All-Flex Grooming Mowers
AFM4214 and AFM4216

315-587M
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 Language, please see your Land Pride dealer.

Printed 10/01/19
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.

| Model Number | |
| Serial Number | |
| Machine Height | |
| Machine Length | |
| Machine Width | |
| Machine Weight | |
| Delivery Date | |
| First Operation | |
| Accessories | |

Dealer Contact Information

Name: _____________________________
Street: ___________________________
City/State: _______________________
Telephone: _______________________ 
Email: ___________________________ 

California Proposition 65

WARNING: Cancer and reproductive harm - www.P65Warnings.ca.gov
# Table of Contents

## Important Safety Information .................................................. 1
  Safety at All Times ................................................................. 1
  Look For The Safety Alert Symbol ........................................... 1
  Safety Labels ............................................................................. 6

## Introduction .............................................................................. 15
  Application .................................................................................. 15
  Using This Manual ...................................................................... 15
  Owner Assistance ......................................................................... 15

## Section 1: Assembly & Set-Up .................................................... 16
  Tractor Requirements ................................................................. 16
  Electrical Hook-up ...................................................................... 16
  Drawbar Set-Up .......................................................................... 16
  Dealer Preparations ..................................................................... 17
  Assembly Checklist ....................................................................... 17
  Hardware Torque Information .................................................... 17
  Tractor Shutdown Procedure ....................................................... 17
  Tractor Hook-Up ......................................................................... 18
  Main Driveline Hook-up ............................................................... 18
  Hydraulic Hook-Up ...................................................................... 19
  Hook-up LED Lights ..................................................................... 19
  Check Driveline Collapsible Length ............................................ 20
  Pull Rope Hook-Up ...................................................................... 21
  Gauge Wheel Assembly ............................................................... 21
  Bleed Folding Hydraulics ............................................................ 22

## Section 2: Operating Instructions ................................................ 23
  Introduction .................................................................................. 23
  Tractor & Mower Inspection ......................................................... 23
  Safety ........................................................................................... 24
  U-Joint Timing ............................................................................. 24
  Fold Mower Decks ...................................................................... 25
  Unfold Mower Decks ................................................................. 26
  Unfold Decks With Pull Rope Locks ............................................ 26
  Unfold Decks With Hydraulic Locks ........................................... 26
  Transporting .................................................................................. 27
  Constant Velocity Driveline Angle .............................................. 27
  Unhook Mower ............................................................................ 28
  Special Operating Instructions ..................................................... 28
  General Operating Instructions .................................................... 29

## Section 3: Adjustments ................................................................. 30
  Center Deck Height Adjustments ................................................ 30
  Belt Tension ................................................................................ 31
  Optional Hydraulic Transport Locks ............................................. 32

## Section 4: Accessories ............................................................... 33
  Ball Swivel Hitch .......................................................................... 33
  Slow Moving Vehicle Sign (Accessory) ........................................ 33
  Cutting Blades ............................................................................ 33
  Low Lift Blades (Standard) .......................................................... 33
  Medium Lift Blades ..................................................................... 33
  High Lift Blades .......................................................................... 33
  Mulching Blades ......................................................................... 33

## Section 5: Maintenance & Lubrication .......................................... 34
  Maintenance ................................................................................ 34
  Servicing Mower Blades ............................................................. 34
  Blade Inspection ......................................................................... 34
  Blade Removal & Installation ...................................................... 35
  Blade Sharpening ........................................................................ 36
  V-Belt Installation ....................................................................... 36
  Driveline Protection ..................................................................... 37
  Clutch Run-In .............................................................................. 37
  Disassembly & Assembly ............................................................. 37
  Long-Term Storage ....................................................................... 38
  Tires With Air Pressure ............................................................... 38
  Lubrication Points ....................................................................... 39
  Driveline Constant Velocity Shaft ............................................. 39
  Driveline Shafts ......................................................................... 39
  Inner Tube of Driveline .............................................................. 39
  Wheel Support Bushings ............................................................. 40
  Wheel Bearings (15” Gauge Wheels) .......................................... 40
  Wheel Bearings (18” Gauge Wheels) .......................................... 40
  Wheel Bushings (Transport Hubs) ................................................ 40
  Blade Spindle Bearings ............................................................... 41
  Tool Bar to Deck Pivot Pin .......................................................... 41
  Transport Locks .......................................................................... 41
  Wing Deck Pivot Bushings .......................................................... 42
  Rear Deck Pivot Half Clamps ....................................................... 42
  Wing Flex Pivot Lugs ................................................................... 42
  4-Way Gearbox ......................................................................... 43
  Mower Deck Gearbox ............................................................... 43

## Section 6: Specifications & Capacities ......................................... 44

## Section 7: Features & Benefits ..................................................... 48

## Section 8: Troubleshooting .......................................................... 49

## Section 9: Torque & Tire Inflation Charts ..................................... 51

## Section 10: Warranty ................................................................. 53

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See previous page for Table of contents.

Manual QR Locator
The QR (Quick Reference) codes on the cover and below will take you to the Parts Manual. Download the appropriate App on your camera phone, open the App, point your phone on the QR code, and take a picture.

Dealer QR Locator
The QR code below will link you to available dealers for Land Pride products.
These are common practices that may or may not be applicable to the products described in this manual.

**Safety at All Times**

Careful operation is your best insurance against an accident.

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

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

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

△ Do not operate the equipment while under the influence of drugs or alcohol as they impair the ability to safely and properly operate the equipment.

△ The operator should be familiar with all functions of the tractor and attached implement, and be able to handle emergencies quickly.

△ Make sure all guards and shields are in place and secured before operating implement.

△ Keep all bystanders away from equipment and work area.

△ Start tractor from the driver’s seat with hydraulic controls in neutral.

△ Operate tractor and controls from the driver’s seat only.

△ Never dismount from a moving tractor or leave tractor unattended with engine running.

△ Do not allow anyone to stand between tractor and implement while backing up to implement.

△ Keep hands, feet, and clothing away from power-driven parts.

△ While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.

△ Do not turn tractor so tight as to cause hitched implement to ride up on the tractor’s rear wheel.

△ Store implement in an area where children normally do not play.

**Look For The Safety Alert Symbol**

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

**Be Aware of Signal Words**

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

![WARNING](https://example.com)
Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

![CAUTION](https://example.com)
Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

**Safety Precautions for Children**

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

△ Never assume children will remain where you last saw them.

△ Keep children out of the work area and under the watchful eye of a responsible adult.

△ Be alert and shut the implement and tractor down if children enter the work area.

△ Never carry children on the tractor or implement. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the power machine.

△ Never allow children to operate the power machine, even under adult supervision.

△ Never allow children to play on the power machine or implement.

△ Use extra caution when backing up. Before the tractor starts to move, look down and behind to make sure the area is clear.

**Tractor Shutdown & Storage**

△ If engaged, disengage power take-off.

△ Park on solid, level ground and lower implement to ground or onto support blocks.

△ Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.

△ Relieve all hydraulic pressure to auxiliary hydraulic lines.

△ Wait for all components to stop before leaving operator’s seat.

△ Use steps, grab-handles and skid-resistant surfaces when getting on and off the tractor.

△ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.
These are common practices that may or may not be applicable to the products described in this manual.

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

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

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

**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.
- Use properly grounded electrical outlets and tools.
- Use correct tools and equipment for the job that are in good condition.
- Lower implement to the ground and follow all shutdown procedures before leaving the operator’s seat to perform maintenance.
- Allow equipment to cool before working on it.
- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- Do not grease or oil implement while it is in operation.
- Inspect all parts. Make certain parts are in good condition & installed properly.
- Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement in a way which will adversely affect its performance.
- Remove buildup of grease, oil, or debris.
- Remove all tools and unused parts from equipment before operation.
These are common practices that may or may not be applicable to the products described in this manual.

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

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

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

**Use 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.

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

**Keep Riders Off Machinery**
- Never carry riders or use tractor to lift or transport individuals.
- There is not a safe place for a person to ride.
- Riders obstruct operator’s view and interfere with the control of the power machine.
- Riders can be struck by objects or thrown from the equipment.
Important Safety Information

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

Avoid crystalline Silica (quartz) Dust

Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis).

There are guidelines which should be followed if crystalline silica (quartz) is present in the dust.

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

Handle Chemicals Properly

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

Dig Safe - Avoid Underground Utilities

- USA: Call 811
  CAN: digsafecanada.ca
  Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- Be sure to ask how close you can work to the marks they positioned.

Dig Safe - Avoid Underground Utilities

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

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

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

---

818-558C
Warning: Serious Injury
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

WARNING
RAISED WING HAZARD
KEEP AWAY

To prevent serious injury or death:
- Do not transport without transport locks securely engaged
- Do not walk or work underneath raised wing unless it is securely locked.

