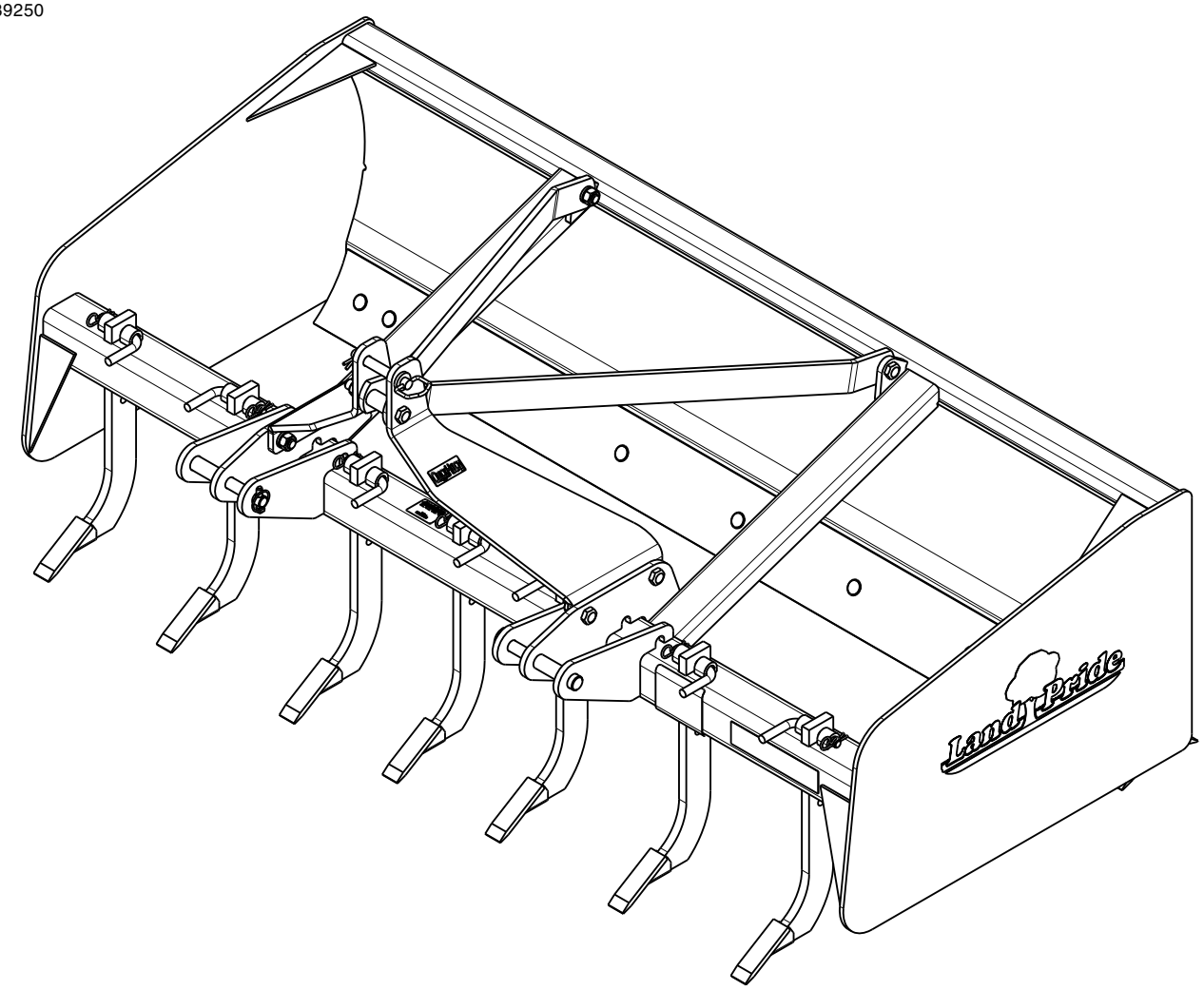
Table of Contents

Fixed Bar Box Scraper

BB3578, BB3584, & BB3596

39250



303-398M
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 11/8/23

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

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

Safety at All Times

Careful operation is your best assurance against an accident.

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.

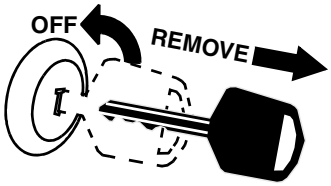
Safety Precautions for Children

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

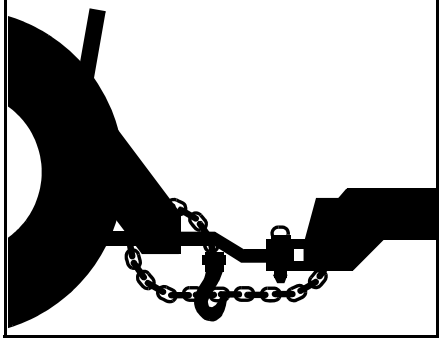
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic 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

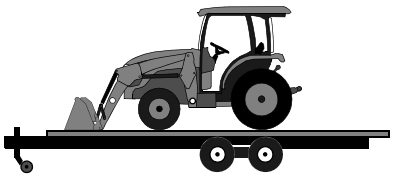
- ▲ A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- ▲ Use a chain with the strength rating equal to or greater than the gross weight of the towed implement.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only 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

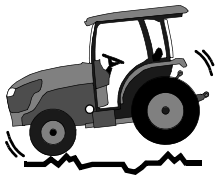
- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with chocks, tie downs, and chains.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.
- ▲ Sudden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

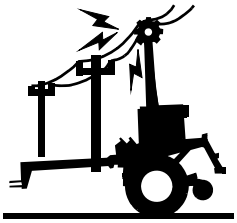




Transport Safely

- ▲ 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 weigh 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.
- ▲ Remove all tools and unused parts from equipment before operation.
- ▲ Do not weld or torch on galvanized metal as it will release toxic fumes.





