr>
<td>8 1/8”</td>
<td>3 1/4”</td>
</tr>
<tr>
<td>9 1/8”</td>
<td>4 1/4”</td>
</tr>
<tr>
<td>10 1/8”</td>
<td>5 1/4”</td>
</tr>
</tbody>
</table>

**Refer to Figure 3-2:**

4. Add or remove spacers below the spindle tubes equal to the number of inches the gauge wheel needs to be adjusted. Adding spacers will raise the cutting height and removing spacers will lower the cutting height. When finished, all ten gauge wheels will usually have an equal number of spacers below the spindle tubes. See note below.

**IMPORTANT:** Before continuing, read instructions on raising and lowering decks starting with “U-Joint Timing” on page 26.
Section 3: Adjustments

NOTE: Due to manufacturing tolerances and tire size differences, it may be necessary to readjust some spacers. Because of this, you may not end up with equal number of spacers on all gauge wheels.

IMPORTANT: Linchpins should always be inserted into the gauge wheel spindle from the front with the locking clasp flipped shut over the spindle toward the back. Attaching the pin in this manner will prevent vegetation from catching on the clasp and flipping it open while traveling forward.

5. After making height adjustments, always replace linchpins by inserting them into the gauge wheel spindle pin holes from the front to keep from loosing the pins and gauge wheels.

6. Lower mower decks to the field position making sure all fold cylinders are fully extended.

Refer to Figure 3-3:

IMPORTANT: Slide-on spacers are 1/2” thick. Use two 1/2” slide-on spacers at the front of the rear deck for every 1” spacer used at the back of the rear deck.

7. Adjust front of center deck height to match height at rear of center deck:
   a. Attach jack stand to jack mount located in front of the center gearbox channel. Make sure stand is secured with attachment pin.
   b. Screw jack out to lift front of mower deck and in to lower deck front.
   c. Place same number and thickness of c-spacers below the spindle tube as what was placed below the rear gauge wheel spindle tubes.
   d. There is a groove in the carrier rod for adding or removing c-spacers. Turn the c-spacer so that the open end will slide in or off the groove as needed.
   e. Remove jack stand and return it to the storage tube located in front of the divider gearbox.
   f. Place additional c-spacers above metal spindle tubes.

8. Take measurements from the same location on all three decks to make sure they are at the same cutting heights.

9. Additional fine tuning adjustments may be needed after a test mowing run.

Belt Tension

IMPORTANT: Belt tension should be rechecked on new belts after approximately 20 hours of operation.

CAUTION

To avoid minor or moderate injury:
The belt drive system is under spring tension. Use care when servicing the system to avoid injury caused by forces built up in the spring.

Refer to Figure 3-4:

1. To check tension, apply force at arrow A with a tension tester until the belt is deflected 1/4”. The force required to get this deflection should range from 7 to 10 lbs.

2. Adjust belt tension by adjusting eyebolt (#1) until correct tension is achieved. This adjustment will increase or decrease the tension on spring (#2).

3. Excessive tension may lead to premature failure of belt and drive components. Also, excessive tension may be a safety hazard to operator and bystanders. Not enough belt tension may lead to premature failure of the belt due to excessive slipping.
Optional Hydraulic Transport Locks

Refer to Figure 3-5:

When transport locking cylinder (#6) is fully retracted, transport locks (#1) should be fully seated in tool bar locking lugs (#2) and aircraft cables (#5) should have a small amount of slack. If cables hang loosely or are tight, then shorten or lengthen cables (#5) as follows:

a. They should have slight slack and not be tight.
b. They should not be too slack or cables (#5) will not be able to pull transport locks (#1) out of tool bar locking lugs (#2).

3. If needed, adjust aircraft cables (#5) as follows:

a. Loosen cable clamps (#4A & #4B) and pull or let out aircraft cable (#5) to create slight slack in cable.
b. Use cable clamp (#4A) closest to the spring to create a loop about 1 1/4" in diameter. The loop should be big enough to allow rotation around the spring but small enough not to come off the washers.
c. Tighten cable clamp (#4A).
d. Secure excess cable with remaining clamp (#4B) and then tighten clamp (#4B).

NOTE: Figure 3-5 is shown with mower decks down for clarity. Mower decks will need to be folded up and locked in the transport locks to check for adjustment of transport locks.

1. Fully retract deck lifting cylinders (#7) and transport lock cylinder (#6).
2. Check slack in all three aircraft cables (#5):
This page left blank intentionally.
Section 4: Accessories

Cutting Blades
There are four blade choices to select from based upon soil condition, density of grass, and tractor horsepower. The appearance of the finish cut may vary between low lift and high lift blades. See your Land Pride dealer for blade availability.

