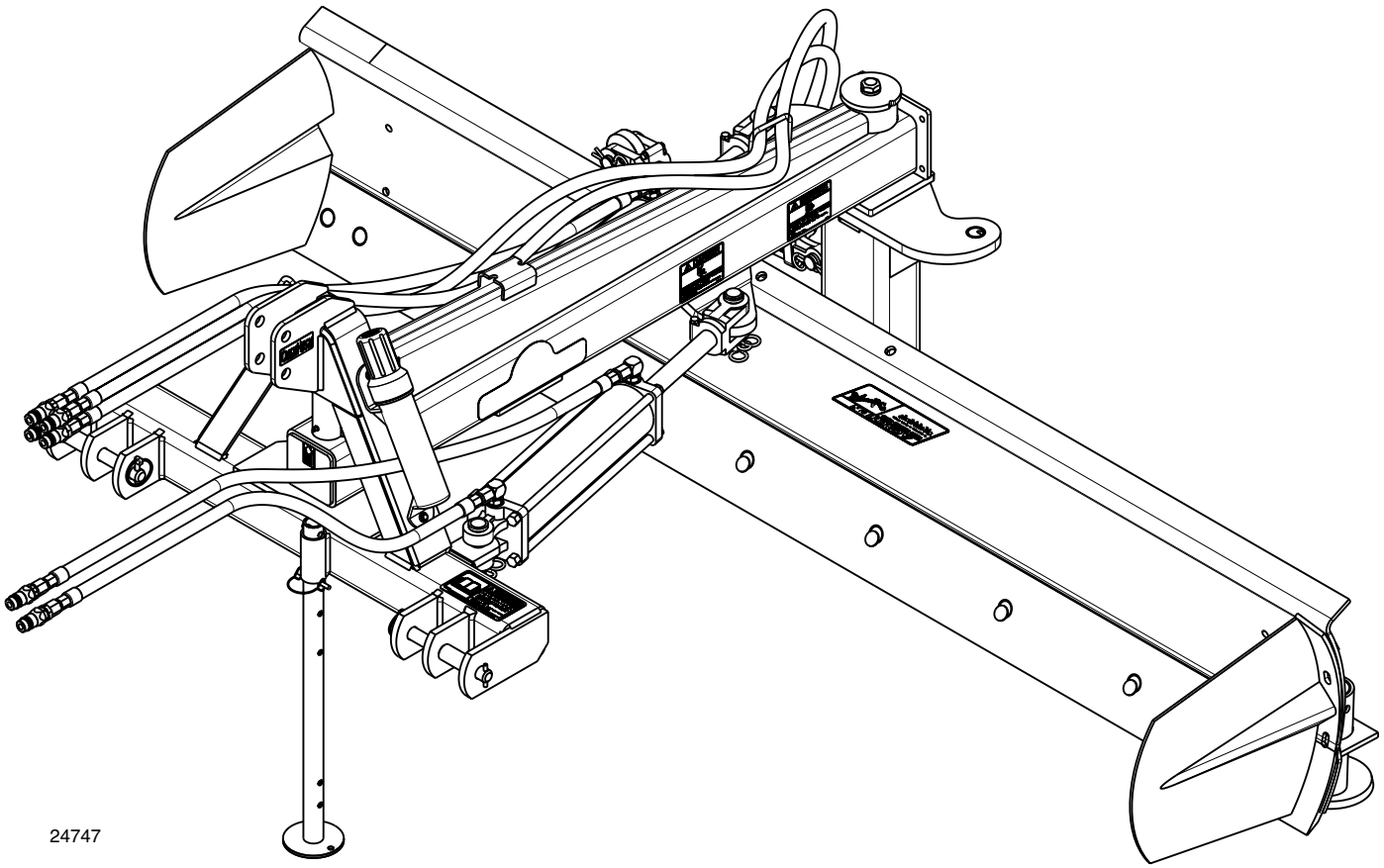
# Rear Blades

## RBT3584 & RBT3596



24747

## *301-251M*
## *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 7/9/24

## 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:** Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands. For more information see www.P65Warnings.ca.gov/motor-vehicle-parts.

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*Printed in the United States of America.*

See previous page for Table of contents.

### *Parts Manual QR Locator*

**The QR (Quick Reference) code on the left will take you to the Parts Manual for this equipment. Download the appropriate app on your smart phone. Scan the QR code and take a picture.**

### *Dealer QR Locator*

**The QR code to the left will link you to available dealers for Land Pride products. Refer to Parts Manual QR Locator on this page for detailed instructions.**

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

## *Safety at All Times*

**Careful operation is your best assurance against an accident.**

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

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



## *Look for the Safety Alert Symbol*

**The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety and extra precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. 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. They are:

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

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

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

### Be Aware of Special Notices

Special notices are intended to point out important and helpful information that should be followed. They are usually placed inside a box. They are:

**IMPORTANT:** Indicates that equipment or property damage could result if instructions are not followed.

**NOTE:** Indicates supplementary explanations that will be helpful when using the equipment.

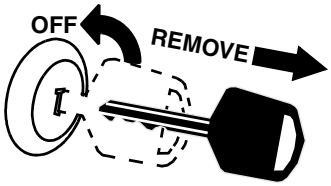
## Safety Precautions for Children

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

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

## Tractor Shutdown & Storage

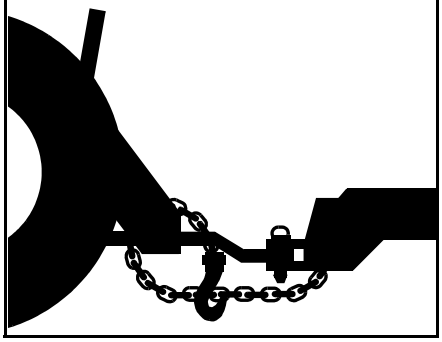
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic lines.
- ▲ Wait for all components to stop before leaving operator's seat.
- ▲ Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.



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

## Use A Safety Chain

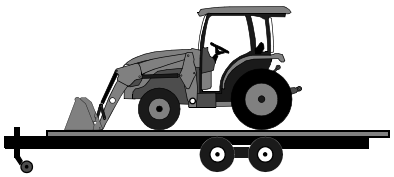
- ▲ A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- ▲ Use a chain with the strength rating equal to or greater than the gross weight of the towed implement.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only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



## Towing Safely

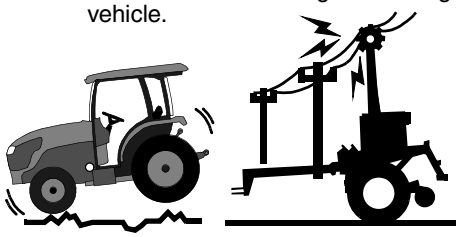
- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with chocks, tie downs, and chains.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.
- ▲ Sudden braking can cause a towed trailer to swerve unexpectedly. Reduce speed if trailer is not equipped with brakes.



## Transport Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Avoid contact with any overhead utility lines or electrically charged conductors.
- ▲ Engage park brake when stopped on an incline.
- ▲ Maximum transport speed for an implement is 20 mph (32 km/h). 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. Sudden braking can cause a towed load to swerve and upset.
- ▲ Do not tow an implement that, when fully loaded, weights more than 1.5 times the weight of towing vehicle.



## Tire Safety



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

## Practice Safe Maintenance

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





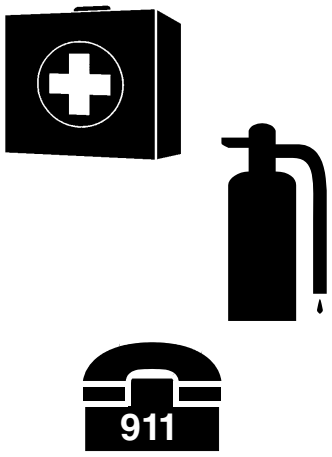




**Listed below are common practices that may or may not be applicable to the products described in this manual.**

## Prepare for Emergencies

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




## Wear Personal Protective Equipment (PPE)

- ▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety, glasses, hard hat, dust mask, 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 a machine safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



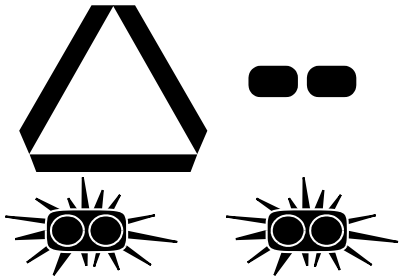
## Avoid High Pressure Fluids



- ▲ Escaping fluid under pressure will penetrate the skin or eyes causing serious injury.
- ▲ Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- ▲ Make sure all hydraulic fluid connections are properly tightened/torqued and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ **DO NOT DELAY.** If an accident occurs, seek immediate emergency medical care or gangrene may result.

## Use Safety Lights and Devices

- ▲ A slow moving power machine can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.
- ▲ For tractors and other agriculture equipment, a Slow Moving Vehicle (SMV) sign is required when traveling on public roads.



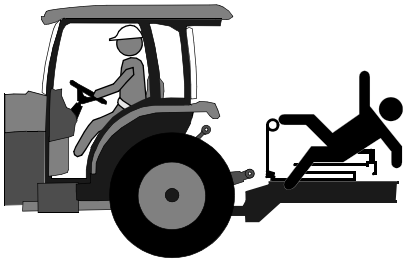
## Use Seat Belt and ROPS

- ▲ 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 the operator against serious injury or death from falling and/or machine overturn.



## Keep Riders Off Machinery

- ▲ Never carry riders on the tractor or implement.
- ▲ Riders obstruct operator's view and interfere with the control of the power machine.
- ▲ Riders can be struck by objects or thrown from the equipment.
- ▲ Never use the tractor or implement to lift or transport riders.

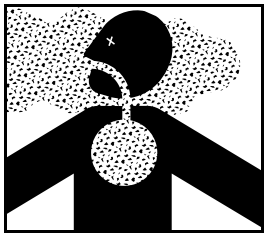


**Listed below are common practices that may or may not be applicable to the products described in this manual.**

## Avoid Crystalline Silica (Quartz) Dust

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

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



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

## Handle Chemicals Properly

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



## Dig Safe - Avoid Underground Utilities

- ▲ USA: Call 811
  CAN:
  http://www.clickbeforeyoudig.com
- ▲ 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.

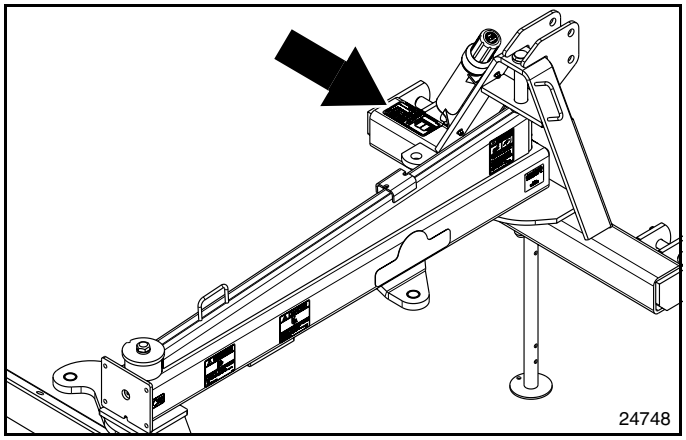


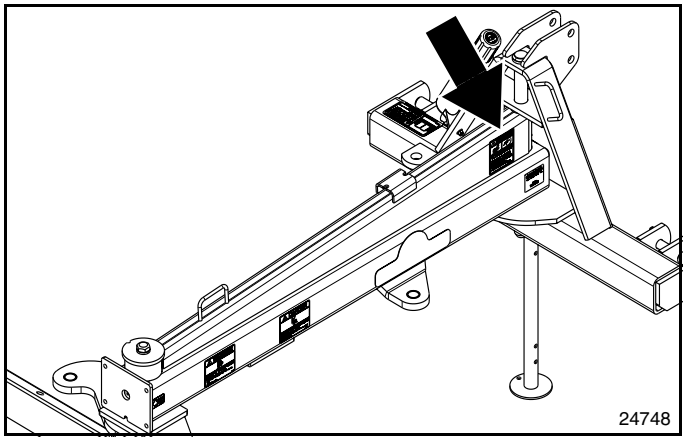
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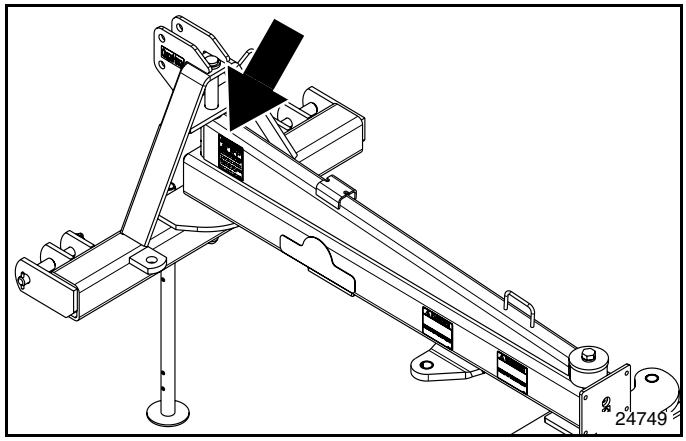
## Safety Labels

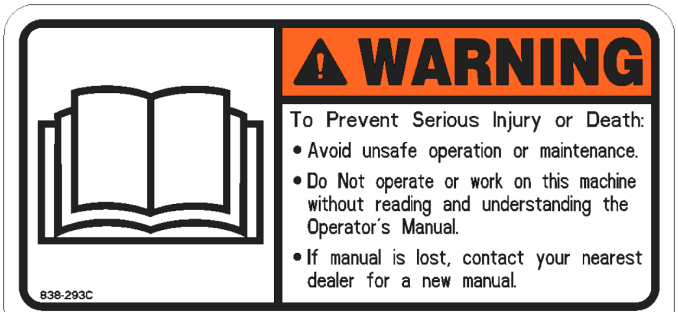
*Your Rear Blade comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.*

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 on the surface where the label is to be placed.*
   c. *Peel backing from label. Press firmly onto the surface.*
   d. *Squeeze out air bubbles with the edge of a credit card or similar type straight edge.*



