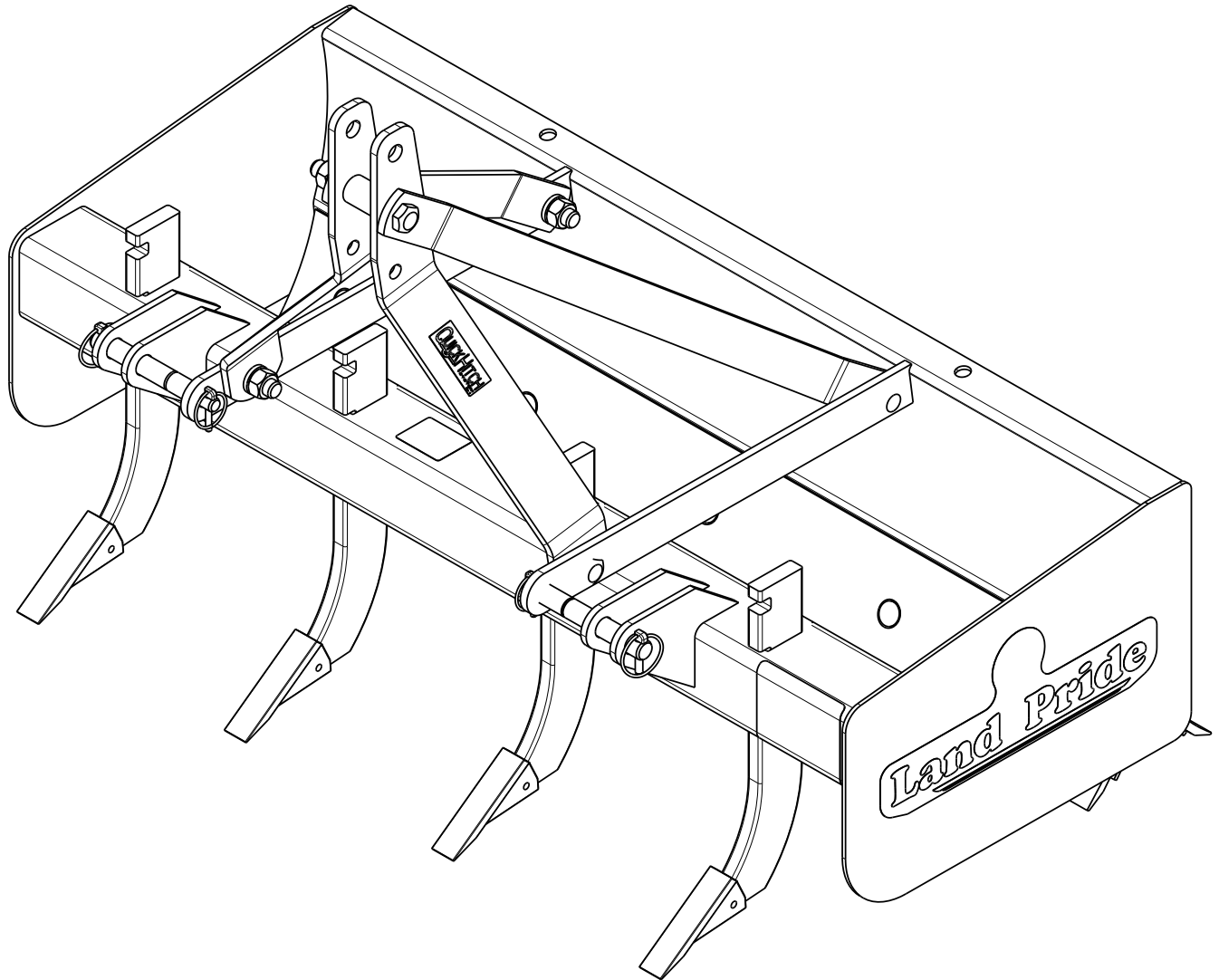


Fixed Bar Box Scraper

BB0548 and BB0554



23737

303-187M Operator's Manual



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

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

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



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	<hr/> <hr/> <hr/>

Dealer Contact Information


Name: _____

Street: _____

City/State: _____

Telephone: _____

Email: _____

 California Proposition 65 WARNING: Cancer and reproductive harm - www.P65Warnings.ca.gov

Important Safety Information 1
 Safety at All Times 1
 Look For The Safety Alert Symbol 1
 Safety Labels 6
Introduction 7
 Application 7
 Using This Manual 7
 Terminology 7
 Definitions 7
 Owner Assistance 7
 Serial Number 7
 Further Assistance 7
Section 1: Assembly & Set-up 8
 Tractor Requirements 8
 Torque Requirements 8
 Tractor Shutdown Procedure 8
 Hitch Assembly 8
 Shank Assembly 9
 3-Point Hook-up 10
Section 2: Operating Procedures 11
 Operator’s Responsibilities 11
 Safety Information 11
 Transporting 12
 General Operating Instructions 12
Section 3: Adjustments 13
 Shank Adjustments 13
 Leveling and Pitch Adjustment 13
Section 4: Maintenance 14
 Maintenance 14
 Shank Tips 14
 Cutting Blades 14
 Long-Term Storage 15
 Ordering Replacement Parts 15
Section 5: Specifications & Capacities 16
Section 6: Features & Benefits 17
Section 7: Torque Values Chart 18
Section 8: Warranty 19



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Printed in the United States of America.

See previous page for Table of contents.



Parts Manual QR Locator

The QR (Quick Reference) code on the cover and to the left will take you to the Parts Manual for this equipment. Download the appropriate App on your smart phone, open the App, point your phone on the QR code and take a picture.



Dealer QR Locator

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

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

Safety at All Times

Careful operation is your best insurance against an accident.

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

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

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



Look For The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety 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. The signal words are:

DANGER

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

WARNING

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

CAUTION

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

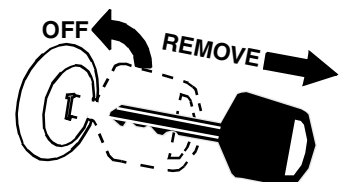
Safety Precautions for Children

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 skid-resistant surfaces when getting on and off the tractor.
- ▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.