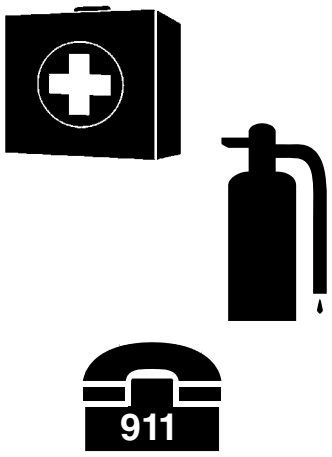




Listed below are common practices that may or may not be applicable to the products described in this manual.

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.



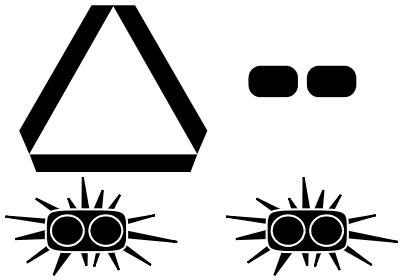
Avoid High Pressure Fluids



- ▲ 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.



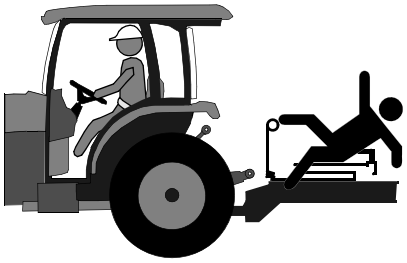
Use Seat Belt and ROPS

- ▲ 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 against serious injury or death from falling and 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.

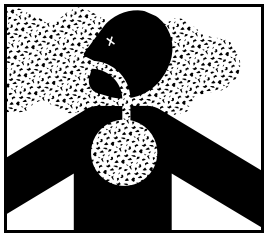


Listed below are common practices that may or may not be applicable to the products described in this manual.

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.

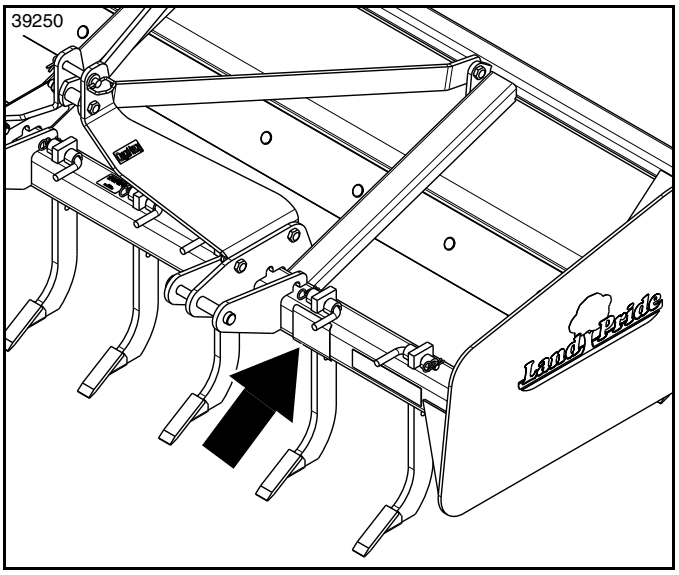


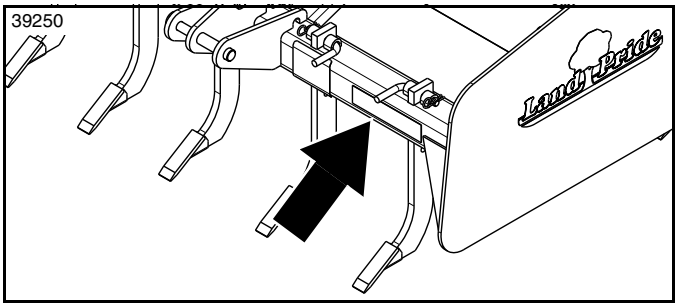
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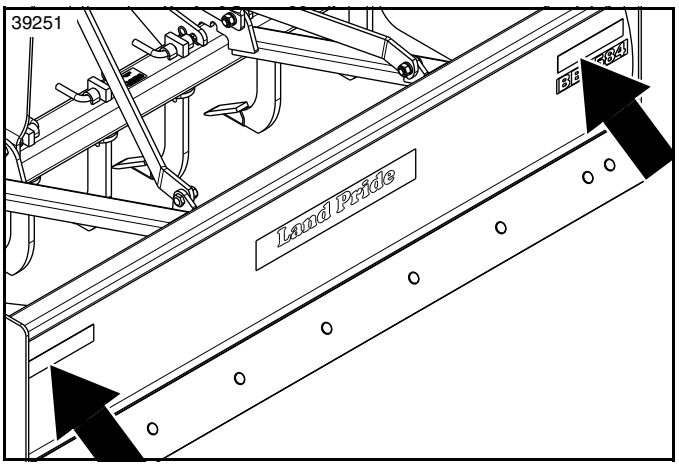
Safety Labels

Your 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.*







70335



818-267C
Warning: Read Operator's Manual / Service hazard
1 Place



73138

838-615C
Amber Reflector: 2" x 9"
1 Place



838-614C
Red Reflector: 2" x 9"
2 Places

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 scraper.

