**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.

<table>
<thead>
<tr>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial Number</td>
</tr>
<tr>
<td>Machine Height</td>
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<tr>
<td>Machine Length</td>
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<tr>
<td>Machine Width</td>
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<tr>
<td>Machine Weight</td>
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<tr>
<td>Delivery Date</td>
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<tr>
<td>First Operation</td>
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<tr>
<td>Accessories</td>
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<td></td>
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<tr>
<td></td>
</tr>
</tbody>
</table>

**Dealer Contact Information**

Name: __________________________

Street: __________________________

City/State: _______________________

Telephone: _______________________

Email: __________________________

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**California Proposition 65**

⚠️ WARNING: Cancer and reproductive harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)
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Printed in the United States of America.
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See previous page for Table of Contents.
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, or have the manuals read to them, 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 the ability to safely and properly operate the equipment.
- The operator should be familiar with all functions of the tractor and attached implement and be able to handle emergencies quickly.
- Make sure all guards and shields appropriate for the operation are in place and secured before operating implement.
- Keep all bystanders away from equipment and work area.
- Start tractor from the driver’s seat with hydraulic controls in neutral.
- Operate tractor and controls from the driver’s seat only.
- Never dismount from a moving tractor or leave tractor unattended with engine running.
- Do not allow anyone to stand between tractor and implement while backing up to implement.
- Keep hands, feet, and clothing away from power-driven parts.
- While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.
- Do not turn tractor so tight as to cause hitched implement to ride up on the tractor’s rear wheel.
- Store implement in an area where children normally do not play. When needed, secure attachment against falling with support blocks.

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

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

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

**Tractor Shutdown & Storage**

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

### 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.

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

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

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

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

**Avoid Underground Utilities**
- Dig Safe, Call 811 (USA).
  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.

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

**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.

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

**Keep Riders Off Machinery**
- Never carry riders on tractor or implement.
- Riders obstruct operator’s view and interfere with the control of the power machine.
- Riders can be struck by objects or thrown from the equipment.
- Never use tractor or implement to lift or transport riders.
Safety Labels

Your Retractable 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.

WARNING

To Avoid Injury or Machine Damage:
2. Contact dealer for manual.
3. Keep others away during operation.
4. DO NOT allow riders.
5. Lower Box Scraper to the ground, stop tractor engine, set the park brake, and remove ignition key BEFORE servicing, adjusting, or repairing.
6. DO NOT put feet under box scraper when removing or adjusting shanks.

818-267C
Caution Avoid Injury

WARNING

HIGH PRESSURE FLUID HAZARD
To prevent serious injury or death:
1. Relieve pressure on system before repairing or adjusting or disconnecting.
2. Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
3. Keep all components in good repair.

838-094C
Warning High Pressure Fluid Hazard
Introduction

Land Pride welcomes you to the growing family of new product owners. This Retractable 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 machine.

Application

The 35 Series Retractable Box Scrapers are designed and built by Land Pride to meet dirt moving and soil contouring needs of landscapers, contractors, nurseries, sod growers, farmers, ranchers and municipalities. Our Box Scrapers are designed for category I & II 3-point hitch mounting on tractors with up to 120 hp.

Land Pride meets a wide range of specific needs by offering the “Low Back” model HRL3578 with 78” of working width and the larger cubic foot capacity HR3584 “High Back” model with 84” of working width. Soil contouring productivity is dramatically increased with utilization of the hydraulically controlled retractable scarifier.

The front blade mounted on the moldboard is ideal for soil redistribution and soil leveling. A second blade mounted on the hinged rear gate further enhances the ability of the Box Scraper to redistribute and level soil. Both the front and rear blades are replaceable and can be flipped over to extend blade life. The Box Scraper is used for finishing and fine grading when the hinged rear gate is bolted in place. Unbolt the rear gate and the Box Scraper’s front blade will penetrate deeper into the soil. Place the tractor in reverse and the rear blade can be used to backfill.

