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All-Flex Grooming Mower
AFM3011

315-783M Operator’s Manual

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

Cover photo may show optional equipment not supplied with standard unit.

For an Operator’s Manual and Decal Kit in French or Spanish Language, please see your Land Pride dealer.

Printed 9/3/20
Machine Identification
Record your machine details in the log below. If you replace this manual, be sure to transfer this information to the new manual.

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

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<th>Model Number</th>
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Accessories

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California Proposition 65

WARNING: Cancer and reproductive harm - www.P65Warnings.ca.gov
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Printed in the United States of America.

AFM3011 All-Flex Grooming Mower 315-783M
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 smart phone, open the App, point your phone on the QR code and take a picture.

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

**Safety at All Times**

Careful operation is your best assurance against an accident.

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

**Look for the Safety Alert Symbol**

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

**Safety Precautions for Children**

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

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

**Tractor Shutdown & Storage**

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

Be Aware of Signal Words

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

- **DANGER**
  - Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- **WARNING**
  - Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
- **CAUTION**
  - Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.
Listed below 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 to tow the implement.

**Transport Safely**

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

**Tire Safety**

- Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- Always properly match the wheel size to the properly sized tire.
- 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.

**Practice Safe Maintenance**

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

**Prepare for Emergencies**

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

**Wear Personal Protective Equipment (PPE)**

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

**Avoid High Pressure Fluids**

- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- Make sure all hydraulic fluid connections are properly tightened/torqued 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.

**Use Safety Lights and Devices**

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

**Keep Riders Off Machinery**

- Never carry riders on the tractor or implement.
- Riders obstruct operator’s view and interfere with the control of the power machine.
- Riders can be struck by objects or thrown from the equipment.
- Never use tractor or implement to lift or transport riders.
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: digsafe canada.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.
Important Safety Information

Safety Labels

Your All-Flex Grooming Mower comes equipped with all safety labels in place. They were designed to help you safely operate your equipment. Read and follow their directions.

1. Keep all safety labels clean and legible.
2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.
4. Refer to this section for proper label placement. To install new labels:
   a. Clean surface area where label is to be placed.
   b. Spray soapy water onto the cleaned area.
   c. Peel backing from label and press label firmly onto the surface.
   d. Squeeze out air bubbles with edge of a credit card or with a similar type of straight edge.

**WARNING**

To Prevent Serious Injury or Death:
- Read and understand Operator’s Manual before using.
- Do not permit riders on the tractor or mower. Never carry child on tractor seat.
- Operate with guards installed and in good condition.
- Operate only with tractor equipped with ROPS and seatbelts.
- Keep away from moving parts.
- Stop engine, set brake and wait for all moving parts to stop before dismounting.
- Be sure lights and reflectors required by law are clean and in good working order before transporting.
- Do not allow children to operate mower.
- Travel with SMI and lights that follow local codes.
- Clean debris from moving area.
- Do not operate in the raised position.
- Support securely before working beneath unit.
- Review safety instructions annually.

818-558C
Warning: General Warnings (1 Place)

72274

**WARNING**

HIGH PRESSURE FLUID HAZARD

To prevent serious injury or death:
- Relieve pressure on system before repairing or 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.

838-094C
Warning: High Pressure Fluid Hazard (1 Place)
**WARNING**

NEGATIVE TONGUE WEIGHT HAZARD

Negative tongue weight can cause immediate elevation of tongue when unhitching implement.

To prevent serious injury or death:
- Always be certain implement is hitched securely to tractor drawbar before raising.
- Lower implement BEFORE unhitching.

818-019C

Warning: Negative Tongue Weight Hazard (1 Place)

---

**WARNING**

EXCESSIVE SPEED HAZARD

To Prevent Serious Injury or Death:
Do NOT exceed 20 mph maximum transport speed. Loss of vehicle control and/or machine damage can result.

818-337C

Warning: Excessive Speed Hazard (1 Place)

---

**WARNING**

To Prevent Serious Injury or Death:
- Avoid unsafe operation or maintenance.
- Do NOT operate or work on this machine without reading and understanding the Operator’s Manual.
- If manual is lost, contact your nearest dealer for a new manual.

838-293C

Warning: Read Operator’s Manual (1 Place)
Important Safety Information

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818-561C
Danger: Raised Wing Hazard (2 Places)

818-565C
Important: U-Joint Timing Instructions (1 Place)

818-130C
Warning: 540 rpm Power Take-Off Speed (1 Place)
**Important Safety Information**

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**AFM3011 All-Flex Grooming Mower 315-783M**

9/3/20

---

**CAUTION**

To Avoid Injury or Machine Damage
- Transport locks / pins must be disengaged before unfolding unit.

**818-353C**

Caution: Disengage Transport Locks (1 Place)

---

**DANGER**

ROTATING DRIVELINE - CONTACT CAN CAUSE DEATH
KEEP AWAY!
DO NOT OPERATE WITHOUT:
- All driveline guards, tractor and equipment shields in place
- Drivelines securely attached at both ends
- Driveline guards that turn freely on driveline

**818-552C**

Danger: Rotating Driveline Hazard (1 Place)

---

**WARNING**

PINCH POINT HAZARD
To prevent serious injury or death:
- Stay clear of moving parts.
- Keep others away.

**818-798C**

Warning: Pinch Point Hazard (1 Place)
Location: On Backside of Hydraulic Lift Option.
**Important Safety Information**

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

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

818-555C
Danger: Rotating Blade - Keep Away (3 Places)
Location: On Back of All Three Decks
Important Safety Information

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CAUTION

FRONT

To Avoid Injury or Machine Damage:
- Be aware - drive belt under spring tension
- When servicing machine use proper tools and equipment.
- Refer to Owner’s Manual for instructions

V-BELT INSTALLATION INSTRUCTIONS

838-345C

Caution: V-Belt Installation (2 Places)
Location: Right-Hand & Rear Deck (Beneath Belt Guard)

838-270C

Caution: V-Belt Installation (1 Place)
Location: Left-Hand Deck (Beneath Belt Guard)

DANGER

GUARD MISSING

When this is visible
DO NOT OPERATE
ENTANGLEMENT HAZARD
will cause Serious Injury or Death

818-543C

Danger: Guard Missing Hazard (6 Places)
Location: Beneath Belt Guards on All Three Decks
**Important Safety Information**

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**AFM3011 All-Flex Grooming Mower 315-783M**

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**818-187C**

Danger: Rotating Driveline Hazard (1 Place)
Location: Splitter Gearbox

---

**838-615C**

2" x 9" Amber Reflector (2 places)
Location:
Front Right Corner of the Right-Hand Deck. (Shown)
Front Left Corner of the Left-Hand Deck. (Not Shown)

---

**858-096C**

2" x 4 1/2" Amber Reflector (2 places)
Locations:
Rear Gauge Wheel Cross Bar on the right-hand deck.
Rear Gauge Wheel Cross Bar on the left-hand deck.

---

**838-614C**

2" x 9" Red Reflector (2 places)
Locations:
Light mounting brackets on the rear deck.
818-552C
Danger: Rotating Driveline Hazard (5 Places)
Location: On the Outside Shield of all Drivelines.

818-540C
Danger: Guard Missing Hazard (5 Places)
Location: On the Outside Profile of all Drivelines
Introduction

Land Pride welcomes you to the growing family of new product owners. This All-Flex 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 implement.

Application

The AFM3011 All-Flex Grooming Mower is designed and built by Land Pride to provide excellent cutting quality and performance for home owners with large well manicured estates.

The AFM3011 requires attachment to a 30-55 hp (22-41 kW) turf tractor with 540 rpm power take-off speed.

The mower offers independent deck flotation and zero turning radius due to the sleek frame design. When you need to transport from one mowing site to another the hydraulic wing cylinders will easily lift up the wing decks for a 5’-7” (1.7 m) transport width. The contour following capability, highly productive 11’ (3.35 m) cutting width, and rear discharge design of the floating decks will greatly reduce wide-area cutting times and still deliver finely groomed surfaces at mowing speeds from 2-6 mph (3-10 km/h).

See “Specifications & Capacities” on page 46 and “Features & Benefits” on page 48 for additional information and performance enhancing options.

Using This Manual

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

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

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

Terminology

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

Definitions

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

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

Owner Assistance

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

The parts on your 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 this 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 All-Flex Grooming 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: 30-55 hp (22-41 kW)
- Power take-off shaft type: 1 3/8”-6 Spline
- Power take-off speed: 540 rpm
- Hitch type: Draw bar
- Hydraulic outlet: One duplex outlet
- Electrical outlet: Seven pin outlet
- Tractor weight: See Warning below
- Positive drawbar hitch weight: 500 lbs (227 kg)
- Ballast requirements: See Warning below

**WARNING**

To avoid serious injury or death:
Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator’s Manual to determine proper weight requirements and maximum weight limitations.