Low Lift Blades (Standard)
Land Pride’s low lift blades are designed for mowing over sandy soil terrain where high suction lift is not crucial. Sand sucked into the blades accelerates blade wear more than normal. Low lift blades are recommended because they produce a lower suction keeping sand uplift and blade wear to a minimum.

Medium Lift Blades
Land Pride’s medium lift blades are great when horsepower is a concern. They produces a medium suction for lifting grass requiring less horsepower than high lift blades.

High Lift Blades
Land Pride’s high lift blades develop the greatest suction for lifting grass before cutting for that fresh clean cut look. However, they may require more horsepower especially when cutting tall dense grass. They are not recommended for sandy soil conditions.

Mulching Blades
Land Pride’s mulching blades are designed to chop leaves and/or grass into smaller parts leaving your lawn looking fresher and cleaner than ever before.

Accessory Part Numbers

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>316-362S</td>
<td>SLOW MOVING VEHICLE SIGN</td>
</tr>
<tr>
<td>2</td>
<td>802-092C</td>
<td>RHSNB 5/16-18X3/4 GR5</td>
</tr>
<tr>
<td>3</td>
<td>803-177C</td>
<td>NUT HEX FLG TP LK 5/16-18ZNYCR</td>
</tr>
<tr>
<td>4</td>
<td>890-401C</td>
<td>MOUNTING SOCKET</td>
</tr>
</tbody>
</table>

Ball Swivel Hitch
Refer to Figure 4-1
The ball swivel hitch clamps firmly to your tractor’s drawbar. With this accessory the center deck can pivot about the drawbar in all directions reducing twisting torque and allowing the deck to mow a more even height. Hillsides and uneven terrain are ideal for its use. See your local Land Pride dealer for the ball swivel hitch.

Slow Moving Vehicle Sign
Refer to Figure 4-2:  

If your tractor does not have a movable sign that fits Land Pride’s mounting socket (#4), you can purchase the slow moving vehicle sign (#1) to fit the socket. If you have need for mounting this sign on other equipment, you can purchase items (#2, #3, & #4) for mounting the sign.
Section 5: 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.

DANGER
To avoid serious injury or death:
Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.

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.
- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- For safety reasons, each maintenance operation must be performed with tractor PTO disengaged, mower lowered completely to the ground or folded with transport locks engaged and tractor engine shut off with ignition key removed.
- Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.
- Frequently inspect mower for loose bolts and nuts. See “Blade Removal & Installation” on page 38 to identify left-hand threaded bolts. Tighten all hardware as indicated in the “Torque Values Chart” on page 52.
- Check drive belt tension after several hours of mowing. Refer to “Belt Tension” on page 33.
- Lubricate components as listed under “Lubrication Points” starting on page 43.
- Always maintain proper air pressure in the tires. Refer to “Tire Inflation Chart” on page 52.
- Replace worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride Dealer. See Information about “Safety Labels” starting on page 6.

Service Mower Blades

Blade Inspection

DANGER
To avoid serious injury or death:
- Bent, deformed, or cracked blades should be removed from unit and discarded. Never weld a broken or cracked blade. DO NOT attempt to straighten or reuse such blades. ALWAYS replace with a new OEM blade to assure safety.
- 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.

WARNING
To avoid serious injury or death:
Exercise caution when working under the deck as the mower cutting blades are extremely sharp. Wear a pair of gloves when checking blades. Avoid direct contact with cutting edge of blades.

Refer to Figure 5-1:
Blade Wear: Blade performance is reduced as blades wear and are sharpened for reuse. Excessively high wear can occur to your mower blades when mowing in sandy soil areas. Frequent inspection should be made and blades replaced if damaged.
Bent, Deformed, or Split Blades should be removed from unit and discarded. DO NOT attempt to straighten a blade for reuse.
Section 5: Maintenance & Lubrication

Blade Removal & Installation

CAUTION
To avoid minor or moderate injury:
Depending on blade rotation, bolts attaching mower blades to their respective spindles may be either left-hand or right-hand thread. Prevent spindle and/or bolt damage by knowing which hand the threads are before removing and/or tightening any blade mounting bolts.

Refer to Figure 5-2 & Figure 5-3:
1. Verify blade rotation and bolt thread type (right-hand or left-hand) before loosening center blade bolt and removing blade to be sharpened or replaced.

NOTE: Center blade bolt on the left-hand deck is right-hand threads. Center blade bolt on the right-hand and center decks are left-hand threads. The two outside blade bar bolts are right-hand threads.

Refer to Figure 5-4:
2. Remove blades by grasping the blade end (#1) with a rag or thick padded glove while loosening the blade mounting bolt (#4).