818-561C
Danger: Raised Wing

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

818-339C
Warning: High Pressure

818-565C
Important: U-Joint Timing Instructions

818-560C
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.

818-187C
Danger: Shield Missing
Location: Splitter gearbox

818-337C
Warning: Max Trans Speed

818-130C
Warning: 540 rpm
**Danger: Entanglement**

**Caution: Engage Transport Locks**

**818-351C**

**Caution: Disengage Transport Locks/Pins**

**818-353C**

**Danger: Entanglement**

**818-552C**
Important Safety Information

818-555C
Danger: Rotating Blade
Location: (3-Places) On Back of All Three Decks

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

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

**CAUTION**

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.

818-513C

Caution: V-Belt Installation
Location: (2-Places) Beneath guard on center and right-hand decks

818-514C

Caution: V-Belt Installation
Location: (1-Place) Beneath guard on left-hand deck

**DANGER**

GUARD MISSING

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

818-543C

Danger: Guard Missing
Location: (6-Places)
Beneath both guards on all three decks
838-614C
2" x 9" (5 cm x 23 cm) Red Reflector
Location:
(2 Places on back of wing deck guards)
(2 Places on center deck, back side of light brackets)

858-096C
2" x 4 1/2" (5 x 11 cm) Amber Reflector
(4 places on front of left-hand & right-hand decks)
Danger: Entanglement

818-552C

Danger: Guard Missing

818-540C
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 product.

Application
The AFM4214 and AFM4216 All-Flex Mowers are designed and built by Land Pride to provide excellent cutting quality and performance on lush type turf grasses that are located on expansive and well manicured areas such as sports fields, theme parks, fairways, turf farms, and large estates.

They will deliver excellent performance when attached to 40-70 hp (30-52 kW) tractors with 540 rpm power take-off speed and pull-type draw bar. The hydraulic cylinders will easily lift up the wing decks for a 7'-11" (2.41 m) or 8-5" (2.57 m) overall transport width when moving from one site to another on public streets or on right-of-ways.

The contour following capability, highly productive cutting widths and rear discharge design of the floating cutting decks will greatly reduce wide-area cutting times and still deliver finely groomed surfaces at mowing speeds from 2-6 mph (3-10 kph). The AFM4214 and AFM4216 All-Flex Mower can be ordered with slip-clutch or conventional wing driveline configurations and a choice of 15 inch or 18 inch deck tires.

See “Specifications & Capacities” on page 44 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 the operator with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
• The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
• To order a new Operator’s or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

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

Definitions

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

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

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

Further Assistance
Your dealer wants you to be satisfied with your new 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 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

**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 horsepower should be within the range noted below. Tractors outside the horsepower range must not be used.

- Horsepower Rating: 40-70 hp (30-52 kW)
- Rear power take-off Shaft Type: 1 3/8"-6 Spline
- Rear power take-off Speed: 540 rpm
- Hitch Type: Draw Bar
- Hydraulic Outlets: One Duplex Outlet
- Electrical Hook-up (See Figure 1-1): 7-Pin Outlet
- Tractor Weight: AFM4214: Approximately 540 lbs (245 kg), AFM4216: Approximately 580 lbs. (263 kg)

Electrical Hook-up

Refer to Figure 1-1:

The LED wire harness is equipped with a 7-way round pin connector for connecting to the tractor’s 7-pin electrical outlet shown in Figure 1-3.

**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:

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

The 14” (36 cm) between center of drawbar hitch pin hole to end of power take-off shaft and 8” (20 cm) from top of drawbar hitch to center of power take-off shaft must be maintained.

**Drawbar Set-Up**

Refer to Figure 1-2:

**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:

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

The 14” (36 cm) between center of drawbar hitch pin hole to end of power take-off shaft and 8” (20 cm) from top of drawbar hitch to center of power take-off shaft must be maintained.
Dealer Preparations
This mower has been partially assembled at the factory. Some additional preparations will be necessary to finish assembling the mower and to attach it to the customer's tractor. Ensure that the intended tractor conforms to the requirements stated under "Tractor Requirements" on this page.

Assembly Checklist

<table>
<thead>
<tr>
<th>✔</th>
<th>Check</th>
<th>Ref.</th>
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<tbody>
<tr>
<td></td>
<td>Make sure miscellaneous assembly tools are on hand:</td>
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<td></td>
<td>Hammer, tape measure, and assortment of wrenches.</td>
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<td></td>
<td>Have a forklift or hoist with properly sized chains and safety</td>
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<td>stands on hand capable of lifting 2500 lbs.</td>
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<td></td>
<td>Have a minimum of two people available during assembly.</td>
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<td></td>
<td>Check to see if auxiliary tractor weights are needed.</td>
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<td></td>
<td>Check to make sure all fasteners &amp; pins are installed in the correct</td>
<td>Parts Manual</td>
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<td></td>
<td>location. Refer to the Parts Manual if unsure. <strong>NOTE:</strong> Remember</td>
<td></td>
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<td></td>
<td>location of a part or fastener if removed. Keep parts separated.</td>
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<tr>
<td></td>
<td>Make sure all major components and loose parts are shipped with the</td>
<td>Operator's Manual</td>
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<td></td>
<td>machine.</td>
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<td></td>
<td>Make sure working parts move freely, bolts are tight &amp; cotter pins</td>
<td>Operator's Manual</td>
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<td></td>
<td>are spread.</td>
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<td>Make sure all safety labels are correctly located and legible.</td>
<td>Page 6</td>
</tr>
<tr>
<td></td>
<td>Make sure red and amber reflectors are correctly located and visible</td>
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<tr>
<td></td>
<td>when machine is in transport position. Replace damaged labels.</td>
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<tr>
<td></td>
<td>80-90 EP Gear Lube must be added to the gearbox &amp; motor as indicated</td>
<td>Page 39</td>
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<td>in the &quot;Maintenance &amp; Lubrication&quot;.</td>
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<td>Make sure all tires are inflated to the specified psi air pressure.</td>
<td>Page 51</td>
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<td>Make sure all wheel bolts and axle nuts are tightened to the specified</td>
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Hardware Torque Information
When tightening hardware, refer to "Torque Values Chart for Common Bolt Sizes" on page 51 to determine standard torque values. Refer to "Additional Torque Values" at the bottom of the chart for exceptions to the standard torque values.

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

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

**DANGER**

To avoid serious injury or death:

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

Refer to Refer to Figure 1-3:

1. Make certain park stand (#1) is attached to the mower hitch and secured with retaining pin (#2).
2. Check drawbar set-up. Refer to “Drawbar Set-Up” on page 16.
3. Back tractor within close proximity of clevis (#3).
4. Raise or lower park stand (#1) to align clevis (#3) with tractor drawbar. Drawbar should fit between lower and upper plates of clevis.
5. Back tractor up to mower hitch until holes in tractor drawbar and clevis are aligned.
6. Attach mower with a 3/4” hitch pin (#4) and flat washer(#5) as shown. Secure hitch pin with hairpin (#6). Always use a hitch pin that contains a safety locking device to prevent it from coming out.
7. Retract park stand (#1) until weight of mower is fully removed from the stand. Remove stand and store on storage tube (#7) located on divider gearbox shield.
8. Attach safety chain (#8) on the hitch to the tractor. Adjust chain length to remove all slack except what is necessary to permit turning of mower. Lock chain hook securely onto the chain.

Main Driveline Hook-up

**DANGER**

To avoid serious injury or death:

* All guards and shields must be installed and in good working condition while operating the implement.
* Do not use a power take-off adapter. The adapter will increase strain on the tractor’s power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor’s power take-off shield.

**WARNING**

To avoid serious injury or death:

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

Refer to Figure 1-3 on page 18:

Driveline (#9) should rest on driveline support (#10) when mower and driveline are not hitched to a tractor.

Always engage power take-off at low engine rpm to minimize start-up torque on driveline. Drivelines with friction clutches must go through a “run-in” operation prior to initial use and after long periods of inactivity. See “Driveline Protection” on page 37 for a detailed run-in description.

Refer to Figure 1-3

1. If driveline collapsible length has not been checked, go to “Check Driveline Collapsible Length” on page 20. Otherwise, continue with step 2 below.
2. Place tractor gear selector in park, shut tractor engine off, set park brake, and remove switch key.
3. Pull main driveline profiles apart, apply multi-purpose grease to the inside of the outer profile and reassemble the two profiles.
4. If needed, attach driveline to the gearbox input shaft:
   a. Pull back on inner driveline yoke lock collar and
      slide yoke over the mower’s gearbox input shaft.
   b. Release lock collar and continue to push yoke
      onto the gearbox input shaft until pull collar snaps
      in place.
5. Attach driveline to the power take-off shaft:
   a. Pull back on outer driveline yoke lock collar and
      slide yoke over the tractor’s power take-off shaft.
   b. Release lock collar and continue to push yoke
      onto the power take-off shaft until pull collar snaps
      in place.
   c. Move driveline back and forth to ensure both ends
      are secured. Reattach any end that is loose.