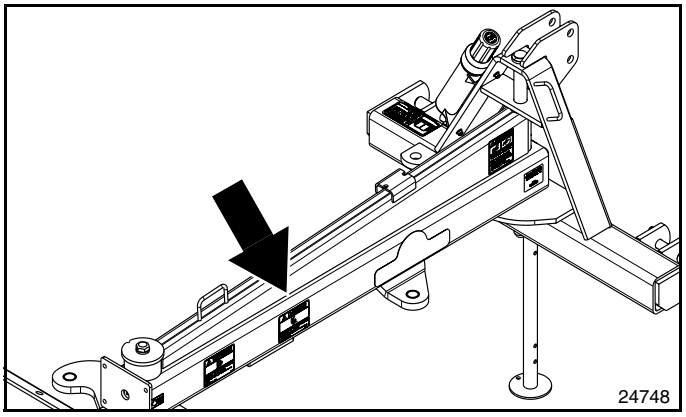

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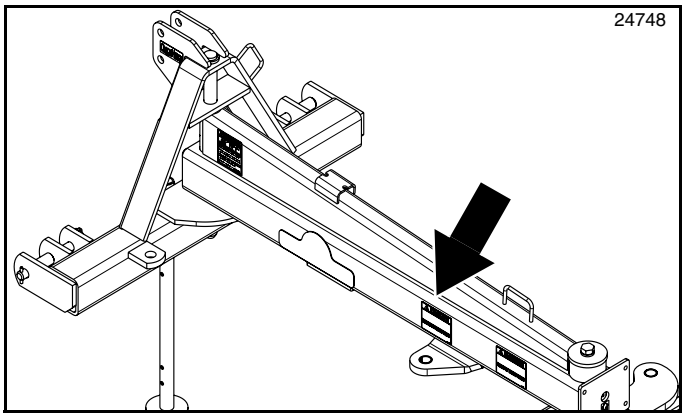
**838-293C**
Warning: Read Operator's Manual
1 Place: On the three point hitch frame

70372




**818-339C**
Warning: High Pressure Fluid Hazard
2 Places: On both sides of the mainframe

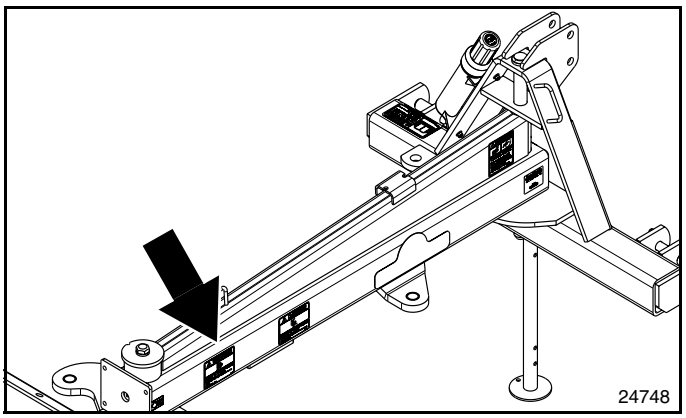


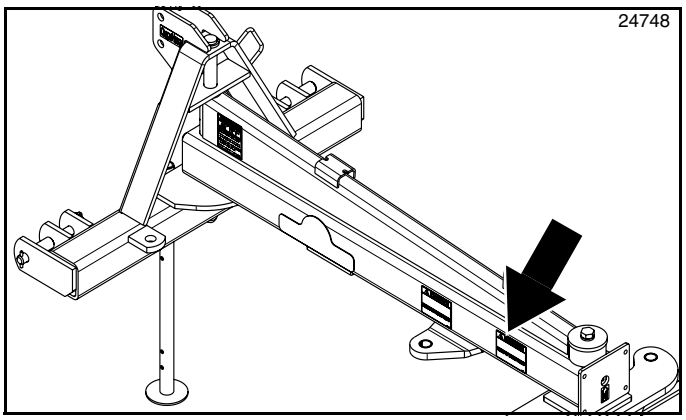




74505




**818-487C**
Danger: Crushing or Pinching Hazard
2 Places: On both sides of the mainframe

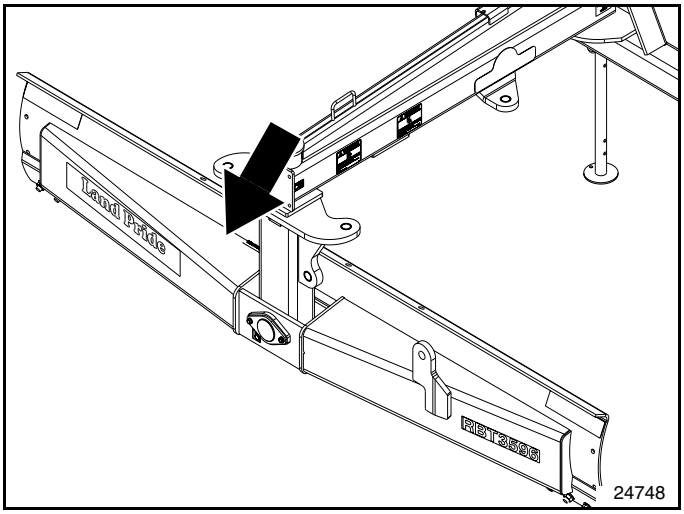


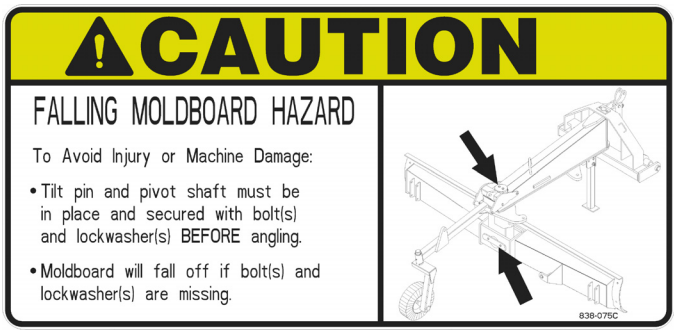




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**818-491C**
Warning: Pinching or Shearing Hazard
2 Places: On both sides of the mainframe



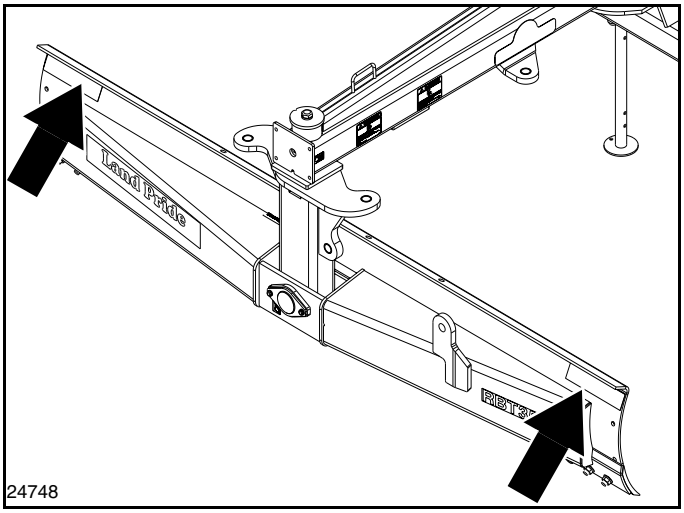



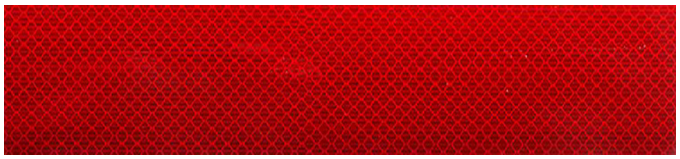

70330

**838-075C**

Caution: Falling Moldboard Hazard

1 Place: On the back of the moldboard support frame



**838-614C**

Red Reflector: 2" x 9"

2 Places: On the back side of the moldboard

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Land Pride welcomes you to the growing family of new product owners. This Rear Blade 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 Land Pride RBT35 Series 3-Way Position Blades are an excellent choice for leveling, finish grading, and backfilling applications at feedlots, outdoor arenas, building sites, nurseries, and maintenance operations on farms, ranches, or home owner lanes or roadways. They are excellent for snow removal in pulling or push-blade mode. Their hydraulic or manual angle, offset, and tilt capability make them an excellent choice for construction and maintenance of drainage ditches, waterways, and soil contours. They are also very effective in maintaining silage pit operations.

The RBT35 Series Rear Blades are designed for Category I or II 3-Point hitch mounting, attachment to two wheeled drive tractors in the 35 to 80 hp range or 4 wheeled drive tractors in the 35 to 65 horsepower range and are Quick Hitch compatible. They come in 84" and 96" working widths. The 17" tall rolled moldboard with its reversible cutting blade can be manually angled left or right up to 40$^{o}$ or hydraulically angled left or right up to 50$^{o}$. The ends can be tilted up or down 20$^{o}$, and the whole blade can be offset to the left or right by as much as 30". The blade can be rotated 180$^{o}$ for blading in reverse with the same angling, tilting, and offset capabilities. A retractable parking stand is included to accommodate easier blade removal, storage, and reattachment.

See **"Specifications & Capacities"** on page 32 and **"Features & Benefits"** on page 33 for additional information and performance enhancing options.

## Using This Manual

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

### Terminology

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

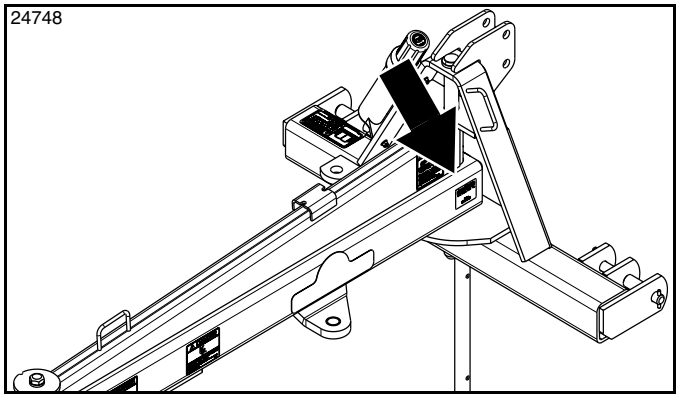
## Owner Assistance

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 Rear Blade 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 correspondence with your Land Pride dealer. For location of your serial number plate, see Figure 1.




**Serial Number Plate Location**
**Figure 1**

### Further Assistance

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

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

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

E-mail address
lpservice@landpride.com

## Tractor Requirements

### Horsepower

Tractor rating should be between 35 - 80 horsepower. Tractors outside this range must not be used.

### Weight

**⚠ 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 weight requirements and maximum limitations.*

Tractor weight must be capable of controlling the Rear Blade under all operating conditions. An underweight tractor is difficult to steer. Do not use tractors that are too light. See Important Note Below.

### 3-Point Hitch Assembly

A 3-Point Category I or II hitch is required. The lower 3-Point arms must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

### Hydraulic Outlets

**⚠ WARNING**

*To avoid serious injury or death:*

*Hydraulic fluid under high pressure will penetrate the skin or eyes causing serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulics. Use a piece of cardboard or wood, rather than hands, when searching for leaks. If an accident occurs, seek immediate emergency medical care or gangrene may result. DO NOT DELAY.*

The number of required hydraulic duplex outlets is dependent upon how the Rear Blade is set-up.

- No outlets are required if Rear Blade is set-up with manual links and ratchet jackets only.
- One to three duplex outlets are required if Rear Blade is set-up with any one or more of the following hydraulic cylinders; Offset Cylinder, Tilt Cylinder, and Angle Cylinder. Each cylinder will requires a duplex outlet at the tractor.
- A fourth duplex outlet is required if a gauge wheel is purchased with a hydraulic cylinder.

A Selector Valve Kit may be purchased through your local Land Pride dealer if your tractor does not have the required number of duplex outlets. The selector valve provides a way to operate 2 hydraulic cylinders through one duplex outlet at the tractor. See **"Hydraulic Selector Valve (Accessory)"** on page 18 for Kit Part No. and assembly instructions.

## Torque Requirements

See **"Torque Values Chart"** on page 34 to determine correct torque values when tightening hardware.

## 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 ignition 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.

## Assembly & Set-Up Safety

### DANGER

*To avoid serious injury or death:*

- *Components falling from the implement can injure a person. Make certain all components are secured to the implement before lifting it, and that the unit is properly supported on the ground before removing lifting device. Always keep feet and other extremities clear of areas where components can fall.*
- *Always check all blade hardware for tightness before moving or working around the unit. Make sure moldboard pivot and tilt retaining hardware is tightened to the correct torque. The moldboard can fall from the its pivot mount or tilt mount if retaining hardware is loose or missing.*

### WARNING

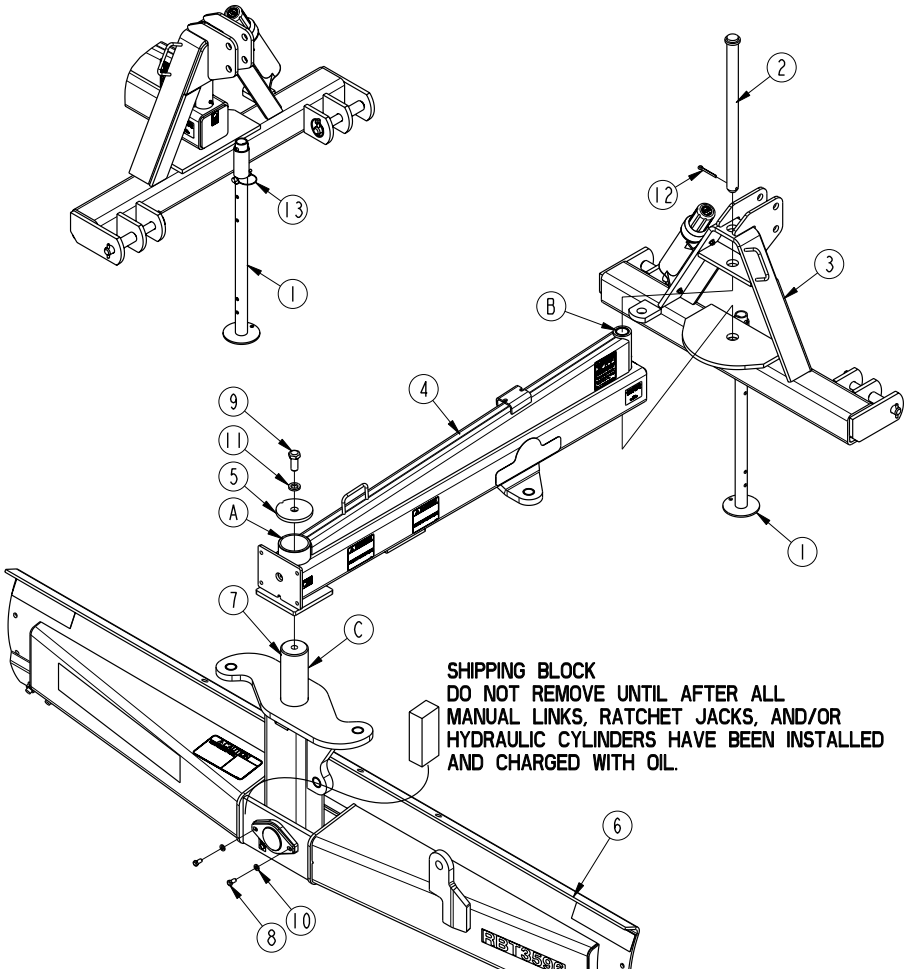
*To avoid serious injury or death:*

*Do not remove shipping block from blade tilt housing until after all manual links, ratchet jack, and/or hydraulic cylinders have been installed and cylinders have been charged with oil.*

## RBT35 Rear Blade

***Refer to Figure 1-1:***

1. Locate shipping crate on a level surface. Remove & separate blade assemblies from shipping crate.
2. Continue with instructions on page 12.
3. Remove paint from inside of pivot tube “A” and from outside of pivot shaft “C”.
4. Add grease to inside of pivot tubes “A” & “B”.
5. Use a lifting device to set blade pivot assembly (#7) upright.
6. Remove bolt (#9), lock washer (#11), and pivot cap (#5). **Do not remove shipping block in blade tilt housing until after ratchet jack or hydraulic cylinder for blade tilting is installed and cylinder is charged with oil.**
7. Carefully insert blade pivot assembly (#7) into mainframe (#4) at a 90° angle to the frame.
8. Reinstall pivot cap (#5), lock washer (#11), and 3/4"-16 x 1 3/4" GR5 hex head cap screw (#9). Tighten cap screw (#9) to the proper torque.
9. Remove cotter pin (#12) and front pivot shaft (#2).