WARNING
To avoid serious injury or death:
• Replace mower blades with genuine Land Pride blades only.
• See Figure 5-4. If blade bar (#2) has been removed from spindle shaft (#3), apply “Loctite 243” to external threads on spindle shaft (#3) and threads on the center spindle bolt (#4) before reinstalling existing or new blade bar. Without Loctite 243, the startup torque of unit can let blade assembly unscrew thus dropping it from the spindle/mower.

IMPORTANT: Always install blade with cutting edge facing direction of rotation and wing tips pointing up.

3. Remove center blade bolt (#4) and two outside blade bar bolts (#5) from bottom of blade to be replaced.

4. Reinstall blade, blade washer, and bolt. Care should be taken when installing the blade bolt to not get it cross threaded and to know if the bolt is right-hand or left-hand. Do not exceed 55 ft.-lbs. of torque on bolt.

5. Reinstall the two outside bolts. Tighten to correct torque listed in the “Torque Values Chart for Common Bolt Sizes” on page 52.
Blade Sharpening

**WARNING**

To avoid serious injury or death:
Wear eye protection and gloves while inspecting, removing, sharpening, and replacing a blade.

**NOTE:** Care should be taken to not remove more material than necessary when sharpening blades.

1. A cutting blade should be replaced or sharpened if it is dull or nicked.
2. Clean blade washer and blade mounting surface before installing a new blade. Also clean the old blade if you plan to sharpen it for reuse.

Refer to Figure 5-5:

3. Maintain sharpness by grinding only the top of the cutting edge at the same bevel as the original edge.

Refer to Figure 5-6:

4. Check blade balance by positioning the blade horizontally on a nail or shaft through the blade’s center hole. If either end of blade rotates downward, grind (remove) metal on that end until blade will balance horizontally on the nail. The blade is properly balanced when neither end drops. Balance of a blade is generally maintained by removing an equal amount of material from each end of the blade.

V-Belt Maintenance

**CAUTION**

To avoid minor or moderate injury:
The belt drive system is under spring tension. Use care when servicing the system to avoid injury caused by forces built up in the spring.

Refer to Figure 5-7 & Figure 5-8:

These illustrations are also on the labels located on the top of the mower decks.

1. Remove the right-hand and left-hand belt covers.
2. Disengage belt tensioning latch by turning release nut with a 3/4” wrench. See Figure 5-7 or Figure 5-8 for location of release nut.
3. Replace belt with Land Pride belt making sure new belt is positioned correctly in all the pulley grooves.
4. Engage belt tensioning latch by turning the release nut with a 3/4” wrench.
5. Check for correct belt tension. Refer to “Belt Tension” on page 33.
6. Reinstall all belt covers and secure with hardware.
Driveline Protection

⚠️ DANGER
To avoid serious injury or death:
Always disconnect driveline from the tractor before servicing the drivetrain and components powered by the drivetrain. A person can become entangled in the drivetrain if the tractor is started and the power take-off is engaged.

⚠️ WARNING
To avoid serious injury or death:
A slip clutch that has been in use or has slipped for as little as only two or three seconds during run-in may be too hot to touch. Allow a hot clutch to cool before working on it.

Mower drive components are protected from shock loads by a two plate friction clutch. The clutch should slip during operation to protect mower from excessive loads.

Friction clutches should be “run-in” prior to initial operation and after long periods of inactivity. To prevent driveline and gearbox damage, repeat “Run-In” at the beginning of each season and when moisture and/or condensation seizes the inner friction plates.

Clutch Run-In
Refer to Figure 5-9 (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 the spring load is low enough that the clutch slips freely with the power take-off engaged.
3. Start the tractor and engage driveline drive for 2-3 seconds to permit slippage of the clutch surfaces. Disengage the driveline, then re-engage a second time for 2-3 seconds. Disengage driveline, shut off tractor, and remove key. Wait for all components to stop before dismounting from tractor.
4. Inspect the 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 40.

Refer to Figure 5-9 (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 the 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 indicated that one or more of the friction disks did not slip, then the clutch must be disassembled to separate the friction disks.

⚠️ WARNING
To avoid serious injury or death:
Secure clutch firmly in a vise or other clamping device.
### 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 edge of clutch housing.

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

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

### Assembly

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

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

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

**Step 4**
With 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.
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 and grease that may have accumulated on the mower and moving parts. Scrape off compacted dirt from the bottom of the deck and then wash surface thoroughly with a garden hose. A coating of oil may also be applied to the lower deck area to minimize oxidation.
2. Check blades for wear and replace or sharpen if necessary. See “Blade Sharpening” on page 39.
3. Inspect mower for loose, damaged, or worn parts and adjust or replace as needed.
4. Lubricate as noted in “Lubrication Points” starting on page 43. A light coat of oil or grease may be applied to the deck and to any exposed hydraulic cylinder rods to minimize oxidation.
5. Release spring tension from drive belt. Refer to “Blade Removal & Installation” on page 38.
6. Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Land Pride aerosol touch-up paint. They 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.
7. Replace all damaged or missing decals.
8. Store mower on a level surface in a clean, dry place with driveline off the ground. Inside storage will reduce maintenance increase mower life.