Hydraulic Hook-Up
Refer to Figure 1-4:
This mower is equipped and plumbed from the factory
with double acting cylinders, hydraulic hoses, and
couplings for folding the wings and center deck.

1. Cut plastic ties securing hydraulic hoses (#1) to hose
   support loop (#2). Be careful not to cut plastic tie
   securing the ten linchpins (#5) to the support loop.
2. Route hoses (#1) through hose support loop (#2) and
   connect to tractor remote outlets. Quick disconnect
   hydraulic fittings for your tractor are supplied
   attached to the hoses.
3. Locate carbon steel wire (#3) attached between wing
cylinders (#4). This wire secures the wing decks in
the folded position during shipment. Remove wire
and dispose of it in a trash container.
4. If needed, attach driveline to the gearbox input shaft:
   a. Pull back on inner driveline yoke lock collar and
      slide yoke over the mower’s gearbox input shaft.
   b. Release lock collar and continue to push yoke
      onto the gearbox input shaft until pull collar snaps
      in place.
5. Attach driveline to the power take-off shaft:
   a. Pull back on outer driveline yoke lock collar and
      slide yoke over the tractor’s power take-off shaft.
   b. Release lock collar and continue to push yoke
      onto the power take-off shaft until pull collar snaps
      in place.
   c. Move driveline back and forth to ensure both ends
      are secured. Reattach any end that is loose.

Hook-up LED Lights
Refer to Figure 1-5:
The lead wiring harness (#6) is equipped with a
7-way round pin connector for connecting to the tractor’s
7-pin electrical outlet shown in Figure 1-1 on page 16.

1. Route lead wire harness (#6) through spring hose loop
   as shown.
2. Connect wire harness (#6) to the tractor’s 7-pin
   electrical outlet.

3. Check LED lights to make certain they are operating
   correctly.

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

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

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

Check Driveline Minimum Length

Figure 1-7

12. If dimension “A” is less than 1” (2.5 cm), shorten driveline as follows:

Refer to Figure 1-7:

a. Measure 1” (2.5 cm) (“B1” dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.

b. Measure 1” (2.5 cm) (“B2” dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.

13. Pull back on outer driveline yoke lock collar and slide driveline yoke off of the tractor power take-off shaft.

14. Pull back on inner driveline yoke lock collar and slide driveline yoke off of the cutter gearbox shaft.

15. Cut off non-yoke end of inner driveline as follows:

a. Measure from end of inner shield to scribed mark (“X” dimension) and record.

b. Cut off inner shield at the mark. Cut same amount off the inner shaft (“X1” dimension).

16. Cut off non-yoke end of outer driveline as follows:

a. Measure from end of outer shield to scribed mark (“Y” dimension) and record.

b. Cut off outer shield at the mark. Cut same amount off the outer shaft (“Y1” dimension).

17. Remove all burrs and cuttings.

18. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.

19. Attach driveline to the mower and tractor. Refer to steps 4-5 on the left side of page 19.

Section 1: Assembly & Set-Up

Pull Rope Hook-Up
Skip to “Gauge Wheel Assembly” below if mower is equipped with “Hydraulic Wing Unlock Option”.

Refer to Figure 1-8:
The operator on the tractor seat will need to be able to access the pull rope from the tractor seat when lowering the folded decks to ground level.
1. Attach pull rope (#3) to an area within the operator’s reach. Make sure the pull rope can not become tangled with the operator and driveline.
2. See “Unfold Mower Decks” on page 26 for detailed unfolding instructions.

Gauge Wheel Assembly
Refer to Figure 1-9:

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.

Center deck gauge wheels (#4) are mounted in the carrier frames spindle support tubes upside down.
1. Remove nuts (#7) and bolts (#6) from the center deck carrier frames and remove gauge wheels from the frames.
2. Check spacer location on the other gauge wheels. Note how many and what sizes are above and below the gauge wheel spindle support tube and then place an equal number of spacers (#1, 2, & 3) and sizes above and below the spindle support tube while inserting the gauge wheel spindle into the spindle support tubes.
3. Raise center deck up just enough to insert gauge wheel spindles into the carrier frame spindle support tubes as shown in Figure 1-9.

Refer to Figure 1-10:
4. Secure gauge wheels with linchpins (#8) supplied attached to the support loop with plastic ties. Insert linchpins from the front and flip clasp shut over the spindles towards the back. Attaching linchpin in this manner will prevent vegetation from catching on the clasp and flipping it open while traveling forward.
5. Lower all mower decks fully down. Decks should be supported by the gauge wheels with gauge wheels on the ground.
6. Remove bolts (#6) from the remaining gauge wheel spindles and replace with remaining linchpins (#8). Insert linchpins from the front and flip clasp shut over the spindles towards the back.
Bleed Folding Hydraulics

Referring to Figure 1-11:

Danger

To avoid serious injury or death:

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

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

1. With mower decks lowered onto the ground, remove connecting pins (#1) from rod end of the two wing cylinders (#2) and center deck cylinder (#3).

2. Support cylinders vertically with rod end up.

3. Cycle hydraulic system to extend both wing cylinders and center deck cylinder. Retract cylinders and repeat this process 2 times.

4. On each cylinder, crack rod end cylinder fitting (#4) and apply hydraulic pressure until air free oil leaks from fitting and then retighten fitting.

5. Support cylinders in a vertical position with base end of cylinder up and repeat bleeding process on the base end fitting (#5).

6. Re-pin all clevises. Secure pins with cotter pins (#6) by bending one or more legs of the cotter pin.

7. Slowly cycle all decks to transport position checking to make sure hydraulic hoses are not pinched in the process.
Section 2: Operating Instructions

Introduction

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Grooming Mower. Therefore, it is absolutely essential that no one operates the mower unless they are age 16 or older and have read, fully understood, and are totally familiar with the Operator’s Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, pages 1
- **Section 1: Assembly & Set-Up**, page 16
- **Section 2: Operating Instructions**, page 23
- **Section 3: Adjustments**, page 30
- **Section 5: Maintenance & Lubrication**, page 34

Perform the following inspections before using your Grooming Mower.

### Operating Checklist

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<tr>
<td></td>
<td>Read and follow all Safety Rules carefully. Refer to “Important Safety Information”:</td>
<td>1</td>
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<tr>
<td></td>
<td>Make sure all guards and shields are in place. Refer to “Important Safety Information”:</td>
<td>1</td>
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<td>Make sure there are no hydraulic leaks. Refer to “Avoid High Pressure Fluids Hazard”:</td>
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<td>Read and follow hook-up &amp; preparation instructions. Refer to “Section 1: Assembly &amp; Set-Up”:</td>
<td>18</td>
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<td>Make a thorough examination of drivelines. Check connection to gearboxes and tractor power take-off.</td>
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<td>Read and make all required adjustments. Refer to “Section 3: Adjustments”:</td>
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<td>Inspect blades for wear and sharpness.</td>
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<td>Read and follow all Maintenance Instructions. Refer to “Section 5: Maintenance &amp; Lubrication”:</td>
<td>34</td>
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<td>Read and follow all Lubrication Instructions. Refer to “Lubrication Points”:</td>
<td>39</td>
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<td>Check mower initially and periodically for loose bolts and pins. Refer to “Torque Values Chart”</td>
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<td>Check tire pressure. Add air if needed.</td>
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### Tractor & Mower Inspection

Make the following inspections with mower attached to a tractor, with tractor and mower parked on a level surface, power take-off disengaged, and mower blades stopped.

1. Complete “Operating Checklist” above.
2. Make sure hitch safety chain is securely attached to mower and tractor.
3. Grease driveline shaft and all other grease fittings.
4. Check oil level in gearboxes. Refer to “4-Way Gearbox” and “Mower Deck Gearbox” on page 43.
5. Check all plugs and caps in gearboxes to make certain that they have been replaced and tightened properly.
6. Check mower blades for sharpness and damage. See “Blade Inspection” on page 34.
7. Be sure blades are installed properly on each deck with the cutting edge leading in rotation. See “Blade Removal & Installation” on page 35.
8. Make sure all blade bolts are tight. Know which center blade bolts are left-hand threaded and which are right-hand threaded when checking for tightness. See “Blade Removal & Installation” on page 35.
9. Be sure all bolts and nuts are tight.
10. Be certain all guards and shields are in place and secure.
11. Slowly cycle all decks to transport position checking to make sure hydraulic hoses and wire harness are not pinched in the process.
12. Check LED lights to make sure they are hooked-up correctly and functioning:
   a. Check all electrical connections on the wire harness. Refer to “Hook-up LED Lights” on page 19.
   b. Check wire harness to make sure the wires are not pinched, bare, or broken and connectors are not damaged. Replace wire harness if damaged.
   c. Check lens modules for broken lens and/or burnt out LED lights. Replace module if needed. Modules are available in amber, red, and black.
   d. Make necessary repairs and repeat step 12 above.
13. Clear area to be mowed of objects and debris that might be picked up and thrown by the mower blades
14. Operate with 540 rpm power take-off tractor.
15. Refer to your tractor’s operator manual for engaging and disengaging the power take-off.
16. In case of emergency, learn to stop tractor and mower quickly.
Safety

DANGER
To avoid serious injury or death:

- All guards and shields must be installed and in good working condition while operating the implement.
- Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.
- Do not allow anyone near the tractor or implement while operating. Stop operation if bystanders are too close. They can be hit by flying projectiles, become entangled in the equipment, or run over.
- Do not use a power take-off adapter. The adapter will increase strain on the tractor’s power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor’s power take-off shield.