**Rear Blade Assembly**
**Figure 1-1**

10. Secure front hitch (#3) to a to a tractor or other lifting device. Refer to **"3-Point Hook-Up"** below.
11. Insert mainframe (#4) into front hitch (#3) as shown. Install pivot shaft (#2) and cotter pin (#12). Bend both legs of the cotter pin to secure the pivot shaft and pin.
12. Remove wire pin (#13) and slide support stand (#1) down. Re-install wire pin as shown. Lower front hitch to ground and unhook lifting device.
13. Re-check all hardware for tightness. Torque all bolts to specifications as listed in the **"Torque Values Chart"** on Page 34.

**IMPORTANT:** Bolts (#8) are factory installed with blue Loctilte adhesive on their threads.

14. Check pivot bolt (#9) and tilt bolts (#8) for tightness. If needed, tighten bolt (#9) to the correct torque. If bolts (#8) are loose, add blue Loctite to the threads and then tighten bolts (#8) to the correct torque.

## 3-Point Hook-Up

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

### 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 weight requirements and maximum limitations.*
- *Always shut tractor down according to "Tractor Shutdown Procedure" provided in this manual before allowing anyone including the operator to connect or disconnect the implement.*

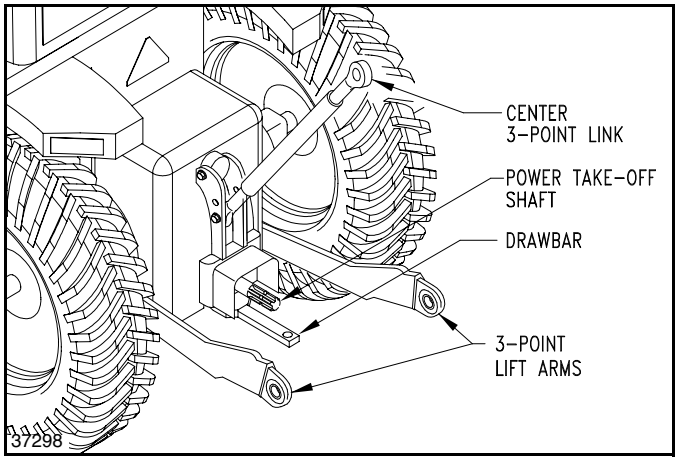
**NOTE:** Land Pride's Quick Hitch can be attached to the tractor to provide quick and easy 3-point hook-up and detachment. See your nearest Land Pride dealer to purchase a Quick-Hitch.

A 3-Point Category I or II hitch is required. The lower 3-Point arms of 3-Point hitch must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

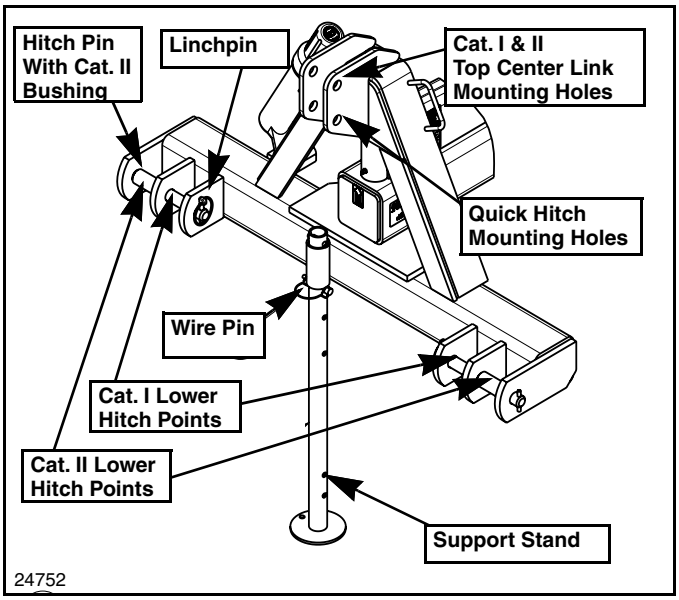
1. Shorten or remove tractor drawbar to keep it from interfering with Rear Blade blade.
2. Ensure lower hitch arms are stabilized to prevent excessive side movement.
3. Slowly back tractor up to Rear Blade while using tractor's 3-Point hydraulic control to align lower hitch link holes with Rear Blade lower hitch point holes.
4. Engage tractor park brake, shut tractor engine off, and remove key before dismounting from tractor.
5. With tractor's lower hitch arms aligned and positioned in clevises, insert hitch pins through clevis lugs and lower arm holes. Be sure to use bushings when making a Cat. II hook-up. Secure hitch pins with linchpins.

**IMPORTANT:** The top center 3-Point link should be removed from the blade and tractor before using gauge wheel accessory.

6. Connect top center link to upper pivot hitch mounting holes using customer supplied clevis pin and linchpin.
7. Remove wire pin and raise support stand fully up. Reinsert wire pin and secure in place.




**Tractor 3-Point Hitch**
**Figure 1-2**




**Rear Blade 3-Point Hitch**
**Figure 1-3**

8. Return to tractor and slowly operate controls up and down to check for clearance. Make certain Rear Blade does not interfere with tractor hitch, tires, and drawbar. Move or remove drawbar if it interferes.
9. Manually adjust one of two lower lift arms up or down to level Rear Blade from left to right.
10. Manually adjust length of top-link to level Rear Blade from front to rear.

## Blade Offset Cylinder (Option)

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

**WARNING**

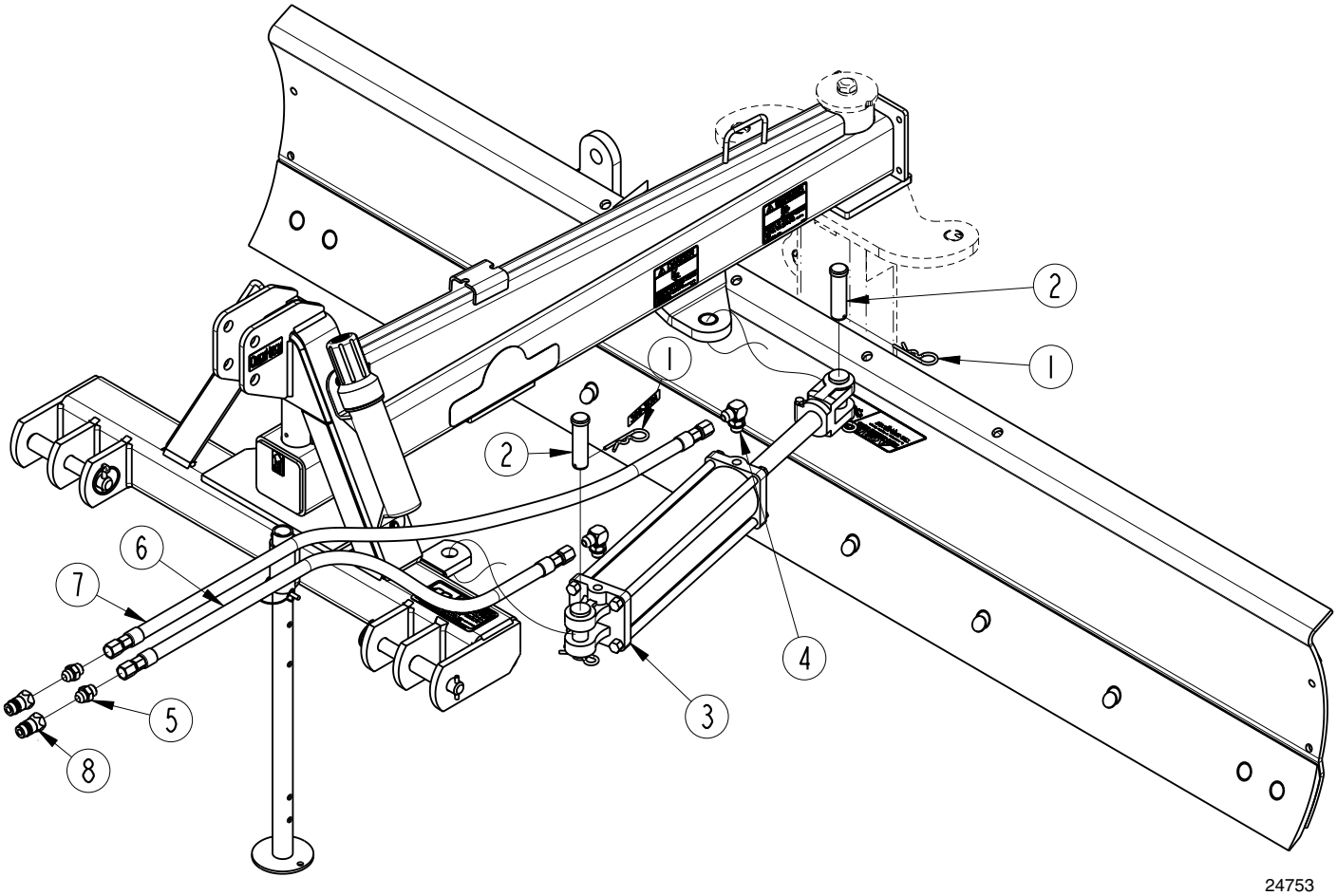
*To avoid serious injury or death:*

*Do not remove shipping block from blade tilt housing until after all manual links, ratchet jack, and/or hydraulic cylinders have been installed and cylinders have been charged with oil.*

**IMPORTANT:** Make certain your do not use the 90 degree elbow with a small orifice opening when assembling blade offset cylinder. The blade tilting cylinder will use this elbow.

**IMPORTANT:** Attach cylinder base to the front cylinder mount. The base will interfere with the mainframe if attached to rear cylinder mount.

1. Position hydraulic cylinder (#3) with ports on top as shown. Select two 90 degree elbows (#4) without an orifice end and install them into the cylinder ports as shown. Tighten as needed.
2. Attach hydraulic cylinder to lugs located on left side of Rear Blade with clevis pins (#2). Make sure hydraulic ports are positioned on top and cylinder base is positioned to the front as shown.
3. Secure clevis pins with hair pin cotters (#1).
4. Thread adapter fittings (#5) into the other end of the hydraulic hoses and tighten.
5. Thread quick disconnect couplers (#8) to adapter fittings (#5).
6. Screw 78" long hydraulic hose (#6) onto elbow (#4) at the cylinder base and tighten.
7. Screw 87" long hydraulic hose (#7) onto elbow (#4) at the cylinder rod end and tighten.




**Blade Offset Hydraulic Cylinder Assembly**
**Figure 2-1**

## Blade Angling Cylinder (Option)

***Refer to Figure 2-2:***

**WARNING**

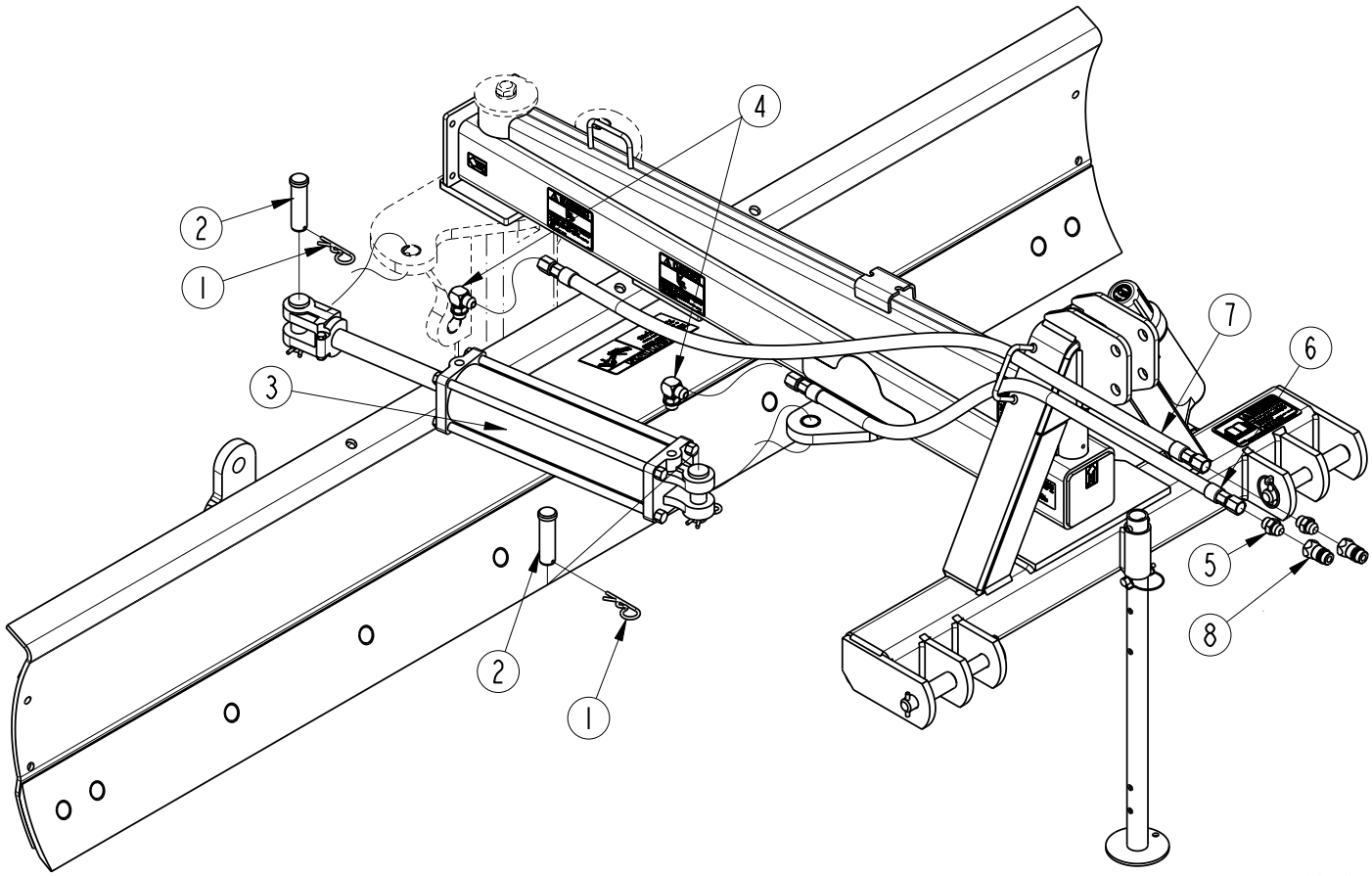
*To avoid serious injury or death:*

*Do not remove shipping block from blade tilt housing until after all manual links, ratchet jack, and/or hydraulic cylinders have been installed and cylinders have been charged with oil.*

**IMPORTANT:** Make certain you do not use the 90 degree elbow with a small orifice opening when assembling blade angling cylinder. The blade tilting cylinder will use this elbow.