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.

82 . . . . . Orange  85 . . . . . Black

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.

Tires With Air Pressure
Heavy Duty tire sealant has been added in air tires to reduce air loss from punchers due to nails/thorns etc.

NOTE: Under inflated tires can roll off of the rim. Maintaining air pressure within 5 PSI of maximum tire pressure to reduces this risk. See tire sidewall for optimum pressure.

Land Pride Touch-up Paint

<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>

7. Replace all damaged or missing decals.
8. Store mower on a level surface in a clean, dry place with driveline off the ground. Inside storage will reduce maintenance increase mower life.
Lubrication Points

Driveline Constant Velocity Shaft
Type of Lubrication: Multi-purpose Grease
Quantity = See drawing

**IMPORTANT:** Extensive lubrication must be performed every 8 hours of operation to extend the life of the constant velocity joint.
- Grease constant velocity joint in a straight position to force grease through its passages and into the cavity. Grease should be visible around ball joints.
- Grease fittings in the outer telescoping member, u-joints, and driveline shields every 8 hours of operation to prevent premature break down.

Driveline Shafts
Type of Lubrication: Multi-purpose Grease
Quantity = See drawing

Inner Tube of Driveline
Type of Lubrication: Wheel Bearing Grease
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.

Blade Spindle Bearings
Type of Lubrication: Multi-purpose Grease
Quantity = As required
Wheel Bushings (15" Gauge Wheels)

Type of Lubrication: Multi-purpose Grease
Quantity = As required

NOTE: A grease zerk is provided in wheel hubs, but care should be used as grease gun pressure can force dust cap to come off. Land Pride recommends repacking wheel bearings annually.

Wheel Bearings (18" Gauge Wheels)

Type of Lubrication: Multi-purpose Grease
Quantity = Repack wheel bearings annually

NOTE: A grease zerk is provided in wheel hubs, but care should be used as grease gun pressure can force dust cap to come off. Land Pride recommends repacking wheel bearings annually.

Wheel Support Bushings

Type of Lubrication: Multi-purpose Grease
Quantity = As required

Wheel Bushings (Transport Hubs)

Type of Lubrication: Wheel Bearing Grease
Quantity = As required
Section 5: Maintenance & Lubrication

**Transport Locks**
Type of Lubrication: Multi-purpose Grease
Quantity = As required

**Wing Deck Pivot Bushings**
Type of Lubrication: Multi-purpose Grease
Quantity = As required

**Wing Flex Pivot Lugs**
Type of Lubrication: Multi-purpose Grease
Quantity = As required

**Tool Bar To Deck Pivot Pin**
Type of Lubrication: Multi-purpose Grease
Quantity = As required
**Deck Gear Box**

**IMPORTANT: Do not overfill with oil!** Unit should be level when checking oil. Oil expands when hot, therefore, always check oil level when cold. Take your gearbox to a Land Pride dealer if it requires service.

**Method 1:** Unscrew top plug to remove dipstick (#1). Wipe oil from dipstick and screw dipstick back in without tightening. Unscrew dipstick and check oil level on dipstick. If oil is near the bottom of the dipstick or below the dipstick, add recommended gear lube through the top plug hole until oil reaches top mark on dipstick. Reinstall top plug with dipstick and tighten.

Type of Lubrication: 80-90W EP Gear Lube

Quantity = Fill until oil reaches top mark on dipstick.

**NOTE:** Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.

---

**4-Way Gearbox**

**IMPORTANT: Do not overfill with oil!** Unit should be level when checking oil. Oil expands when hot, therefore, always check oil level when cold. Take your gearbox to a Land Pride dealer if it requires service.

Unscrew and remove dipstick (#1). Wipe oil from dipstick and screw dipstick back in without tightening. Unscrew dipstick and check oil level on dipstick. If oil is near the bottom of the dipstick or below the dipstick, add recommended gear lube through the top plug hole until oil reaches top mark on dipstick. Reinstall top plug with dipstick and tighten.

Type of Lubrication: Gear Lube EP 80-90W

Quantity = Fill until oil reaches full mark on dipstick.