WARNING
To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, who have been properly trained in the safe operation of this implement, and who are age 16 or older. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- Never carry riders on the implement or tractor. Riders can obstruct the operator’s view, interfere with 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 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 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.
- Avoid catching hydraulic hoses on brush, posts, tree limbs, and other protrusions that could damage and/or break them.
- Do not engage power take-off with AFM decks in the raised position or with engine speed above idle. Doing so will damage power train components.
- Use mower to cut only turf grasses. Cutting other materials can damage drive components, cutting blades, and deck.
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.
- Always disengage tractor PTO before raising mower decks to transport position to avoid power train damage, injury from thrown objects, or blade contact.
- High wear may occur to mower blades when mowing in areas with sandy soil. Frequent inspection should be made and blades replaced if worn excessively or damaged.
- Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.
- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.
- Some tractors are equipped with two power take-off speeds. Be certain your tractor’s power take-off shaft is set-up to operate at 540 rpm. Do not exceed 540 rpm power take-off speed or equipment breakage may result.

U-Joint Timing
Refer to Figure 2-1:

WARNING
To avoid serious injury or death:

If deck drivelines (3 each) do not have slip clutches, then the driveline u-joints at the splitter box must be in time to avoid driveline damage when folding and unfolding the decks.
Manual Release Transport Locks
Figure 2-2

Hydraulic Release Transport Locks
Figure 2-3

Model AFM4216 Deck Float Pin
Figure 2-4

Fold Mower Decks
Refer to Figure 2-2 or Figure 2-3:
1. Using tractor’s hydraulic control lever, raise all three mower decks to transport position by retracting all three hydraulic cylinders (#2) completely.

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

Refer to Figure 2-4:
3. Deck float pins are provided with the AFM4216 model only. If a narrow transport width is required or if transporting long distances, the deck float pins on the AFM4216 should be inserted as follows:
   a. Remove deck float pin (#2) from storage tube (#1) and insert through lock holes (#3) located to the outside of both mower wing decks.
   b. Make sure deck float pin is fully inserted.

IMPORTANT: Make sure deck floating pins are removed before unfolding AFM4216 mower decks.
Unfold Mower Decks

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

**IMPORTANT:** Make sure deck floating pins are removed before unfolding AFM4216 mower decks.

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

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

Unfold Decks With Pull Rope Locks

Refer to Figure 2-5:
1. **AFM4216 Model Only:** Remove wing deck floating pins (#2) and store in storage tube (#1).

Refer to Figure 2-6:
2. Fully retract hydraulic cylinders (#2) to remove weight from transport locks (#1).
3. Pull transport lock rope (#3) toward the tractor to disengage transport locks (#1).
4. Hold locks in this disengaged position until all three mower decks have unfolded enough to allow locking lugs (#4) to be out from under transport locks (#1).
5. Extend all three cylinders (#2) to their maximum stroke for maximum field float of mower decks.

Unfold Decks With Hydraulic Locks

Refer to Figure 2-5:
1. **AFM4216 Model Only:** Remove wing deck floating pins (#2) and store in storage tube (#1).

Refer to Figure 2-7:
2. Using the tractor’s hydraulic control lever, fully retract all hydraulic cylinders (#2) to remove weight from transport locks (#1).
3. After hydraulic cylinders (#2) have fully retracted, extend hydraulic cylinders (#2). The transport lock hydraulic cylinder (#3) will extend first and will open all three transport locks (#1) before hydraulic cylinders (#2) start to extend.
4. Continue to extend all three cylinders (#2) to their maximum stroke to utilize maximum flexibility of the decks as they float over the terrain.
Transporting

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

- Select a safe ground speed when transporting. Never travel at a speed which does not allow adequate control of steering and stopping, and never exceed 20 mph (32.2 km/h) with attached equipment. Rough terrain requires a slower speed.
- When traveling on public roads, use LED lights, slow moving vehicle sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. If implement blocks visibility of slow moving vehicle sign, relocate sign so it is visible from the back at all times. Always comply with all federal, state, and local laws.
- Reduce ground speed when turning and leave enough clearance to avoid making contact with obstacles such as buildings, trees, fences, etc. Making contact can result in equipment damage and cause serious injury or death.
- Slow down when traveling over rough or hilly terrain. Shift to a lower gear to maintain engine rpm while traveling slower.
- 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.
- Care should be taken when encountering oncoming traffic and roadside obstructions if implement is wider than your tractor.
- Always disengage tractor PTO before raising mower decks to transport position to avoid power train damage, injury from thrown objects, or blade contact.

1. **Refer to Figure 2-8:** Relocate slow moving vehicle Safety sign (#1) from back of your tractor to mounting bracket (#2) on the back of the mower. If needed, the slow moving vehicle sign can be purchased from your nearest Land Pride dealer. Refer to “Slow Moving Vehicle Sign (Accessory)” on page 33.

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

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

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

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

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

**Constant Velocity Driveline Angle**
**Refer to Figure 2-9:**
The main driveline is equipped with a constant velocity (CV) joint that allows the unit to run at angles up to 80 degrees with no vibration.

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

Refer to Figure 2-10:

1. See “Long-Term Storage” on page 38 before parking mower for a long period.
2. Shutdown tractor properly before dismounting. Refer to “Tractor Shutdown Procedure” on page 17.
3. Move hydraulic control levers back and forth several times to relieve all hydraulic pressure in hydraulic hoses and at the couplers.
4. Attach park jack (#1) to jack mount (#12) and secure with detent pin (#2). Make sure detent pin is fully inserted.
5. Adjust height of park jack (#1) until hitch is supported by the park jack.
6. Unhook wire harness (#3) from the tractor electrical outlet. Coil wire harness up and store on the spring hose loop. Keep wire harness pin connector (#3) out of the dirt.
7. Unhook hydraulic hoses (#4) from tractor duplex outlet. Insert couplers through spring hose loop to keep couplers out of the dirt.
8. Pull back on driveline lock collar (#5) and pull driveline (#6) from tractor power take-off shaft.
9. Collapse driveline (#6) by pushing tractor end of driveline toward the splitter gearbox.
10. Store yoke end of driveline (#5) on driveline support rest (#13). Do not store yoke end in the dirt.
11. Unhook transport safety chain(#7) from the tractor and stow on the hitch.
12. Adjust park jack (#1) until hitch weight is removed from tractor drawbar.
13. Remove hairpin cotter (#8), flat washer (#10), and hitch pin (#9).
14. Start tractor and drive slowly forward several feet while watching to make sure no mower components are connected to or catching on the tractor.
15. Shut tractor down properly before dismounting.
16. Replace hitch pin (#9) with flat washer (#10) in mower hitch clevis (#11). Secure hitch pin with hairpin (#8).

Refer to Figure 2-8 on page 27:

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.

Special Operating Instructions

1. After attaching the tractor to the mower, carefully check all hoses and wires to be sure they will not contact the power take-off driveline.
2. Check power take-off guards to make sure they are in good condition and in place.
3. Inspect hydraulic hoses for wear, damage, and hydraulic leaks. See “Avoid High Pressure Fluids Hazard” on page 3 Replace damaged and worn hoses with genuine Land Pride parts.
4. Check the following after the power take-off has been disengaged and comes to a complete stop.
   • Check mower blades for sharpness.
   • Make sure bolts and nuts are tight.
   • Check tractor safety equipment. Be sure they are in good working condition.
5. Set tractor throttle at an idle. Engage the power take-off to start blades rotating.
6. Begin mowing at a slow forward speed and shift up until desired speed is achieved - maintaining 540 power take-off rpm. Mower blades will cut better at 540 power take-off blade speed than at reduced throttle.
7. After mowing the first 50 feet, stop and check to see that mower is adjusted properly.
8. Grass is best cut when it is dry. Mowing wet grass can cause plugging resulting in grass clumps behind the mower.
9. Grass should be mowed frequently as shorter clippings deteriorate faster.
10. Mow areas with extremely tall grass twice. Raise mower high for the first cutting and then set mower at finished cutting height for the second cutting.
General Operating Instructions

By now you should have familiarized yourself with the Operator’s Manual, completed the Operator’s Checklist, set-up the unit properly and attached your Land Pride All-Flex Mower to your tractor.