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

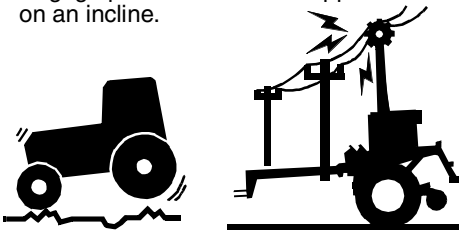
Use A Safety Chain

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



Transport Safely

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



Tire Safety

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



Practice Safe Maintenance

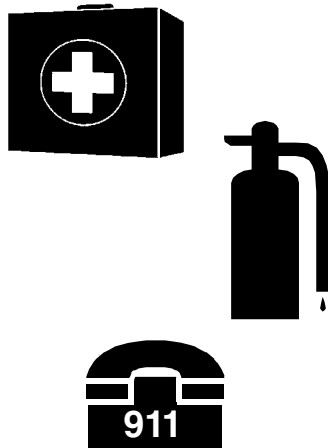
- ▲ Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- ▲ Work on a level surface in a clean dry area that is well-lit.
- ▲ Lower implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- ▲ 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.
- ▲ Remove all tools and unused parts from equipment before operation.
- ▲ Do not weld or torch on galvanized metal as it will release toxic fumes.



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

Prepare for Emergencies

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



Wear 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.



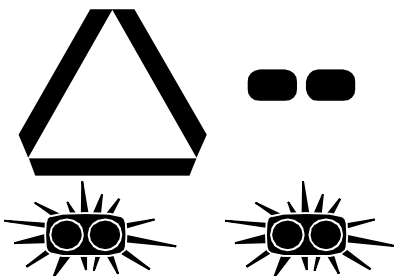
Avoid High Pressure Fluids

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



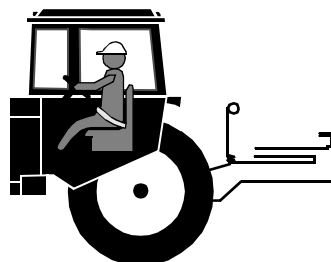
Use Safety Lights and Devices

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



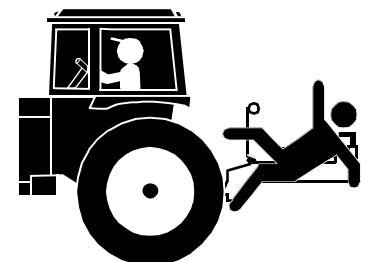
Use Seat Belt and ROPS

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



Keep Riders Off Machinery

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



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

Avoid crystalline Silica (quartz) Dust

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

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



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

Handle Chemicals Properly

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



Dig Safe - Avoid Underground Utilities

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



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Important Safety Information

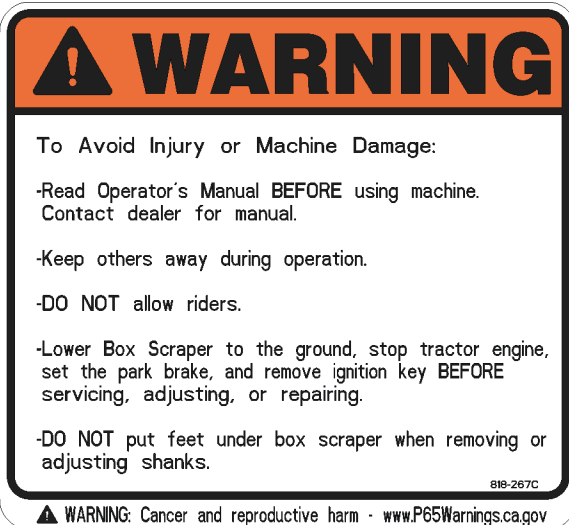
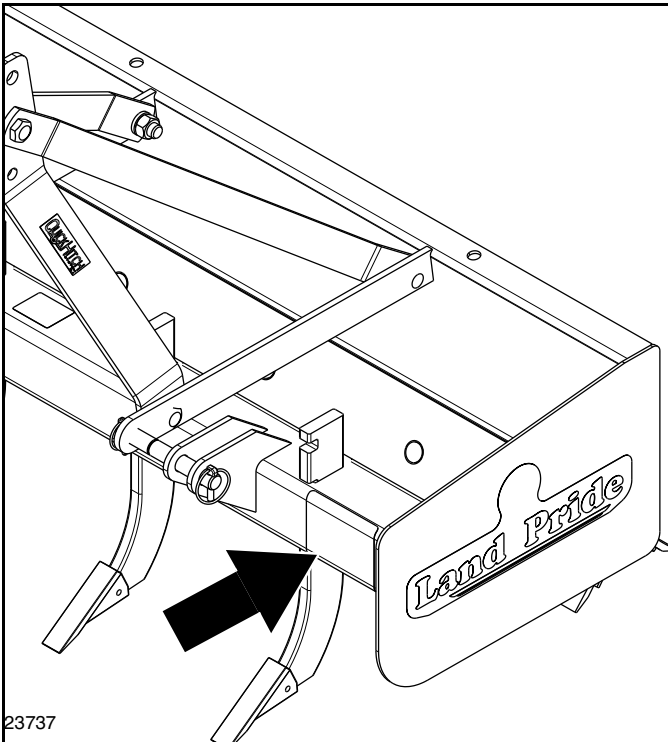
Safety Labels

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

1. Keep all safety labels clean and legible.
2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as

specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.

4. Refer to this section for proper label placement. To install new labels:
 - a. Clean surface area where label is to be placed.
 - b. Spray soapy water onto the cleaned area.
 - c. Peel backing from label and press label firmly onto the surface.
 - d. Squeeze out air bubbles with edge of a credit card or with a similar type of straight edge.



818-267C

Caution Avoid Injury

Introduction

Land Pride welcomes you to the growing family of new product owners. This Box Scraper 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 BB05 Series Fixed Bar Box Scrapers are designed for Category 0, 1, and 1 limited 3-Point hitch mounting. The 05 Series Box Scrapers are designed for attachment to tractors in the 17-25 hp (13-19 kW) range and come in 48" (1.22 m) and 54" (1.37 m) working widths.

These Fixed Bar Box Scrapers are ideal for ripping, leveling, finish grading, and backfilling applications at small feedlots, outdoor arenas, building sites, and maintenance operations on farms, ranches, and home owner lanes and roadways. The manually adjustable ripping shanks and the fore and aft cutting blades make these units especially effective and productive for projects such as grading, light roadway maintenance, and feedlot maintenance.