Application

The Land Pride 35 Series Fixed Bar Box Scrapers are ideal for ripping, leveling, finish grading, and backfilling applications at feedlots, outdoor arenas, building sites, and maintenance operations on farm and ranch lanes or roadways.

These Fixed Bar Box Scrapers are designed for Category I and II three point hitches or Quick Hitch System mounting. They are adapted for 3-point attachment to tractors in the 45-120 hp (29.8-89.5 kW) range.

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, 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 the direction the operator faces while sitting in the operator's seat looking forward unless otherwise stated.

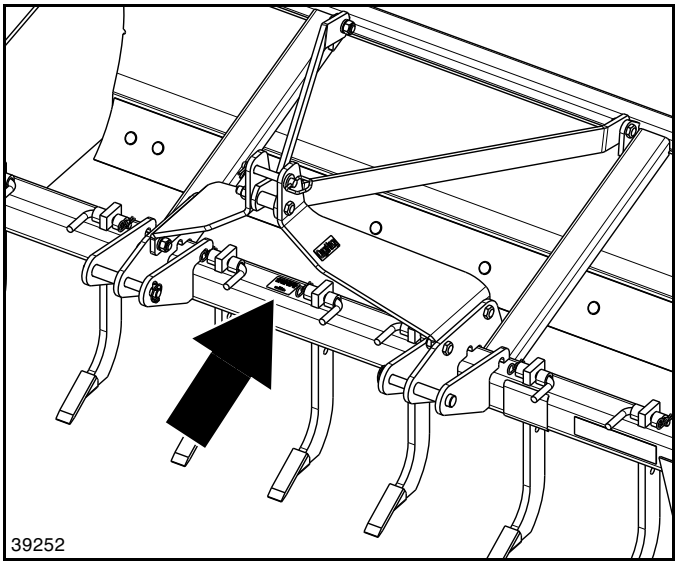
Owner Assistance

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 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 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

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

Horsepower Rating. . . . . 45-120 HP (29.9-89.5 kW)
Hitch Type. 3-Point
Hitch Category . . . . . Cat. 1 or II

WARNING

To avoid serious injury or death:

- *A tractor hitched to the BB35 Series scraper must meet listed minimum horsepower requirements. Refer to "Horsepower Rating" below for listed requirements. Using an under horsepower tractor can result in loss of tractor control and cause 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.*

Torque Requirements

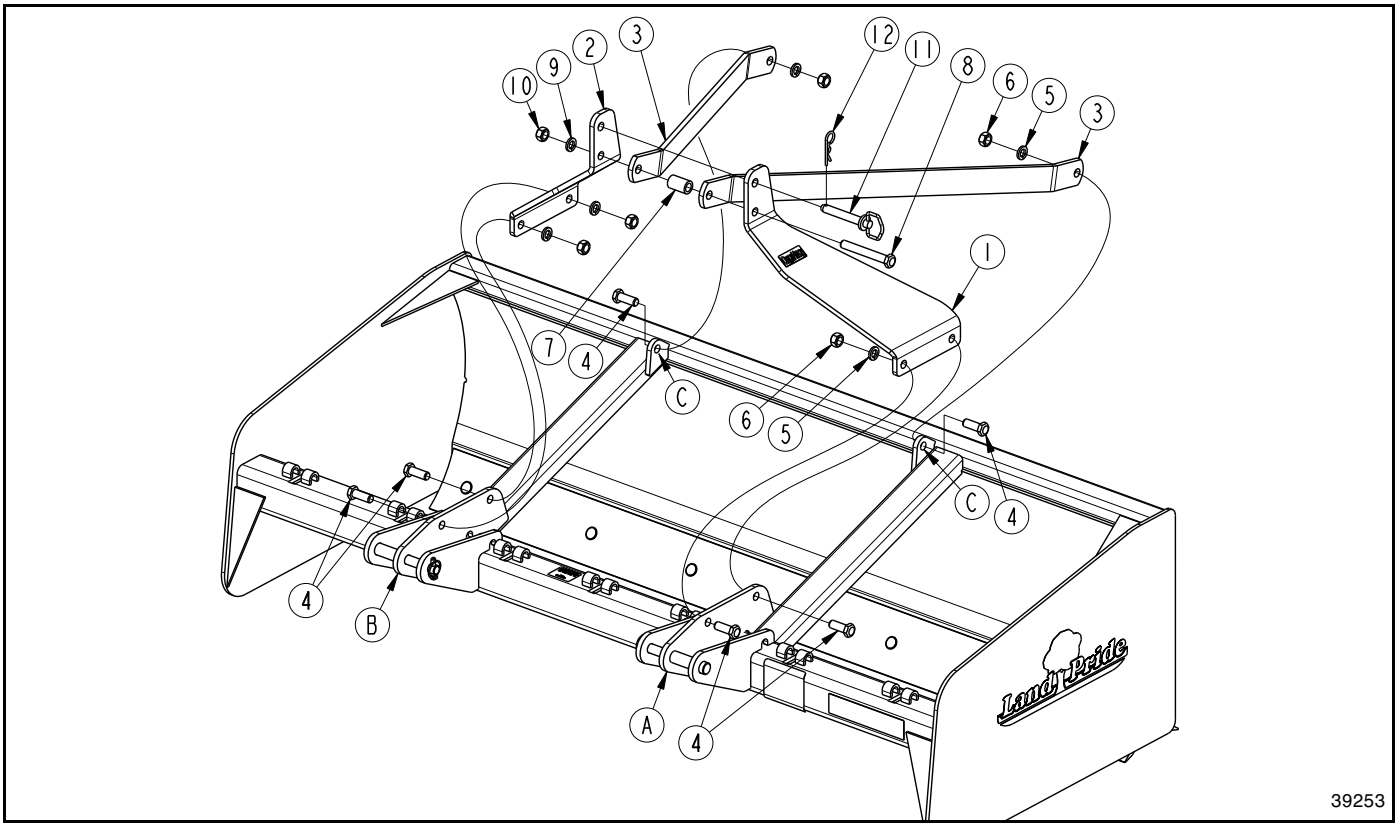
Refer to **"Torque Values Chart"** on page 18 to determine correct torque values when tightening hardware.