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

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

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

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

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

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

Avoid very low cutting heights especially on extremely uneven terrain. Always cut downward on slopes and avoid crossing the face of steep slopes. Avoid sharp drops and cross diagonally through ditches to prevent hanging up the tractor and mower. Slow down in turns and avoid sharp turns if at all possible. Remember to look back often.

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

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

Make wide turns when possible. Operators of pull-type models must plan ahead and choose a cutting pattern that allows for wider turns. Try increasing or decreasing ground speed to determine the effect on quality of cut. With a little practice you will be pleased with what you and your Land Pride All-Flex Mower can do.

Whether you are done mowing, need to take a break, or just need to make a few adjustments to the mower, remember to always do the following:

• Reduce the tractor’s engine rpm.
• Disengage the power take-off.
• Stop on level ground.
• Set the park brake.
• Turn off the engine and remove the key.
• Stay on the tractor until the mower blades have come to a complete stop.
Center Deck Height Adjustments

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

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

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

Position mower on a level surface and adjust hitch clevis up or down on end of tongue until tongue is close to level with the ground. Tire pressure will affect mowing height. Make sure all tires have proper pressure. See “Tire Inflation Chart” on page 51.

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

**IMPORTANT:** Before continuing, read instructions on raising and lowering decks starting with “U-Joint Timing” on page 24.

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

### Cutting Height Chart

<table>
<thead>
<tr>
<th>A (in)</th>
<th>B (in)</th>
<th>A (cm)</th>
<th>B (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 5/8 (12)</td>
<td>3/4 (2)</td>
<td>7 1/8 (18)</td>
<td>3 1/4 (8)</td>
</tr>
<tr>
<td>5 1/8 (13)</td>
<td>1 1/4 (3)</td>
<td>8 1/8 (21)</td>
<td>4 1/4 (11)</td>
</tr>
<tr>
<td>6 1/8 (16)</td>
<td>2 1/4 (6)</td>
<td>9 1/8 (23)</td>
<td>5 1/4 (13)</td>
</tr>
</tbody>
</table>

Refer to Figure 3-2:
4. Add or remove spacers below the spindle tubes equal to the number of inches the gauge wheel needs to be adjusted. Adding spacers will raise the cutting height and removing spacers will lower the cutting height. When finished, all 10 gauge wheels will usually have an equal number of spacers below the spindle tubes. See note below.

![Figure 3-1](image1.png)

![Figure 3-2](image2.png)
Section 3: Adjustments

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

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

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

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

7. Adjust front of center deck height to match height at rear of center deck:
   a. Attach jack stand to jack mount located in front of the center gearbox channel. Make sure stand is secured with attachment pin.
   b. Screw jack out to lift front of mower deck and in to lower deck front.
   c. Place same number and thickness of C-spacers below the spindle tube as was placed below the rear gauge wheel spindle tubes.

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

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

Belt Tension

Refer to Refer to Figure 3-4:

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.

1. Check belt tension by applying force at arrow “A” with a tension tester until belt deflects 1/4” (6mm). The force required to get this deflection should range from 7-10 lbs (3-5 kg).

2. Adjust belt tension by adjusting eyebolt (#1) as needed. This adjustment will increase or decrease tension on spring (#2).

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

Not Enough Belt Tension May lead to:
• Premature belt damage due to excessive slipping.
Optional Hydraulic Transport Locks

Refer to Figure 3-5:

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

1. Fully retract deck lifting cylinders (#7) and transport lock cylinder (#6).

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 tool bar locking lugs (#2).

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

3. If needed, adjust aircraft cables (#5) as follows:
   a. Loosen cable clamps (#4A & #4B) and pull or let out aircraft cable (#5) to create slight slack in cable.
   b. Use cable clamp (#4A) closest to the spring to create a loop about 1 1/4" in (3 cm) 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 4: Accessories**

### Ball Swivel Hitch

*Refer to Figure 4-1:*

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

![Ball Swivel Hitch](image)

### Cutting Blades

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

#### Low Lift Blades (Standard)

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

#### Medium Lift Blades

Land Pride's medium lift blades are great when horsepower is a concern. They 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 Part Numbers

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
</tr>
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<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>

*Slow Moving Vehicle Sign (Accessory)*

*Refer to Figure 4-2:*

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

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*AFM4214 and AFM4216 All-Flex Grooming Mowers 315-587M*
Section 5: Maintenance & Lubrication

Maintenance

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

**DANGER**

To avoid serious injury or death:

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

**WARNING**

To avoid serious injury or death:

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

- For safety reasons, each maintenance operation must be performed with tractor PTO disengaged, mower lowered completely to the ground or folded with transport locks engaged and tractor engine shut off with ignition key removed.

- Buildup of debris around moving components and gearboxes is a fire hazard. Keep rotating parts and gearboxes free from debris to avoid serious injury and property damage.

- Improper oil level can cause bearing failure and be a fire hazard. Maintain proper gearbox oil level to avoid serious injury and property damage.

1. Frequently inspect mower for loose bolts and nuts. See “Blade Removal & Installation” on page 35 to identify left-hand threaded bolts. Tighten all hardware as indicated in the “Torque Values Chart” on page 51.

2. Check drive belt tension after several hours of mowing. Refer to “Belt Tension” on page 31.

3. Lubricate components as listed under “Lubrication Points” starting on page 34.

4. Always maintain proper air pressure in the tires. Refer to “Tire Inflation Chart” on page 51.

5. Replace worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride dealer. See Information about “Safety Labels” starting on page 7.

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.

- 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 damaged.

**Bent, Deformed or Split Blades** should be removed from unit and discarded. **DO NOT** attempt to straighten a blade for reuse.
Blade Removal & Installation

**CAUTION**

To avoid minor or moderate injury:

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

**Refer to Figure 5-2 & Figure 5-3:**

1. Verify blade rotation and bolt thread type (right-hand or left-hand) before loosening center blade 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 center decks are left-hand threads.

**Refer to Figure 5-4 & Figure 5-5:**

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

3. Remove blade bolt (#4) and Washer (#5) from blade being replaced.

4. (Model AFM4216 Only.) Remove two outside bolts (#6) from blade bar (#2).

**IMPORTANT:** Replace mower blades with genuine Land Pride blades only.

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

**IMPORTANT:** (AFM4216 ONLY, See Figure 5-5)

Loctite is not required if blade bar (#2) is not removed. However, if blade bar (#2) is removed from spindle shaft (#3), apply “Loctite 243” to external spindle shaft threads and to center bolt threads (#4).

5. Reinstall blade (#1), blade washer (#5), and bolt (#4). Care should be taken when installing the blade bolt to not get it cross threaded and to know if the bolt is right-hand or left-hand. Torque bolt to 75 ft.-lbs.

6. (Model AFM4216 Only.) Reinstall the two outside bolts. Tighten to correct torque listed in The “Torque Values Chart” on page 51.
Blade Sharpening

**WARNING**

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

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

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

Refer to Figure 5-6:
3. Maintain sharpness by grinding only the top of the cutting edge at the same bevel as the original edge.

Refer to Figure 5-7:
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

**CAUTION**

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

Refer to Figure 5-8:
These illustrations are also on the labels located on the top of the mower decks.
1. Remove right-hand and left-hand belt covers.
2. Disengage belt tensioning latch by turning release nut with a 3/4" wrench.
3. Replace old belt with a new Land Pride belt making sure the new belt is positioned correctly in all the pulley grooves.
4. Engage belt tensioning latch by turning the release nut with a 3/4" wrench.
5. Check for correct belt tension. Refer to "Belt Tension" on page 31.
6. Reinstall all belt covers and secure with hardware.
Driveline Protection

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

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

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

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

Disassembly & Assembly

Refer to Figure 5-10:
If the clutch run-in procedure indicated that one or more of the friction disks did not slip, then the clutch must be disassembled to separate the friction disks.

1. Rotate 8 hex head socket bolts (#2) all the way out to free stop flange (#3).
2. Rotate stop flange (#3) and remove from housing (#11)
3. Remove the following inner components:
   a. Spring kit (#4)
   b. Pressure flange (#5)
   c. 1st Friction Disc (#6)
   d. Hub with flange and pull collar (#7 & #1)
   e. 2nd Friction disc (#6)
   f. Intermediate flange (#8)
   g. 3rd Friction disc (#6)
   h. Hub disc (#9)
   i. 4th Friction disc (#6)
   j. Bearing (#10)
4. Inspect all components and replace to their original position. Make certain stop flange (#3) is replaced with its flanges down as shown.
5. Fully tighten all 8 hex head socket bolts (#2).
Long-Term Storage
Clean, inspect, service, and make necessary repairs to the implement when storing it for long periods and at the end of the season. This will help ensure the unit is ready for field use the next time you hook-up to it.