See “**Specifications & Capacities**” on page 16 and “**Features & Benefits**” on page 17 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, and maintenance. Read this manual and follow all recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator’s or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

Terminology

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

Definitions

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

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

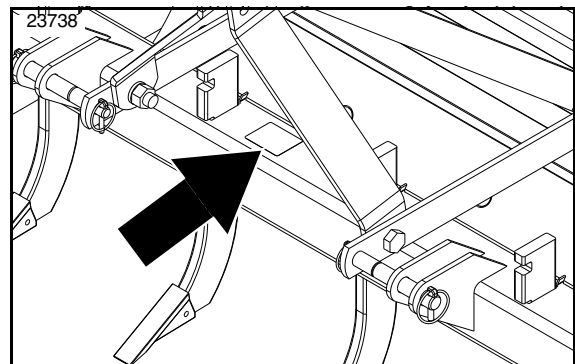
Owner Assistance

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

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

Serial Number

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



Serial Number Plate Location
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new Box Scraper. 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
lp servicedept@landpride.com

Section 1: Assembly & Set-up

Tractor Requirements

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

Horsepower {Maximum} 25 horsepower
 Hitch Type. 3-Point Cat. 0, 1 and 1 limited

 **WARNING**

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

Torque Requirements

Refer to “Torque Values Chart” on page 18 to determine correct torque values when tightening hardware.

Tractor Shutdown Procedure

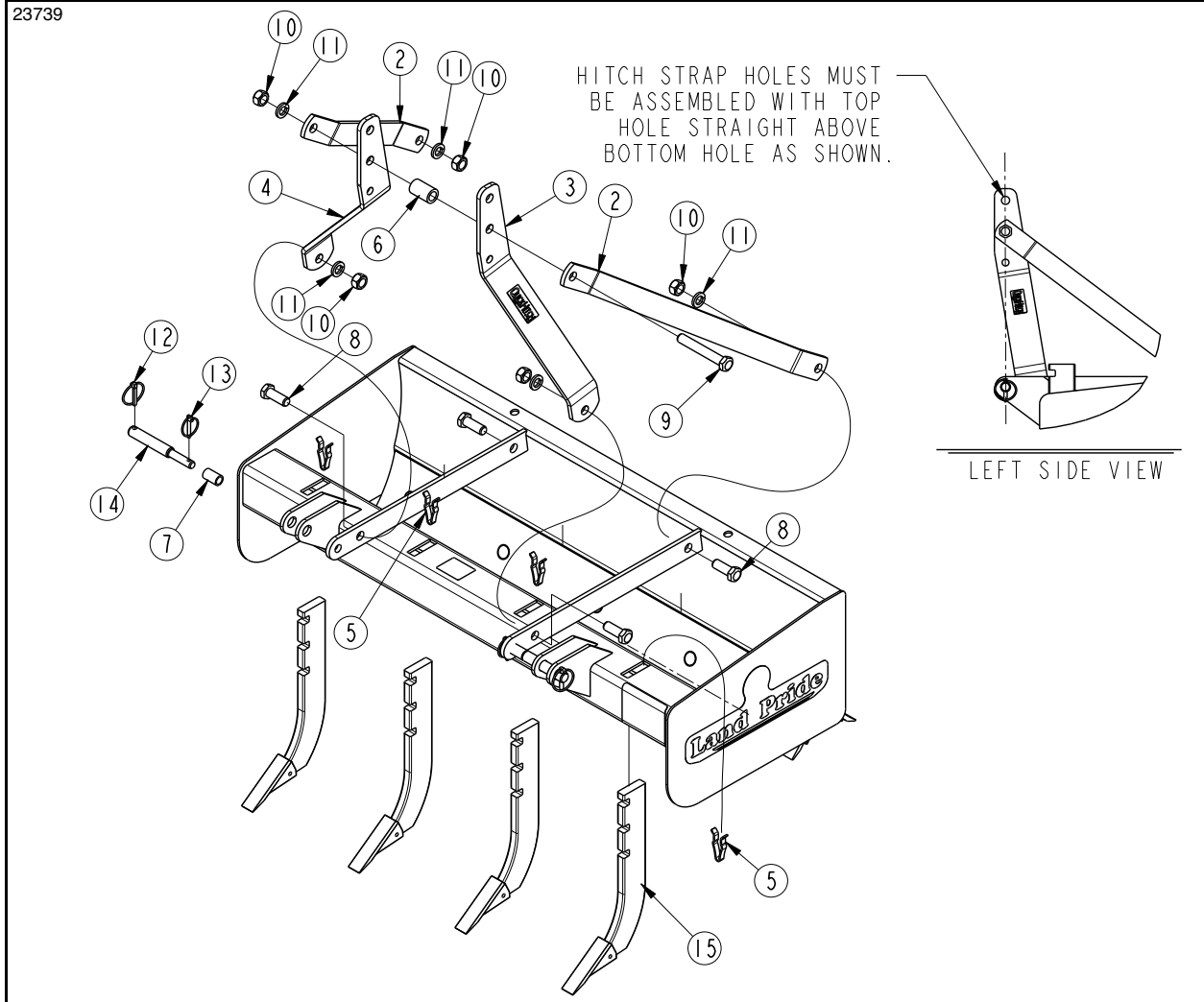
The following are basic tractor shutdown procedures. Follow these procedures and any additional shutdown procedures provided in your tractor Operator’s Manual before leaving the operator’s seat.

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 switch key to prevent unauthorized starting.
5. Relieve all hydraulic pressure to auxiliary hydraulic lines.
6. Wait for all components to come to a complete stop before leaving the operator’s seat.
7. Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.

Hitch Assembly

Refer to Figure 1-1 on page 9:

1. Attach left and right-hand hitch straps (#3 & #4) and hitch braces (#2) to Box Scraper with 3/4"-10 x 2" GR5 cap screws (#8). Make sure the three holes in the hitch straps are in vertical alignment with lower hitch pins as shown and then secure hitch straps and braces with 3/4" lock washers (#11) and 3/4" nuts (#10). **Do not tighten nuts** at this time.
2. Align upper middle holes in hitch straps (#3 & #4) with holes in hitch braces (#2) as shown. With 2" long spacer (#6) positioned between the two straps, insert 3/4"-10 x 5" GR5 hex cap screw (#9) through hitch braces, straps, and spacer. Secure bolt with 3/4" lock washer (#11) and 3/4" nut (#10).
3. Torque 3/4" nuts (#10) to the correct torque.
4. Attach Box Scraper to tractor’s 3-Point hitch or raise front of Box Scraper up and support in the raised position with blocks to insert shanks (#15).
 - Use hitch pins (#14) and linchpins (#12 & #13) to attach tractor’s lower 3-Point arms to the Box Scraper. Use bushings (#7) when hitching to a category 1 and 1 limited 3-Point hitch.
 - The top center link is attached with a pin furnished by the customer.