![Tractor 7-Pin Electrical Outlet](image)

**Electrical Hook-up**

Refer to Figure 1-1:
The light wire harness has a round 7-pin male connector that connects to the tractor’s 7-pin electrical outlet shown above.

**Dealer Preparations**

This mower has been partially assembled at the factory. Some additional preparations will be necessary to finish assembling the implement and to attach it to the customer’s tractor. Make sure the intended tractor conforms to “Tractor Requirements” above and “Drawbar Set-Up” on page 16.

An understanding of how this implement works will aid in final assembly and setup. Read and understand the Operator’s Manual. Go through the “Pre-Assembly Checklist” on this page. To speed up the assembly task and make the job safer, have all needed parts and equipment readily at hand.

**Pre-Assembly Checklist**

- Make sure miscellaneous assembly tools are on hand:
  - Hammer, tape measure, and assortment of wrenches.
  - Forklift or chain hoist capable of lifting 2500 lbs (1130 kg)
  - Safety stands on hand.
- Have a minimum of two people available during assembly.
- Check to see if additional tractor weights are needed.
- Make sure all major components and loose parts are shipped with the machine.
- Make sure working parts move freely, bolts are tight & cotter pins are spread.
- Make sure all safety labels are correctly located and legible.
  - Make sure red and amber reflectors are correctly located and visible when machine is in transport position. Replace damaged labels.
- Make sure all lights are functioning properly.
  - Refer to “Hook-up Transport Lights”.
- Make sure transport tires are inflated to the specified air pressure.
  - Make sure all wheel bolts and axle nuts are tightened to the specified torque.

**Hardware Torque Information**

Refer to “Torque Values Chart” on page 52 to determine correct torque values for common bolts. See “Additional Torque Values” at the bottom of the chart for exceptions to standard torque values.
## Section 1: Assembly & Set-up

### Drawbar Set-Up

**Refer to Figure 1-2:**

![Diagram of Drawbar Set-Up](image)

**DANGER**

*To avoid serious injury or death:*

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

**WARNING**

*To avoid serious injury or death:*

- Do not use a tractor that is too small or too large. Small tractors can be pushed around and flipped over. Large tractors can damage the attached implement.
- Power take-off damage may occur if distances “A” and “B” are not properly maintained.

Maintain proper distance, dimension “A”, between center of drawbar hitch pin hole and end of tractor power take-off shaft.

An optional Ball Swivel Hitch is available for the Kubota B3350 tractor to help maintain power take-off to drawbar distance. Refer to “B3350 Ball Swivel Hitch Accessory” on page 32 for detailed information.

For 540 rpm power take-off shafts:

- **“A”** ......... 14”-16” (36-41 cm)
- **“B”** .......... 8”-10” (20-25 cm)
- **“C”** ......... 18”-22” (46-56 cm)

### 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 decks to the ground or lock decks in the folded position.
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.

### Hitch & Driveline Set-up

**Refer to Figure 1-3 on page 17:**

The mower is shipped with gauge wheels installed upside down on the rear deck and with tongue (#6) collapsed in transport frame (#7).

**DANGER**

*To avoid serious injury or death:*

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

1. Place support stand (#22) under transport frame (#7) behind bolts (#8).
2. Adjust park jack (#1) until all the tongue weight is resting on support stand (#22).
3. Remove existing nuts (#3), lock washers (#4), bolts (#2) and driveline pivot bracket (#11). Keep removed hardware and bracket for reuse.

**IMPORTANT:** The drivelines must be lubricated before putting them into service. Refer to “Lubrication Points” on page 40.

**NOTE:** Make sure lock collar in bearing (#18) is facing rearward toward gearbox input shaft (#15).

**NOTE:** Support stand (#27) is customer supplied.
4. Pull telescoping hitch (#6) out until bolt holes at the back of the telescoping hitch align with bolt holes in transport frame (#7).
5. Find 3/4"-10 x 5" GR5 bolts (#8), lock washers (#9), and hex nuts (#10) in the shipping bag.
6. Attach telescoping hitch (#6) to transport frame (#7) with bolts (#8), lock washers (#9), and nuts (#10). Tighten nuts to the correct torque.
7. Install driveline pivot bracket (#11) as shown with 3/4"-10 GR5 bolts (#2), lock washers (#4), and hex nuts (#3). Tighten nuts to the correct torque.
8. Loosen bolts (#5) until pivot bracket (#11) and flange bearing (#18) rotates freely.
9. Attach driveline (#16) to the splitter gearbox input shaft (#15) as follows:
   a. Align U-joint end of driveline (#16) in-time with U-joints on the splitter box output shafts.
   b. Pulling back on pull collar (#14) and push yoke end of driveline (#16) onto the splitter gearbox input shaft (#15).
   c. Release pull collar (#14) and continue to push the yoke onto the shaft until the collar snaps in place.
   d. Pull back and forth on driveline (#16) to verify it is locked onto input shaft (#15).
10. On the backside of flange bearing (#18) is a locking collar (#21). Turn locking collar counterclockwise and remove locking collar from the bearing.
11. Insert locking collar (#21) on jack shaft (#17) with the locking side facing bearing (#18).
12. Fully insert jack shaft (#17) through hole in bearing (#18).
13. Rotate locking collar (#21) clockwise to tighten the collar against bearing (#18). Tighten set screw in the locking collar against jack shaft (#17).
14. Attach driveline (#20) to jack shaft (#17) as follows:
   a. Make sure U-joint (#25) is in-time with U-joint (#26). If the two U-joints are not in-time, disassemble the two driveline halves and reassemble them with the two U-joints in-time.
   c. Pulling back on pull collar (#24) and push the yoke onto jack shaft (#17).
   d. Release pull collar (#24) and continue to push yoke end onto jack shaft (#17) until the pull collar snaps in place.
   e. Pull back and forth on driveline (#20) to verify it is locked onto jack shaft (#17).
15. Attach driveline shield chain (#12) to spacer (#13) by looping the chain around the spacer and hooking the chain to itself.
16. Adjust park jack (#1) until all weight is removed from support stand (#22). Remove support stand from under transport frame (#7).

**IMPORTANT:** Make sure U-joints on drivelines (#16 & #20) are in-time with the three driveline U-joints on the splitter gearbox output shafts. Refer to “U-Joint Timing” on page 28.
Section 1: Assembly & Set-up

Tractor Hook-up

Refer to to Figure 1-4:

**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.

- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.

1. Make certain park jack (#1) is attached to hitch mount (#15) and secured with retaining pin (#2).
2. Back tractor within close proximity of clevis (#3).
4. Raise or lower park jack (#1) to align clevis (#3) with tractor drawbar. Drawbar should fit between lower and upper clevis plates.
5. Back tractor up to mower hitch until holes in tractor drawbar and clevis (#3) align.

**NOTE:** Hitch pin (#4) and hitch pin keeper (#5) are customer supplied.

7. Attach mower with a customer supplied 3/4” hitch pin (#4) and hitch pin keeper (#5). Always use a hitch pin that contains a safety locking device to prevent the hitch pin from coming out.
8. Retract park jack (#1) until weight of mower is fully removed from the park jack. Remove park jack and store on storage tube (#14).
9. Attach safety chain (#8) to the tractor. Adjust chain length to remove all slack except what is necessary to permit turning corners with the mower hooked-up. Lock chain hook securely onto the chain.

Driveline Hook-up

Refer to to Figure 1-4:

**DANGER**

To avoid serious injury or death:

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

- 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 use a power take-off adapter. The adapter will increase strain on the tractor’s power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor’s power take-off shield.

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

**WARNING**

To avoid serious injury or death:

- Always shut tractor down using “Tractor Shutdown Procedure” provided in this manual before servicing, adjusting, cleaning, or maintaining this implement.

- 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.
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” on pages 40-45.

1. Pull back on outer driveline yoke lock collar (#7) and slide yoke over the tractor’s power take-off shaft.
2. Release lock collar and continue to push yoke onto the power take-off shaft until pull collar snaps in place.
3. Move driveline back and forth to ensure both ends are secured. Reattach any end that is loose.
4. Attach driveline shield chain (#16) to tractor frame.

**Hydraulic Hook-up**

**Refer to Figure 1-5:**

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

1. Cut plastic ties securing hydraulic hoses (#9) to hose support loop (#12). Be careful not to cut plastic tie securing the ten linchpins (#5).
2. Route hoses (#9) through hose support loop (#12) and connect to tractor remote outlets. Quick disconnect hydraulic fittings for your tractor are supplied attached to the hoses.
3. Locate carbon steel wire (#17) attached between wing cylinders (#16). This wire secures the wing decks in the folded position during shipment. Remove and dispose wire.