**NOTE:** Do not overfill!

---

**NOTE:** Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.
## Section 6: Features & Benefits

### Table of Contents

- **AFM4522 Model**

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED signal lights</td>
<td>LED lights are bright, long lasting, and resistant to vibration, unlike incandescent counterparts.</td>
</tr>
<tr>
<td>Counter rotation on left-hand deck</td>
<td>Spreads grass clippings more evenly. Wing decks throw grass away from the rear deck. Rear deck doesn’t get covered up nor does it get bogged down by cut grass.</td>
</tr>
<tr>
<td>Narrow 9'-6&quot; transport width</td>
<td>Transport width allows unit to be transported with ease.</td>
</tr>
<tr>
<td>4 1/2&quot; Deck overlap</td>
<td>Eliminates blade skips when turning. Tighter turns can be made.</td>
</tr>
<tr>
<td>Sleek frame design, including single beam hitch and compact deck overlap</td>
<td>Design allows operator to make tighter turns without leaving windrows and skips. The AFM virtually becomes a zero turn mower.</td>
</tr>
<tr>
<td>Automatic transport wing locks</td>
<td>When wings are raised in the full transport position, the wings lock in place. No need to get off the tractor to lock. Pull rope from tractor seat to un-lock.</td>
</tr>
<tr>
<td>P27560SR Transport tires with tapered bearings</td>
<td>Large Transport tires offer smooth roading and less grass compaction. Allows grass to stand up. Tapered roller bearings offer longevity.</td>
</tr>
<tr>
<td>Removable transportation tire spindles</td>
<td>Allows a spindle to be replaced by simply removing two bolts.</td>
</tr>
<tr>
<td>Back wheels on side decks even with transportation tires</td>
<td>Allows tighter turns without skips.</td>
</tr>
<tr>
<td>Rigid rear side deck tires</td>
<td>Rigid wheel yokes holds hills and slopes better. Safer unit than the competition.</td>
</tr>
<tr>
<td>Large deck flotation tires with sealant</td>
<td>Optional 15&quot; tires for great flotation or 18&quot; tires for even greater flotation. The larger the tire the less compaction in pounds per square inch allowing grass to stand up. Sealant in the tires minimizes flats.</td>
</tr>
<tr>
<td>1/4&quot; Gauge wheel arms</td>
<td>Gives the cutter gauge wheel arms a great deal of “hidden” strength.</td>
</tr>
<tr>
<td>Low pivot points on deck</td>
<td>The lower the pivot points are to the ground, the more side to side swing, allowing for excellent flotation from each deck.</td>
</tr>
<tr>
<td>Deflectors built into mower decks</td>
<td>Safety features meet ANSI standards. Many competitors use chains for protection. Once chains are removed the unit may not meet ANSI specifications.</td>
</tr>
<tr>
<td>Rear discharge</td>
<td>Even dispersal, discharged items are always aimed downward. No rear chains are needed, which tend to clump damp grass.</td>
</tr>
<tr>
<td>Cat. 4 CV main driveline</td>
<td>Constant velocity main driveline allows for tighter turns without harming U-joints in driveline.</td>
</tr>
<tr>
<td>Cat. 3 slip-clutch wing drivelines</td>
<td>Reduces start-up torque that is put on the driveline, gearbox, and gearbox support.</td>
</tr>
<tr>
<td>Slip clutch protection</td>
<td>Guards against premature gearbox failure. Protects mower deck spindles.</td>
</tr>
<tr>
<td>Heavy center gearbox mounting plate</td>
<td>Handles start up torque.</td>
</tr>
<tr>
<td>Gearbox hp rating</td>
<td>65 - 100 horsepower</td>
</tr>
<tr>
<td>Gearbox warranty</td>
<td>S/N 368187- one year on all gearbox components</td>
</tr>
<tr>
<td></td>
<td>S/N 368188+ 5 years on gearbox housing, gears, and shafts, 3 years on bearings and seals on gearbox.</td>
</tr>
<tr>
<td>Easy to grease blade spindles</td>
<td>No guards to remove for routine greasing of blade spindles.</td>
</tr>
<tr>
<td>Middle spindle sits towards the back of the mower deck</td>
<td>Uses less horsepower and allows material to escape the mower deck easier. The discharge of the material is more even. Design eliminates windrowing.</td>
</tr>
<tr>
<td>Spring loaded idlers</td>
<td>Applies constant tension to belt to run efficiently.</td>
</tr>
<tr>
<td>Easy belt tension release</td>
<td>Easily release belt tension for changing belt or for winter storage.</td>
</tr>
<tr>
<td>High blade tip speed</td>
<td>(18,498 fpm) Lifts the grass up for a clean cut and efficient discharge of material. Tip rates as high or higher than the competition.</td>
</tr>
<tr>
<td>Choice of Blade</td>
<td><strong>Low Lift</strong> - Highly recommended in sandy soils where lifting isn’t crucial. Disturbs the soil very little, allowing blades to wear longer. <strong>Medium Lift</strong> - Medium suction for lifting grass. Requires less horsepower than high lift. <strong>High Lift</strong> - Greatest suction for lifting grass before cutting. Can take higher horsepower in tall dense grass. Not recommended in sandy soils. <strong>Mulching</strong> - Perfect for leaf mulching.</td>
</tr>
</tbody>
</table>