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 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 Retractable 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.
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
   lpservicedept@landpride.com
Tractor Requirements
Tractor horsepower should be within the range noted below. Tractors outside the horsepower range must not be used.

- Maximum Horsepower .............. 120 horsepower
- Hitch Type .................. 3 - Point Cat. 1 and 11

⚠️ 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
Unless specified, refer to “Torque Values Chart” on page 18 to determine correct torque values. See “Additional Torque Values” at bottom of the chart for exceptions to standard torque values.

Hydraulic Cylinder Assembly
Refer to Figure 1-2:
1. With Box Scraper setting on the ground, position hydraulic cylinder (#6) with hydraulic fittings facing forward and cylinder base up as shown.
2. Attach cylinder base to the upper lug with clevis pin (#5) and cotter pin (#3).
3. Attach cylinder rod clevis between the two lower lugs (#1) with clevis pin (#4), flat washer (#2), and cotter pin (#3). Bend one leg of cotter pin to keep it from falling out.
4. Attach hydraulic couplers (supplied by customer) to hydraulic hoses.
3-Point Hook-up

Refer to Figure 1-3:

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

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 lift 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. Slowly back tractor up to the Box Scraper while using the tractor’s 3-point hydraulic control lever to align lower hitch holes with Cat. I or Cat. II clevis lug holes on the Box Scraper.
2. Engage tractor park brake, shut tractor engine off and remove key before dismounting from tractor.
3. Attach lower lift arms to Cat. I or Cat. II clevises with hitch pins (#1) and secure with linchpins (#2).
4. Connect top center link to the upper clevis lugs using customer supplied clevis pin (#3) and hitch pin keeper (#4).
5. Return to the tractor and slowly operate 3-point hydraulic control lever to fully raise and lower Retractable Box Scraper while checking for clearances between the scraper and tractor tires, drawbar, etc. Move or remove drawbar if it interferes with the scraper.
6. Ensure that the lower arms are stabilized to prevent excessive side movement.
7. See “Level and Pitch Adjustment” on page 12.

Hydraulic Hook-up

⚠️ DANGER
To avoid serious injury or death:
Relieve all hydraulic pressure before disconnecting any lines or pipes between implement and tractor hydraulic system.

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

Refer to Figure 1-3:

1. Connect hydraulic hoses (#6 & #7) to tractor remote outlets.
2. Cycle hydraulic system by extending and retracting hydraulic cylinder several times. It may be necessary to purge the system of trapped air if operation remains sluggish. Purge the system as follows:
   a. Lower Box Scraper until it is resting on the ground and shut tractor engine off.
   b. Remove cotter pin (#3), flat washer (#2), and lower cotter pin (#4).
   c. Loosen fitting (#7) to allow fluid to escape.
   d. Slowly activate tractor control lever to purge any trapped air from the system.
   e. Once the system has been purged, tighten fitting (#7) and attach cylinder (#6) to lower lugs (#1) with clevis pin (#4), flat washer (#2), and cotter pin (#3).
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 without first having read, fully understood, and become totally familiar with the Operator’s Manual. Make sure the operator has completed the Operating Checklist below.

• Important Safety Information, page 1
• Section 1: Assembly & Set-up, page 7
• Section 2: Operating Instructions, page 9
• Section 3: Adjustments, page 12
• Section 5: Maintenance & Lubrication, page 14

Before using your Retractable Box Scraper, the following inspection should be performed.