**IMPORTANT:** Attach cylinder base to the front cylinder mount. The base will interfere with the mainframe if attached to rear cylinder mount.

1. Position hydraulic cylinder (#3) with ports on top as shown. Select two 90 degree elbows (#4) without an orifice end and install them into cylinder ports as shown. Tighten as needed.
2. Attach hydraulic cylinder to lugs located on right side of Rear Blade with clevis pins (#2). Make sure hydraulic ports are positioned on top and cylinder base is positioned to the front as shown.
3. Secure clevis pins with hair pin cotters (#1).
4. Thread adapter fittings (#5) into other end of the hydraulic hoses and tighten.
5. Thread quick disconnect couplers (#8) to adapter fittings (#5).
6. Screw 78" long hydraulic hose (#6) onto elbow (#4) at the cylinder base and tighten.
7. Screw 87" long hydraulic hose (#7) onto elbow (#4) at the cylinder rod end and tighten.
8. Route hoses through hose bracket located on right side of front hitch. Connect hoses to tractor's hydraulic system.




**Blade Angling Hydraulic Cylinder Assembly**
**Figure 2-2**

## Blade Tilting Cylinder (Option)

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

### ⚠ WARNING

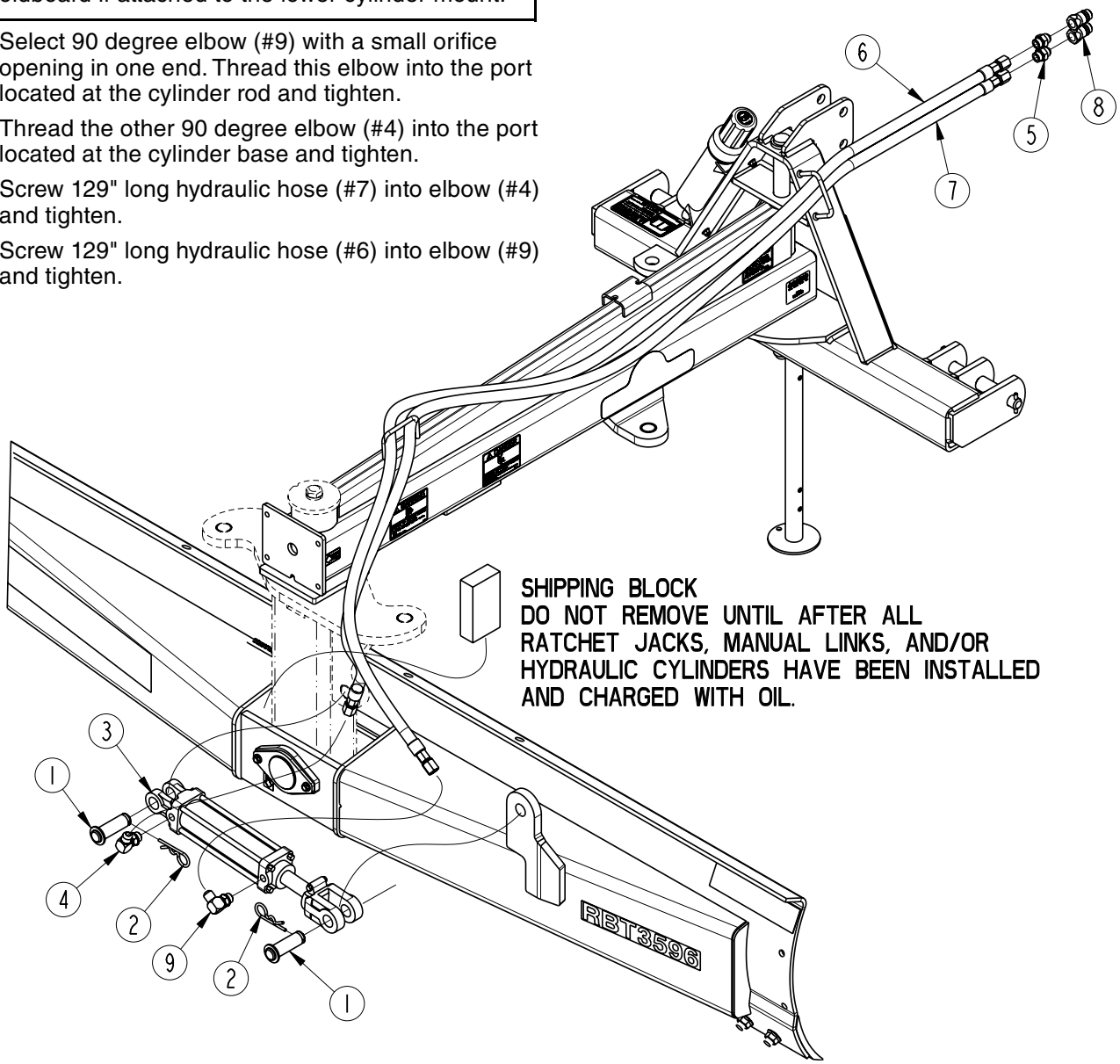
*To avoid serious injury or death:*

*Do not remove shipping block from blade tilt housing until after all manual links, ratchet jack, and/or hydraulic cylinders have been installed and cylinders have been charged with oil.*

**IMPORTANT:** The blade tilt cylinder receives a 90 degree elbow with a small orifice in one end of the elbow. Make sure this orifice elbow is installed in the cylinder port at the rod end of the tilt cylinder.

**IMPORTANT:** Attach cylinder base to the upper cylinder mount. The base will interfere with the moldboard if attached to the lower cylinder mount.

1. Select 90 degree elbow (#9) with a small orifice opening in one end. Thread this elbow into the port located at the cylinder rod and tighten.
2. Thread the other 90 degree elbow (#4) into the port located at the cylinder base and tighten.
3. Screw 129" long hydraulic hose (#7) into elbow (#4) and tighten.
4. Screw 129" long hydraulic hose (#6) into elbow (#9) and tighten.
5. Thread adapter fittings (#5) to other end of hydraulic hoses and tighten.
6. Thread quick disconnect couplers (#8) to adapter fittings (#5).
7. Attach hydraulic cylinder (#3) to the lugs at back of blade with clevis pins (#1). Make sure hydraulic ports are positioned pointing back and cylinder base is attached to the center lug as shown.
8. Secure clevis pins with hair pin cotters (#2).
9. Route hoses through hose brackets located on mainframe and hitch.
10. Connect hoses (#6 & #7) to tractor's hydraulic system and charge hydraulic cylinder (#3) with oil.
11. The shipping block can be removed once hydraulic cylinder (#3) is installed and charged with oil.




**Blade Tilting Hydraulic Cylinder Assembly**
**Figure 2-3**

24755

## ⚠ WARNING

*To avoid serious injury or death:*

*Do not remove shipping block from blade tilt housing until after all manual links, ratchet jack, and/or hydraulic cylinders have been installed and cylinders have been charged with oil.*

## Manual Blade Angling (Option)

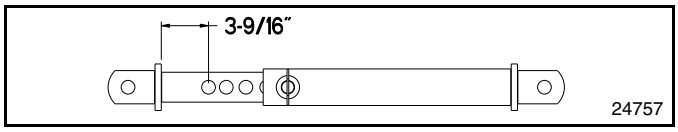
***Refer to Figure 2-4 & Figure 2-6:***

1. Select correct manual link for blade angling. This is the link with the first hole 3 9/16" from clevis stop.
2. Attach blade angling links (#1 & #3) to right side of Rear Blade as shown with two 1" clevis pins (#7). Secure with hair pin cotters (#6).
3. Adjust blade angle by removing hitch pin (#5) and moving female link (#3) to a different hole. Replace hitch pin and secure with hair pin cotter (#6).

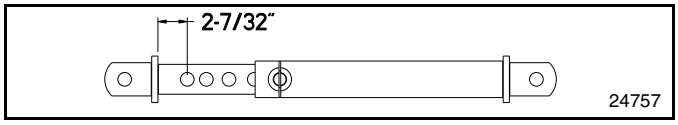
## Manual Blade Offset (Option)

***Refer to Figure 2-5 & Figure 2-6:***

1. Select correct manual link for blade offsetting. This is the link with the first hole 2 7/32" from clevis stop.
2. Attach blade offset links (#2 & #3) to left side of Rear Blade as shown with two 1" clevis pins (#7). Secure with hair pin cotters (#6).
3. Adjust offset angle by removing hitch pin (#5) and moving female link (#3) to a different hole. Replace hitch pin and secure with hair pin cotter (#6).




**Manual Link for Blade Angling**
**Figure 2-4**

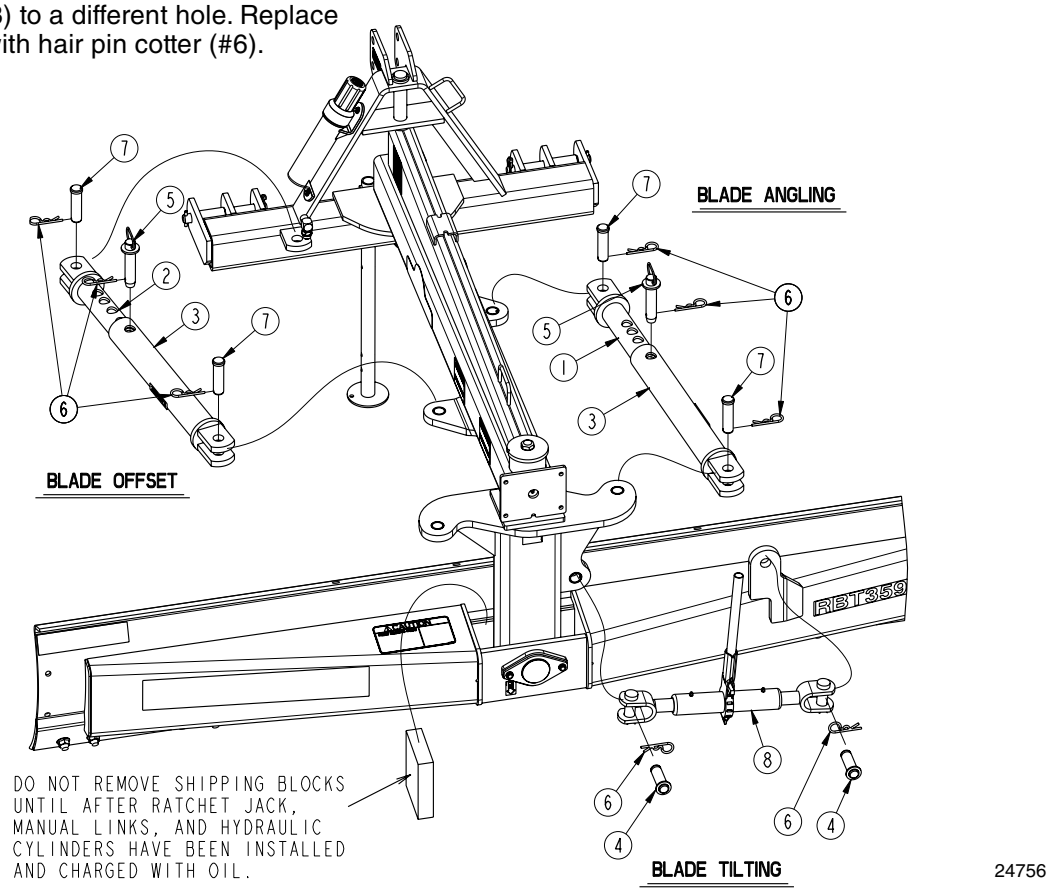



**Manual Link for Blade Offset**
**Figure 2-5**

## Manual Blade Tilting (Option)

***Refer to Figure 2-6:***

1. Attach ratchet jack (#8) to back side of Rear Blade as shown with two 1" clevis pins (#4). Secure with hair pin cotters (#6).
2. Adjust blade tilt by setting lock on ratchet lever and pump lever back and forth to raise or lower one end of the blade. Reposition ratchet lock and pump lever back and forth to tilt blade in the opposite direction.
3. Remove shipping block only after ratchet jack (#8) has been installed or if installing hydraulic cylinder, only after the hydraulic cylinder is installed and charged with oil.