**AFM4522 All-Flex Grooming Mower 315-360M**

5/23/19
## AFM4522 Model

<table>
<thead>
<tr>
<th>Specifications &amp; Capacities</th>
<th>Specifications &amp; Capacities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge Type</td>
<td>Rear</td>
</tr>
<tr>
<td>Cutting Width</td>
<td>21'-9&quot;</td>
</tr>
<tr>
<td>Overall Width</td>
<td>22' -0&quot;</td>
</tr>
<tr>
<td>Transport Height</td>
<td>11'-2&quot;</td>
</tr>
<tr>
<td>Transport Width</td>
<td>9'-6&quot; With Lock bar Installed</td>
</tr>
<tr>
<td>Overall Length</td>
<td>18'-6&quot; Mowing Position</td>
</tr>
<tr>
<td></td>
<td>15'-2&quot; Transport Position</td>
</tr>
<tr>
<td>Machine Weight</td>
<td>4,150 lbs.</td>
</tr>
<tr>
<td>Tractor Horsepower</td>
<td>Minimum 65 horsepower / Maximum 100 horsepower</td>
</tr>
<tr>
<td>Hitch</td>
<td>Pull Type with Adjustable Clevis and Safety Tow Chain</td>
</tr>
<tr>
<td>Tongue Support</td>
<td>2,200 lb. Capacity Screw Jack</td>
</tr>
<tr>
<td>Gearbox Support</td>
<td>1/4&quot; Steel Channel</td>
</tr>
<tr>
<td>Gearboxes</td>
<td>540 rpm (1)-Splitter &amp; (3)-Wing</td>
</tr>
<tr>
<td>Gearbox Oil Capacity</td>
<td>Splitter: 2.5 pints Wings: 3.5 pints</td>
</tr>
<tr>
<td>Main Driveline (1)</td>
<td>Category IV with Constant Velocity</td>
</tr>
<tr>
<td>Deck Drivelines (3)</td>
<td>Category III with Slip Clutch</td>
</tr>
<tr>
<td>Cutting Height</td>
<td>3/4&quot; to 5 1/4&quot; (In 1/4 increments)</td>
</tr>
<tr>
<td>Deck Size &amp; Quantity</td>
<td>3 each @ 90°</td>
</tr>
<tr>
<td>Deck Overlap</td>
<td>4 1/2&quot;</td>
</tr>
<tr>
<td>Deck Thickness</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>Anti-Scalp Roller</td>
<td>Front Center of Each Deck</td>
</tr>
<tr>
<td>Blade Drive Belt</td>
<td>1 C-Section</td>
</tr>
<tr>
<td>Blade Drive Belt Tension</td>
<td>Spring Loaded Idler with Overcenter Release</td>
</tr>
<tr>
<td>Blade Bearing</td>
<td>Sealed Ball Bearings</td>
</tr>
<tr>
<td>Blades</td>
<td>Low Lift (5/16&quot; x 2 1/2&quot; x 31 17/32&quot;)</td>
</tr>
<tr>
<td></td>
<td>Optional Blades: Medium Lift, High Lift &amp; Mulching</td>
</tr>
<tr>
<td>Blade Bearing</td>
<td>Sealed Ball Bearings</td>
</tr>
<tr>
<td>Blade Bearing</td>
<td>Sealed Ball Bearings</td>
</tr>
<tr>
<td>Blade Drive Belt Tension</td>
<td>Spring Loaded Idler with Overcenter Release</td>
</tr>
<tr>
<td>Blade Overlap</td>
<td>2 1/4&quot;</td>
</tr>
<tr>
<td>Blade Spindle Speed</td>
<td>2,241 R.P.M.</td>
</tr>
<tr>
<td>Blade Tip Speed</td>
<td>18,498 F.P.M.</td>
</tr>
<tr>
<td>Deck Tires</td>
<td>18 x 9.5 Air Tire, Sealant</td>
</tr>
<tr>
<td>Deck Wheel Spindles</td>
<td>1 1/4&quot; w/Nylon Bushings</td>
</tr>
<tr>
<td>Transport Tires</td>
<td>2 each, P27560SR</td>
</tr>
<tr>
<td>Transport Locks</td>
<td>Automatic with Pull Rope Release</td>
</tr>
<tr>
<td>Hydraulic Outlets</td>
<td>1 Set Required</td>
</tr>
<tr>
<td>Deck Cylinders</td>
<td>Dual Acting</td>
</tr>
<tr>
<td>Center Deck Flex</td>
<td>10 Degrees Left To Right</td>
</tr>
<tr>
<td></td>
<td>22 Degrees Front To Back</td>
</tr>
<tr>
<td>Gauge Wheel Arms</td>
<td>1/4&quot; Wall Square Tubing</td>
</tr>
<tr>
<td>Turning Radius</td>
<td>Zero Turning Radius</td>
</tr>
<tr>
<td>Mowing Capacity</td>
<td>5.27 Acres Per Hour</td>
</tr>
<tr>
<td></td>
<td>10.54 Acres Per Hour</td>
</tr>
<tr>
<td></td>
<td>15.82 Acres Per Hour</td>
</tr>
<tr>
<td>Signal lights</td>
<td>LED</td>
</tr>
<tr>
<td>7 Pin connector</td>
<td>SAE J560 pin configuration</td>
</tr>
</tbody>
</table>