Dealer Assembly
Figure 1-1

Shank Assembly



DANGER

To avoid serious injury or death:

Make adjustments to the Box Scraper after it has been properly attached to a tractor and secured with solid supports in the up position. Never work around or under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated or if hydraulic lines burst even when power to hydraulics is shut off.



WARNING

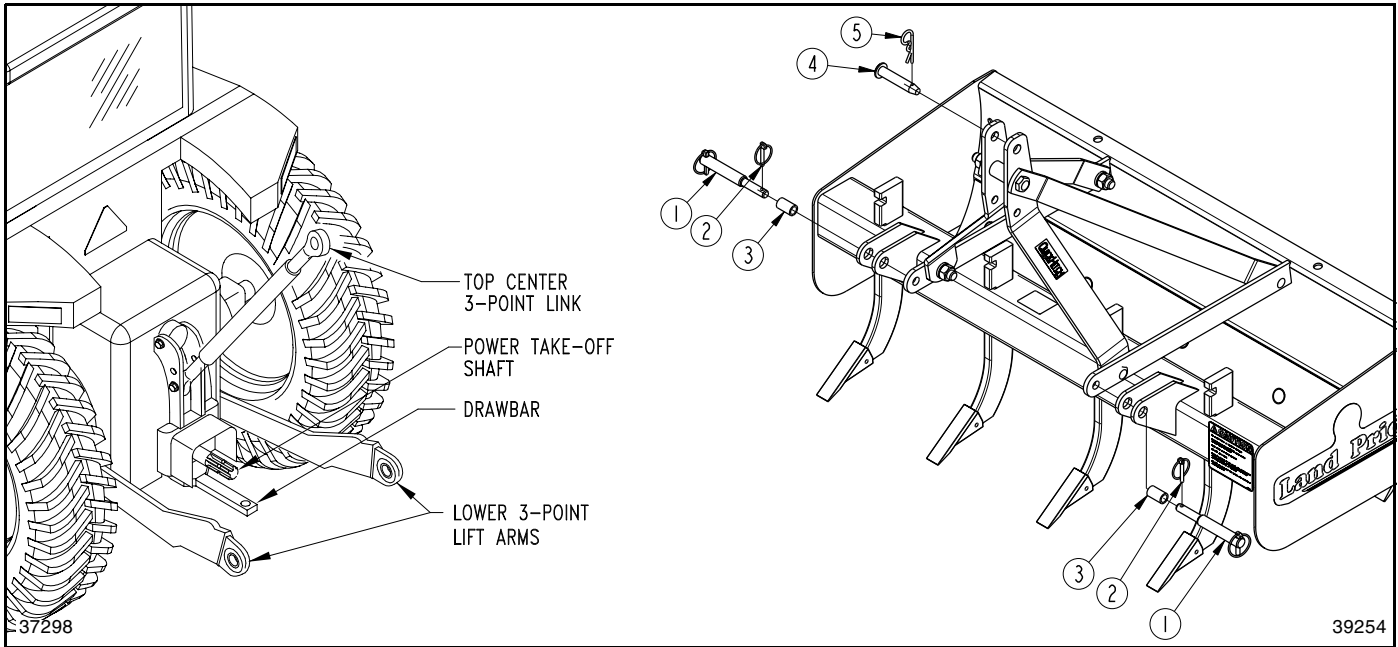
To avoid serious injury or death:

- *Always keep your body extremities out from under the shanks while adjusting them. It is possible for the shanks to fall causing injury to your feet and/or legs.*
- *Keep clear of the shank slots while adjusting shank height. Shanks can pinch body parts in the slots during adjustments.*

Refer to Figure 1-1:

1. Before installing shanks (#15), manually raise front shank tube up to insert shanks from the bottom or attach scraper to a tractor's 3-Point hitch and raise unit up with tractor's 3-Point lift arms.
2. Securely support scraper in the raised position with support jacks or blocks.
3. With shank tips pointing forward, insert shanks (#15) into the bottom slots in the shank tube.
4. Push each shank up until the lowest notch in the shank catches in the slot on top of the shank tube.
5. Secure shanks in the top slot by inserting spring retainer clips (#5) into the slots behind each shank until they snap into place.

NOTE: See "Shank Adjustments" on page 13 for instructions on how to adjust shank depth.



Tractor 3-Point Hitch
Figure 1-2

3-Point Hook-up

Refer to Figure 1-2:



DANGER

To avoid serious injury or death:

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



WARNING

To avoid serious injury or death:

- Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator's Manual to determine proper weight requirements and maximum weight limitations.
- Always shut tractor down using "Tractor Shutdown Procedure" provided in this manual before allowing anyone including the operator to hook-up and unhook 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.

1. Slowly back tractor up to the Box Scraper and use tractor's 3-Point hydraulic control to align lower hitch link holes with clevis lug holes on the Box Scraper.
 - Cat. 0: Align lift arms with inside clevises.
 - Cat. I Limited: Align lift arms with inside clevises. Requires bushing (#3) with Cat. I Limited.
 - Cat. I: Align lift arms with outside clevises.
2. Shut tractor down using correct shutdown procedures before dismounting tractor. Refer to "Tractor Shutdown Procedure" on page 8.
3. Ensure that the lower arms are stabilized to prevent excessive side movement.
4. Attach lower 3-point arms to the clevises with hitch pins (#1). If Cat. I or Cat. 1 Limited, include bushings (#3) with hitch pins (#1). Secure hitch pins with linchpins (#2).
5. Connect top center 3-point link to the upper hitch with hitch pin (#4). Secure hitch pin with hairpin cotter (#5). Hitch pin and hairpin cotter are customer supplied.
6. Return to the tractor and slowly operate 3-Point hydraulic control lever to fully raise and lower Box Scraper while checking for clearances between the scraper and tractor tires, drawbar etc. Move or remove drawbar if it interferes with the scraper.
7. Level the scraper left to right and front to back. Refer to "Leveling and Pitch Adjustment" on page 13.

A 3-Point Category 0, I or I limited hitch is required. The lower 3-Point arms of the 3-Point hitch must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

Section 2: Operating Procedures

Operator’s Responsibilities

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

- **Important Safety Information**, pages 1 to 6
- **Section 1: Assembly & Set-up**, page 8
- **Section 2: Operating Procedures**, page 11
- **Section 3: Adjustments**, page 13
- **Section 4: Maintenance**, page 14

Perform the following inspections before using your Box Scraper.