**Hook-up Transport Lights**

**Refer to Figure 1-5:**
The lead wiring harness (#10) is equipped with a round 7-pin male connector for connecting to the tractor’s 7-pin electrical outlet shown in Figure 1-1 on page 15.

1. Route lead wire harness (#10) through spring hose loop (#12) as shown.
2. Connect wire harness (#10) to the tractor’s 7-pin electrical outlet.

**Refer to Figure 1-6:**

3. Check 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 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 of the implement.

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 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 (#13) shown in Figure 1-5 to wire harness (#1, #2, & #4) and hydraulic hoses (#9) as needed to secure them in place.
Pull Rope Hook-up
Skip to “Gauge Wheel Assembly” below if mower is equipped with the “Optional Hydraulic Wing Locks”.

Refer to Figure 1-7:
The operator will need to be able to access pull rope (#3) from the tractor seat when folding and unfolding decks.

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

Gauge Wheel Assembly

Refer to Figure 1-8:
Rear deck gauge wheels (#1) are mounted in the carrier frame support tubes (#4) upside down.

1. On the right-hand side, remove and discard nut (#6) and bolt (#7).
2. Remove gauge wheel (#1).

Refer to Figure 1-9:
3. Check location of spacers (#2 & #3) on the wing decks. Note how many and what sizes are above and below the gauge wheel support tubes (#4).
4. Raise decks up to their locked transport position. Refer to “Fold Mower Decks” on page 28.
5. Shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 16.

Refer to Figure 1-8:
6. Place same size and number of spacers (#2 & #3) on gauge wheel spindle (#1) and insert gauge wheel spindle into support tube (#4) as shown.
7. Place remaining spacers (#2 & #3) on spindle (#1) above support tube (#4).

Refer to Figure 1-5 on page 19:
8. Secure gauge wheel with linchpins (#5) supplied attached to hose support loop (#12).

Refer to Figure 1-8 & Figure 1-9:
9. Insert linchpin (#5) from the front and flip clasp shut over spindle (#1) toward the back. Attaching the linchpin in this manner will prevent vegetation from catching on the clasp and flipping it open while traveling forward.
10. Repeat steps 1-9 on the left-hand side.
11. Start tractor and lower all mower decks fully down. Decks should be supported by the gauge wheels with gauge wheels resting on the ground.
13. Remove and discard bolts (#7) from the remaining eight gauge wheels and replace with remaining linchpins (#5). Insert linchpins from the front and flip clasp shut over spindles (#1) towards the back.
Purge Hydraulic System
Refer to Figure 1-10:

⚠️ 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 purging. If any of the decks raise or lower in a jerking motion, then purge 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 rear deck cylinder (#3).

2. Support cylinders vertically with rod end up.
3. Use tractor hydraulic system to fully retract both wing cylinders and rear deck cylinder.
4. On base end of each cylinder, loosen hose fitting (#5) and apply hydraulic pressure until air-free oil leaks from fitting and then tighten fitting.
5. Use tractor hydraulic system to fully extend both wing cylinders and rear deck cylinder.
6. On rod end of each cylinder, loosen hose fitting (#4) and apply hydraulic pressure until air free oil leaks from fitting and then tighten fitting.
7. Re-pin all clevises. Secure pins with cotter pins (#6) by bending one or more legs of the cotter pin.
8. Slowly cycle all decks to transport position while checking to make sure hydraulic hoses are not pinched in the process.
Center & Wing Deck Cutting Height

**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:

- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- Lock decks in the folded-up position before making adjustments to the deck cutting height.

**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.

**IMPORTANT:** Before continuing, read instructions on raising and lowering decks starting with “U-Joint Timing” on page 28.

Cutting height adjustments should be made with mower hooked to the tractor that will be used for field operations or to a tractor having the same drawbar height.

Tire pressure will affect mowing height. Make sure air pressure in the transport tires is correct. See “Tire Inflation Chart” on page 52.

Refer to Figure 2-1:

1. Lower mower decks onto a flat, level surface. Refer to “Unfold Mower Decks” on page 28.
2. Shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 16.
3. At the front of all three decks, measure (dimension A) from top of deck to ground.
4. Use (dimensions A), with “Cutting Height Chart” on this page to determine what cutting height (dimension B) the mower decks are currently set.
5. If all three decks are set at the correct cutting height, skip to “Belt Tension” on page 24. Otherwise, continue with step 6 below.
6. Raise mower decks up to their locked transport position. See “Fold Mower Decks” on page 28.
7. Shut tractor down with decks locked in the folded-up position. Refer to “Tractor Shutdown Procedure” on page 16.

Refer to Figure 2-2 on page 23:

**NOTE:** The gauge wheel will need to be removed from its support tube to add or subtract spacers below the support tube.

8. Remove linchpin (#4), upper spacers (#6) and gauge wheel (#12) from support tube (#7).
9. Add or remove spacers (#6) to or from gauge wheel spindle (#5) an amount equal to the number of inches the gauge wheel will need to be adjusted. Adding spacers will raise cutting height and removing spacers will lower cutting height.
10. Insert gauge wheel spindle (#5) in spindle tube (#7).
11. Add remaining spacers (#6) to spindle (#5) and secure spindle (#5) with linchpin (#4). Make sure linchpin is inserted from the front. Refer to “IMPORTANT” linchpin note on this page.
12. Flip locking clasp on linchpin (#4) shut.
13. Repeat steps 8-12 for all other gauge wheels (#12) that need adjusting.
14. When finished, all ten gauge wheels will, in most cases, have an equal number of spacers below the spindle tubes. See note below.

**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 an equal number of spacers on all gauge wheels.
Refer to Figure 2-3:

**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.

15. Remove wire retainer pins (#10) and adjust support stands (#11) down. Reinsert wire retainer pins. Make sure wire retainers are caught over the pin ends.

16. Start tractor and lower mower to field position making sure all folding cylinders are fully extended. Refer to “Unfold Mower Decks” on page 28.

17. Back mower until support stands are vertical and rod tubes (#8) are raised fully up.


19. Adjust front of rear deck height to match deck height at the back of the rear deck:
   a. On the right-hand side, remove linchpin (#2).
   b. Add or remove c-spacers (#3) below support tube (#8) at groove (#9). Hold c-spacers below support tube (#8) above the groove, turn open end of c-spacer to align with the groove, and slide c-spacer on or off the groove.
   c. Add or remove c-spacers (#3) to groove (#9) until the thickness of spacers (#3) below support tube (#8) equals the thickness of spacers in step 9.
   d. Install remaining c-spacers (#3) above support tube (#8) and secure with linchpin (#2).
   e. Repeat steps b-d above on the left-hand side of the rear deck.

20. Restart tractor and raise decks up until they are secured with the transport locks.


22. Remove wire retainer pins (#10) and adjust support stands (#11) up. Reinsert wire retainer pins. Make sure wire retainers are caught over the pin ends.

23. Start tractor and lower mower to field position making sure all folding cylinders are fully extended. Refer to “Unfold Mower Decks” on page 28.


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

26. Additional adjustments may be required after a test run of the mower.
Belt Tension

Refer to Figure 2-4:

⚠️ 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.

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

**Excessive Belt Tension May Lead to:**
- Premature belt and drive component damage.
- A safety hazard to the operator or bystanders.

**Not Enough Belt Tension May Lead to:**
- Premature belt damage due to excessive slipping.

1. To check belt tension, apply force at arrow “A” with a tension tester until belt (#4) has deflected 1/4". The force required to get this deflection should range from 7 to 10 lbs (3.2 to 4.5 kg). Be sure the belt is positioned in all the pulley grooves correctly.
   - To increase spring tension, loosen nut (#6) and tighten nut (#5) until correct spring tension is reached. Tighten nut (#6) when finished.
   - To decrease spring tension, loosen nut (#5) until correct spring tension is reached. Tighten nut (#6) when finished.

2. If eyebolt (#1) does not have enough adjustment, the following must be done:
   a. Loosen nut (#5) until all spring tension is removed.
   b. Reconnect chain (#3) to eye bolt (#1) at a different length.
      - To increase spring tension, shorten chain (#3).
      - To decrease spring tension, lengthen chain (#3).
   c. Tighten nut (#5) until force at arrow “A” is correct. Nut (#6) may need to be loosening to reach this force.
   d. Once the correct force is reached, tighten nut (#6).
Optional Hydraulic Transport Locks

Refer to Figure 2-5:
With transport locking cylinder (#6) fully retracted, transport locks (#1) should be fully seated in locking lugs (#2) with slight slack in aircraft cables (#5). If needed, shorten or lengthen cables (#5).

NOTE: Figure 2-5 is shown with mower decks down for clarity. Mower decks will need to be folded up and locked in the transport to check adjustment of transport locks.