### Specification Drawing
## Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil seal leaking</td>
<td>Gearbox overfilled</td>
<td>Drain to level fill hole</td>
</tr>
<tr>
<td></td>
<td>Seals damaged</td>
<td>Replace seals</td>
</tr>
<tr>
<td></td>
<td>Grass or wire wrapped on shaft in seal area</td>
<td>Clean off wrapped material and check seals areas daily</td>
</tr>
<tr>
<td>Driveline yoke or cross failing</td>
<td>Shock load</td>
<td>Avoid hitting solid objects</td>
</tr>
<tr>
<td></td>
<td>Bottoming out</td>
<td>Shorten driveline profiles</td>
</tr>
<tr>
<td></td>
<td>Front constant velocity driveline mounted wrong</td>
<td>Be sure constant velocity joint is to tractor power take-off output shaft</td>
</tr>
<tr>
<td></td>
<td>Folding mower with drive engaged</td>
<td>Never fold mower decks with power take-off engaged</td>
</tr>
<tr>
<td></td>
<td>Needs lubrication</td>
<td>Lubricate every 25 hours</td>
</tr>
<tr>
<td>Bent driveline (NOTE: driveline should be repaired or replaced if bent)</td>
<td>Contacting drawbar</td>
<td>Reposition drawbar</td>
</tr>
<tr>
<td></td>
<td>Bottoming out</td>
<td>Shorten driveline profiles</td>
</tr>
<tr>
<td>Driveline telescoping profile failing</td>
<td>Shock load</td>
<td>Avoid hitting solid objects</td>
</tr>
<tr>
<td>Driveline telescoping profile wearing</td>
<td>Needs lubrication</td>
<td>Lubricate every 50 hours</td>
</tr>
<tr>
<td>Unable to turn sharply with mower engaged</td>
<td>Front constant velocity driveline mounted wrong</td>
<td>Be sure constant velocity joint is attached to tractor power take-off output shaft</td>
</tr>
<tr>
<td>Blades wearing excessively</td>
<td>Cutting on sandy ground</td>
<td>Raise cutting height. Change to low lift blades</td>
</tr>
<tr>
<td></td>
<td>Contacting ground frequently</td>
<td>Raise cutting height</td>
</tr>
<tr>
<td>Blades breaking</td>
<td>Hitting solid objects</td>
<td>Avoid solid objects</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>Driveline bent</td>
<td>Replace bent drivelines</td>
</tr>
<tr>
<td></td>
<td>Blade broken or bent</td>
<td>Replace blade</td>
</tr>
<tr>
<td></td>
<td>Cross not centered with yoke</td>
<td>Disassemble and inspect for incorrectly located needles or damaged bearing cap</td>
</tr>
<tr>
<td></td>
<td>Debris in sheaves or on mower deck</td>
<td>Remove belt guard shield and clean debris from belt area and sheaves</td>
</tr>
<tr>
<td></td>
<td>Sheaves damaged or out of alignment</td>
<td>Replace sheaves or align</td>
</tr>
<tr>
<td></td>
<td>Drive belt damaged</td>
<td>Replace drive belt - check for belt contracting deck component.</td>
</tr>
<tr>
<td></td>
<td>Inadequate clearance between belt guard shields &amp; belt</td>
<td>Remove belt guard shields &amp; clean debris from belt area &amp; sheaves</td>
</tr>
<tr>
<td>Discharge openings plugged</td>
<td>Belt not installed correctly</td>
<td>Check installation of belt</td>
</tr>
<tr>
<td></td>
<td>Grass too wet</td>
<td>Wait until grass dries</td>
</tr>
<tr>
<td></td>
<td>Grass too tall</td>
<td>Raise cutting height of mower and cut grass twice</td>
</tr>
<tr>
<td></td>
<td>rpm of tractor too low</td>
<td>Mow at full throttle (540 power take-off rpm) Check power take-off speed &amp; tractor engine</td>
</tr>
<tr>
<td></td>
<td>Ground speed too fast</td>
<td>Shift transmission to a lower gear</td>
</tr>
</tbody>
</table>