Operating Checklist

✓	Check	Page
	Inspect tractor safety equipment to make sure it is in good working condition.	Tractor Manual
	Carefully raise and lower implement to ensure drawbar, tires, and other tractor parts do not make contact with the Box Scraper.	Page 10
	Check scraper levelness and pitch. Refer to “Leveling and Pitch Adjustment”.	Page 13
	Check shank depth. Refer to “Shank Adjustments”.	Page 13
	Check cutting blades for wear. Turn blade over or replace. Refer to “Cutting Blades”.	Page 14
	Check shank tips for tightness and wear. Replace tips as needed. See “Shank Tips”.	Page 14
	Check initially and periodically for loose bolts and pins. See “Torque Values Chart”.	Page 18
	Check for worn, bent, broken, loose, & missing parts. Replace or repair as needed.	Parts Manual

Safety Information

 **DANGER**

To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, who have been properly trained in the safe operation of this implement, and who are age 16 or older. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Make adjustments to the implement after it has been properly attached to a tractor and secured with solid non-concrete supports in the up position. Never work around or under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated or if hydraulic lines burst even when power to hydraulics is shut off.

- Do not allow anyone near the tractor or implement while operating. Stop operation if bystanders are too close. They can be hit by flying projectiles, become entangled in the equipment, or ran over.
- Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.

 **WARNING**

To avoid serious injury or death:

- 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.
- Allow only persons to operate this implement who have fully read and comprehended this manual, who have been properly trained in the safe operation of this implement, and who are age 16 or older. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Always keep your body extremities out from under the shanks and cutting blades while removing, installing, and adjusting them. It is possible for the cutting blades and/or shanks to fall causing injury to your body.
- Do not use implement to tow other equipment unless it is designed with a tow hitch. Doing so can result in loss of control and damage the equipment.
- Do not use implement to lift objects; to pull objects such as fence posts, stumps, etc; or to push objects. The unit is not designed or guarded for these uses.
- Do not use implement as a man lift, work platform or as a wagon to carry objects. It is not properly designed or guarded for this use.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.
- Make sure safety labels are in their proper location and are in good condition before operating the attached implement. Read and obey all instructions on the labels.

Section 2: Operating Procedures

- *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. If in doubt, call 811 (USA) 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.*

Transporting



WARNING

To avoid serious injury or death:

- *When traveling on roadways, transport in such a way that other vehicles may pass you safely. Use accessory 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.*
 - *Select a safe ground speed when transporting. Never travel at a speed which does not allow adequate control of steering and stopping, and never exceed 20 mph (32.2 km/h) with attached equipment. Rough terrain requires a slower speed.*
 - *Reduce ground speed when turning and leave enough clearance to avoid making contact with obstacles such as buildings, trees, fences, etc. Making contact can result in equipment damage and cause serious injury or death.*
 - *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.*
1. Be sure to reduce tractor ground speed when turning, and leave enough clearance so the Box Scraper does not contact obstacles such as buildings, trees, or fences.
 2. Select a safe ground travel speed when transporting from one area to another.
 3. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
 4. When traveling over rough or hilly terrain, shift tractor to a lower gear and travel slower.

General Operating Instructions

Once you have familiarized yourself with the Operator’s Manual, completed the operations checklist, and properly attached your Land Pride Fixed Bar Box Scraper to your tractor, you are now almost ready to begin work. Fixed Bar Box Scrapers are ideal for ripping, leveling, finish grading, and backfilling applications at small feedlots, outdoor arenas, building sites, and maintenance operations on farm and ranch lanes or roadways. Hopefully you have checked out your work site for any buried utility cables, pipelines, 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 or elevation.

A Box Scraper’s primary purpose is grading and leveling. This function is best done at an approximate 2 to 4mph ground speed. With the ripper shanks raised all the way up, simply lower the Box Scraper to the ground and proceed forward. The cutting blade should immediately begin shaving the soil surface, and dirt or aggregate material should begin accumulating in the box. You can transfer this material by dragging it to a nearby location and then slowly raising the Box Scraper to deposit your accumulated load. You can also achieve a more uniform distribution and leveling of scraped material by setting the Box Scraper to shave off high spots allowing accumulated material to flow out under the grader blade in the low spots.

Occasionally the ground or surface material will be very hard and will require ripping to loosen the soil profile in order for the Box Scraper blade to be effective. If more aggressive ripping action is desired, manually lower the whole compliment of shanks by notch at a time. Lowering the shanks too deep in hard soil can actually stop the tractor. It is better to make multiple shallow ripping passes than to stop the tractor by being too aggressive. If less aggressive ripping action is desired, raise all of the shanks. Achieving the desired effect will require a little experimentation in your given conditions. Box Scrapers generally perform better in dry to slightly damp soil conditions.

Your Land Pride Fixed Bar Box Scraper can also be used for backfilling applications. Simply lower your Box Scraper and back the standard, rear-facing cutting blade into the pile of dirt you are using for backfill. Continue backfilling and pushing operations until you have successfully completed the task.

With a little practice you should become a very good operator and consistently achieve the desired results you expect with your Land Pride Box Scraper.

See “**Specifications & Capacities**” on page 16 and “**Features & Benefits**” on page 17 for additional information and performance enhancing options.

Section 3: Adjustments

Shank Adjustments

DANGER

To avoid serious injury or death:

Make adjustments to the Box Scraper after it has been properly attached to a tractor and secured with solid supports in the up position. Never work around or under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated or if hydraulic lines burst even when power to hydraulics is shut off.

WARNING

To avoid serious injury or death:

- Always keep your body extremities out from under the shanks while adjusting them. It is possible for the shanks to fall causing injury to your feet and/or legs.
- Keep clear of the shank slots while adjusting shank height. Shanks can pinch body parts in the slots during adjustments.

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

Shank settings are based on the vertical distance measured from bottom edge of side plates to bottom of shank tips. Adjust each shank height as follows:

1. Press top of shank spring retainer together with a pair of pliers and pull retainer up out of the shank tube slot. Be sure to keep shank notch caught in the top slot to keep it from falling out while removing the spring retainer.