1. Fully retract deck folding cylinders (#7) and transport lock cylinder (#6). Make sure all decks are folded up and locked.
2. Check slack in all three aircraft cables (#5):
   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 locking lugs (#2).
3. If needed, adjust aircraft cables (#5) as follows:
   a. Loosen cable clamps (#4A & #4B), and tighten or loosen aircraft cable (#5) to create a slight slack in the 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).
Section 3: Operating Instructions

Introduction

Hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training involved in the operation, transport, maintenance and storage of the 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 & Set-up**, page 15
• **Section 2: Adjustments**, page 22
• **Section 3: Operating Instructions**, page 26
• **Section 5: Maintenance & Lubrication**, page 35

Perform the following inspections before using your mower.

Operating Checklist

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<th>Check</th>
<th>Ref.</th>
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<td></td>
<td>Read and follow all Safety Rules carefully. Refer to &quot;Important Safety Information&quot;.</td>
<td>1</td>
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<td>Make sure all safety labels are in place. Refer to &quot;Safety Labels&quot;.</td>
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<td></td>
<td>Make sure there are no hydraulic leaks. Refer to &quot;Avoid High Pressure Fluids Hazard&quot;.</td>
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<td>Read and follow hook-up &amp; preparation instructions. See &quot;Section 1: Assembly &amp; Set-up&quot;.</td>
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<td>Make sure the hitch safety chain is securely attached to the mower hitch and tractor.</td>
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<td>Make a thorough examination of the main driveline installation. Check driveline connections between gearboxes and between tractor power take-off and mower gearbox.</td>
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<td>Read and make all required adjustments. Refer to &quot;Section 2: Adjustments&quot;.</td>
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<td></td>
<td>Read and follow all maintenance instructions. See &quot;Section 5: Maintenance &amp; Lubrication&quot;.</td>
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<td>Inspect blades for wear and sharpness.</td>
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<td>Read and follow all lubrication instructions. Refer to &quot;Lubrication Points&quot;.</td>
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<td>Check mower initially and periodically for loose bolts and pins. Refer to &quot;Torque Values Chart&quot; for tightness.</td>
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<td></td>
<td>Check tire pressure. Refer to &quot;Tire Inflation Chart&quot;.</td>
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General Safety Information

⚠️ 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.
• Keep all persons away from the blades while they are rotating. Never place hands or feet under the deck with blades rotating or when tractor engine is running. Do not operate implement or tractor if bystanders are in the area.
• Do not transport without transport locks securely engaged. Do not walk or work underneath a raised wing unless all transport locks are securely engaged. Wings can drop suddenly if a transport lock is not securely engaged.
• 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.
• 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.
• Never carry riders on the implement or tractor. Riders can obstruct the operator’s view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.
• 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.
• Always disengage tractor PTO before raising mower decks to transport position to avoid power train damage, injury from thrown objects, or blade contact.
• Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
Section 3: Operating Instructions

- Slow down when traveling over rough or hilly terrain. Shift to a lower gear to maintain engine rpm while traveling slower.
- Do not operate and/or travel across inclines where tractor and/or implement can rollover. Consult your tractor’s manual for acceptable inclines the tractor is capable of traveling across.
- 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.
- 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.
- 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.
- Avoid catching hydraulic hoses on brush, posts, tree limbs, and other protrusions that could damage and/or break them.
- Use mower to cut only turf grasses. Cutting other materials can damage drive components, cutting blades, and deck.
- 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.

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.

2. Check tractor safety equipment making sure it is in good working condition.
3. Make sure hitch safety chain is securely attached to mower and tractor.
4. Grease driveline shaft and all other grease fittings.
5. Check oil level in gearboxes. See “4-Way Gearbox” and “Mower Deck Gearbox” on page 42.
6. Check all plugs and caps in gearboxes to make certain they have been replaced and tightened properly.
8. Check mower blades for damage and sharpness. See “Blade Inspection” on page 36.
9. Make sure blades are installed properly on each deck with cutting edge leading in rotation. See “Blade Removal and Installation” on page 36.
10. Make sure all blade bolts are tight. Know which bolts have left-hand and which have right-hand threads. See “Blade Removal and Installation” on page 36.
11. Make sure all bolts and nuts are tight.
12. Make certain all guards and shields are in place and secure including power take-off and driveline shields.
13. Slowly cycle all decks to transport position while checking to make sure hydraulic hoses and wire harness are not pinched in the process.
14. Check lights to make sure they are hooked-up correctly and functioning:
   a. Check all electrical connections on the wire harness. See “Hook-up Transport Lights” on page 19.
   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 lights. Replace module if needed. Modules are available in amber, red, and black.
   d. Make necessary repairs and repeat step 14.
15. Clear area to be mowed of objects and debris that might be picked up and thrown by the mower blades.
16. Refer to your tractor Operator’s Manual for engaging and disengaging the power take-off. Operate power take-off at 540 rpm only.
17. In case of emergency, learn how to stop tractor and mower quickly.
U-Joint Timing
Refer to Figure 3-1:

**IMPORTANT:** The six driveline U-joints must be in-time with each other to avoid excessive vibration and damage to the yokes and crosses.

Check U-joint timing. All six U-joints must be vertical at the same time. Disconnect U-joints that are out-of-time and reconnect them in-time with the other U-joints.

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

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 when using the hydraulic control lever to raise and lower the mower decks.

**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 3-2:
1. Fully retract hydraulic cylinders (#2) to remove all deck weight pressing against transport locks (#1).
2. Pull transport lock rope (#3) toward the tractor to disengage transport locks (#1).
3. Hold locks (#1) in this disengaged position until all three mower decks have unfolded enough to allow transport locks to clear locking lugs (#4).
4. Extend hydraulic cylinders (#2) to their maximum stroke length. This will allow maximum flexibility of the decks as they float over the terrain.

Unfold Decks with Optional Hydraulic Locks
Refer to Figure 3-3:
1. Use tractor’s hydraulic control lever to fully retract all hydraulic cylinders (#2 & #3) and to remove all deck weight pressing against transport locks (#1).
2. After hydraulic cylinders (#2 & #3) have fully retracted, extend all hydraulic cylinders. The transport lock cylinder (#3) will extend first and will open all three transport locks (#1) before hydraulic cylinders (#2) start to extend and unfold the decks.
3. Continue to extend cylinders (#2) to their maximum stroke length. This will allow maximum flexibility of the decks as they float over the terrain.
Transporting

**WARNING**

To avoid serious injury or death:

- Do not transport without transport locks securely engaged. Do not walk or work underneath a raised wing unless all transport locks are securely engaged. Wings can drop suddenly if a transport lock is not securely engaged.
- 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.
- When implement is wider than the tractor, take care to make sure it does not make contact with oncoming traffic and roadside obstructions.
- 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. If transporting on a public roadway, attach a slow moving vehicle sign to the back of the rear deck. See “Slow Moving Vehicle Sign” on this page.
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 (32 km/h). 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 transporting on public roadways.
5. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely. Use lights on the mower to make yourself more visible on roadways.
6. Shift tractor to a lower gear when transporting over rough or hilly terrain.

---

**Slow Moving Vehicle Sign**

Refer to Figure 3-4:

**IMPORTANT:** Do not bend spring steel mounting bracket supporting the slow moving vehicle sign. This bracket is purposely angled back to cause the sign to be vertical when the rear deck is folded-up for transporting on public roads.

1. Relocate slow moving vehicle sign (#1) from the back of the tractor to mounting bracket (#2) on the rear deck.
2. If needed, a slow moving vehicle sign can be purchased from your nearest Land Pride dealer. Refer to “Slow Moving Vehicle Sign Accessory” on page 33.

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**Driveline Angle**

Refer to Figure 3-5:

The main driveline is equipped with an equal angle driveline that allows the unit to run at angles up to 80 degrees with no vibration.

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

Refer to Figure 3-6:

1. See “Long-Term Storage” on page 39 before parking mower for a long period.
2. Shutdown tractor before dismounting. Refer to “Tractor Shutdown Procedure” on page 16.
3. Move hydraulic control levers back and forth several times to relieve all hydraulic pressure in hydraulic hoses and at the couplers.
4. Remove park jack (#1) from storage mount (#14) and attach to mount (#15). Secure with detent pin (#2). Make sure detent pin is fully inserted.
5. Adjust park jack (#1) until hitch weight is removed from tractor drawbar.
6. Unhook wire harness (#10) from the tractor electrical outlet. Coil wire harness up and store on the spring hose loop (#12). Keep wire harness pin connector out of the dirt.
7. Unhook hydraulic hoses (#9) from tractor duplex outlet. Insert couplers through spring hose loop to keep couplers out of the dirt.
8. Remove driveline safety chain (#16) from the tractor.
9. Pull back on driveline lock collar (#7) and pull driveline (#6) from tractor power take-off shaft.
10. Collapse driveline (#6) by pushing tractor end of driveline toward the splitter gearbox.
11. Store driveline (#6) so that the yoke end is not in the dirt.
12. Unhook transport safety chain (#8) from the tractor and stow on the hitch.
13. Remove hitch pin keeper (#5) and hitch pin (#4).
14. Start tractor and slowly drive forward several feet while watching to make sure no mower components are connected to or catching on the tractor.
16. Replace hitch pin (#4) in mower hitch clevis (#3). Secure hitch pin keeper (#5).