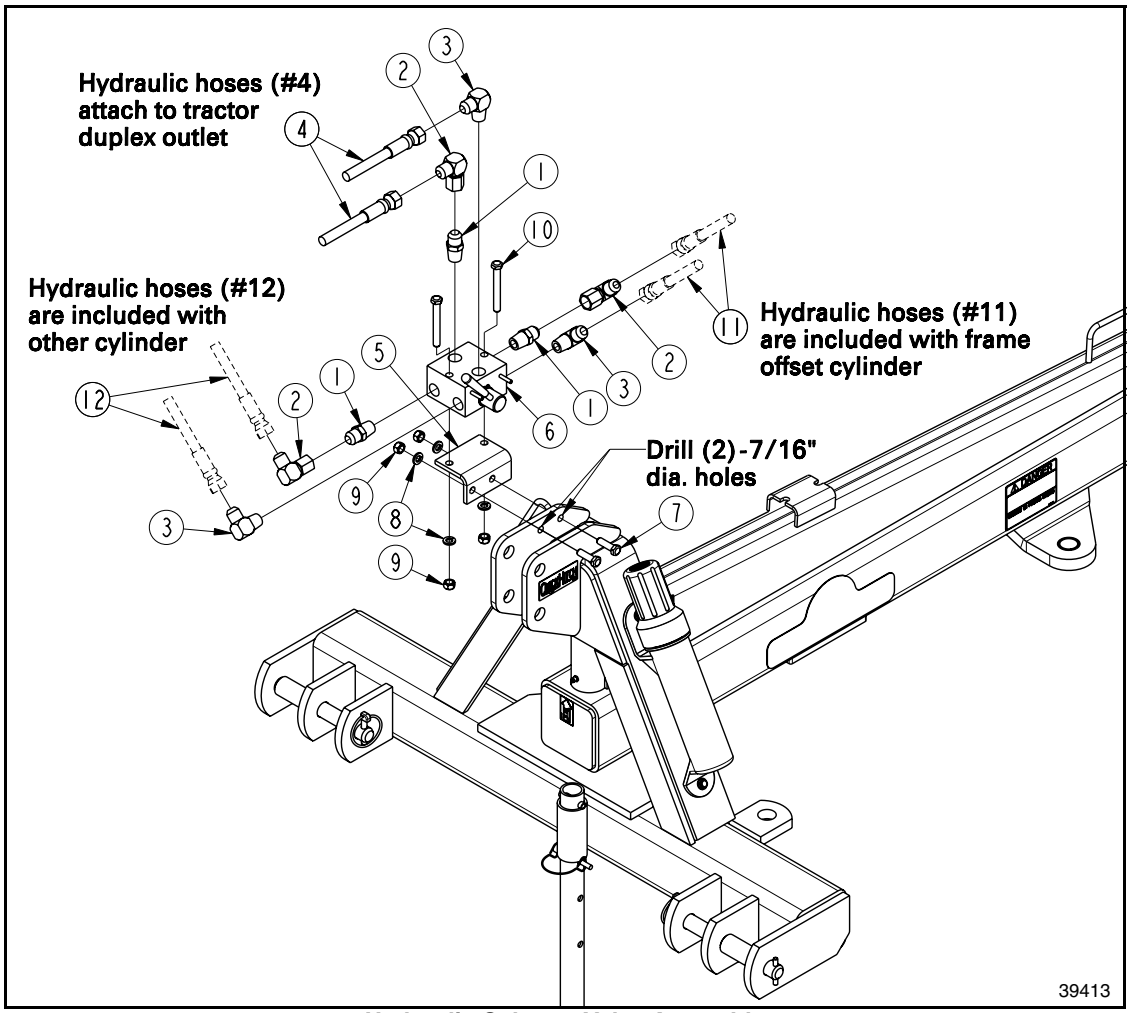



**Manual Blade Offset, Angling and Tilt Assembly**
**Figure 2-6**

## Hydraulic Selector Valve (Accessory)

***Refer to Figure 2-7:***

1. Using selector mount (#5) as a template, locate and drill two 7/16" diameter holes on right side of hitch plate as shown.
2. Attach selector mount (#5), to the right side of hitch with two 3/8"-16 x 1 1/4" GR5 hex head cap screws (#7), spring lock washers (#8), and hex nuts (#9). Tighten nuts to the correct torque.
3. Attach double selector valve (#6) to selector mount (#5) with two 3/8"-16 x 3" GR5 hex head cap screws (#10), spring lock washers (#8), and hex nuts (#9). Tighten nuts to the correct torque.
4. Apply Teflon tape to pipe threads on the three 3/4MIJC x 1/2MNPT elbows (#3) and screw them into the double selector valve as shown. Tighten elbows to the orientation shown.
5. Apply Teflon tape to pipe threads on the three 3/4MJIC x 1/2MNPT adapters (#1) and screw them into the double selector valve as shown until tight.
6. Attach the three 3/4FJIC x 3/4MJIC elbows (#2) to adapters (#1) and tighten to the correct orientation.
7. Attach frame offset hydraulic hoses (#11) to elbows located on back of selector valve.
8. Attach hydraulic hoses (#12) from one of the other cylinders to elbows located on front of the selector valve.
9. Attach tractor connected hydraulic hoses (#4) to elbows located on top of selector valve.
10. Thread hydraulic couplings (couplings supplied by customer) onto hydraulic hoses (#4) and tighten.




**Hydraulic Selector Valve Assembly**
**Figure 2-7**

## Cushion Valve (Accessory)

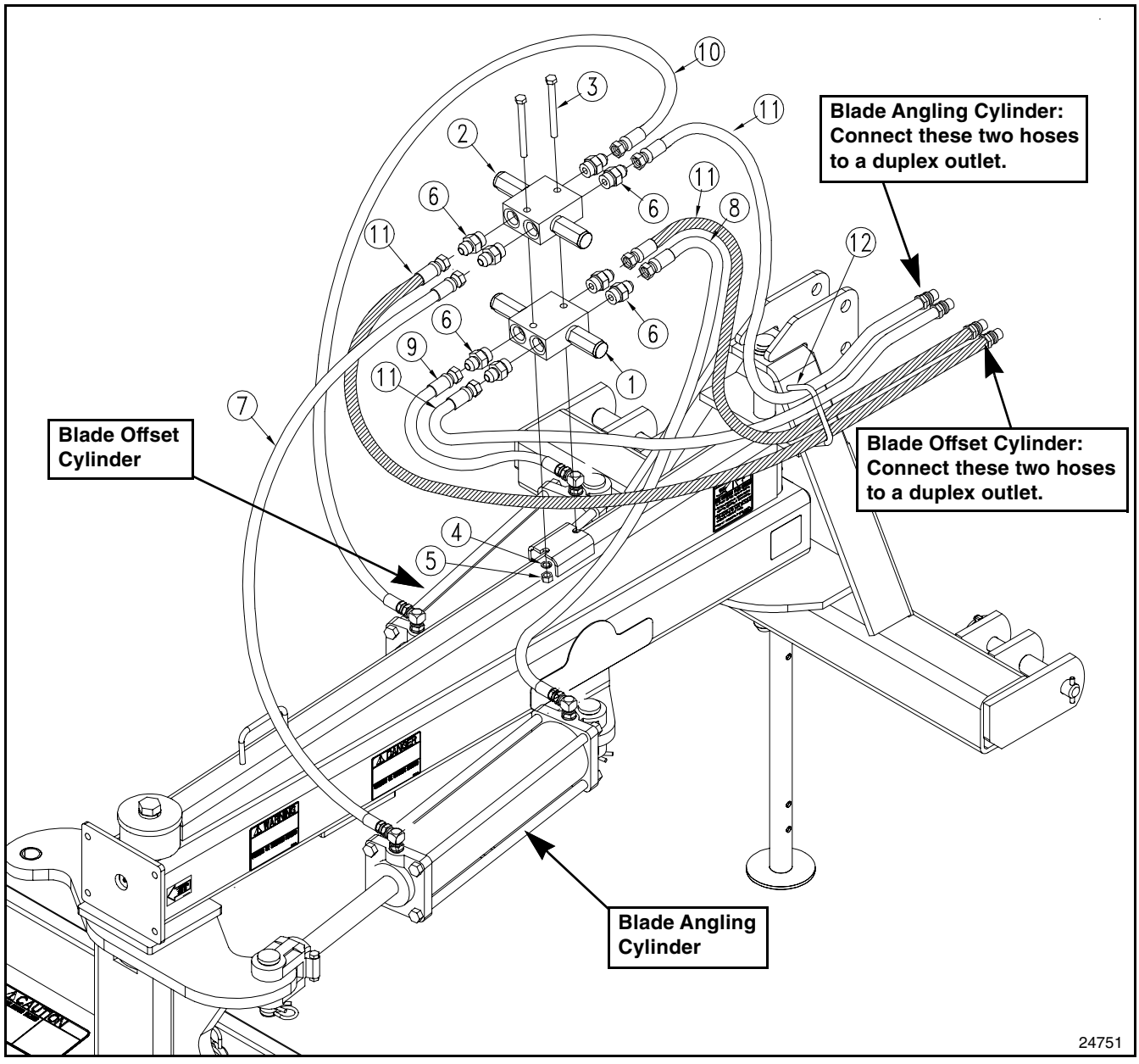
***Refer to Figure 2-8:***

**CAUTION**

*To avoid minor or moderate injury:*

*Do not operate Rear Blade with angling or offset cylinder fully extended. Fully extending either cylinder will keep cushion valves from operating correctly.*

1. Mount cushion valves (#1 & #2) onto the mounting plate with 3/8"-16 x 4" GR5 hex head cap screw (#3), spring lock washer (#4), and hex hut (#5). Tighten hex nuts to correct torque.
2. Screw eight fittings (#6) into both cushion valves (#1 & #2) until tight.
3. Attach hydraulic hose (#7) to the rear right fitting of cushion valve (#2) as shown.
4. Attach hydraulic hose (#8) to the front right fitting of cushion valve (#1) as shown.
5. Attach hydraulic hose (#9) to the rear left fitting of cushion valve (#1) as shown.
6. Attach hydraulic hose (#10) to the front left fitting of cushion valve (#2) as shown.
7. Attach the four hydraulic hoses (#11) included with this option to the remaining cushion valve fittings and thread them through hose retainer (#12).




**Hydraulic Cushion Valve Assembly**
**Figure 2-8**

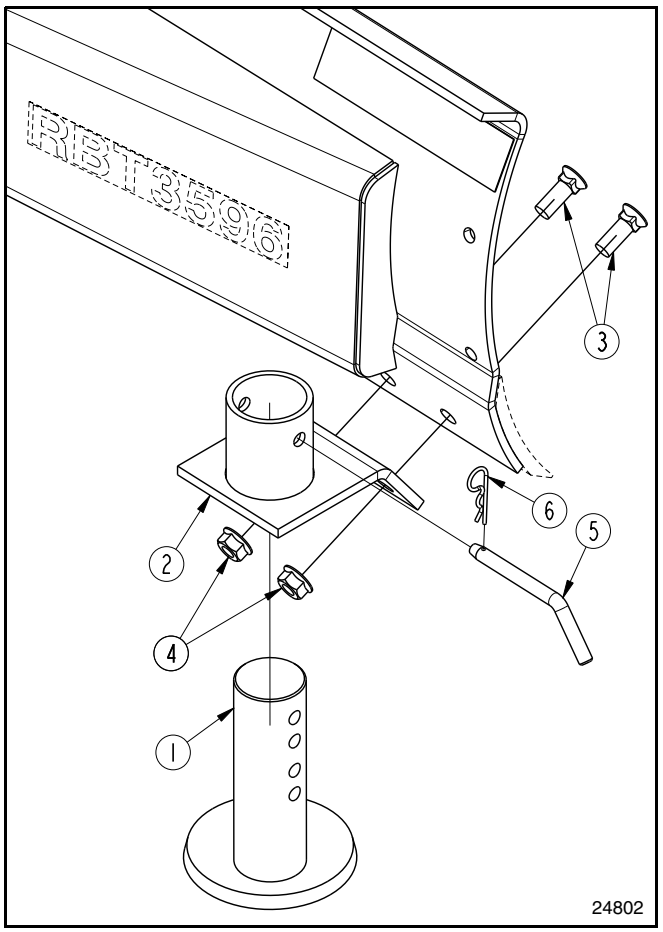
## Skid Shoes (Accessory)

### Kit Bundle (Pair of skid shoes)

301-333A . . . . . SKID SHOE ASSEMBLY

***Refer to Figure 2-9:***

1. Remove two 5/8"-11 x 1 3/4" GR5 plow bolts (#3) from end of blade. Keep hardware for installation of skid shoes.
2. Attach skid shoe bracket (#2) with 5/8"-11 x 1 3/4" GR5 plow bolts (#3) and hex flange locknuts (#4). Tighten hardware to the correct torque.
3. Insert skid shoe (#1) into skid shoe bracket (#2). Secure with bent pin (#5) and hairpin cotter (#6).
4. Repeat steps 1 through 3 for the other side.



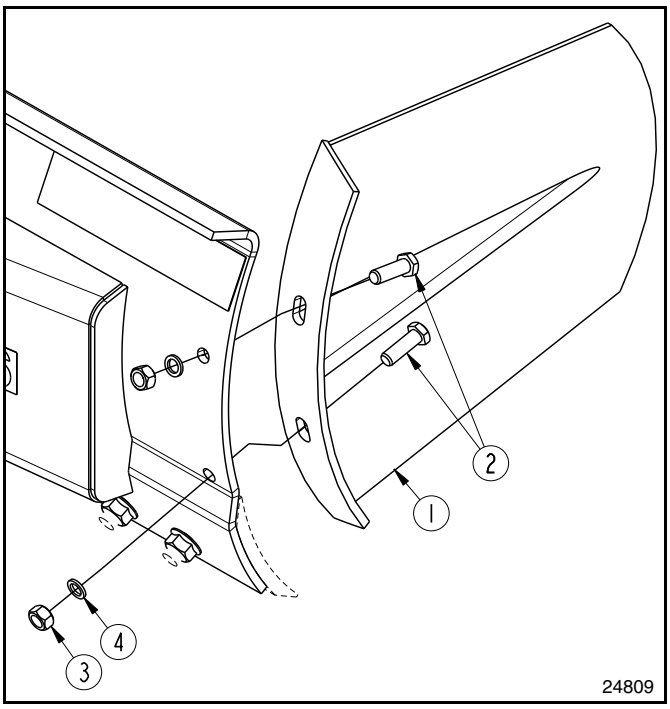

**Skid Shoe Assembly (Right-hand Shown)**
**Figure 2-9**

## End Plates (Accessory)

### Kit Bundle (Pair of End Plates)

***Refer to Figure 2-10:***

1. Attach right-hand end plate (#1) to moldboard as shown with two 1/2"-13 x 1 1/2" GR5 hex head cap screws (#2), spring lock washer (#4), and hex nuts (#3). Tighten hardware to correct torque.
2. Repeat step 1 for left-hand end plate.




**End Plate Assembly (Right-hand Shown)**
**Figure 2-10**

## Single Gauge Wheel (Accessory)

***Refer to Figure 2-11:***

**IMPORTANT:** The top center 3-Point link should be removed from the blade and tractor before using gauge wheel accessory.

### Ratchet Jack Option

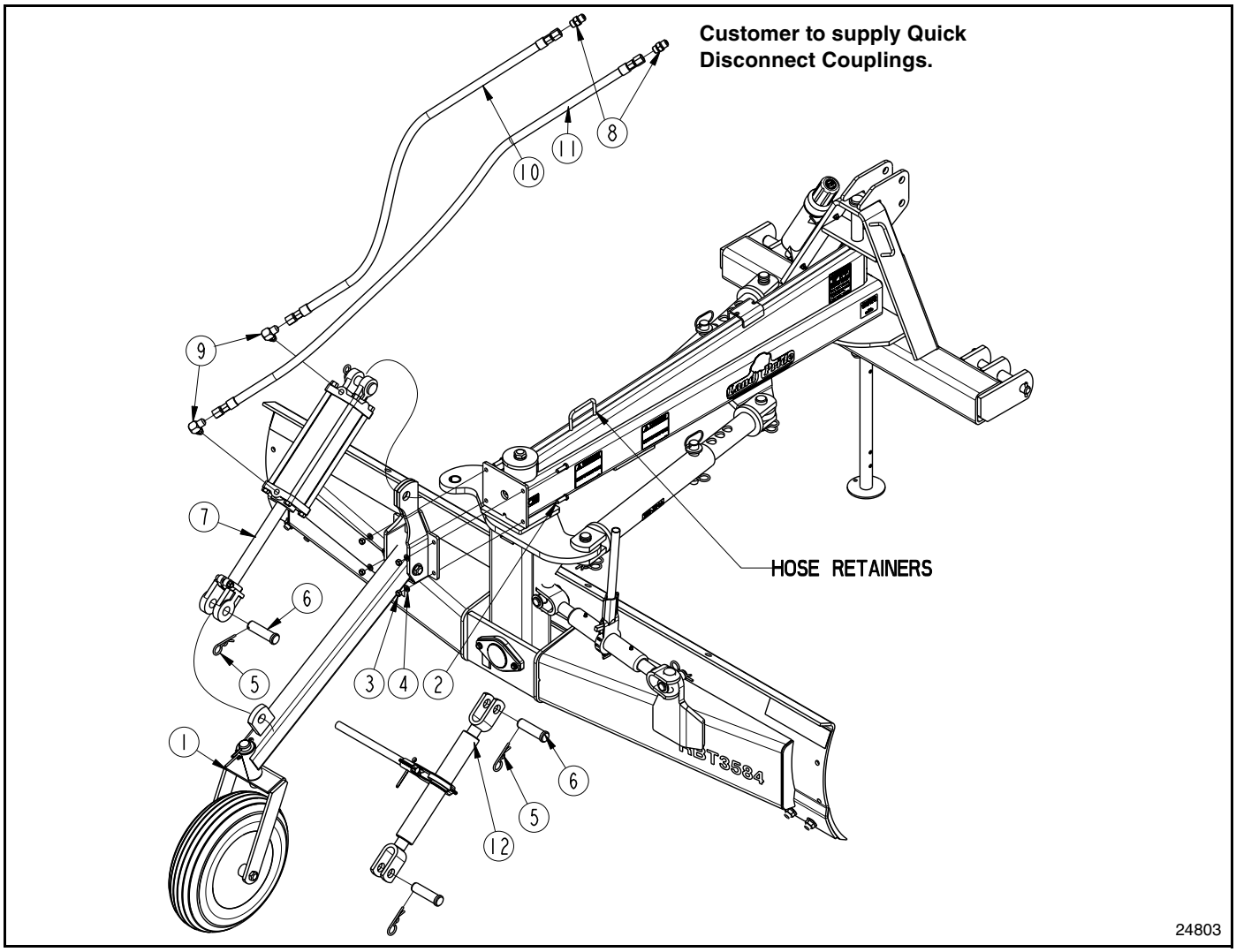
1. Attach gauge wheel (#1) to back mounting plate with four 3/8"-16 GR5 hex head cap screws (#2), lock spring washers (#4), and nuts (#3). Tighten nuts to the correct torque.
2. Attach ratchet jack (#12) to mounting lugs on gauge wheel (#1) with two 1" clevis pins (#6). Secure with hair pin cotters (#5).