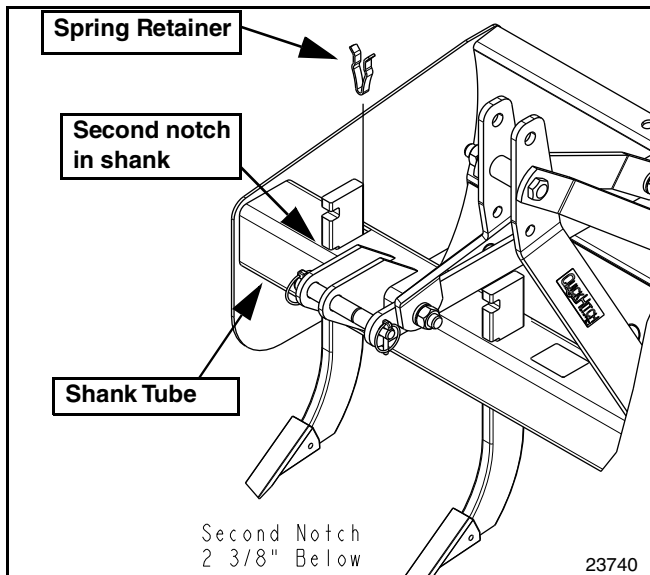
2. Manually raise or lower shank to the desired height that will allow the shank notch to be caught in the top slot. Catch shank notch in the top slot at this height.
 - Refer to Figure 3-1: Shanks caught at the 2nd notch (middle notch) are set 2 3/8" (6 cm) below the side plate.
 - Refer to Figure 3-2: Shanks caught at the 3rd notch (bottom notch) are set out of the ground.
3. Fasten shank in place with spring retainer clip by inserting clip into the top slot behind the shank until its snaps into place.

NOTE: Through extensive research and testing, Land Pride has designed the optimum cutting angle into your Box Scraper. If needed, shorten top center link one-half turn at time to increase blade pitch.

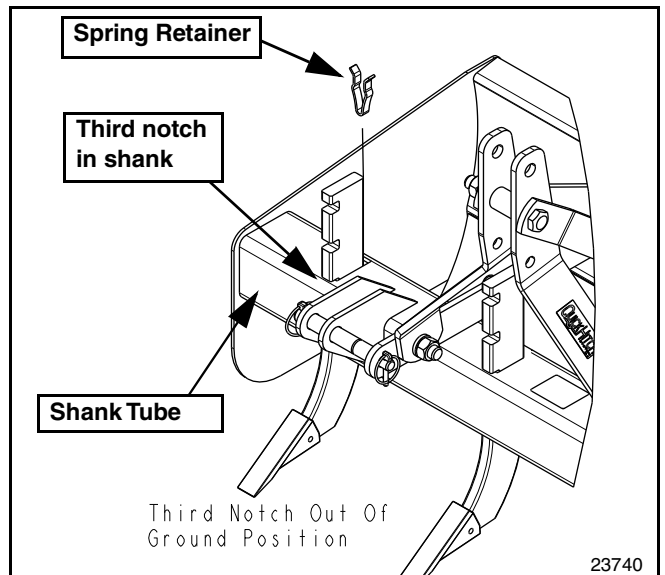
Leveling and Pitch Adjustment

Level and pitch adjustments are the same for all models of Box Scrapers.

1. Adhere to safety precautions under “Shank Adjustments” on this page. Raise shanks fully up.
2. Locate tractor and scraper on a flat level surface. Lower scraper down onto the level surface, place tractor in park, set park brake, shut tractor engine off and remove switch key.
3. Place a level on the longer front shank bar.
4. Manually adjust either one or both of the tractor’s lower 3-Point arms up or down to level the scraper from left to right.
5. Rotate level 90 degrees and then adjust the tractor’s top center link until unit is leveled from front to back.



Shank Settings
Figure 3-1



Shank Settings
Figure 3-2

Section 4: Maintenance

Maintenance

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

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

The parts on your Fixed Bar Box Scraper have been specially designed and should only be replaced with genuine Land Pride parts. Do not alter the scraper in a way which will adversely affect its performance.



DANGER

To avoid serious injury or death:

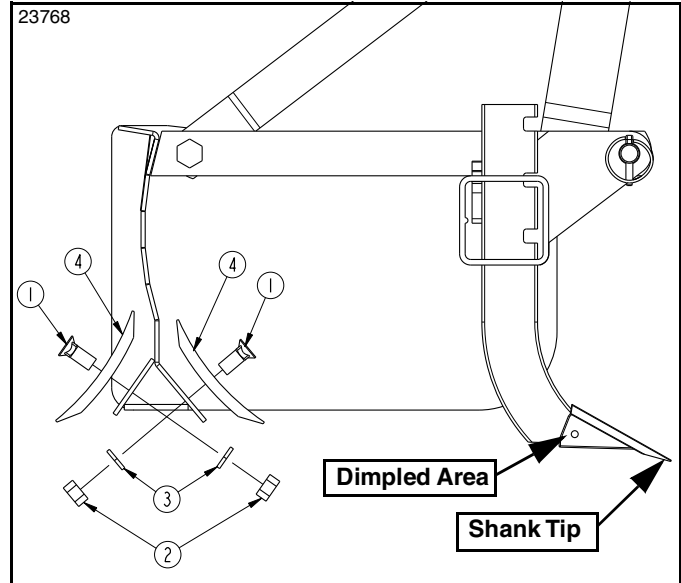
Make adjustments to the implement after it has been properly attached to a tractor and secured with solid non-concrete supports in the up position. Never work around or under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated or if hydraulic lines burst even when power to hydraulics is shut off.



WARNING

To avoid serious injury or death:

- Allow only persons to perform maintenance on this implement who have been properly trained in its safe operation.
- Always shut tractor down using “Tractor Shutdown Procedure” provided in this manual before servicing, adjusting, cleaning, or maintaining this implement.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.
- Always keep your body extremities out from under the shanks and cutting blades while removing, installing, and adjusting them. It is possible for the cutting blades and/or shanks to fall causing injury to your body.



Cutting Blade Removal and Shank Tip Removal

Figure 4-1

Shank Tips

Refer to Figure 4-1:

Shank tips are removable by heating them in the dimpled area on both sides and knocking them off with a blunt punch. New shank tips need to be dimpled with a punch after they are installed.

Cutting Blades

Refer to Figure 4-1:

The front and rear cutting blades (#4) have two cutting edges. Replace the cutting blades when both edges are worn out.

1. Unbolt cutting blade (#4) and turn it over when its bottom cutting edge wears out.
2. Inspect the 5/8" -11 x 1 3/4" GR5 plow bolts (#1), lock washers (#3), and nuts (#2) for wear and replace as needed.
3. Reattach blade (#4) and torque nuts to the correct torque.