Refer to Figure 3-4 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 Grooming Mower to your tractor.

With the tractor’s park brake engaged and the power take-off disengaged, start tractor. Using the tractor’s hydraulic control lever, retract hydraulic deck-lift cylinders all the way in. If pull ropes are included, pull ropes to release the transport locks. If optional hydraulic transport locks are included, the locks will release when lowering the decks. With the same control lever used to retract the cylinders, slowly extend the cylinders to lower your mowing decks from transport position to working position on the ground. Having lowered the decks, shut the tractor and mower down before dismounting following “Tractor Shutdown Procedure” on page 16. Dismount tractor and verify mower cutting height. If needed, adjust mower cutting height. Refer to “Center & Wing Deck Cutting Height” on page 22.

Before starting the tractor, make sure the mower is properly attached to the draw bar with all decks resting on the ground, tractor is in park or park brakes are engaged, tractor’s power take-off drive is disengaged, driveline is securely coupled to the tractor’s power take-off shaft, hydraulic hoses are properly attached to the tractor’s hydraulics, and the light harness is connected to the tractor’s electrical outlet.

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 down following “Tractor Shutdown Procedure” on page 16. Make necessary repairs and/or adjustments before continuing on.

Start tractor and set the engine throttle speed at a low idle. Engage tractor’s power take-off drive. If everything is running smoothly, slowly increase engine rpm until full power take-off operating speed of 540 rpm is reached. If everything is still running as it should, then return engine to low idle and disengage power take-off. Under no circumstances should you ever raise the mower decks into transport position with the power take-off drive engaged. Personal injury and equipment damage could result.

You should now be ready to move to your mowing site to begin mowing. On the roadway, transport in such a manner that faster moving vehicles can easily see you and pass you safely. Reduce your speed when transporting 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 lights and appropriate reflective devices to provide adequate warning to pedestrians and other vehicle operators when transporting 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 mowing and clear it of hazards and foreign objects before you start mowing. Never assume the area is clear. Mow only in areas you are familiar with and are free of foreign objects. In the event you do strike an object, stop mower and tractor immediately to inspect and make any necessary repairs to the mower before resuming operation. Remove or clearly mark the struck object to prevent hitting it again. It really pays to inspect a new area and to develop a safe plan before mowing.

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 dikes to prevent hanging up the tractor and mower. Slow down in turns and avoid sharp turns if at all possible. Make wide turns when possible. Operators must plan ahead and choose a cutting pattern that allows for wider turns.

Grass is best cut when it is dry. Mowing wet grass can cause plugging resulting in grass clumps behind the mower. Grass should be mowed frequently as shorter clippings deteriorate faster. 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.

You will need to maintain a ground speed between 2-6 mph (3-10 km/h) and 540 rpm power take-off speed to produce a clean cut. 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, the tractor tires will roll grass down resulting in an uneven cut. When the grass fails to rebound, you may try reversing the direction of cut and/or double cut to achieve the desired finish.

Now that you are prepared and well briefed, you may begin mowing. Set the tractor throttle at an idle. Engage power take-off to start blades rotating. Begin mowing at a slow forward speed and shift gears up until desired ground speed is achieved with throttle set at 540 rpm power take-off speed. Mower blades will cut better at 540 rpm power take-off speed than at a reduced throttle speed. After mowing the first 50 feet, stop and check to see that the mower is adjusted properly.

With a little practice you will be pleased with what you and your Land Pride All-Flex Grooming 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 shut the tractor and mower down before dismounting. Refer to “Tractor Shutdown Procedure” on page 16.
B3350 Ball Swivel Hitch Accessory
Refer to Figure 4-1:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>315-799A</td>
<td>Ball Swivel Hitch Assembly</td>
</tr>
</tbody>
</table>

The Ball Swivel Hitch Assembly is designed for the B3350 Kubota tractor with its 2" x 1 1/4" (5 cm x 3 cm) straight drawbar and drawbar hitch hole located 7 3/4" (20 cm) from end of tractor power take-off shaft.

This hitch option moves the hitch hook-up point back an additional 6 1/4" (16 cm) from the tractor power take-off shaft and lowers the top of the drawbar down an additional 3/8" (9 mm). For additional information, refer to “Drawbar Set-Up” on page 16.

Ball Swivel Hitch Installation
Refer to Figure 4-2:
1. Insert bolt (#1A) through washer (#2A), top mount (#3), hitch hole in drawbar (#11), and bottom swivel mount (#4). Secure bolt (#1A) with nylock nut (#5A). Draw nut up snug, do not tighten at this time.
2. Insert bolts (#1B) through washers (#2B), top mount (#3), and bottom swivel mount (#4). Secure bolts (#1B) with nylock nuts (#5B).
3. Tighten nylock nuts (#5A & #5B) to the correct torque for a 3/4"-10 GR5 bolt. See “Torque Values Chart” on page 52.

Ball Swivel Hitch Hook-up to AFM
Refer to Figure 4-2:
1. Make certain park jack (not shown) is attached to the mower hitch and secured with its retaining pin.
2. Back tractor within close proximity of clevis (#12).
4. Raise or lower park jack to align clevis (#12) slightly above ball swivel (#13).
5. Back tractor up to mower hitch until hole in ball swivel (#13) and clevis plates (#12 & #14) are aligned.
7. Make final adjustments to the park jack as needed.
8. Insert 1" bolt (#6) through washer (#7), upper clevis plate (#12), hitch spacer (#8), ball swivel (#13), and lower clevis plate (#14).
9. Secure bolt (#6) with washer (#9) and nylock nut (#10). Draw nylock nut up snug, do not torque tight.
10. Continue with steps 8-9 on page 18.
Hydraulic Wing Unlock Option

Refer to Figure 4-3:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>315-722A</td>
<td>Hydraulic Wing Unlock Mount Assembly</td>
</tr>
</tbody>
</table>

The Hydraulic Wing Unlock Kit replaces the pull rope. With this kit, the decks can be unlocked hydraulically eliminating the need for the pull rope.

Complete assembly instructions are included with this kit. Basic connection points to the AFM are identified below:

1. Some component assembly of the accessory kit is required.
2. Hydraulic mounting plate (#1) attaches to the existing front pivot plate (#2).
3. Tees (#3) attach to existing manifold (#4).
4. Deck unlock cable springs (#5) replace the pull ropes and attach to the deck lock-up latches where the pull ropes were attached.
5. Decal (#6) attaches to the existing front pivot plate (#2) facing rearward.

Slow Moving Vehicle Sign Accessory

Refer to Figure 4-4:

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.

<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>

37431
Cutter Blade Accessory Kits

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
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 (Standard)
Land Pride’s medium lift blades are great when horsepower is a concern. They produce 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 Kit Part Numbers

<table>
<thead>
<tr>
<th>All-Flex Grooming Mower Blades</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Lift Blade Kit for 1 unit (9 blades)</td>
<td>315-172A</td>
<td>AFM 11FT MOWER BLADE KIT-LL</td>
</tr>
<tr>
<td>Medium Lift Blade Kit for 1 unit (9 blades) (Standard)</td>
<td>315-173A</td>
<td>AFM 11FT MOWER BLADE KIT-ML</td>
</tr>
<tr>
<td>High Lift Blade Kit for 1 unit (9 blades)</td>
<td>315-174A</td>
<td>AFM 11FT MOWER BLADE KIT-HL</td>
</tr>
<tr>
<td>Mulching Blade Kit for 1 unit (9 blades)</td>
<td>315-466A</td>
<td>AFM 11FT MULCHING MOWER BLADE KIT</td>
</tr>
</tbody>
</table>
Section 5: Maintenance & Lubrication

Maintenance

⚠️ 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:

• 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.
• Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
• 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.
• 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.

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.

1. Frequently inspect mower for loose bolts and nuts. See “Blade Removal and Installation” on page 36 to identify left-hand threaded bolts. Tighten all hardware as indicated in “Torque Values Chart” on page 52.
2. Check drive belt tension after several hours of mowing. Refer to “Belt Tension” on page 24.
3. Lubricate components as listed under “Lubrication Points” on page 40.
4. Always maintain proper air pressure in the tires. Refer to “Tire Inflation Chart” on page 52.
5. Replace worn, damaged or illegible safety labels by obtaining new labels from your Land Pride dealer. See Information about “Safety Labels” on page 6.