Hitch Assembly

Refer to Figure 1-1:

NOTE: Shanks are not shown to make hitch assembly instructions easier to follow.

1. Attach left-hand hitch plate (#1) to the inside of clevis plate "A" with 3/4"-10 x 2" GR5 bolts (#4), lock washers (#5), and hex nuts (#6). Draw nuts up snug, do not tighten at this time.
2. Attach right-hand hitch plate (#2) to the inside of clevis plate "B" with 3/4"-10 x 2" GR5 bolts (#4), lock washers (#5), and hex nuts (#6). Draw nuts up snug, do not tighten at this time.
3. Attach back straps (#3) to the inside of mounting lugs "C" with 3/4"-10 x 2" GR5 bolts (#4), lock washers (#5), and hex nuts (#6). Draw nuts up snug, do not tighten at this time.
4. Align holes in back straps (#3) with lower holes in hitch plates (#1 & #2). With 2" long spacer (#7) positioned in the center, insert 3/4"-10 x 5 1/2" GR5 bolt (#8) through hitch plate (#1), rear strap (#3), spacer (#7), rear strap (#3), and hitch plate (#2) as shown.
5. Secure bolt with lock washer (#9) and hex nut (#10).
6. Tighten hex nuts (#6 & #10) to the correct torque.



Hitch & Shank Assembly (Shanks Not Shown For Clarity)
Figure 1-1

3-Point Hook-up

Refer to Figure 1-2:

DANGER

To avoid serious injury or death:

A crushing hazard exists while Connecting and disconnecting 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

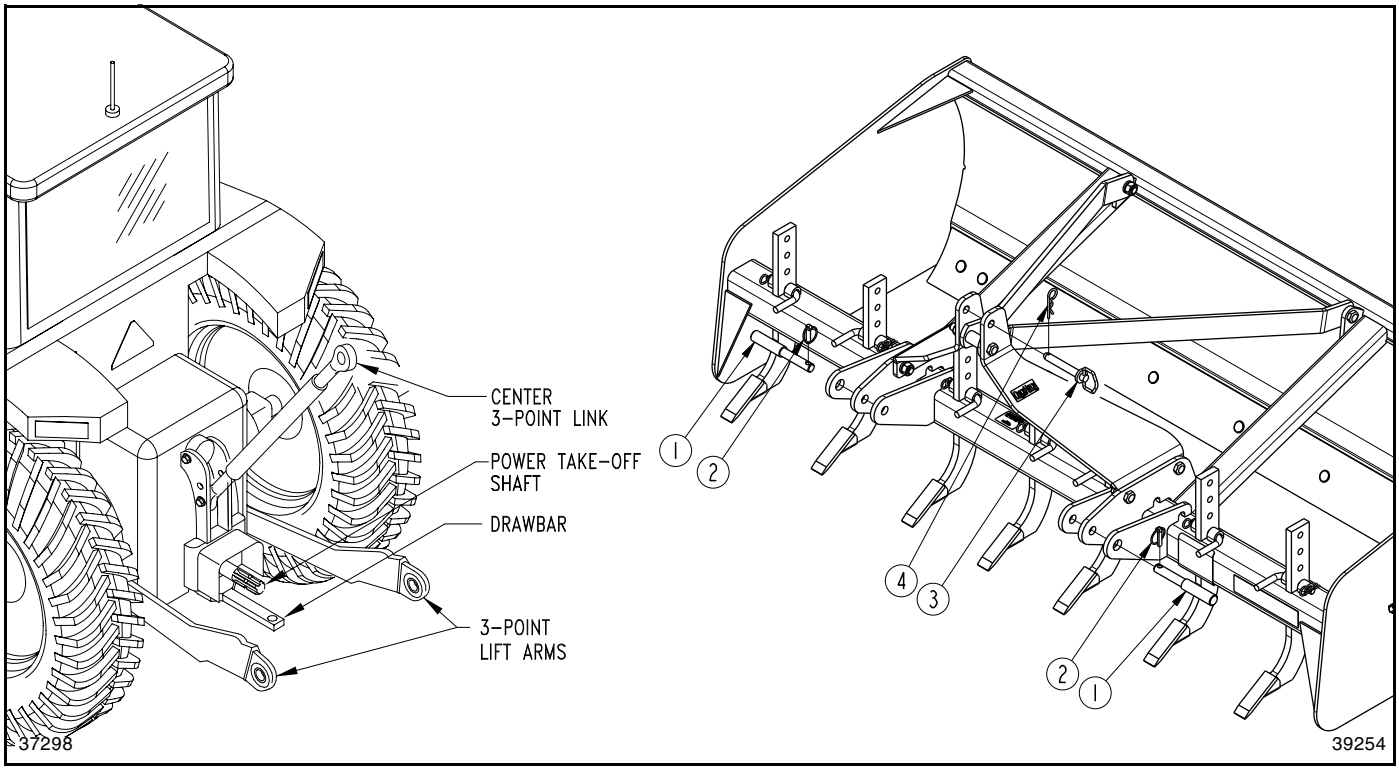
To avoid serious injury or death:

Always follow "Tractor Shutdown Procedure" provided in this manual before dismounting the tractor. Refer to **"Tractor Shutdown Procedure"** *on page 11.*

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 the 3-point hitch must be stabilized to prevent side-to-side movement. Most tractors have sway blocks or adjustable chains for this purpose.

1. Ensure lower 3-point lift arms are blocked to prevent excessive side-to-side movement.
2. Slowly back tractor up to the Box Scraper while using tractor's 3-point control lever to align lower 3-point hitch holes with clevis lug holes on the Box Scraper.
   - Cat. I hook-up: Align lift arms with inside clevises.
   - Cat. II hook-up: Align lift arms with outside clevises.
3. Shut tractor down using correct shutdown procedures before dismounting tractor. Refer to **"Tractor Shutdown Procedure"** on page 11.
4. Attach lower 3-point arms to the clevises with hitch pins (#1). Secure hitch pins with linchpins (#2).
5. Connect top center 3-point link to the upper hitch with hitch pin (#3). Secure hitch pin with hairpin cotters (#4).
6. Return to the tractor and slowly operate tractor 3-point hydraulic control lever to slowly raise and lower the Box Scraper while checking for clearance between tractor tires, drawbar, and Box Scraper. Move or remove drawbar if it interferes with the Box Scraper.
7. Level the scraper left to right and front to back. Refer to **"Leveling and Pitch Adjustment"** on page 13.



Tractor 3-Point Hitch
Figure 1-2

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 of the Box Scraper. Therefore, it is absolutely essential that no one operates the Box Scraper unless they have read, fully understood, and are totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

Perform the following inspections before using your Box Scraper.

Operating Checklist

✔	Check	Ref.
	Read and follow all Safety Rules carefully. Refer to "Important Safety Information".	Page 1
	Read and follow hook-up & preparation instructions. Be sure all pins have been installed and are secured. Refer to "Section 1: Assembly & Set-up".	Page 8
	Read and follow all operating instructions. Make sure operator understands how to operate the Box Scraper.Refer to "Section 2: Operating Procedures".	Page 10
	Read and make all required adjustments. Be sure all pins have been installed and secured. Refer to "Section 3: Adjustments".	Page 12
	Read and follow all Maintenance Instructions. Refer to "Section 4: Maintenance".	Page 14
	Check Box Scraper initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	Page 18

Safety Information

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 off.*
- *Do not allow anyone near the tractor or implement while they are 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 the 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, and who are properly trained in the safe operation of this implement.*
- *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.*
- *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.*
- *Avoid exposure to dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis). 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.*

Transporting

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.

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.

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 shut-off all power to the attachment.
2. Park tractor and attachment on solid, level ground.
3. Lower attachment until it is flat on the ground or on 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.

General Operating Instructions

Once you have familiarized yourself with the Operator's Manual, completed the operating checklist, and properly attached your Land Pride Fixed Bar Box Scraper to your tractor, you are now almost ready to begin work. Box Scrapers are ideal for ripping, leveling, finish grading, and backfilling applications at 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.

A Box Scraper's primary purpose is grading and leveling. This function is best done at an approximate 2 to 4 mph ground speed. With the ripper shanks raised all the way up, simply lower the Box Scraper to the ground and proceed forward. The grader 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 raising the Box Scraper to deposit your load. You can also achieve 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 low areas. 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, lower shanks one hole at a time. If less aggressive ripping action is desired, raise all of the shanks. Achieving the desired effect will require a little experimentation and experience 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 grader 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.

Shank Adjustments

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 off.

WARNING

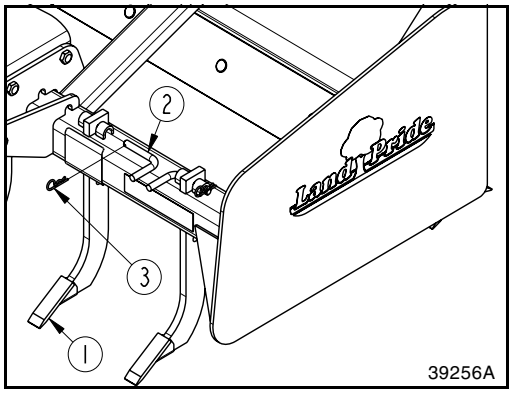
To avoid serious injury or death:

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.