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

1. Clean off any dirt and grease that may have accumulated on the mower and moving parts. Scrape off compacted dirt from the bottom of the deck and then wash surface thoroughly with a garden hose. A coating of oil may also be applied to the lower deck area to minimize oxidation.
2. Check blades for wear and replace or sharpen as needed. Refer to “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” starting on page 39.
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 & Installation” on page 35.
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.

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Tires With Air Pressure
Tire Sealant: Heavy Duty tire sealant has been added in air tires to help reduce air loss from punctures due to nails/thorns etc. See tire sidewall for optimum tire pressure.

NOTE: Under inflated tires can roll off of rim. Maintaining air pressure within 5 PSI of maximum tire pressure reduces the risk of tires rolling off of rim.

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### Land Pride Aerosol Touch-up Paint

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>821-011C</td>
<td>PAINT LP BEIGE SPRAY CAN</td>
</tr>
<tr>
<td>821-054C</td>
<td>PAINT MEDIUM RED SPRAY CAN</td>
</tr>
<tr>
<td>821-058C</td>
<td>PAINT GREEN SPRAY CAN</td>
</tr>
<tr>
<td>821-066C</td>
<td>PAINT ORANGE SPRAY CAN</td>
</tr>
<tr>
<td>821-070C</td>
<td>PAINT GP GLOSS BLACK SPRAY CAN</td>
</tr>
</tbody>
</table>
Lubrication Points

**Lubrication Legend**
- Multi-purpose spray lube
- Multi-purpose grease lube
- Multi-purpose oil tube
- **8 Hrs** Intervals in hours at which lubrication is required

### Driveline Constant Velocity Shaft

**Type of Lubrication:** Multi-purpose Grease  
**Quantity:** See drawing

**IMPORTANT:** Extensive lubrication must be performed every 8 hours of operation to extend the life of the constant velocity joint.

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

### Driveline Shafts

**Type of Lubrication:** Multi-purpose Grease  
**Quantity:** See drawing

### Inner Tube of Driveline

**Type of Lubrication:** Wheel Bearing Grease  
Clean and coat all inner tubes of the Drivelines with a light film of grease and then reassemble.
Wheel Support Bushings
Type of Lubrication: Multi-purpose Grease
Quantity = As required

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

Wheel Bearings (15" Gauge Wheels)
Type of Lubrication: Multi-purpose Grease
Quantity = Repack wheel bearings annually

Wheel Bearings (18" Gauge Wheels)
Type of Lubrication: Multi-purpose Grease
Quantity = Repack wheel bearings annually

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

Wheel Bushings (Transport Hubs)
Type of Lubrication: Wheel Bearing Grease
Quantity = As required
Section 5: Maintenance & Lubrication

Table of Contents

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

Tool Bar to Deck Pivot Pin
Type of Lubrication: Multi-purpose Grease
Quantity = As required

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

Rear Deck Pivot Half Clamps
Type of Lubrication: Multi-purpose Grease
Quantity = As required

Wing Flex Pivot Lugs
Type of Lubrication: Multi-purpose Grease
Quantity = As required
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 and remove dipstick (#1). Wipe oil from dipstick and screw dipstick back in without tightening. Unscrew dipstick and check oil level on dipstick. If oil is near the bottom of the dipstick or below the dipstick, add recommended gear lube through the top plug hole until oil reaches top mark on dipstick. Reinstall top plug with dipstick and tighten.

Type of Lubrication: Gear Lube EP 80-90W

Quantity = Fill until oil reaches full mark on dipstick.

**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.

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

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

Type of Lubrication: 80-90W EP Gear Lube

Quantity = Fill until oil reaches top mark on dipstick or begins to flow out side plug hole in gearbox.
## AFM4214 Series

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifications &amp; Capacities</th>
<th>Description</th>
<th>Specifications &amp; Capacities</th>
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</thead>
<tbody>
<tr>
<td>Discharge type</td>
<td>Rear</td>
<td>Blade spindle speed</td>
<td>3362 rpm</td>
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<tr>
<td>Cutting width</td>
<td>14'-0&quot; (4.52 m)</td>
<td>Blade tips speed</td>
<td>18396 fpm (5607 mpm)</td>
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<td>Overall width</td>
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<td>Blade drive belt</td>
<td>1 B-section</td>
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<tr>
<td>Transport height</td>
<td>7'-7 1/2&quot; (2.32m)</td>
<td>Drive belt tension</td>
<td>1 1/4&quot; (3.2 cm)</td>
</tr>
<tr>
<td>Transport width</td>
<td>7'-11&quot; (2.41m)</td>
<td>Blade bearing</td>
<td>Sealed Ball Bearings</td>
</tr>
<tr>
<td>Overall length</td>
<td>14'-10&quot; (4.52 m) Mowing</td>
<td>Blade overlap</td>
<td>Spring loaded idler with</td>
</tr>
<tr>
<td></td>
<td>position</td>
<td></td>
<td>over-center release</td>
</tr>
<tr>
<td></td>
<td>12'-11&quot; (3.94 m) Transport</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>W/15&quot; tires = 3,000 lbs.</td>
<td>Tractor horsepower</td>
<td>Minimum 40 hp (30 kW)</td>
</tr>
<tr>
<td></td>
<td>W/18&quot; tires = 3,150 lbs.</td>
<td>Maximum 70 hp (52 kW)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td>Cutting height</td>
<td>3/4&quot; to 5 1/4&quot; (in 1/4&quot;</td>
</tr>
<tr>
<td>Tractor horsepower</td>
<td>Minimum 40 hp (30 kW)</td>
<td></td>
<td>increments)</td>
</tr>
<tr>
<td>Hitch</td>
<td>Pull type with adjustable</td>
<td>Deck tires</td>
<td>10 Each, air tires with</td>
</tr>
<tr>
<td></td>
<td>clevis and safety tow chain</td>
<td></td>
<td>sealant</td>
</tr>
<tr>
<td>Hitch</td>
<td></td>
<td></td>
<td>18 x 9.5 or 15 x 6.6</td>
</tr>
<tr>
<td>Tongue support</td>
<td>2,200 lb (1000 kg) capacity</td>
<td>Deck wheel spindles</td>
<td>1 1/4&quot; (3.2 cm) With</td>
</tr>
<tr>
<td></td>
<td>screw jack</td>
<td></td>
<td>nylon bushings</td>
</tr>
<tr>
<td>Gearbox support</td>
<td>3/8&quot; Steel channel</td>
<td>Transport tires</td>
<td>2 each, 23 x 10.5 with</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>sealant</td>
</tr>
<tr>
<td>Gearboxes</td>
<td>540 rpm (1)-splitter &amp; (3)-wing</td>
<td>Transport locks</td>
<td>Automatic with pull rope</td>
</tr>
<tr>
<td>Gearbox oil capacity</td>
<td>3 - Wings: 3.5 pints (1.7 L)</td>
<td>Turning radius</td>
<td>Zero turning radius</td>
</tr>
<tr>
<td></td>
<td>SD splitter: 2.125 pints (1.0 L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OMNI splitter: 2.5 pints (1.2 L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anti-scalp roller</td>
<td>Front center and outside</td>
<td>Mowing capacity</td>
<td>@ 2 mph = 3.4 @ 3 km/h = 1.3</td>
</tr>
<tr>
<td></td>
<td>deck corners</td>
<td></td>
<td>@ 4 mph = 6.8 @ 6 km/h = 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>@ 6 mph = 10.2 @ 10 km/h = 4.3</td>
</tr>
<tr>
<td>Main driveline (1)</td>
<td>Cat. IV constant velocity</td>
<td>Wing deck flex</td>
<td>23 Degrees left to right</td>
</tr>
<tr>
<td></td>
<td>with slip clutch</td>
<td></td>
<td>22 Degrees front to back</td>
</tr>
<tr>
<td>Deck drivelines (3)</td>
<td>Cat. II</td>
<td>Center deck flex</td>
<td>10 Degrees left to right</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>22 Degrees front to back</td>
</tr>
<tr>
<td>Deck size &amp; quantity</td>
<td>3 each / 60&quot; (1.52 m)</td>
<td>Hydraulic outlets</td>
<td>1 Set required</td>
</tr>
<tr>
<td>Deck overlap</td>
<td>6&quot; (15 cm)</td>
<td>Deck cylinders</td>
<td>Dual acting</td>
</tr>
<tr>
<td>Deck thickness</td>
<td>3/16&quot; (5 mm)</td>
<td>Gauge wheel arms</td>
<td>1/4&quot; (6 mm) Wall square</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>tubing</td>
</tr>
</tbody>
</table>

### Model 4214 Specification Drawing

**Model 4214 Specification Drawing 14043**
Model 4214 Specification Drawing

14'-0" (4.27 m) Cutting Width

14'-3" (4.34 m)