Hydraulic System

⚠️ 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.

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

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

Check for signs of damaged or worn hydraulic hoses, fittings and cylinders before each use of the cutter. Replace damaged components as needed.

Transport Tires

⚠️ WARNING
To avoid serious injury or death:

• Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment. When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
• 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. Do not over inflate tires.
• Do not weld on or heat a rim. High heat can weaken and/or warp the rim and damage the tire. Air pressure inside the tire can increase enough to cause an explosion.

Heavy-duty tire sealant has been added in transport tires to reduce air loss from punchers due to nails/thorns etc.

1. Check tires for low air pressure, missing nuts, missing lug bolts, wear, separated rubber, and bent, broken, or cracked wheel rims.
2. Inflated air-filled tires to the proper pressure. Refer to “Tire Inflation Chart” on page 52.
Servicing Mower Blades

**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.
- Keep all persons away from the blades while they are rotating. Never place hands or feet under the deck with blades rotating or when tractor engine is running. Do not operate implement or tractor if bystanders are in the area.
- 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.

**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.

**Blade Inspection**
**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 worn beyond use.
- **Bent, deformed, or cracked blades** should be removed from unit and discarded. DO NOT attempt to straighten a blade for reuse.

**Blade Removal and 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 on page 37:**
1. Verify blade rotation and bolt thread type (right-hand or left-hand) before loosening center blade bolts and removing blades to be sharpened or replaced.

**NOTE:** Blade bolt on the left-hand deck is right-hand threads. Blade bolts on the right-hand and rear decks are left-hand threads.

**Blade Sharpening**

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

**Refer to Figure 5-3 on page 37:**
1. If blade cutting edge is dull or nicked, it should be replaced or sharpened.
2. Clean blade, blade washer and mounting surface of all debris before replacing or sharpening.

**IMPORTANT:** Always install blade with cutting edge facing direction of rotation and wing tips pointing up.
3. Grind cutting edge at the same bevel as the original. See Figure 5-4. Sharpen only the top of the cutting edge to maintain sharpness.
Refer to Figure 5-5:
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.

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

**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.

**NOTE:** The V-belt drive arrangements are also on the decals located on the top of the mower decks.

Refer to Figure 5-6:
1. Raise decks up to their locked transport position. Refer to “Fold Mower Decks” on page 28.
2. Shut tractor down before dismounting. Refer to “Tractor Shutdown Procedure” on page 16.
3. Remove the two whiz nuts (#6) from under each of the three decks. Keep the six whiz nuts for reuse.
4. Lower mower decks until all gauge wheels are resting on the ground.
5. Shut tractor down before dismounting following “Tractor Shutdown Procedure” on page 16.
6. Remove right-hand and the left-hand belt covers.

Refer to Figure 5-7 & Figure 5-8:
7. Refer to Figure 5-7 & Figure 5-8: Disengage belt tension by turning nuts (#1) on spring loaded eye bolts (#2) until belt tensions are released.
8. Remove carriage bolts (#4) and channel support tubes (#5).
9. Remove existing belt (#3) and install new belt (#3) as shown in Figure 5-7 or Figure 5-8 depending on blade rotation.
10. Tighten eyebolt nut (#1) to apply tension to the new belt (#4). Refer to “Belt Tension” on page 24 for correct tensioning instructions.
11. Reinstall channel support tubes (#5) with existing carriage bolts (#4). Make sure the carriage bolts are fully inserted through the support tubes and holes in the deck tops.
12. Raise decks up to their locked transport position. Refer to “Fold Mower Decks” on page 28.

Refer to Figure 5-6:
14. Secure all six carriage bolts (#4) with existing whiz nuts (#6). Tighten whiz nuts to the correct torque for a 1/2"-13 GR5 bolt.
15. Lower mower decks until all gauge wheels are resting on the ground.
17. Install all belt covers and secure in place with existing hardware.

Driveline Protection
Refer to Figure 5-9:

**DANGER**
To avoid serious injury or death:
- 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.
Section 5: Maintenance & Lubrication

• 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.

Drive components are protected from shock loads with a shearbolt on the three deck drivelines. The shearbolt is located on the end of the driveline connected to the spindle gearboxes. The bolt is designed to shear off when the blade impacts objects the mower is not designed to cut through.

Avoid shear bolt failure by engaging the power take-off slowly at low engine rpm. See your Land Pride dealer when replacing shear bolts. Using a higher grade shear bolt may result in drive train and/or tractor power take-off damage.

See table below for correct shear bolt and locknut part numbers. Draw locknut up snug, do not tighten.

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 36.
3. Inspect mower for loose, damaged or worn parts and adjust or replace as needed.
4. Lubricate as noted in “Lubrication Points” on page 40.
5. A light coat of oil or grease may be applied to the deck and to any exposed hydraulic cylinder rods to minimize oxidation.
6. Release spring tension from drive belt. Refer to “Blade Removal and Installation” on page 36.
7. 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.
8. Replace all damaged or missing decals.
9. Store mower on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer mower life.
10. Store driveline end off the ground.

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 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.
**Main Driveline**
Zerks: 4 places  
Type of Lubrication: Multi-purpose Grease  
Quantity = 4-6 pumps

**Jack Shaft Driveline**
Zerk: 1 place  
Type of Lubrication: Multi-purpose Grease  
Quantity = 4-6 pumps

**Three Deck Drivelines**
Zerks: 2 places  
Type of Lubrication: Multi-purpose Grease  
Quantity = 4-6 pumps
**Jack Shaft Driveline - Inner Profile Zerk**

Unhook main driveline from tractor power take-off shaft and pull trunnion support all the way rearward to expose profile zerk.

Zerk: 1 place  
Type of Lubrication: Multi-purpose Grease  
Quantity = 4-6 pumps

---

**All Deck Drivelines - Inner Profile Zerks**

Zerks: 2 places  
Type of Lubrication: Multi-purpose Grease  
Quantity = 2-3 pumps

---

**All Deck Drivelines - Shear Bolt Zerk**

Zerk: 1 place  
Type of Lubrication: Multi-purpose Grease  
Quantity = 1 pump
Section 5: Maintenance & Lubrication

**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 plug/dipstick (#1). Wipe oil from dipstick and screw dipstick in without tightening. Unscrew dipstick and check oil on dipstick. If oil is near or below the bottom of the dipstick, add recommended gear lube through the dipstick hole until oil reaches the full mark (#2). Reinstall plug/dipstick and tighten.

Type of Lubrication: Gear Lube EP 80-90W
Quantity = Fill until oil reaches full mark (#2). Do not overfill.

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

---

**Mower Deck 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.

Remove side oil level plug. If oil is below bottom of plug hole, add recommended gear lube through top dipstick hole until oil flows out of oil level plug hole. Reinstall and tighten oil level plug (#2) and vented dipstick (#1).

Type of Lubrication: 80-90W EP Gear Lube
Quantity = Fill until oil begins to flow out oil level plug hole in gearbox. Do not overfill.

**NOTE:** Use a suction or siphon pump to drain gearboxes of oil when there is not an oil drain plug.
Gauge Wheel Spindle Bushings
Zerks: 6 places
Type of Lubrication: Multi-purpose Grease
Quantity: As required

Gauge Wheel Axle Roller Bearing
Zerks: 10 places
Type of Lubrication: Multi-purpose Grease
Quantity: As required
Section 5: Maintenance & Lubrication

Transport Locks
Zerks: 3 places
Type of Lubrication: Multi-purpose Grease
Quantity = As required

Deck Lift Arm Pivot Bushings
Zerks: 4 places
Type of Lubrication: Multi-purpose Grease
Quantity = As required

Floating Link Pivot Pin
Zerks: 2 places
Type of Lubrication: Multi-purpose Grease
Quantity = As required
Rear Deck Pivot Half Clamps
Zerks: 2 places
Type of Lubrication: Multi-purpose Grease
Quantity = As required

Rear Deck Carrier Rods
Location: 2 rods
Type of Lubrication: Spray Lubricant
Quantity = As required

Transport Wheel Bearings
Zerks: 2 places
Type of Lubrication: Multi-purpose Grease
Quantity = As required
## AFM3011 All-Flex Grooming Mowers