Section 4: Maintenance

Long-Term Storage



DANGER

To avoid serious injury or death:

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



WARNING

To avoid serious injury or death:

Always shut tractor down using “Tractor Shutdown Procedure” provided in this manual before allowing anyone including the operator to hook-up and unhook implement.

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.

1. Clean off any dirt that may have accumulated on the scraper and cutting blade. Scrape off compacted dirt and wash surfaces thoroughly with a garden hose.
2. Check cutting blades and plow bolts for wear and replace if necessary. For additional instructions, see “Cutting Blades” on this page.
3. Check for bent and sprung shanks. Bent shanks will be bent to one side. Sprung shanks will have shank tips lower than the other tips. Replace damaged shanks with genuine Land Pride shanks.
4. Check for loose and missing shank tips and shank tips with high wear. Replace tips as needed. For replacement instructions, see “Shank Tips” on this page.
5. Inspect Box Scraper for loose, damaged, or worn parts. Adjust and tighten loose parts. When needed, replace parts with genuine Land Parts only.
6. Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Land Pride aerosol touch-up paint. They are also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

7. A light coating of oil or grease may be applied to the lower shank bars, inside the mold board, and inside the side panels in lieu of paint to minimize oxidation.
8. Replace all damaged or missing decals.
9. Store Box Scraper on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer scraper life.

Ordering Replacement Parts

Land Pride offers equipment in factory standard Beige with black highlights. This implement may also be purchased in Orange, Green, or Red.

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.

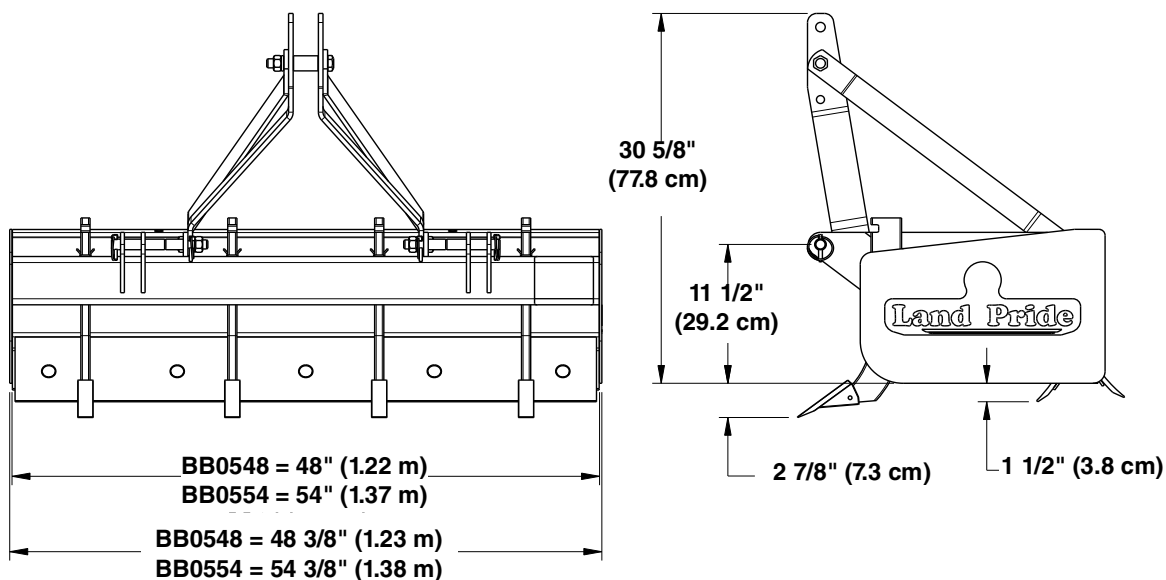
- 82 Orange
- 85 Black

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.

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

BB05 Series

Specifications & Capacities		
Model No.	BB0548	BB0554
Working Width	48" (1.22 m)	54" (1.37 m)
Capacity	7 cu.ft. (0.20 cu m)	8 cu.ft. (0.23 cu m)
Weight	277 lbs. (125.6 kg)	298 lbs. (135.2 kg)
Number of Shanks	4	4
Shank Material	3/4" x 2 1/2" x 15" (1.9 cm x 6.4 cm x 38.1 cm) heat treated spring steel	
Shank Penetration	2- positions (Out of the ground or 2 3/8" (6.0 cm) below scraper end plates)	
Shank Tip Construction	Replaceable heat treated dimpled-on tips	
Shank Beam	4" x 4" x 1/4" (10.2 cm x 10.2 cm x 0.6 cm) Square Tubing	
Lift Mechanism	Manual lift with spring retainer at each shank	
Moldboard	Bumped-formed moldboard -13 5/16" (33.8 cm) high	
Side Panels	3/16" (5 mm) thick x 12 3/4" (32.4 cm) high x 20" (50.8 cm) deep	
Depth of Bucket	18 1/2" (47 cm)	
Bucket Reinforcement	Two welded braces to rear of moldboard	
Cutting Blades	2 ea. 1/2" x 6" (13 mm x 15.2 cm) high carbon, heat treated cutting edges; reversible and replaceable	
Maximum H.P. Rating	25 horsepower (18.6 kw)	
A-Frame Material	3/8" x 3" (10 mm x 7.6 cm) C1021	
3-Point Hitch Type	Clevis type lower hitches Cat. 0, Cat. I & Cat. I Limited (Fits Land Pride Quick Hitch)	