14'-10" (4.52 m)
## AFM4216 Series

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifications &amp; Capacities</th>
<th>Description</th>
<th>Specifications &amp; Capacities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge type</td>
<td>Rear</td>
<td>Blade spindle speed</td>
<td>2802 rpm</td>
</tr>
<tr>
<td>Cutting width</td>
<td>16'- 8&quot; (5.08 m)</td>
<td>Blade tips speed</td>
<td>18340 fpm (5590 mpm)</td>
</tr>
<tr>
<td>Overall width</td>
<td>16'-10&quot; (5.13 m)</td>
<td>Blade drive belt</td>
<td>1 B-section</td>
</tr>
<tr>
<td>Transport height</td>
<td>8' -10&quot; (2.69 m)</td>
<td>Drive belt tension</td>
<td>Spring loaded idler with overcenter release</td>
</tr>
<tr>
<td>Transport width</td>
<td>8'-5&quot; (2.57 m)</td>
<td>Blade bearing</td>
<td>Sealed Ball Bearings</td>
</tr>
<tr>
<td>Overall length</td>
<td>15'-0&quot; (4.57 m) Mowing position 13'-4&quot; (4.06 m) Transport position</td>
<td>Blade overlap</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>With 15&quot; tires = 3,315 lbs (1504 kg) With 18&quot; tires = 3,465 lbs (1572 kg)</td>
<td>Blades 3 each per deck</td>
<td>Low lift (5/16&quot; x 2 1/2&quot; x 25&quot;) Optional blades: Medium lift, high Lift &amp; mulching</td>
</tr>
<tr>
<td>Tractor horsepower</td>
<td>Minimum 40 hp (30 kW) Maximum 70 hp (52 kW)</td>
<td>Cutting height</td>
<td>3/4&quot; to 5 1/4&quot; (In 1/4&quot; increments) 2 cm to 13 cm (in 6 mm increments)</td>
</tr>
<tr>
<td>Hitch</td>
<td>Pull type with adjustable clevis and safety tow chain</td>
<td>Deck tires</td>
<td>10 Each, air tires with sealant 18 x 9.5 or 15 x 6.6</td>
</tr>
<tr>
<td>Tongue support</td>
<td>2,200 lb. (998 kg) Capacity screw jack</td>
<td>Deck wheel spindles 1 1/4&quot; (3.2 cm) With nylon bushings</td>
<td></td>
</tr>
<tr>
<td>Gearbox support</td>
<td>3/8&quot; (10 cm) Steel channel</td>
<td>Transport tires</td>
<td>2 each, 23 x 10.5 with sealant</td>
</tr>
<tr>
<td>Gearboxes</td>
<td>540 rpm (1)-splitter &amp; (3)-wing</td>
<td>Transport locks</td>
<td>Automatic with pull rope release</td>
</tr>
<tr>
<td>Gearbox lubrication</td>
<td>Gear lube 80-90W EP</td>
<td>Turning radius</td>
<td>Zero turning radius</td>
</tr>
<tr>
<td>Gearbox oil capacity</td>
<td>3 - Wings: 3.5 pints (1.7 L) SD splitter: 2.125 pints (1.0 L) or OMNI splitter: 2.5 pints (1.2 L)</td>
<td>Mowing capacity @mph= Acres/hour @km/hr= Hectares/hr</td>
<td>@ 2 mph = 4.0 @ 3 km/hr = 1.5 @ 4 mph = 8.1 @ 6 km/hr = 3.0 @ 6 mph = 12.1 @ 10 km/hr = 5.1</td>
</tr>
<tr>
<td>Anti-scalp roller</td>
<td>Front center and outside deck corners</td>
<td>Wing deck flex</td>
<td>23 Degrees left to right 22 Degrees front to back</td>
</tr>
<tr>
<td>Main driveline (1)</td>
<td>Cat. IV constant velocity with slip clutch</td>
<td>Center deck flex</td>
<td>10 Degrees left to right 22 Degrees front to back</td>
</tr>
<tr>
<td>Deck drivelines (3)</td>
<td>Cat. II</td>
<td>Hydraulic outlets</td>
<td>1 Set required</td>
</tr>
<tr>
<td>Deck size &amp; quantity</td>
<td>3 each / 72&quot; (1.83 m)</td>
<td>Deck cylinders</td>
<td>Dual acting</td>
</tr>
<tr>
<td>Deck overlap</td>
<td>8&quot; (20.3 cm)</td>
<td>Gauge wheel arms</td>
<td>1/4&quot; (6 mm) Wall square tubing</td>
</tr>
<tr>
<td>Deck thickness</td>
<td>3/16&quot; (21 mm)</td>
<td>Signal lights 7 Pin connector</td>
<td>LED (light-emitting diode) SAE J560 pin configuration</td>
</tr>
</tbody>
</table>

### Model 4216 Specification Drawing

![Model 4216 Specification Drawing](image-url)
Model 4216 Specification Drawing

16'-8" (5.08 m) Cutting Width

16'-10" (5.13 m)

15'-0" (4.57 m)
## Section 7: Features & Benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Signal lights</td>
<td>LED lights are bright, long lasting, and resistant to vibration, unlike incandescent counterparts.</td>
</tr>
<tr>
<td>Counter rotation on left-hand deck</td>
<td>Spreads grass clippings more evenly. Wing decks throw grass away from the rear deck. Rear deck doesn’t get covered up nor does it get bogged down by cut grass.</td>
</tr>
<tr>
<td>Narrow transport width</td>
<td>Not much wider than most tractors, making for safer transport. Meets most city/county codes for transport width</td>
</tr>
<tr>
<td>AFM4214 = 7’-11” (2.41 m)</td>
<td></td>
</tr>
<tr>
<td>AFM4216 = 8’-5” (2.57 m)</td>
<td></td>
</tr>
<tr>
<td>6” Deck overlap (AFM4214)</td>
<td>Eliminates blade skips when turning. Tighter turns can be made.</td>
</tr>
<tr>
<td>8” Deck overlap (AFM4216)</td>
<td>Allows for maximum amount of wing deck flex.</td>
</tr>
<tr>
<td>Sleek frame design, including single beam hitch and compact deck overlap</td>
<td>Design allows operator to make tighter turns without leaving windrows and skips. The AFM virtually becomes a zero turn mower.</td>
</tr>
<tr>
<td>Automatic transport wing locks</td>
<td>When wings are raised in the full transport position, the wings lock in place, no need to get off the tractor to lock. Pull rope from tractor seat to unlock.</td>
</tr>
<tr>
<td>23” Transport tires with tapered bearings</td>
<td>23” Transport tires offer smooth roading and less grass compaction. Allows grass to stand up. Tapered roller bearings offer longevity.</td>
</tr>
<tr>
<td>Removable transportation tire spindles</td>
<td>Allows a spindle to be replaced by simply removing two bolts.</td>
</tr>
<tr>
<td>Back wheels on side decks even with transportation tires</td>
<td>Allows tighter turns without skips.</td>
</tr>
<tr>
<td>Rigid rear side deck tires</td>
<td>Rigid wheel yokes holds hills and slopes better. Safer unit than the competition.</td>
</tr>
<tr>
<td>Large deck flotation tires with sealant</td>
<td>Optional 15” tires for great flotation or 18” tires for even greater flotation. The larger the tire the less compaction in pounds per square inch allowing grass to stand up. Sealant in the tires minimizes flats.</td>
</tr>
<tr>
<td>1/4” (6 mm) 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 may not meet ANSI specifications.</td>
</tr>
<tr>
<td>Rear discharge</td>
<td>Even dispersal, discharged items are always aimed downward. No rear chains are needed, which tend to clump damp grass.</td>
</tr>
<tr>
<td>Cat. 4 CV main driveline</td>
<td>Constant velocity main driveline allows for tighter turns without harming U-joints in driveline, includes slip clutch.</td>
</tr>
<tr>
<td>Slip clutch protection</td>
<td>Guards against premature gearbox failure. Protects mower deck spindles.</td>
</tr>
<tr>
<td>Cat. 2 wing drivelines</td>
<td>Reduces start-up torque that is put on the driveline, gearbox, and gearbox support.</td>
</tr>
<tr>
<td>Heavy gearbox mounts on center and side mower decks</td>
<td>Handles start up torque.</td>
</tr>
<tr>
<td>Gearbox horsepower rating</td>
<td>40-70 hp (30-52 kW)</td>
</tr>
<tr>
<td>Gearbox warranty</td>
<td>5 years on parts and labor. Demonstrates our confidence in the gearbox’s quality and lasting performance.</td>
</tr>
<tr>
<td>Easy to grease blade spindles</td>
<td>No guards to remove for routine greasing of blade spindles.</td>
</tr>
<tr>
<td>Middle spindle sits towards the back of the mower deck.</td>
<td>Uses less horsepower and allows material to escape the mower deck easier. The discharge of material is more even. Design eliminates windrowing.</td>
</tr>
<tr>
<td>Spring loaded idlers</td>
<td>Applies constant tension to belt to run efficiently.</td>
</tr>
<tr>
<td>Easy belt tension release</td>
<td>Easily release belt tension for changing belt or for winter storage.</td>
</tr>
<tr>
<td>High blade tip speed</td>
<td>Lifts grass up for a clean cut and efficient discharge of material. Tip rates as high or higher than the competition.</td>
</tr>
<tr>
<td>AFM4214 = 18340 fpm (5590 rpm)</td>
<td>Low Lift - Highly recommended in sandy soils where grass lift isn’t crucial. Disturbs the soil very little, allowing blades to wear longer.</td>
</tr>
<tr>
<td>AFM4216 = 18396 fpm (5607 rpm)</td>
<td>Medium Lift - Medium suction for lifting grass before cutting. Requires less horsepower than high lift.</td>
</tr>
<tr>
<td>Choice of blade (Low lift standard) Others available through parts dept.</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>Optional hydraulic operated transport locks</td>
<td>Mulching - Perfect for leaf mulching.</td>
</tr>
<tr>
<td>Transport locks can be released easily from the tractor seat while operating the same tractor control lever that raises and lowers the mower decks. Eliminates pulling a rope to release transport locks.</td>
<td></td>
</tr>
</tbody>
</table>
## Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oil seal leaking</strong></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><strong>Driveline yoke or cross failing</strong></td>
<td>Shock load</td>
<td>Avoid hitting solid objects</td>
</tr>
<tr>
<td></td>
<td>Bottoming out</td>
<td>Shorten driveline profiles</td>
</tr>
<tr>
<td></td>
<td>Front constant velocity driveline mounted wrong</td>
<td>Be sure constant velocity joint is to tractor power take-off output shaft</td>
</tr>
<tr>
<td></td>
<td>Folding mower with drive engaged</td>
<td>Never fold mower decks with power take-off engaged</td>
</tr>
<tr>
<td></td>
<td>Needs lubrication</td>
<td>Lubricate every 25 hours</td>
</tr>
<tr>
<td><strong>Bent driveline (NOTE: driveline should be repaired or replaced if bent)</strong></td>
<td>Contacting drawbar</td>
<td>Reposition drawbar</td>
</tr>
<tr>
<td></td>
<td>Bottoming out</td>
<td>Shorten driveline profiles</td>
</tr>
<tr>
<td><strong>Driveline telescoping profile failing</strong></td>
<td>Shock load</td>
<td>Avoid hitting solid objects</td>
</tr>
<tr>
<td><strong>Driveline telescoping profile wearing</strong></td>
<td>Needs lubrication</td>
<td>Lubricate every 50 hours</td>
</tr>
<tr>
<td><strong>Unable to turn sharply with mower engaged</strong></td>
<td>Front constant velocity driveline mounted wrong</td>
<td>Be sure constant velocity joint is attached to tractor power take-off output shaft</td>
</tr>
<tr>
<td><strong>Blades wearing excessively</strong></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><strong>Blades breaking</strong></td>
<td>Hitting solid objects</td>
<td>Avoid solid objects</td>
</tr>
<tr>
<td><strong>Excessive vibration</strong></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></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>