### Specifications & Capacities

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge type</td>
<td>Rear</td>
</tr>
<tr>
<td>Cutting width</td>
<td>132 (3.35) in (m)</td>
</tr>
<tr>
<td>Overall width</td>
<td>135 (3.42) in (m)</td>
</tr>
<tr>
<td>Transport height</td>
<td>76 (1.93) in (m)</td>
</tr>
<tr>
<td>Transport width</td>
<td>67 (1.7) in (m)</td>
</tr>
<tr>
<td>Overall length</td>
<td>136 (3.45) in (m) in transport position</td>
</tr>
<tr>
<td>Weight</td>
<td>1,952 (885) lbs (kg)</td>
</tr>
<tr>
<td>Hitch Weight</td>
<td>374 (170) lbs (kg)</td>
</tr>
<tr>
<td>Tractor horsepower</td>
<td>Minimum 30-55 (22-41) hp (kW)</td>
</tr>
<tr>
<td>Hitch</td>
<td>Pull type with safety tow chain</td>
</tr>
<tr>
<td>Tongue support</td>
<td>2,000 (907) lb (kg) Capacity Screw Jack</td>
</tr>
<tr>
<td>Gearbox support</td>
<td>1/4 (6) Steel plate</td>
</tr>
<tr>
<td>Gearboxes</td>
<td>540 rpm (1)-splitter gearbox and (3)-wing gearboxes</td>
</tr>
<tr>
<td>Gearbox lubrication</td>
<td>Gear lube 80-90W EP</td>
</tr>
<tr>
<td>Main driveline (1)</td>
<td>Category III equal angle</td>
</tr>
<tr>
<td>Deck drivelines (3)</td>
<td>Category III with shearbolt protection</td>
</tr>
<tr>
<td>Cutting height</td>
<td>1 to 5 1/2 in 1/2 in 1/2 (25 to 140 in 13 increments)</td>
</tr>
<tr>
<td>Deck size and quantity</td>
<td>Three each at 48 (1.22)</td>
</tr>
<tr>
<td>Deck overlap</td>
<td>6 (15) in (cm)</td>
</tr>
<tr>
<td>Deck thickness</td>
<td>10 (3.4) ga (mm)</td>
</tr>
<tr>
<td>Blade drive belt</td>
<td>1 per deck - B-section V belt</td>
</tr>
<tr>
<td>Drive belt tensioning</td>
<td>Spring loaded idler</td>
</tr>
<tr>
<td>Blade bearings</td>
<td>Sealed ball bearings</td>
</tr>
<tr>
<td>Blade size and type 3 each per deck</td>
<td>Standard medium lift blades - 1/4 x 2 1/2 x 16 7/8 (6 x 64 x 430)</td>
</tr>
<tr>
<td>Optional blades</td>
<td>Low lift, high lift, &amp; mulching</td>
</tr>
<tr>
<td>Blade overlap</td>
<td>3/16 (5) in (mm)</td>
</tr>
<tr>
<td>Blade tip speed</td>
<td>16,000 (4900) fpm (mpm)</td>
</tr>
<tr>
<td>Deck tires</td>
<td>Ten each, 10&quot; x 3.25&quot;, solid rubber with caged roller bearing</td>
</tr>
<tr>
<td>Deck wheel spindles</td>
<td>1&quot; (25.4) in (cm) with nylon bushings</td>
</tr>
<tr>
<td>Transport tires</td>
<td>Two each, 18&quot; x 9.5&quot;, sealant with tapered roller bearings</td>
</tr>
<tr>
<td>Transport locks</td>
<td>Automatic transport locks with pull rope release</td>
</tr>
<tr>
<td>Wing flex</td>
<td>Twenty three degrees left to right</td>
</tr>
<tr>
<td></td>
<td>Twenty two degrees front to back</td>
</tr>
<tr>
<td>Rear deck flex</td>
<td>Thirteen degrees front to back</td>
</tr>
<tr>
<td>Hydraulic outlets</td>
<td>One set required</td>
</tr>
<tr>
<td>Deck lift cylinders</td>
<td>Dual acting</td>
</tr>
<tr>
<td>Gauge wheel arms</td>
<td>Square tubing with 1/4&quot; (6 mm) wall</td>
</tr>
<tr>
<td>Turning radius</td>
<td>Zero turning radius</td>
</tr>
<tr>
<td>Mowing capacity</td>
<td>@ 2 mph = 2.68 acres per hour (3.2 km/h = 1.1 hectares per hour)</td>
</tr>
<tr>
<td></td>
<td>@ 4 mph = 5.37 acres per hour (6.4 km/h = 2.2 hectares per hour)</td>
</tr>
<tr>
<td></td>
<td>@ 6 mph = 8.10 acres per hour (9.7 km/h = 3.3 hectares per hour)</td>
</tr>
<tr>
<td>Signal lights</td>
<td>Incandescent bulb</td>
</tr>
<tr>
<td>7 pin connector</td>
<td>SAE J560 pin configuration</td>
</tr>
</tbody>
</table>
Section 6: Specifications & Capacities

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AFM3011 All-Flex Grooming Mower 315-783M
### AFM3011 All-Flex Grooming Mowers

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counter blade rotation on center and right-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 or bogged down by cut grass. Prevents robbing tractor horsepower.</td>
</tr>
<tr>
<td>5’-7” (1.7 m) Transport width</td>
<td>Meets most city/county codes for transport width.</td>
</tr>
<tr>
<td>6” (15 cm) Deck overlap</td>
<td>Eliminates skipping when going into a tight turn.</td>
</tr>
<tr>
<td>10’-11” (3.5 m) Cutting width three 48” decks</td>
<td>Sized right for golf courses, cities, schools. Small decks give excellent flexibility.</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. AFM virtually becomes a zero turn mower. (Oversized tires may not allow this.)</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>Optional Hydraulic Transport Locks</td>
<td>Transport locks can be released easily from the tractor seat while operating the same tractor control lever that folds and unfolds the mower decks. Eliminates pulling a rope to release transport locks.</td>
</tr>
<tr>
<td>18” Transport tires with tapered roller bearings</td>
<td>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 one bolt.</td>
</tr>
<tr>
<td>Back wheels on side decks in line with transportation tires</td>
<td>Allows tighter turns without skips.</td>
</tr>
<tr>
<td>Zero turn radius</td>
<td>Sleek frame design allows operator to make tighter turns without leaving windrows or skips. The AFM virtually becomes a Zero Turn Mower.</td>
</tr>
<tr>
<td>Rigid rear side deck tires.</td>
<td>Rigid wheel yokes holds hills and slopes better.</td>
</tr>
<tr>
<td>10” Solid rubber deck tires</td>
<td>Solid rubber won’t go flat.</td>
</tr>
<tr>
<td>Square tube gauge wheel arms</td>
<td>Gives the mower 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 does not meet ANSI specifications.</td>
</tr>
<tr>
<td>Rear discharge</td>
<td>Even dispersal, discharged items are aimed downward. No rear chains are needed, which tend to clump damp grass.</td>
</tr>
<tr>
<td>Rounded front deck edges with no protruding skid shoe</td>
<td>Helps protect trees and other obstacles.</td>
</tr>
<tr>
<td>1/4” (6 mm) Front edge &amp; all-welded seams</td>
<td>Provides extra durability.</td>
</tr>
<tr>
<td>Cat. 3 equal angle main driveline</td>
<td>Equal angle main driveline allows for tighter turns without harming U-joints in driveline.</td>
</tr>
<tr>
<td>Shear bolt protection</td>
<td>Guards against premature gearbox failure. Protects mower deck spindles.</td>
</tr>
<tr>
<td>Cat. 3 wing drivelines</td>
<td>Designed to withstand start-up torques.</td>
</tr>
<tr>
<td>ABS guards</td>
<td>No paint to scratch off, lighter weight, no rattling or rust.</td>
</tr>
<tr>
<td>Heavy gearbox mounts on center and side mower decks</td>
<td>Handles start-up torque better.</td>
</tr>
<tr>
<td>Gearbox Horsepower Rating</td>
<td>30-55 hp (22-41 kw)</td>
</tr>
<tr>
<td>Gearbox warranty</td>
<td>Three year limited gearbox warranty. Demonstrates our confidence in the gearbox's quality and lasting performance.</td>
</tr>
<tr>
<td>Sealed for life blade spindle bearings</td>
<td>No blade spindles to grease means no guards to remove to grease blade spindles.</td>
</tr>
</tbody>
</table>
## AFM3011 All-Flex Grooming Mowers