Operating Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect tractor safety equipment to make sure it is in good working condition.</td>
<td>Tractor Manual</td>
</tr>
<tr>
<td>Make sure there are no hydraulic leaks. Refer to “Avoid High Pressure Fluids Hazard”.</td>
<td>Page 3</td>
</tr>
<tr>
<td>Check shank depth. See Shank Adjustments.</td>
<td>Page 12</td>
</tr>
<tr>
<td>Check scraper levelness and pitch. Refer to “Level and Pitch Adjustment”.</td>
<td>Page 12</td>
</tr>
<tr>
<td>Check blades for wear. Turn blade over or replace as needed. Refer to “Cutting Blades”.</td>
<td>Page 14</td>
</tr>
<tr>
<td>Check shank tips for wear and tightness. Replace tips as needed. See “Shank Tips”.</td>
<td>Page 14</td>
</tr>
<tr>
<td>Check scraper for loose bolts and pins. Refer to “Torque Values Chart”.</td>
<td>Page 18</td>
</tr>
<tr>
<td>Check initially and periodically for loose bolts and pins. Make sure all hardware is tight and that worn or damaged hardware is replaced with properly rated hardware. Refer to the “Torque Values Chart”.</td>
<td>Parts Manual</td>
</tr>
<tr>
<td>Ensure tractor drawbar, tires, and frame does not make contact with the scraper. Refer to “3-Point Hook-up”.</td>
<td>Page 8</td>
</tr>
</tbody>
</table>

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 shut off.
• Make all 3-point hydraulic adjustments from the tractor seat. Never make hydraulic adjustments while standing behind the tractor.

• Do not allow anyone near the tractor or implement while operating. Stop operation if bystanders are too close. They can be hit by flying projectiles, become entangled in the equipment, or run over.
• Do not 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.

⚠️ WARNING
To avoid serious injury or death:
• Never carry riders on the implement or tractor. Riders can obstruct the operator’s view, interfere with control of the equipment, be pinched by moving components, become entangled in rotating components, be struck by objects, be thrown or fall from the equipment, etc.
• Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of injury must treat the injury within a few hours or gangrene may result. DO NOT DELAY.
• 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.
• Do not use implement as a man lift or work platform. It is not properly designed or guarded for this use.
• Do not use implement to lift objects; to pull objects such as fence posts, stumps, etc.; or to push objects. The unit is not designed or guarded for these uses.
• Do not use implement to tow other equipment unless it is designed or guarded for these uses.
• 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.
• 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. 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.
• Never work near utilities such as gas lines, electrical lines, or other hazards that can cause serious injury or death from electrocution, explosion, or fire.
Transporting

⚠️ DANGER
To avoid serious injury or death:
Always keep a safe distance from obstructions. The implement can extend beyond tractor tires and makes a wide swinging pattern when turning. Never hit solid objects with implement as this can damage property and cause tractor to pivot violently resulting in loss of control.

⚠️ WARNING
To avoid serious injury or death:
- When traveling on public roadways, travel in such a way that faster moving vehicles may pass safely. Use 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.
- 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 Retractable 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.

Basic Operation
Refer to Figure 2-1:
Raise shank bar to the upper position by extending hydraulic cylinder. Retract cylinder to lower shank bar to working position. Shank tube lock (#1) should be fully engaged when shank bar is lowered to avoid pressure to hydraulic cylinder and linkage.

⚠️ IMPORTANT: Be sure to check shank tube lock (#1) to make certain it has fully engaged onto the frame locking lug as shown in Figure 2-1 before working the soil.
General Operating Instructions

Once you have familiarized yourself with the Operator’s Manual, completed the operations checklist, and properly attached your Land Pride 35 Series Box Scraper to your tractor, you are now almost ready to begin work. Hopefully you have checked out your work site for any buried utility cables, pipelines, or other obstacles that you would not want to damage or encounter. If you intend to meet or develop actual grade elevation specifications, your surveyors’ grade stakes should be in place at this time.

A Box Scraper’s primary purpose is grading and leveling. This function is best done at an approximate 2 to 4 mph ground speed. 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 slowly raising the Box Scraper to deposit your load. High-back models will have the capacity to transfer more material. 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 moldboard blade in the low spots.