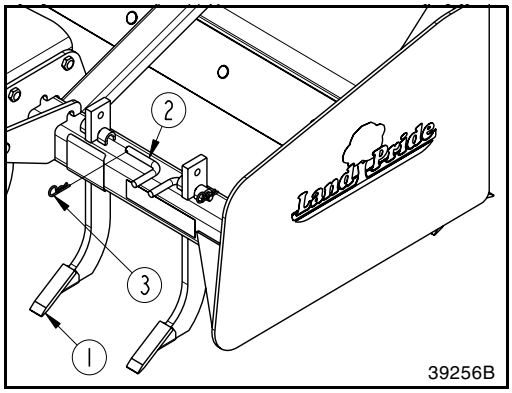
Refer to Figure 3-1:

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:

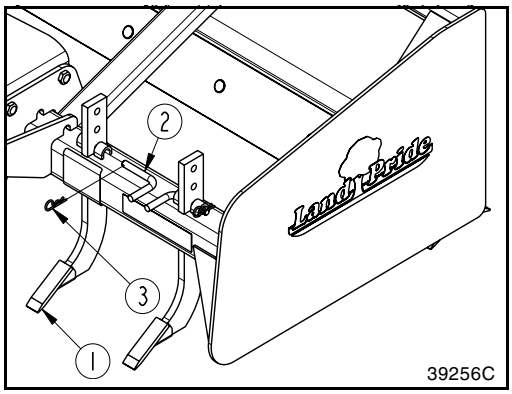
1. Locate tractor and scraper on a flat level surface.
2. Lower scraper down until the side panels and rear blades are resting on four 6” (15 cm) high support blocks.
   a. Locate two of the support blocks close to the front of the scraper under both side panels.
   b. Locate the other two support blocks under the grader blades and close to the side panels.
3. Place tractor gear selector in park or set park brake, turn off engine, and remove ignition key before dismounting tractor.
4. Remove hairpin cotter (#3) and bent pin(#2).
5. Adjust shank (#1) up or down to the desired shank hole and replace bent pin (#2). Secure bent pin with hairpin cotter (#3).



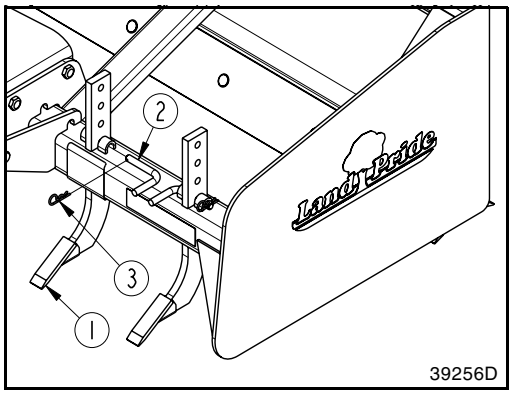
Shanks mounted using the top hole are 4" (10 cm) below the side plates



Shanks mounted using the 2nd hole down are 2" (5 cm) below the side plates

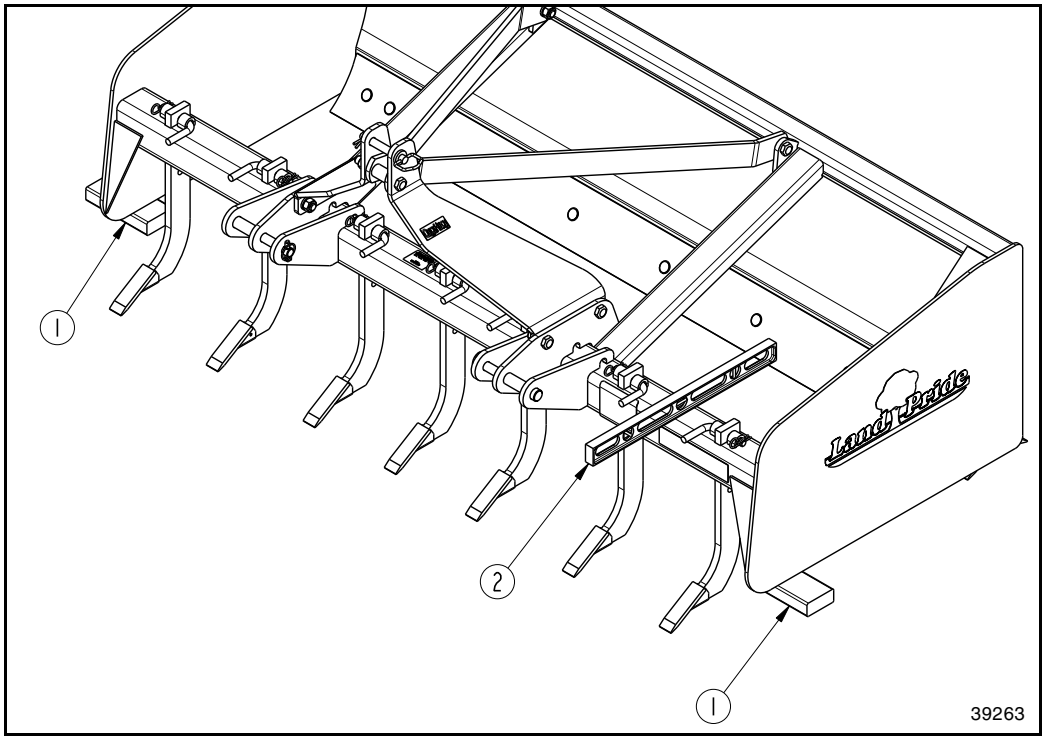


Shanks mounted using the third hole down are even with the bottom of the side plates