### Hydraulic Cylinder Option

1. Attach gauge wheel (#1) to back mounting plate with four 3/8"-16 GR5 hex head cap screws (#2), lock spring washers (#4), and nuts (#3). Tighten nuts to the correct torque.
2. Position hydraulic cylinder (#7) with ports on top as shown. Thread 90 degree elbows (#9) into the two ports and tighten.
3. Screw 116" long hydraulic hoses (#10 & #11) onto elbows (#9) and tighten.
4. Thread adapter fittings (#8) to other end of hydraulic hoses and tighten. (Customer to supply quick disconnect hydraulic couplings.)

**IMPORTANT:** Attach cylinder base to the front mounting lug. The base will interfere with the gauge wheel arm if attached to the rear mounting lug.

5. Attach hydraulic cylinder to mounting lugs on the gauge wheel with two 1" clevis pins (#6). Make sure hydraulic ports are positioned on top and cylinder base is located facing forward as shown.
6. Secure clevis pins with hair pin cotters (#5).
7. Thread hydraulic hoses through the two hose retainers.




**Single Gauge Wheel Assembly**
**Figure 2-11**

## Blade Pitch

Blade pitch can be adjusted by lengthening or shortening tractor's top center 3-Point link. Increasing blade pitch will increase blade digging ability.

Lengthen link to increase blade pitch when grading while traveling forward. Shorten link to decrease blade pitch.

The opposite is true if backfilling. Shorten link to increase blade pitch and lengthen link to decrease blade pitch. To help protect Rear Blade from damage while backfilling, lengthen tractor's center top link until blade will move across top of ground without forcing itself into the soil.

## Blade Offset

### WARNING

*To avoid serious injury or death:*

*Never fully extend or retract the hydraulic cylinder(s) without first checking to make sure the implement does not make contact with the tractor tires. Extending implement into the tractor tires can result in loss of control and damage to the implement and/or tractor.*

### Manual Offset Adjustment

***Refer to Figure 2-6 on page 17:***

The blade offset has 9 adjustments up to 30" left or right. (center position, 4 positions right, and 4 positions left)

1. Manually adjust blade offset by removing hitch pin (#5) and moving inner link (#1) to a different hole position.
2. Replace hitch pin and secure with hair pin cotter (#6).

### Hydraulic Offset Adjustment

***Refer to Figure 2-1 on page 14:***

### WARNING

*To avoid serious injury or death:*

*Never fully extend or retract the hydraulic cylinder(s) without first checking to make sure the implement does not make contact with the tractor tires. Extending implement into the tractor tires can result in loss of control and damage to the implement and/or tractor.*

The blade can be offset hydraulically by as much as 30" to the right or left with offset cylinder. Operate tractor control lever to change blade offset.

1. If offset cylinder is attached to selector valve, make certain valve lever is set to operate that cylinder.
2. Operate tractor control lever to change blade offset by as much as 30" right or left.

## Blade Angle and Reversing

### WARNING

*To avoid serious injury or death:*

- *Avoid injury from a falling blade. Always check to make sure all hardware is secured before adjusting the blade.*
- *Never fully extend or retract the hydraulic cylinder(s) without first checking to make sure the implement does not make contact with the tractor tires. Extending implement into the tractor tires can result in loss of control and damage to the implement and/or tractor.*

**IMPORTANT:** Make sure angling link is installed correctly before using the blade. If not the blade and/or angle cylinder can be damaged.

### Manual Angle Adjustment

***Refer to Figure 2-6 on page 17:***

There are 9 blade angle positions in 10 degree increments. (center position, 4 clockwise positions, and 4 counterclockwise positions)

1. Adjust blade angle by removing hitch pin (#5) and moving inner link (#1) to a different hole position.
2. Replace hitch pin and secure with hair pin cotter (#6).
3. The blade may also be rotated around 180 degrees.
   a. Disconnect angling link from blade turntable lug.
   b. Rotate Rear Blade clockwise 180 degrees.
   c. Reconnect angling link to turntable lug.

### Hydraulic Angle Adjustment

***Refer to Figure 2-2 on page 15:***

**⚠ WARNING**

*To avoid serious injury or death:*

*Never fully extend or retract the hydraulic cylinder(s) without first checking to make sure the implement does not make contact with the tractor tires. Extending implement into the tractor tires can result in loss of control and damage to the implement and/or tractor.*

**IMPORTANT:** Make sure angle cylinder is installed correctly before using the blade. If not, the blade and/or angle cylinder can be damaged.

Adjust blade angle with angling cylinder by as much as 50 degrees clockwise and counterclockwise. Operate tractor control lever to change blade angle.

1. If angling cylinder is attached to selector valve, make certain the valve lever is set to operate that cylinder.
2. Operate tractor control lever to change blade angle by as much as 50 degrees forward or backward.
3. The blade may also be rotated 180 degrees.
   a. Disconnect angle cylinder from blade turntable lug.
   b. Rotate Rear Blade clockwise 180 degrees.
   c. Reconnect angle cylinder to turntable lug.

## Blade Tilt

**⚠ WARNING**

*To avoid serious injury or death:*

*Avoid injury from a falling blade. Always check to make sure all hardware is secured before adjusting the blade.*

### Manual Tilt Adjustment

***Refer to Figure 2-6 on page 17:***

The blade end can be tilted manually by as much as 20 degrees with the ratchet jack (#8).

1. Set ratchet lock. Pump jack lever back and forth to raise one end of blade higher than the other end.
2. Reposition ratchet lock. Pump jack lever back and forth to tilt blade in the opposite direction.

### Hydraulic Tilt Adjustment

***Refer to Figure 2-3 on page 16:***

The blade end can be tilted hydraulically with tilt cylinder by as much as 20 degrees. Operate tractor control lever to change blade tilt.

1. If tilting cylinder is attached to the selector valve, make certain the valve lever is set to operate that cylinder.
2. Operate tractor control lever to change blade tilt by as much as 20 degrees.

## Gauge Wheel

***Refer to Figure 2-11 on page 21:***

The gauge wheel provides accurate depth control when grading, leveling, or terracing. Gauge wheel height is determined by adjusting the ratchet jack or hydraulic cylinder.

**IMPORTANT:** The top center 3-Point link should be removed from the blade and tractor before using gauge wheel accessory.

### Manual Gauge Wheel Adjustment

1. Set ratchet jack lock. Pump jack lever back and forth to raise gauge wheel.
2. Reposition ratchet lock. Pump jack lever back and forth to lower gauge wheel.

### Hydraulic Gauge Wheel Adjustment

1. If gauge wheel cylinder is attached to selector valve, make certain the valve lever is set to operate that cylinder.
2. Operate tractor control lever to change gauge wheel height up or down.

## Operating Checklist

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

- **Important Safety Information**, page 1
- **Section 1: Assembly & Set-up,** page 11
- **Section 2: Options, Assembly & Set-Up,** page 14
- **Section 3: Adjustments**, page 22
- **Section 4: Operating Procedures**, page 24
- **Section 5: Maintenance & Lubrication**, page 28

Perform the following inspections before using your Rear Blades.

### Operating Checklist

| ✔ | Check | Page |
|---|---|---|
| | Check 3-Point hook-up procedure. Be sure all pins have been installed and are secured. | Page 13 |
| | All blade adjustments have been made and pins have been installed and are secured. | Page 22 |
| | The operator has read and understood how to operate the Rear Blade. | Page 24 |
| | Read and follow all lubrication instructions. Refer to the section on "Lubrication Points". | Page 29 |
| | Check initially and periodically for loose bolts and pins. Make sure all hardware is tight and that worn or damaged hardware is replaced with properly rated hardware. Refer to the "Torque Values Chart for Common Bolt Sizes" for torque values. | Page 34 |
| | Make sure all safety labels are in their proper location and in good readable condition. | Page 6 |
| | Inspect tractor safety equipment to make sure it is in good working condition and that the air pressure is correct and equal in all tires. | Tractor Manual |

## General Safety

### DANGER

*To avoid serious injury or death:*

- *Always check all blade hardware for tightness before moving or working around the unit. Make sure moldboard pivot and tilt retaining hardware is tightened to the correct torque. The moldboard can fall from the its pivot mount or tilt mount if retaining hardware is loose or missing.*
- *Do not use blade tilt to raise tractor tires off the ground. Improper use of the Rear Blade can damage the unit. The hydraulic system can burst and drop the tractor.*
- *Always keep a safe distance from obstructions. The implement can extend beyond tractor tires and makes a wide swinging pattern when turning. Never hit solid objects with the implement as this can damage property and cause the tractor to pivot violently resulting in loss of control.*

### WARNING

*To avoid serious injury or death:*

- *Never make contact with underground utilities such as electrical power lines, gas lines, phone lines, etc. They can cause serious injury or death from electrocution, explosion, or fire. Always call 811 (USA) or local utility companies before digging so that they can mark the location of underground services in the area. For contact information, see Dig Safe in the "Important Safety Information" starting on page 1.*
- *Do not 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.*
- *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.*
- *Always shut tractor down according to "Tractor Shutdown Procedure" provided in this manual before allowing anyone including the operator to connect or disconnect the implement.*
- *Allow only persons to operate this implement who have fully read and comprehended this manual, and who are properly trained in the safe operation of this implement.*
- *Operate only power machines equipped with a certified Roll-Over Protective Structure (ROPS) and seat belt. Keep folding ROPS in the "locked up" position when appropriate. If ROPS is in the locked up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.*
- *Never fully extend or retract the hydraulic cylinder(s) without first checking to make sure the implement does not make contact with the tractor tires. Extending implement into the tractor tires can result in loss of control and damage to the implement and/or tractor.*
- *Make sure hydraulic hoses are properly routed without twists to prevent becoming stretched, pinched, or kinked. A damaged hydraulic hose can burst and leak hydraulic fluid.*
- *Avoid catching hydraulic hoses on brush, posts, tree limbs, and other protrusions that could damage and/or break them.*
- *Always dress to stay warm in cold weather. Never allow body or extremities to become too cold. Use a cab to provide protection against the cold. Go inside a heated area to warm-up when getting too cold.*

- *Be careful when working areas where obstructions can be hidden. Always mark potential hazards with a visible flag. Travel slowly through high risk areas and be prepared to stop immediately should implement make contact with a solid object.*
- *Never operate hydraulic cylinder(s) with blade in the ground or under load. Improper use can result in loss of control and damage the Rear Blade. Always lift blade up before operating hydraulic cylinder(s).*

**IMPORTANT:** Do not hitch implement to a tractor rated outside the recommended horsepower range. Doing so can bend and/or break the implement.

## Inspection After Hook-Up

Make the following inspections after attaching Rear Blade to tractor:

1. Inspect tractor safety equipment to make sure it is in good working condition.
2. Carefully raise and lower implement to ensure that drawbar, tires, and other equipment on the tractor do not contact the frame and moldboard.
3. Carefully pivot blade fully clockwise and offset blade to align end of moldboard with tractor tire. Raise and lower implement to ensure tractor tire and tractor do not contact end of blade.
4. Carefully pivot blade fully counterclockwise and offset blade to align end of moldboard with tractor tire. Raise and lower implement to ensure tractor tire and tractor do not contact end of blade.
5. 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.

## Transporting

### DANGER

*To avoid serious injury or death:*

*Always keep a safe distance from obstructions. The implement can extend beyond tractor tires and makes a wide swinging pattern when turning. Never hit solid objects with the implement as this can damage property and cause the tractor to pivot violently resulting in loss of control.*

### WARNING

*To avoid serious injury or death:*

- *When traveling on public roadways, travel in such a way that faster moving vehicles may pass safely. Use hazard lights, clean reflectors, and a slow moving vehicle sign that is visible from the back to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.*
- *Make sure implement does not block tractor's Slow Moving Vehicle (SMV) sign when transporting on a public road. If operators in vehicles approaching from the back cannot easily see the sign, then install one on the implement that is visible to warn of your presence.*
- *Transport with implement centered behind the tractor. An implement offset to one side can extend beyond the tractor tire which creates a a higher risk of hitting traffic and other obstructions.*

1. Do not operate a tractor that has weak brakes or worn tires.
2. Select a safe ground speed when transporting from one area to another.
3. Shift to a lower gear when traveling over rough or hilly terrain and when going downhill.
4. When traveling on roadways:
   - Transport with blade centered behind the tractor to minimize blade overhang.
   - Transport with blade facing forward so that the red decals face back and amber decal face front.
   - Transport in such a way that faster moving vehicles may pass you safely.
   - Slow down if traveling on a wet slick road.
5. Leave enough clearance on both sides of Rear Blade when traveling. Reduce ground speed when turning and leave enough clearance so the blade does not contact obstacles such as buildings, trees, or fences.

## Rear Blade Functions

**WARNING**

*To avoid serious injury or death:*

*Never operate hydraulic cylinder(s) with blade in the ground or under load. Improper use can result in loss of control and damage the Rear Blade. Always lift blade up before operating hydraulic cylinder(s).*

**IMPORTANT:** The warranty shall not apply to damage caused by misuse, abuse, or contact with obstructions.

### Grading

Pivot moldboard to the desired angle, lower blade to ground and set tractor's draft-link height control to the desired position. Proceed forward at a speed of no more than 2 to 4 mph. The blade should immediately begin shaving the surface. A blade full of material can be raised slightly so that material can flow out evenly under the blade to effectively shave off high spots and fill in potholes or depressions. Loose soil can be smoothed out by pushing soil with back of moldboard while backing-up.