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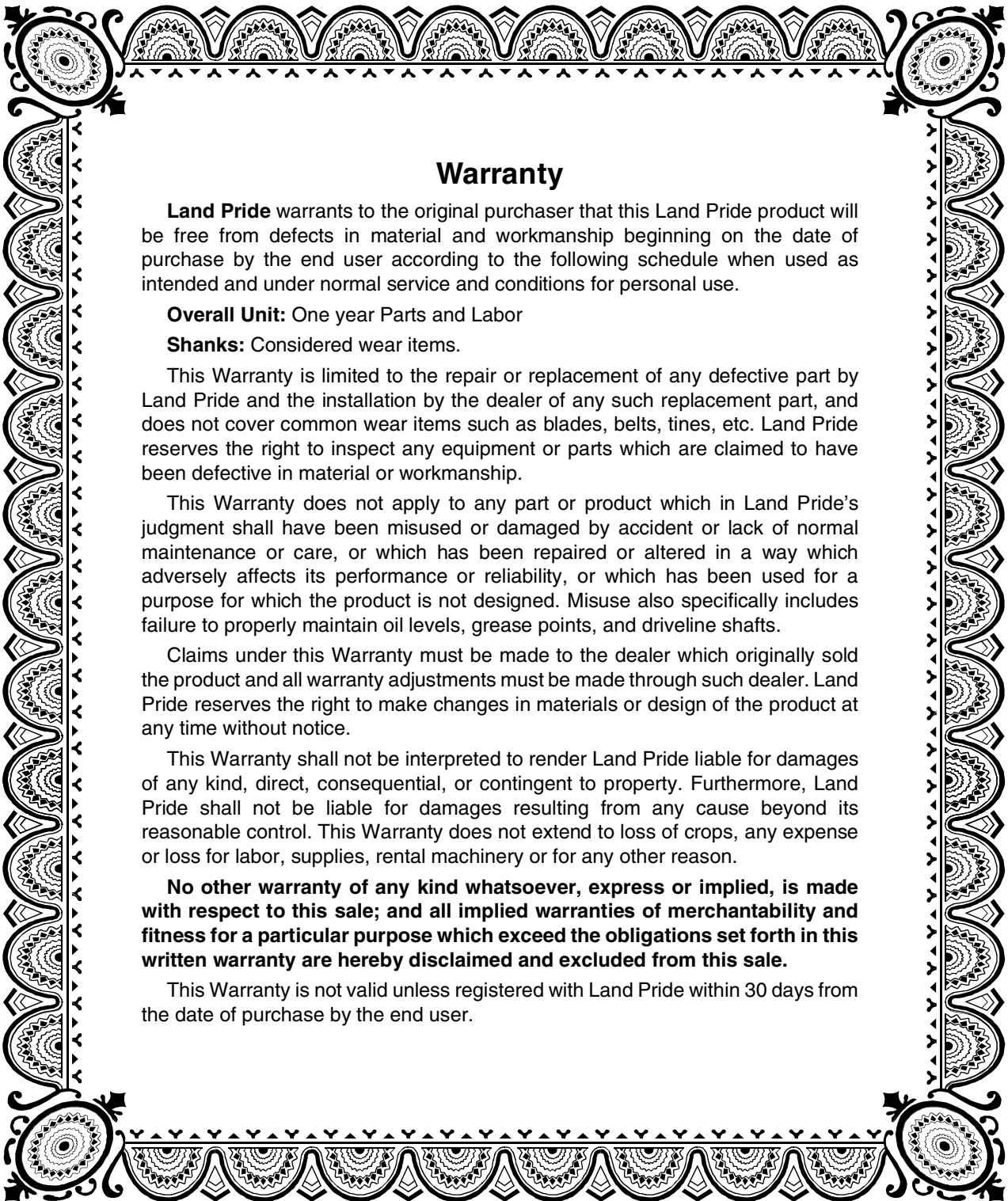
BB05 Series

Features	Benefits
3/16" (5 mm) Side panels	Strongest in this class.
Square tubing shank support	Many competitors use angle iron. Box tubing is stronger.
Clevis -type lower 3-Point hitch	Much stronger than pin type hitch.
3-Position heat treated spring steel shanks	Offers flexibility for deep to shallow settings and Heat-treated for longevity.
Working widths	48" (1.22 m), 54" (1.37 m)
horsepower Range	17-25 hp (13-19 kW)
Bump-formed moldboard	While scraping, this allows the dirt to roll off the moldboard creating less drag resulting in lower horsepower requirements and faster working conditions.
13 5/16" (8.4 cm) Moldboard height	Box Scraper can hold a lot of material.
Moldboard	Heavy moldboard with precise roll holds its shape under heavy loads.
Heat-treated, dimpled-on tips	Easy to replace tips that are heat treated for toughness.
Heat-treated, reversible, and replaceable cutting blades	Heat-treated for hardness. Reversible so both edges can be used before replacing the cutting blades.
Rear backfill blade	Rear backfill blade allows for backfilling trenches or foundations.
Warranty	One year parts & labor.
Cat. 0, Cat.1 & Cat. limited with Quick Hitch capability	Fits a wide variety of tractors. Quick hitch capability allows for easy hook-up.
Two welded braces extending from front to rear of bucket	These braces help keep the Box Scraper square under heavy loads.



Torque Values Chart for Common Bolt Sizes													
Bolt Size (inches)	Bolt Head Identification						Bolt Size (Metric)	Bolt Head Identification					
	Grade 2		Grade 5		Grade 8			Class 5.8		Class 8.8		Class 10.9	
in-tpi ¹	N · m ²	ft-lb ³	N · m	ft-lb	N · m	ft-lb	mm x pitch ⁴	N · m	ft-lb	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12	M 5 X 0.8	4	3	6	5	9	7
1/4" - 28	8.5	6	13	10	18	14	M 6 X 1	7	5	11	8	15	11
5/16" - 18	15	11	24	17	33	25	M 8 X 1.25	17	12	26	19	36	27
5/16" - 24	17	13	26	19	37	27	M 8 X 1	18	13	28	21	39	29
3/8" - 16	27	20	42	31	59	44	M10 X 1.5	33	24	52	39	72	53
3/8" - 24	31	22	47	35	67	49	M10 X 0.75	39	29	61	45	85	62
7/16" - 14	43	32	67	49	95	70	M12 X 1.75	58	42	91	67	125	93
7/16" - 20	49	36	75	55	105	78	M12 X 1.5	60	44	95	70	130	97
1/2" - 13	66	49	105	76	145	105	M12 X 1	90	66	105	77	145	105
1/2" - 20	75	55	115	85	165	120	M14 X 2	92	68	145	105	200	150
9/16" - 12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	215	160
9/16" - 18	105	79	165	120	235	170	M16 X 2	145	105	225	165	315	230
5/8" - 11	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245
5/8" - 18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" - 10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" - 16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" - 9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" - 14	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780
1" - 8	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845
1" - 12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1-1/8" - 7	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710
1-1/8" - 12	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700
1-1/4" - 7	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220
1-1/4" - 12	750	555	1680	1240	2730	2010	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						
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							

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



Warranty

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

Overall Unit: One year Parts and Labor

Shanks: Considered wear items.

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

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

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

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

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

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

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 _____



Corporate Office: P.O. Box 5060
Salina, Kansas 67402-5060 USA
www.landpride.com