Shanks mounted using the bottom hole are 2" (5 cm) above the bottom of the side plates

Shank Adjustments
Figure 3-1



Leveling & Pitch Adjustment
Figure 3-2

Leveling and Pitch Adjustment

Refer to Figure 3-2:

1. Locate tractor and Box Scraper on a flat, level surface. Lower scraper until side panels are 2 to 3 inches off the ground.
2. Place tractor gear selector in park or in neutral and set park brake. Turn tractor engine off, and remove ignition key to prevent unauthorized starting.
3. Close to the front of the scraper, place a 2x4 board (#1) under each scraper side panel.
4. Return to the tractor seat and restart tractor.
5. Slowly lower scraper down while watching the side panels make contact with the 2x4 boards (#1). Both side panels should make contact with the boards at the same time. If one side makes contact sooner, make note of that side and continue to lower the scraper until both sides are resting on the boards.
6. Turn off tractor engine, and remove ignition key before dismounting tractor.
7. Adjust tractor lower 3-point arm up on the side of the tractor that the scraper touched the 2x4 board first. If that arm is not adjustable, adjust the opposite lower 3-point arm down.
8. Return to the tractor seat and restart tractor. Repeat steps 5 thru 7 above until both side panels touch the 2x4 boards at the same time.
9. Once scraper is level left to right, raise scraper slightly to remove all weight off the 2x4 boards.
10. Turn tractor engine off, and remove ignition key.
11. Remove 2x4 boards from both sides of scraper.
12. Without lowering the scraper, place a level (#2) on the shank beam running from front to back as shown.
13. Adjust tractor top center 3-point link to level scraper front to back as follows;
    - Lengthen center link to lower back of scraper until shank beam is level.
    - Shorten center link to raise back of scraper until shank beam is level.

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.

14. Start tractor and lower scraper to the ground, or raise scraper up to transport to the work site.

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

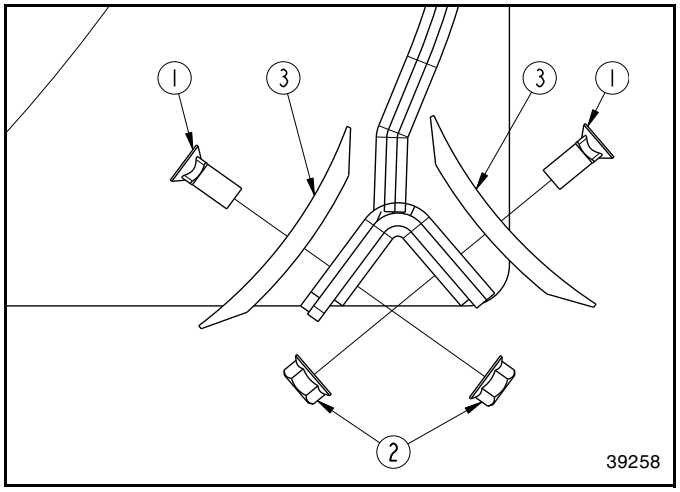
To avoid serious injury or death:

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 off.

WARNING

To avoid serious injury or death:

- *Make sure controls are all in the neutral position or park before starting the power machine.*
- *Allow only persons to perform maintenance on this implement who have been properly trained in its safe operation.*
- *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.*



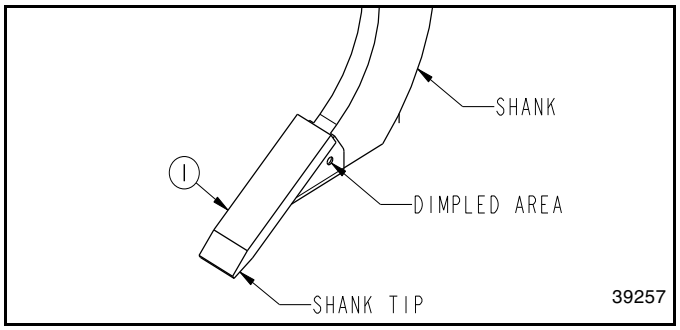
Cutting Blade Removal
Figure 4-1

Cutting Blades

Refer to Figure 4-1:

The front and rear cutting blades (#3) have two cutting edges. Replace cutting blades when both edges are worn out.

1. Unbolt front and rear cutting blades (#3) and turn them over when their bottom cutting edge wears out.
2. Inspect 5/8" -11 x 1 1/4" GR5 plow bolts (#1) and hex whiz nuts (#2) for wear. Replace as needed.
3. Reattach front and rear cutting blades (#3) with 5/8" -11 GR5 plow bolts (#1) and flange lock nuts (#2). Torque flange lock nuts to the correct torque.



Shank Tip Removal
Figure 4-2

Shank Tips

Refer to Figure 4-2:

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. Use Land Pride shank tips only.

Long-Term Storage

Clean, inspect, service, and make necessary repairs to the implement when storing it for long periods and at the end of the season. This will help to ensure the unit is ready for field use the next time you hook-up to it.