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<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 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>High blade tip speed</td>
<td>Lifts grass up for a clean cut and efficient discharge of material.</td>
</tr>
<tr>
<td><strong>Choice of Blade</strong></td>
<td><strong>Benefits</strong></td>
</tr>
<tr>
<td>(Medium lift standard)</td>
<td>Low Lift - Highly recommended in sandy soils where lifting isn’t crucial. Disturbs the soil very little, allowing blades to wear longer.</td>
</tr>
<tr>
<td>Others available thru parts dept.</td>
<td>Medium Lift - Medium suction for lifting grass. Requires less horsepower than high lift.</td>
</tr>
<tr>
<td></td>
<td>High Lift - Greatest suction for lifting grass before cutting. Can take higher horsepower in tall dense grass. Not recommended in sandy soils.</td>
</tr>
<tr>
<td></td>
<td>Mulching - Perfect for leaf mulching.</td>
</tr>
</tbody>
</table>
## 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 seal areas daily.</td>
</tr>
<tr>
<td>Drivelines vibrate excessively while operating</td>
<td>One or more driveline U-joints are not in-time with the others.</td>
<td>Aline all six driveline U-joints to be in-time with each other. Refer to “U-Joint Timing” on page 28.</td>
</tr>
<tr>
<td>Driveline yoke or cross is 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>Deck drivelines are not timed</td>
<td>Attach all three deck drivelines to the splitter gearbox with yokes timed. See “U-Joint Timing” on page 28.</td>
</tr>
<tr>
<td></td>
<td>Folding mower with power take-off 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>Contacting 3-point arms</td>
<td>Raise or remove 3-point arms.</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>Maximum turning angle of the Equal Angle Driveline is 80°.</td>
<td>Do not make a turn that will cause driveline angle to exceed 80° off centerline of tractor. Refer to “Driveline Angle” on page 29.</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></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 contacting deck component.</td>
</tr>
<tr>
<td>Excessive vibration</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>
</tbody>
</table>
## Section 8: Troubleshooting

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<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Belt slipping</strong></td>
<td>Plugged grooming mower</td>
<td>Unplug and clean mower deck.</td>
</tr>
<tr>
<td></td>
<td>Debris in sheave</td>
<td>Remove belt guard shields and clean sheaves.</td>
</tr>
<tr>
<td></td>
<td>Low belt spring tension</td>
<td>Tighten spring take-up bolt.</td>
</tr>
<tr>
<td></td>
<td>Worn belt</td>
<td>Replace belt.</td>
</tr>
<tr>
<td><strong>Patches of uncut grass</strong></td>
<td>Tractor rpm 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>
<tr>
<td></td>
<td>Blade damaged or dull</td>
<td>Sharpen &amp; balance or replace blade.</td>
</tr>
<tr>
<td></td>
<td>Incorrect belt tension</td>
<td>Re-tension belt. Refer to “Belt Tension” on page 24.</td>
</tr>
<tr>
<td></td>
<td>Blade rotation wrong</td>
<td>Install correct rotation blade.</td>
</tr>
<tr>
<td><strong>Gearbox noisy</strong></td>
<td>Low lubricant level</td>
<td>Check lubricant level.</td>
</tr>
<tr>
<td><strong>Blades scalping grass</strong></td>
<td>Cutting too low</td>
<td>Raise cutting height by adjusting wheels.</td>
</tr>
<tr>
<td></td>
<td>Ridges in terrain</td>
<td>Change mowing pattern.</td>
</tr>
<tr>
<td></td>
<td>Fast turning speed</td>
<td>Reduce speed on turns.</td>
</tr>
<tr>
<td><strong>Uneven cut</strong></td>
<td>Ground speed too fast</td>
<td>Shift to a lower gear.</td>
</tr>
<tr>
<td></td>
<td>Mower not level</td>
<td>Level mower.</td>
</tr>
<tr>
<td></td>
<td>Incorrect belt tension</td>
<td>Re-tension belt. Refer to Belt Tension on page 24.</td>
</tr>
<tr>
<td></td>
<td>Dull blades</td>
<td>Sharpen blades &amp; balance or replace.</td>
</tr>
<tr>
<td><strong>Tractor loaded down by mower</strong></td>
<td>Tractor rpm too low</td>
<td>Mow at tractor’s rated power take-off rpm (540 power take-off rpm).</td>
</tr>
<tr>
<td></td>
<td>Ground speed too fast</td>
<td>Shift to a lower gear.</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>Debris wrapped around mower</td>
<td>Clean mower.</td>
</tr>
<tr>
<td></td>
<td>spindle or blades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tractor power take-off</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>
</tr>
<tr>
<td>horsepower rating too low</td>
<td>Blades lift too high</td>
<td>Change to lower lift blades if they will cut the grass satisfactorily.</td>
</tr>
<tr>
<td><strong>Optional hydraulic transport locks won’t release properly</strong></td>
<td>Wire ropes too long</td>
<td>Shorten wire ropes. See “Optional Hydraulic Transport Locks” on page 25.</td>
</tr>
<tr>
<td><strong>Optional hydraulic transport locks won’t seat in locking lugs properly</strong></td>
<td>Wire ropes too short</td>
<td>Lengthen wire ropes. see “Optional Hydraulic Transport Locks” on page 25.</td>
</tr>
</tbody>
</table>
## Torque Values Chart for Common Bolt Sizes

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Bolt Head Identification</th>
<th>Bolt Size (Metric)</th>
<th>Bolt Head Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Grade 2</td>
<td>Class 5.8</td>
<td>Grade 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N · m ft-lb</td>
<td></td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4 5.6</td>
<td>11 8</td>
<td>16 12</td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5 6</td>
<td>13 10</td>
<td>18 14</td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15 11</td>
<td>24 17</td>
<td>33 25</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17 13</td>
<td>26 19</td>
<td>37 27</td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>27 20</td>
<td>42 31</td>
<td>59 44</td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>31 22</td>
<td>47 35</td>
<td>67 49</td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>43 32</td>
<td>67 49</td>
<td>95 70</td>
</tr>
<tr>
<td>7/16&quot; - 20</td>
<td>49 36</td>
<td>75 55</td>
<td>105 78</td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td>66 49</td>
<td>105 76</td>
<td>145 105</td>
</tr>
<tr>
<td>1/2&quot; - 20</td>
<td>75 55</td>
<td>115 85</td>
<td>165 120</td>
</tr>
<tr>
<td>9/16&quot; - 12</td>
<td>95 70</td>
<td>150 110</td>
<td>210 155</td>
</tr>
<tr>
<td>9/16&quot; - 18</td>
<td>105 79</td>
<td>165 120</td>
<td>235 170</td>
</tr>
<tr>
<td>5/8&quot; - 11</td>
<td>130 97</td>
<td>205 150</td>
<td>285 210</td>
</tr>
<tr>
<td>5/8&quot; - 18</td>
<td>150 110</td>
<td>230 170</td>
<td>325 240</td>
</tr>
<tr>
<td>3/4&quot; - 10</td>
<td>235 170</td>
<td>360 265</td>
<td>510 375</td>
</tr>
<tr>
<td>3/4&quot; - 16</td>
<td>260 190</td>
<td>405 295</td>
<td>570 420</td>
</tr>
<tr>
<td>7/8&quot; - 9</td>
<td>225 165</td>
<td>585 430</td>
<td>820 605</td>
</tr>
<tr>
<td>7/8&quot; - 14</td>
<td>250 185</td>
<td>640 475</td>
<td>905 670</td>
</tr>
<tr>
<td>1&quot; - 8</td>
<td>340 250</td>
<td>875 645</td>
<td>1230 910</td>
</tr>
<tr>
<td>1&quot; - 12</td>
<td>370 275</td>
<td>955 705</td>
<td>1350 995</td>
</tr>
<tr>
<td>1-1/8&quot; - 7</td>
<td>480 355</td>
<td>1080 795</td>
<td>1750 1290</td>
</tr>
<tr>
<td>1-1/8&quot; - 12</td>
<td>540 395</td>
<td>1210 890</td>
<td>1960 1440</td>
</tr>
<tr>
<td>1-1/4&quot; - 7</td>
<td>680 500</td>
<td>1520 1120</td>
<td>2460 1820</td>
</tr>
<tr>
<td>1-1/4&quot; - 12</td>
<td>750 555</td>
<td>1680 1240</td>
<td>2730 2010</td>
</tr>
<tr>
<td>1-3/8&quot; - 6</td>
<td>890 655</td>
<td>1990 1470</td>
<td>3230 2380</td>
</tr>
<tr>
<td>1-3/8&quot; - 12</td>
<td>1010 745</td>
<td>2270 1670</td>
<td>3680 2710</td>
</tr>
<tr>
<td>1-1/2&quot; - 6</td>
<td>1180 870</td>
<td>2640 1950</td>
<td>4290 3160</td>
</tr>
<tr>
<td>1-1/2&quot; - 12</td>
<td>1330 980</td>
<td>2970 2190</td>
<td>4820 3560</td>
</tr>
</tbody>
</table>

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

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

### Additional Torque Values

| Blade Bolt 1/2"-20 UNF Gr 8 | Torque bolt to 75 ft-lbs (102 Nm) |

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## Tire Inflation Chart

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Inflation</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 x 9.50 - 8 x 4-Ply</td>
<td>24 psi (165 kPa)</td>
</tr>
</tbody>
</table>
Warranty

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

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

**Gearbox:** Three 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 original purchase.

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