Continue on next page.
## Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plugged Grooming Mower</td>
<td>Unplug and clean mower deck</td>
<td></td>
</tr>
<tr>
<td>Debris in sheave</td>
<td>Remove belt guard shields and clean sheaves</td>
<td></td>
</tr>
<tr>
<td>Low belt spring tension</td>
<td>Retighten spring take-up bolt</td>
<td></td>
</tr>
<tr>
<td>Worn belt</td>
<td>Replace belt</td>
<td></td>
</tr>
<tr>
<td>rpm of tractor too low</td>
<td>Mow at full throttle (540 power take-off rpm). Check power take-off speed &amp; tractor engine.</td>
<td></td>
</tr>
<tr>
<td>Ground speed too fast</td>
<td>Shift transmission to a lower gear</td>
<td></td>
</tr>
<tr>
<td>Blade damaged or dull</td>
<td>Sharpen &amp; balance or replace blade</td>
<td></td>
</tr>
<tr>
<td>Blade rotation wrong</td>
<td>Install correct rotation blade</td>
<td></td>
</tr>
<tr>
<td>Low lubricant level</td>
<td>Check lubricant level</td>
<td></td>
</tr>
<tr>
<td>Cutting too low</td>
<td>Raise cutting height by adjusting wheels</td>
<td></td>
</tr>
<tr>
<td>Ridges in terrain</td>
<td>Change mowing pattern</td>
<td></td>
</tr>
<tr>
<td>Fast turning speed</td>
<td>Reduce speed on turns</td>
<td></td>
</tr>
<tr>
<td>Ground speed too fast</td>
<td>Shift to a lower gear</td>
<td></td>
</tr>
<tr>
<td>Mower not level</td>
<td>Level mower</td>
<td></td>
</tr>
<tr>
<td>Dull blades</td>
<td>Sharpen blades &amp; balance or replace</td>
<td></td>
</tr>
<tr>
<td>rpm of engine too low</td>
<td>Mow at tractor’s rated power take-off rpm (540 power take-off rpm)</td>
<td></td>
</tr>
<tr>
<td>Ground speed too fast</td>
<td>Shift to a lower gear</td>
<td></td>
</tr>
<tr>
<td>Debris wrapped around mower spindles or blades</td>
<td>Clean mower</td>
<td></td>
</tr>
<tr>
<td>Tractor power take-off horse power rating too low</td>
<td>Raise cutting height of the mower and cut the grass twice. Shift to a lower gear. Use a tractor with more horsepower</td>
<td></td>
</tr>
<tr>
<td>Blades lift too high</td>
<td>Change to lower lift blades if they will cut the grass satisfactorily</td>
<td></td>
</tr>
<tr>
<td>Wire ropes are too long.</td>
<td>Shorten wire ropes. See Optional Hydraulic Transport Locks on page 34</td>
<td></td>
</tr>
<tr>
<td>Wire ropes are too short</td>
<td>Lengthen wire ropes. see Optional Hydraulic Transport Locks on page 34</td>
<td></td>
</tr>
</tbody>
</table>

### CAUTION

*Do not try to clean discharge opening when mower is running. Bodily harm may occur.*

---

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---

5/23/19

AFM4522 All-Flex Grooming Mower 315-360M
# 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>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
<th>Grade 8</th>
<th>Grade 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>in-tpi 1</td>
<td>N · m 2</td>
<td>ft-lb 3</td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
<td>ft-lb</td>
<td>mm x pitch 4</td>
<td>N · m</td>
<td>ft-lb</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
<td>8</td>
<td>16</td>
<td>12</td>
<td>M 5 X 0.8</td>
<td>4</td>
<td>3</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>M 6 X 1</td>
<td>7</td>
<td>5</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>M 8 X 1.25</td>
<td>17</td>
<td>12</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17</td>
<td>13</td>
<td>26</td>
<td>19</td>
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</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.

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### Additional Torque Values

**Blade Bolt 1/2"-20 UNF Gr 8**

Do not exceed 55 ft-lbs.

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### Tire Inflation Chart

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Inflation PSI</th>
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<tbody>
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52 AFM4522 All-Flex Grooming Mower 315-360M 5/23/19
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 Drivelines: One year Parts and Labor
Gearbox: (S/N 492051+) 2 years Parts & Labor
Hydraulic Cylinders: One year Parts and Labor.
Hoses and seals are considered wear items.
Belts, Blades & Friction Discs in Slip-Clutches: Considered wear items.
Tires: 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 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 ____________________