Continue on next page.
### Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge openings plugged</td>
<td>Belt not installed correctly</td>
<td>Check installation of belt</td>
</tr>
<tr>
<td></td>
<td>Grass too wet</td>
<td>Wait until grass dries</td>
</tr>
<tr>
<td></td>
<td>Grass too tall</td>
<td>Raise cutting height of mower and cut grass twice</td>
</tr>
<tr>
<td></td>
<td>rpm of tractor too low</td>
<td>Mow at full throttle (540 power take-off rpm). Check power take-off speed &amp; tractor engine</td>
</tr>
<tr>
<td></td>
<td>Ground speed too fast</td>
<td>Shift transmission to a lower gear</td>
</tr>
<tr>
<td>Belt slipping</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>Retighten spring take-up bolt</td>
</tr>
<tr>
<td></td>
<td>Worn belt</td>
<td>Replace belt</td>
</tr>
<tr>
<td></td>
<td>rpm of tractor too low</td>
<td>Mow at full throttle (540 power take-off rpm). Check power take-off speed &amp; tractor engine</td>
</tr>
<tr>
<td></td>
<td>Ground speed too fast</td>
<td>Shift transmission to a lower gear</td>
</tr>
<tr>
<td></td>
<td>Blade damaged or dull</td>
<td>Sharpen &amp; balance or replace blade</td>
</tr>
<tr>
<td></td>
<td>Blade rotation wrong</td>
<td>Install correct rotation blade</td>
</tr>
<tr>
<td>Patches of uncut grass</td>
<td>Low lubricant level</td>
<td>Check lubricant level</td>
</tr>
<tr>
<td>Blades scalping grass</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>Uneven cut</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>Dull blades</td>
<td>Sharpen blades &amp; balance or replace</td>
</tr>
<tr>
<td>Tractor loaded down by mower</td>
<td>rpm of engine 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>Debris wrapped around mower spindles or blades</td>
<td>Clean mower</td>
</tr>
<tr>
<td></td>
<td>Tractor power take-off horse power rating too low</td>
<td>Raise cutting height of the mower and cut the grass twice. Shift to a lower gear. Use a tractor with more horsepower</td>
</tr>
<tr>
<td></td>
<td>Blades lift too high</td>
<td>Change to lower lift blades if they will cut the grass satisfactorily</td>
</tr>
<tr>
<td>Optional hydraulic transport locks won’t release properly</td>
<td>Wire ropes are too long.</td>
<td>Shorten wire ropes. See “Optional Hydraulic Transport Locks” on page 32</td>
</tr>
<tr>
<td>Optional hydraulic transport locks won’t seat in locking lugs</td>
<td>Wire ropes are too short</td>
<td>Lengthen wire ropes. see “Optional Hydraulic Transport Locks” on page 32</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>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; - 20</td>
<td></td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td></td>
<td>8.5</td>
<td>6.0</td>
<td>13</td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td></td>
<td>15</td>
<td>11</td>
<td>24</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td></td>
<td>17</td>
<td>13</td>
<td>26</td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
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<td>27</td>
<td>20</td>
<td>32</td>
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<td>3/8&quot; - 24</td>
<td></td>
<td>31</td>
<td>22</td>
<td>47</td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td></td>
<td>43</td>
<td>32</td>
<td>67</td>
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<td></td>
<td>49</td>
<td>36</td>
<td>75</td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td></td>
<td>66</td>
<td>49</td>
<td>105</td>
</tr>
<tr>
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<td></td>
<td>75</td>
<td>55</td>
<td>115</td>
</tr>
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<td>95</td>
<td>70</td>
<td>150</td>
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<td>5/8&quot; - 11</td>
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<td>130</td>
<td>97</td>
<td>205</td>
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<td>150</td>
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<td>405</td>
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<td>640</td>
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<tr>
<td>1&quot; - 8</td>
<td></td>
<td>340</td>
<td>250</td>
<td>875</td>
</tr>
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<td>1&quot; - 12</td>
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<td>370</td>
<td>275</td>
<td>955</td>
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<tr>
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<td>480</td>
<td>355</td>
<td>1080</td>
</tr>
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<td>540</td>
<td>395</td>
<td>1210</td>
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<td>680</td>
<td>500</td>
<td>1520</td>
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<tr>
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<td>750</td>
<td>555</td>
<td>1680</td>
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<tr>
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<td>890</td>
<td>655</td>
<td>1990</td>
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<tr>
<td>1-3/8&quot; - 12</td>
<td></td>
<td>1010</td>
<td>745</td>
<td>2270</td>
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<tr>
<td>1-1/2&quot; - 6</td>
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<td>1180</td>
<td>870</td>
<td>2640</td>
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<tr>
<td>1-1/2&quot; - 12</td>
<td></td>
<td>1330</td>
<td>980</td>
<td>2970</td>
</tr>
</tbody>
</table>

1. in-tpi = nominal thread diameter in inches-threads per inch
2. N·m = 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.

### Tire Inflation Chart

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Inflation PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 x 10.50 - 12 x 4-Ply</td>
<td>20</td>
</tr>
<tr>
<td>15 x 6.00 - 6 x 4-Ply</td>
<td>28</td>
</tr>
<tr>
<td>18 x 9.50 - 8 x 4-Ply</td>
<td>24</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 Driveline: One year Parts and Labor.

Gearbox: 5 years on Parts and Labor.

Hydraulic Cylinders: One year Parts and Labor.

Hoses and seals are considered wear items.

Belts, Blades & Friction Discs in Slip-Clutches: Considered wear items.

Tires: Considered wear items.

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

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

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

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

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

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

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

Model Number ____________________ Serial Number ____________________