1. Clean off any dirt that may have accumulated on the scraper and blades. Scrape off compacted dirt and then wash surfaces thoroughly with a garden hose.
2. Check grader blades and plow bolts for wear and replace if necessary. For additional instructions, see **"Cutting Blades"** on page 14**.**
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 page 14.
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.

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

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.

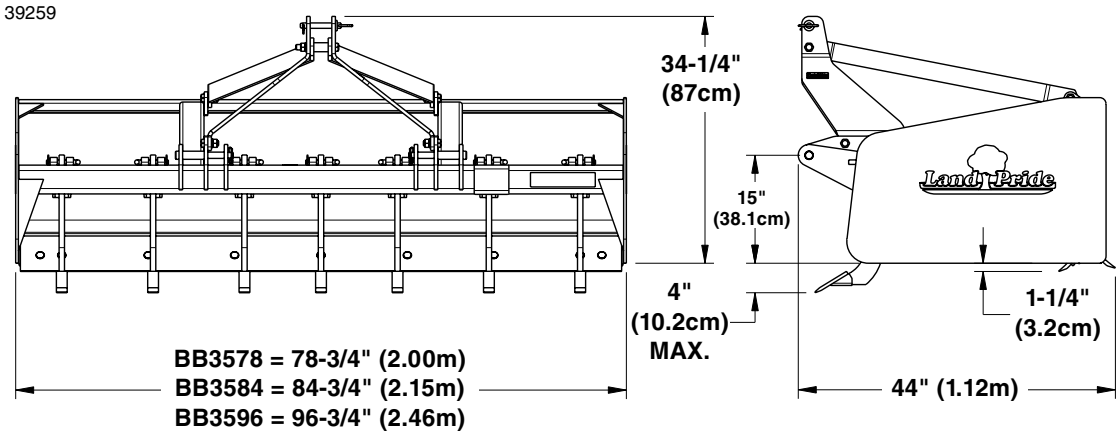
When ordering an optional color, the suffix number corresponding to the color must be added at the end of the part number. Parts ordered without the suffix number will be supplied in factory standard colors.

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.

BB35 Series

Specifications & Capacities				
Model Numbers	**Units**	**BB3578**	**BB3584**	**BB3596**
Working width	inches (m)	78 (1.98)	84 (2.13)	96 (2.44)
Capacity	ft³ (m³)	30 (.85)	32 (.91)	37 (1.05)
Weight	lbs. (kg)	820 (371.9)	853 (386.9)	931 (422.3)
Number of shanks		7	7	8
Shank material	inches (cm)	3/4 x 2 9/16 x 18 (1.9 x 6.5 x 45.7) heat treated spring steel		
Vertical shank positions	inches (cm)	4 - positions [2 (5.1)above, even, 2 (5.1) below & 4 (10.2) below scraper end plates]		
Shank tip construction		Replaceable heat treated dimpled-on tips		
Shank beam	inches (cm)	4 x 4 x 3/8 (10.2 x 10.2 x 1) Square Tubing with 1/2 x 1/2 (1.3 x 1.3) reinforced shank opening		
Lift mechanism		Manual with bent pin and hairpin cotter at each shank.		
Moldboard	inches (cm)	Formed moldboard - 23 (58.4) High		
Side Panels	inches (cm)	3/8 (1) thick x 23 (58.4) high x 36 (91.4) deep		
Depth of bucket	inches (cm)	22 (55.9)		
Bucket reinforcement		Two braces extending from shank beam to rear of bucket, two horizontal gussets between the side panels and moldboard, and two vertical gussets between shank beam and side panels.		
Cutting blades	inches (cm)	2 ea. 1/2 x 6 (1.3 x 15.2) high carbon, heat treated cutting edges; reversible and replaceable. Backfill blade is standard		
Horsepower Requirement	hp (kW)	45-120 (33.6-89.5)		
A-frame hitch construction	inches (mm)	1/2 (13) HR A-frame plates		
3-Point hitch type		Cat. I & Cat.II Double strap lower clevises Fits Land Pride Quick Hitch		



BB35 Series

Features	Benefits
3/8" (10mm) Heavy side panels	Built heavy to handle the tough jobs.
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.
4 Position heat treated spring steel shanks	Offers flexibility for deep to shallow settings and heat-treated for longevity.
78", 84", & 96" Optional widths (1.98m , 2.13m , 2.44m)	Available in different widths to meet customer needs.
45 to 110 HP (33.6 to 82 kW) range	Fits a wide variety of tractors.
Formed moldboard	Formed moldboard keeps materials flowing which puts less drag on the Box Scraper, resulting in lower HP requirements and faster working conditions.
23" (58.4cm) Moldboard height	High material capacity.
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.
Category I & II 3-point hitch with Quick Hitch capability	Fits a wide variety of tractors. Quick Hitch capability allows for easy hook-up.
Heavy 4" x 4" x 3/8" (10.2cm x 10.2cm x 1cm) shank beam with 1/2" x 1/2" (1.3cm x 1.3cm) reinforced shank holes	Reinforcement behind shanks where maximum pressure is applied adds additional strength to the shank tube.
Strong box reinforcement	Two welded channel braces extending from shank beam to rear of box plus four welded gussets between the side panels, moldboard, and shank beam provide exceptional strength for keeping the Box Scraper square under heavy loads.

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)

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

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

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

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

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

Model Number _____ **Serial Number** _____



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