If a gauge wheel is included, set tractor's draft-link height control to maximum preferred cutting depth. Raise and lower blade with gauge wheel.

### Edge work

Material that is close to fences, buildings, and other obstructions can be graded by offsetting moldboard to the right or left beyond the tractor tire. Always make certain end of blade is offset far enough to be visible to the operator. Always keep a safe distance away from obstructions, drive slowly when passing by them and stay clear of them when turning. Always be aware that the blade will make a wide swinging pattern in a turn and always be ready to stop immediately to keep from hitting an obstruction. Never hit an obstruction as this can damage blade and/or obstruction.

### Ditch Work

The Rear Blade is good for making V-type ditches. Tilt one end of moldboard down to the desired ditching angle. Offset that end to be in line with the tractor's rear tire and pivot other end of moldboard back. The combined offset angle and pivot angle should be between 45° and 60°.

Operate tractor at slow speeds when cleaning a ditch or removing snow. Be careful not to hit hidden solid objects that can damage the Rear Blade. Always be ready to stop immediately. Remember, the lighter the blade load, the easier it is for the tractor to damage the blade when hitting solid objects.

Fill ditches by offsetting blade beyond the tractor wheel to keep tractor out of the ditch. Angle blade to move dirt toward and into the ditch while traveling forward. Set blade depth as needed (see **"Grading"** instructions on this page when setting blade depth).

### Backfilling

Backfilling is a process where the operator turns the blade around 180° and pushes product while backing-up. Be careful not to overstress the Rear Blade while backfilling as load forces on blade and frame increase when backing up. To help protect Rear Blade from damage, lengthen tractor's top center link until blade will move across top of ground without forcing itself into the soil, adjust offset to be straight behind the tractor and set blade angle at 90° (perpendicular to Mainframe). Keep load in center of blade and not on end of blade. Don't ram a load with blade and always operate at slow speeds when backing-up. Be ready to stop immediately if a solid object is hit. Removing snow while backing-up is especially dangerous as snow can hide solid objects and there is a tendency to drive too fast to get the snow removal job done. High speeds multiply forces exerted on the Rear Blade.

## Unhook Rear Blade

**WARNING**

*To avoid serious injury or death:*

*When using the park stand, make sure it is fully down with wire retaining pin fully inserted and wire retainer over end of pin. If not, the implement could fall.*

Unhook Rear Blade from tractor as follows:

1. Park on a level solid hard surface. Place tractor gear selector in park and set park brake.
2. Lower parking jack and secure with hitch pin.
3. Lower blade and parking jack onto level ground or onto blocks supporting unit just above ground.
4. Shut tractor engine off and remove key.
5. If coupled to hydraulic cylinder(s), move hydraulic control lever(s) back and forth several times to reliever hydraulic pressure at quick disconnect couplings and then unhook couplings from tractor and store on the Rear Blade frame to keep couplings out of the dirt.
6. If necessary, adjust length of upper center 3-Point link until hitch pin can be removed from hitch frame.
7. Remove hitch pins from lower 3-Point arms at the hitch frame.
8. Reinstall hitch pins, linchpins, and hairpin cotters in the Rear Blade hitch frame for storage.
9. Refer to "**Long Term Storage**" instructions on page 28 when storing Rear Blade for a long time.

## Basic Operating Instructions

1. Thoroughly Inspect work area for buried utility cables, pipelines, sprinkler heads, and any unforeseen objects. Mark any potential hazards.
2. Place grade stakes if you intend to develop a specific grade or soil level.
3. Adjust blade to desired angle, tilt, and offset position before lowering blade to ground.
4. Lower blade to ground and proceed forward at a speed of no more than 2 to 4 mph. The blade should immediately begin shaving the soil surface.
5. Set tractor's draft-link height control lever to the desired grade position. If blade is set at a 90 degree angle to direction of travel, it may be necessary to raise blade slightly so that dirt and gravel can flow out evenly under the blade as it shaves off high spots and fills in potholes or depressions.

## General Operating Instructions

Once you have familiarized yourself with the Operator's Manual, completed the operations checklist, and properly attached your Land Pride Rear Blade to your tractor, you are now almost ready to begin work. The RBT35 Series Rear Blades were designed and built by Land Pride for category I or II three-point hitch and Quick Hitch attachment to 35 to 80 hp tractors equipped with remote hydraulic outlets and two wheeled drive capability or 35 to 65 hp tractors with 4-wheeled drive capability. They are ideal for snow removal as well as dirt leveling, finish grading, and backfilling applications at feedlots, outdoor arenas, building, and construction sites, and maintenance operations on farm and ranch lanes or roadways. They are also excellent for soil contouring and construction and maintenance of ditches and waterways.

Hopefully you have checked out your work site for any buried utility cables, pipelines, sprinkler heads, or other obstacles that you wouldn't want to damage or encounter. Grade stakes should now be in place if you intend to develop a specific grade, elevation, soil contour, or roadbed crown. A RBT35 Series Rear Blade's primary purpose is for grading or leveling of soil, gravel, or aggregate in the warmer months or snow removal in the colder months. These functions are best done at an approximate 2 to 4mph ground speed. Becoming proficient with a rear blade takes practice.

Tractor horsepower, your personal skill level, soil or aggregate composition, moisture levels, and compaction factors will all have a definite impact on how easily and effectively you get the job done when you are in the dirt working mode. Develop a plan to achieve your expected results. Set the blade up at the proper angle angles to do the job. The hydraulic angling, tilt, and offset capabilities of the RBT35 series will make these adjustments easy utilizing the tractors remote hydraulic controls. This may require some experimentation to achieve the desired results. Lower the blade to the ground and proceed forward at a speed of no more than 2 to 4mph. The blade should immediately begin shaving the soil surface and dirt or aggregate material. Set the tractor's draft-link height control in the desired position. With the blade set at a 90 degree angle you may need to raise the blade slightly so that the dirt or gravel can flow out evenly under the blade effectively shaving off high spots and filling in potholes or depressions.

If you have the blade set at a horizontal angle, the shaved or accumulated material will begin to move outward toward the trailing edge of the blade. The greater the angle the more quickly the shaved material will be distributed off to the side. If it is necessary to work up next to a building foundation, abutment, or raised curb you may want to offset the blade so that the outside edge of the blade is beyond the outer edge of the tractor tire in working position. Back-filling operations may be more easily performed by reversing the blade and operating the tractor in reverse or commonly called the push mode. Be careful not to overstress the rear blade while backfilling as load forces on the blade and frame increase while backing up.

If you are performing the construction of soil contours or waterways you will probably need to set a tilt angle on the blade to achieve the desired effect. If you are grading or cutting a new ditch bank or forming a road crown, you will probably want to offset the blade in combination with setting an appropriate tilt angle. This again will likely require some experimentation to gain desired results. Snow removal techniques with a blade will be very similar to dirt working techniques and will require a little experimentation to become proficient.

With a little practice you should become a very good operator and consistently achieve the desired results you expect with your Land Pride RBT35 Series Rear Blade.

See **"Specifications & Capacities"** on page 32 and **"Features & Benefits"** on page 33 for additional information and performance enhancing options.

## Maintenance

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

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

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

### DANGER

*To avoid serious injury or death:*

*Always check all blade hardware for tightness before moving or working around the unit. Make sure moldboard pivot and tilt retaining hardware is tightened to the correct torque. The moldboard can fall from the its pivot mount or tilt mount if retaining hardware is loose or missing.*

### 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. Land Pride*
- *Hydraulic fluid under high pressure will penetrate the skin or eyes causing serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulics. Use a piece of cardboard or wood, rather than hands, when searching for leaks. If an accident occurs, seek immediate emergency medical care or gangrene may result. DO NOT DELAY.*
- *Always shut tractor down according to "Tractor Shutdown Procedure" provided in this manual before allowing anyone including the operator to connect or disconnect the implement.*

## 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.

### WARNING

*To avoid serious injury or death:*

*Always shut tractor down according to "Tractor Shutdown Procedure" provided in this manual before allowing anyone including the operator to connect or disconnect the implement.*

1. Clean off any dirt and grease that may have accumulated on the Rear Blade and then wash surfaces thoroughly with a garden hose.
2. Inspect for loose, damaged, or worn parts and hardware. Adjust or replace parts as needed with genuine Land Pride Parts.
3. Store Rear Blade on a level surface in a clean, dry place. Inside storage will reduce maintenance and increase life of unit.
4. Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Aerosol Land Pride touch-up paint. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the Aerosol part number.

**Land Pride Touch-up Paint**

| Part No. | Part Description |
|---|---|
| 821-011C | PAINT LP BEIGE SPRAY CAN |
| 821-066C | PAINT ORANGE SPRAY CAN |
| 821-070C | PAINT GP GLOSS BLACK SPRAY CAN |

5. Replace all damaged or missing decals.
6. Lubricate as noted in **"Lubrication Points"** starting on page 29.
7. A coating of oil or grease may be applied to the moldboard and blade to minimize oxidation.
8. Follow all unhooking instructions on page 26 when disconnecting Rear Blade from tractor.

## Ordering Replacement Parts

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

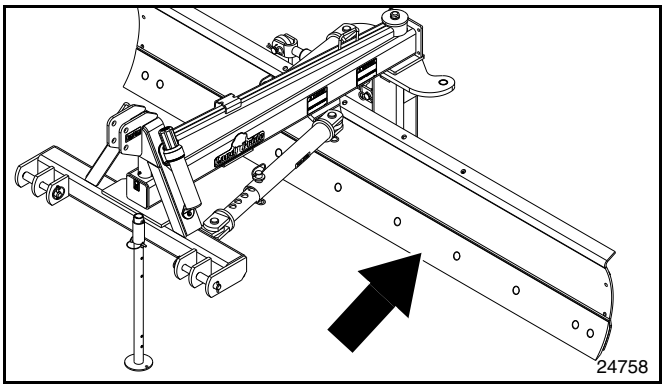
When ordering an optional color, the suffix number corresponding to the color must be added at the end of the part number. Parts ordered without the suffix number will be supplied in factory standard colors.

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

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

the part number read 555-555C82.

| Lubrication Legend | Multi-purpose spray lube | Multi-purpose grease lube | Multi-purpose oil lube | 50 hrs | Intervals in hours at which lubrication is required |
|---|---|---|---|---|---|



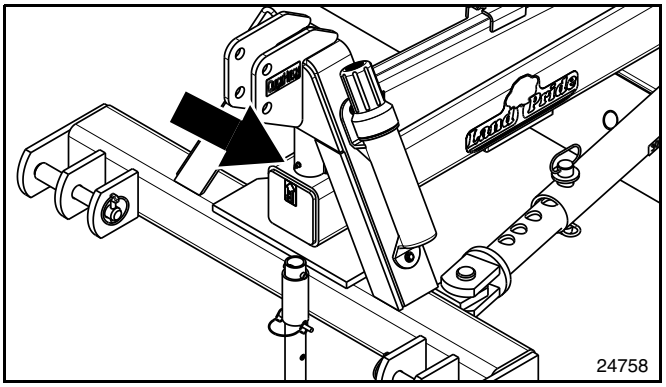

Seasonally

## Lubrication Points

### Moldboard and Blade

Grease moldboard and blade when storing for an extended period of time.

Type of Lubrication: Multipurpose Grease

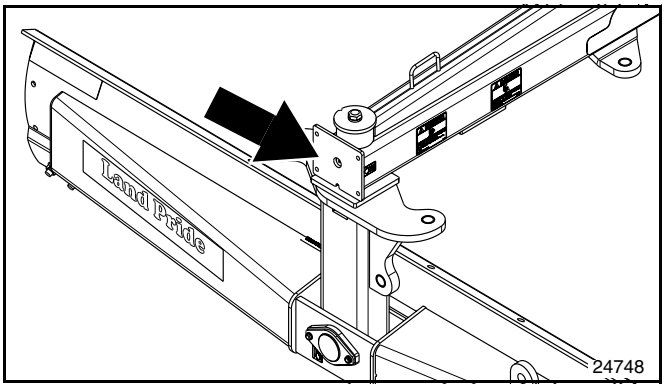



25 Hours

Quantity = Coat Generously

### Front Pivot Shaft

Type of Lubrication: Multipurpose Grease

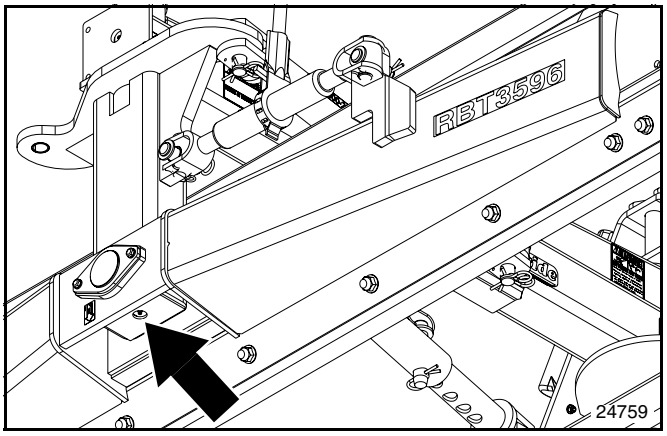


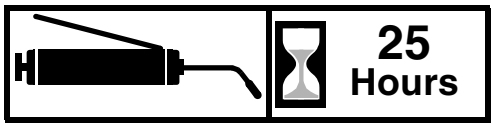

25 Hours

Quantity = Until grease emerges

### Blade Pivot Shaft

Type of Lubrication: Multipurpose Grease

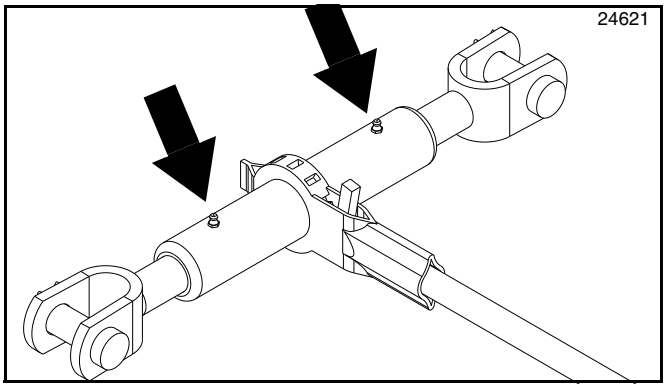


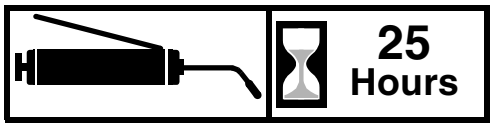




Quantity = Until grease emerges

**Blade Tilt Shaft**

Type of Lubrication: Multipurpose Grease

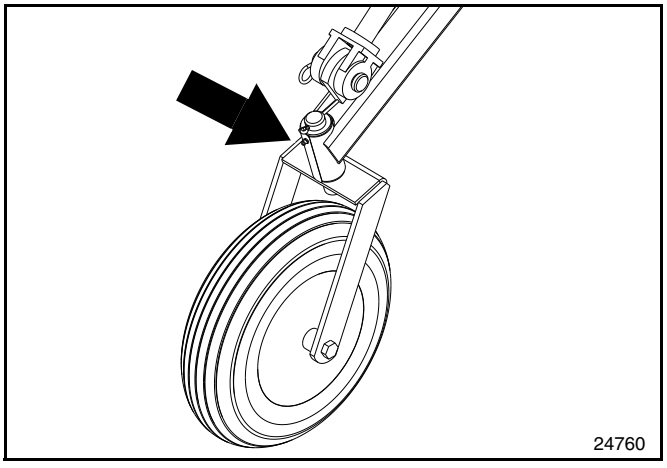


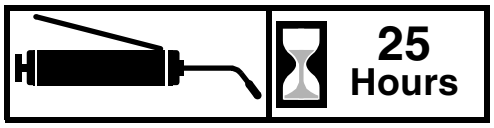




Quantity = Until grease emerges

**Ratchet Jack**

Type of Lubrication: Multipurpose Grease




Quantity = Until grease emerges

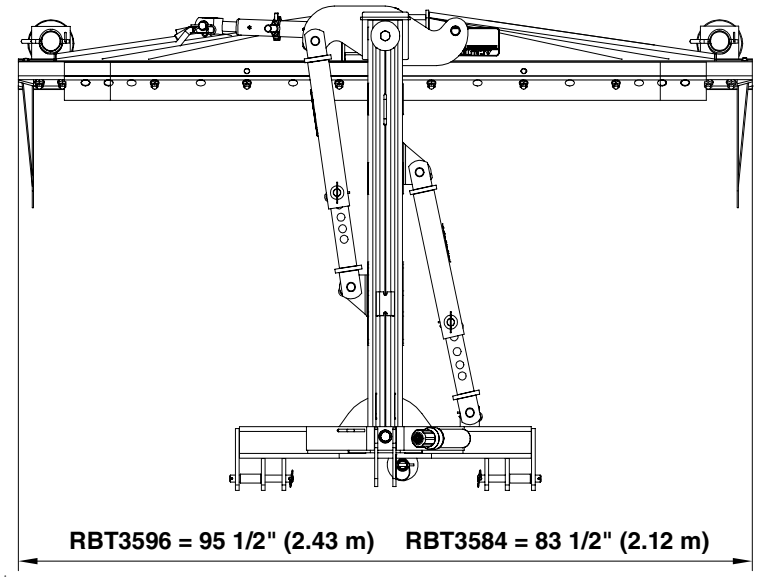
**Gauge Wheel Spindle**

Type of Lubrication: Multipurpose Grease

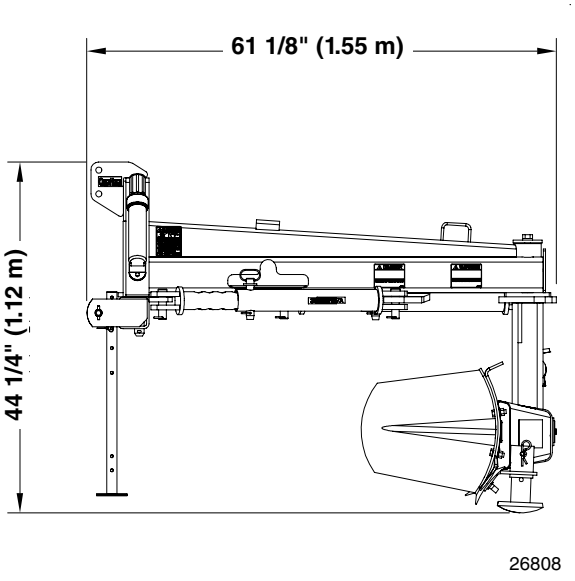
Quantity = Until grease emerges

## RBT35 Series Rear Blades

| | RBT3584 | RBT3596 |
|---|---|---|
| **Blade Width** | 84" (2.13 m) | 96" (2.44 m) |
| **Approximate Weight (lbs.) with manual links** | 709 lbs (321.6 kg) | 745 lbs (337.9 kg) |
| **Maximum Tractor Horsepower** | 80 horsepower (59.7 kw) for 2 wheel drive<br>65 horsepower (48.5 kw) for 4 wheel drive | |
| **Maximum G.V.W. (lbs.)** | 9500 lbs (4309.1 kg) | |
| **Hitch Type** | Cat. 1 & 2<br>Fits Land Pride Quick Hitch | |
| **Blade Angle**<br>**Manual Linkage:**<br>**Hydraulic Cylinder:** | With blade facing forward or reversed<br>Up to 40° in 10° increments clockwise and counterclockwise<br>Up to 50 degrees clockwise and counterclockwise | |
| **Angle Cylinder** | 3 1/2" bore x 14" stroke x 1 1/4" rod | |
| **Blade Offset** **Manual Linkage**<br>**Hydraulic Cylinder** | Up to 30 inches (76.2 cm) left and right in 9 positions (center, 4 left, and 4 right)<br>Up to 30 inches (76.2 cm) left and right | |
| **Offset Cylinder** | 3 1/2" bore x 14" stroke x 1 1/4" rod | |
| **Blade Tilt** **Manual Ratchet Jack**<br>**Hydraulic Cylinder** | Maximum 20° up and 20° down with blade facing forward or reversed<br>Maximum 20° up and 20° down with blade facing forward or reversed | |
| **Tilt Cylinder** | 2" bore x 6" stroke x 1 1/4" bore | |
| **Moldboard King Pin** | 3" (7.6 cm) diameter | |
| **Moldboard Height** | 17" (43.2 cm) tall | |
| **Moldboard Thickness** | 5/16" (8 mm) reinforced, 3/16" (5 mm) tapered reinforcement channel | |
| **Cutting Edge** | 1/2" x 6" (1.3 cm x 15.2 cm) Heat treated, replaceable & reversible (double bevel) | |
| **Mainframe Construction** | Fully welded tubular construction | |
| **Parking Stand** | Retractable | |
| **Accessories** | Manual or hydraulic single gauge wheel<br>Skid Shoes, End Plates, Hydraulic Selector Valve, and Cushion Valve | |




**Top View**




**Side View**

## RBT35 Series Rear Blades

| Features | Benefits |
|---|---|
| **Warranty** | One year parts & labor. See warranty page for complete details. |
| **84" & 96" Working widths** | Choice of two sizes to pick from. Both sizes handle large capacities. |
| **35 to 80 hp range for 2-Wheel Drive<br>35 to 65 hp range for 4- Wheel Drive** | Fits a wide variety of tractors. |
| **Cat. 1 or 2** | Fits wide variety of tractors. |
| **Fits Land Pride Quick Hitch** | Quick and easy attaching without leaving tractor seat. |
| **3-Way Blade** | Tilt, angle and offset features available hydraulically or manually. |
| **Blade angles left and right up to 40$^{o}$ manually and up to 50$^{o}$ hydraulically in either direction** | (9 positions manually: Center, 4 clockwise, and 4 counterclockwise in 10$^{o}$ increments)<br>(Hydraulically: Any degree up to 50 degrees)<br>Allows operator to set blade at the angle of his choice up to 40$^{o}$ to complete the job with satisfactory results. |
| **Blade offsets left and right up to 30"** | (9 positions manually: Center, 4 positions left, and 4 positions right)<br>(Hydraulically: Any position up to 30")<br>Allows operator to position end of moldboard beyond tractor tire and close to solid obstacles such as fences, buildings, and abutments. |
| **Blade tilts up and down up to 20$^{o}$** | Allows operator to do simple tasks such as putting a crown in the middle of a road to making V-type ditches of various sizes. |
| **Fully welded mainframe (Tubular construction)** | Fully welded adds overall strength and rigidity to blade frame. |
| **Heavy-duty pivot assembly with 3" solid steel kingpin** | 3/4" Plate steel turntable and 3" kingpin for handling the high amount of torque that can be transferred to this area. |
| **Formed 17" Moldboard** | Precisely formed moldboard rolls dirt and debris with ease. |
| **5/16" Moldboard thickness with box reinforcement** | Thick material with fully welded box reinforcement creates a strong moldboard. |
| **Reversible cutting edge** | Get twice the wear from the cutting edge by flipping it over. |
| **Retractable parking stand** | Able to store unit with frame off the ground, also aids in attaching to tractor. |
| **Accessories** | |
| **Skid shoes** | Skid shoes help protect from hitting low obstructions by keeping moldboard off the ground. |
| **End plates** | End plates hold material in and allows it to be moved. |
| **Cushion valve** | Helps protect moldboard and cylinders in the event an obstruction is hit by allowing hydraulic fluid to bypass the cushion valve and flow back towards the tractor. |

## RBT35 Series Troubleshooting Chart

| Problem | Cause | Solution |
|---|---|---|
| **Bent Hitch Frame and/or Mainframe While Backfilling** | Hitting one or more solid objects. | Check for solid objects before backfilling. Drive slow when in unknown conditions & stop immediately at first sign of trouble. |
| | Blade is digging too deep into the ground. | Lengthen top center 3-Point link until blade quits digging in the ground. |
| | Mainframe is offset. | Align Mainframe so that it is straight. |
| | Load on moldboard is not centered. | Keep load in center of moldboard. |
| **Bent Hitch Frame, Mainframe and/or Moldboard While Making a Turn** | Swinging Rear Blade into a solid object while making a turn. | Stay clear of solid objects while turning. Remember the back will make a wide swinging pattern when turning. |
| **Bent Moldboard** | The Moldboard could have a slight curve that developed during factory weld-up. | No solution required. Slight curve is acceptable and does not affect operation. |
| | Hitting one or more solid objects that are hidden or not hidden in the ground. | Check for solid objects before operating. Drive slow when in unknown conditions & stop immediately at first sign of trouble. |
| | Hitting a solid object with end of moldboard. | Keep moldboard ends a safe distance away from solid objects. Manually remove the last several inches of product away. |
| | Operating one of three hydraulic cylinders (Offset, angle, or tilt) with moldboard loaded or resting on the ground. | Make sure moldboard is empty of product and raised off the ground before activating any of the three hydraulic cylinders. |
| **Blade Does Not Penetrate Soil** | Ground is too hard. | Loosen soil with a Land Pride Scarifier. Apply water to the surface or wait for a rain. |
| | Blade cutting edge is too dull. | Replace blade to get a new cutting edge. |
| | Blade pitch is set too light. | Lengthen top center 3-Point link. |
| **Blade Penetrates Soil Too Deep When Traveling Forward.** | Ground is too soft | Install Single Gauge Wheel.<br>Install Skid Shoes. |
| | Blade pitch is set too excessive. | Shorten top center 3-Point link when traveling forward. |
| **Grading Is Not Level** | Tractor and blade follow ground contour. | Install Single Gauge Wheel. |
| | Tractor's draft-link height control is lifting the blade. | Set draft-link height control to the proper cutting depth. |
| **Hydraulic Oil Is Leaking** | Hydraulic Connection is not tight. | Tighten connection. |
| | Connection is cracked from overtightening. | Replaced cracked connection. |
| | Connection threads have been mismatched. | Use connectors with matched threads. |
| | Sealant not applied to connection when required. | Break connection apart, apply sealant, and reattach connection. |
| | Hose is damaged from being worn or pinched. | Replace damaged hose. Make sure hose does not become pinched during operation. |
| | Hose couplings are worn or damaged. | Replace hose couplings. |
| **Hydraulic Cylinder Does Not Operate** | Quick coupler(s) not properly connected. | Reconnect quick connect coupler(s). |
| | Low on hydraulic oil. | Add oil to tractor hydraulics. |
| | Hydraulic hose is pinched. | Remove hose from pinched area. |
| | Hydraulic plumbing not correct. | Retrace hydraulic plumbing and make necessary corrections. |
| **Moldboard Falls From Mainframe** | Kingpin and/or Moldboard pivot pin retaining bolts are missing. | Check Kingpin & Moldboard pivot pin bolts daily. Make sure they are properly torqued. Apply loctite if they keep coming loose. Replace missing bolts. |

## Torque Values Chart for Common Bolt Sizes

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

| Bolt Size (Metric) | Bolt Head Identification 5.8 Class 5.8 | | 8.8 Class 8.8 | | 10.9 Class 10.9 | |
|---|---|---|---|---|---|---|
| mm x pitch [4] | N · m | ft-lb | N · m | ft-lb | N · m | ft-lb |
| M 5 X 0.8 | 4 | 3 | 6 | 5 | 9 | 7 |
| M 6 X 1 | 7 | 5 | 11 | 8 | 15 | 11 |
| M 8 X 1.25 | 17 | 12 | 26 | 19 | 36 | 27 |
| M 8 X 1 | 18 | 13 | 28 | 21 | 39 | 29 |
| M10 X 1.5 | 33 | 24 | 52 | 39 | 72 | 53 |
| M10 X 0.75 | 39 | 29 | 61 | 45 | 85 | 62 |
| M12 X 1.75 | 58 | 42 | 91 | 67 | 125 | 93 |
| M12 X 1.5 | 60 | 44 | 95 | 70 | 130 | 97 |
| M12 X 1 | 90 | 66 | 105 | 77 | 145 | 105 |
| M14 X 2 | 92 | 68 | 145 | 105 | 200 | 150 |
| M14 X 1.5 | 99 | 73 | 155 | 115 | 215 | 160 |
| M16 X 2 | 145 | 105 | 225 | 165 | 315 | 230 |
| M16 X 1.5 | 155 | 115 | 240 | 180 | 335 | 245 |
| M18 X 2.5 | 195 | 145 | 310 | 230 | 405 | 300 |
| M18 X 1.5 | 220 | 165 | 350 | 260 | 485 | 355 |
| M20 X 2.5 | 280 | 205 | 440 | 325 | 610 | 450 |
| M20 X 1.5 | 310 | 230 | 650 | 480 | 900 | 665 |
| M24 X 3 | 480 | 355 | 760 | 560 | 1050 | 780 |
| M24 X 2 | 525 | 390 | 830 | 610 | 1150 | 845 |
| M30 X 3.5 | 960 | 705 | 1510 | 1120 | 2100 | 1550 |
| M30 X 2 | 1060 | 785 | 1680 | 1240 | 2320 | 1710 |
| M36 X 3.5 | 1730 | 1270 | 2650 | 1950 | 3660 | 2700 |
| M36 X 2 | 1880 | 1380 | 2960 | 2190 | 4100 | 3220 |

[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.
All locknuts or lubricated fasteners: Use 75% of torque value. (i.e. 1/2"-13 GR5 = 76 ft-lb; 75% of 76 or .75 x 76 = 57 ft-lb)

## Tire Inflation Chart

| Tire Size | Inflation PSI |
|---|---|
| 4.8 x 4.00 x 8 | 30 psi. max. |

## 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:** One year Parts and Labor

**Hydraulic Cylinder:** One year Parts and Labor

**Cutting Edges:** 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. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

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

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

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

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

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

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

**Model Number** _____ **Serial Number** _____




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