Occasionally the ground or surface material will be very hard and will require ripping to loosen the soil profile. This will make Box Scraper blade operations more effective. When aggressive ripping action is desired, hydraulically rotate the whole compliment of shanks until they are locked into position and protruding below the side panels of the Box Scraper. The more you adjust the shanks downward in 2” increments the more aggressive they will become. If less aggressive ripping action is desired, manually adjust or reposition the shanks upward. When performing ripping operations, the simultaneous scraping and leveling operations should become much easier and more productive.

The hinged rear gate of your 35 series Box Scraper can be locked in place for scraping or unlocked to allow a simultaneous floating and leveling action of accumulated material flowing out of the box. 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. The scraper can be used for backfilling applications with the rear hinged gate locked or unlocked. Simply make sure your ripping shanks are locked in the raised position and back the 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 Retractable 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 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.

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. Remove hairpin cotter (#1) and shank pin(#2).
2. Adjust shank (#3) up or down to the desired hole setting and then replace shank pin and secure with hairpin cotter.

**Level and Pitch Adjustment**

1. Adhere to “Shank Adjustments” safety precautions on this page. Remove shanks located between hitch straps and raise all other shanks fully up.
2. Locate tractor and scraper on a flat lever 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. Some tractors have only one arm that is adjustable.

5. Rotate level 90 degrees and then adjust the tractor’s top center link until unit is leveled from front to back.

**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 a time to increase blade pitch.

**Rear Blade Setting**

Refer to Figure 3-2:

The rear gate of the Box Scraper is hinged. Mounted to the rear gate is a rear blade. The cutting blade located in front of the rear gate will penetrate deeper if the rear gate is allowed to hinge.

For finishing and fine grading, secure both ends of the rear gate to the moldboard with 1/2" x 1 1/2" long bolts (1/2" bolts are supplied by customer).
Check Valve Kit

Refer to Figure 4-1:

1. Locate hose attached to the rod end of cylinder. Remove end fittings from the tractor end of this hose. Attach the tractor end of the hose to port (#4).

2. Install the end fittings removed during step 1 to hose (#3A).

3. Locate hose attached to the base end of cylinder. Remove end fittings from the tractor end of this hose. Attach the tractor end of the hose to port (#2).

4. Install the end fittings removed during step 3 to hose (#3B).

5. Connect hoses (#3A & #3B) to tractor remote outlets. Use cable ties (#1) to tie the hoses from the valve to the cylinder together.
Section 5: Maintenance & Lubrication

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

Check all bolts after using 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. Add grease to the zerks per Lubrication Schedule on page 15.

The parts on your Retractable 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:
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:
- Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of injury must treat the injury within a few hours or gangrene may result. DO NOT DELAY.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting implement back into service. Serious breakdowns can result in injury or death.
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.

Tractor Maintenance
One of the most important things you can do to prevent hydraulic system problems is ensure that your tractor’s reservoir remains free of dirt and contamination.
Use a clean cloth to wipe hose ends before attaching them to your tractor. Replace your tractor’s hydraulic filter element at the prescribed intervals. These simple maintenances will go a long way to prevent occurrence of control valve and hydraulic cylinder problems.

Cutting Blades
Refer to Figure 5-1:
The front and rear cutting blades (#4) have two cutting edges. Replace 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 5/8” -11 x 1 1/4” GR5 plow bolts (#1), 5/8” -11 x 2” GR5 plow bolts (#2), and hex flange locknuts (#3) for wear. Replace as needed.
3. Reattach blade and tighten to required torque.

Shank Tips
Refer to Figure 5-2:
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.
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 loose and compacted dirt that may have accumulated on the scraper and cutting blades and then wash surfaces thoroughly with a garden hose.

2. Check shank bars and plow bolts for wear and replace if necessary. For additional instructions, see “Cutting Blades” on this page.

3. Inspect Retractable Box Scraper for loose, damaged, or worn parts. Adjust and tighten loose parts. When needed, replace parts with genuine Land Parts only.

4. 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.

5. Replace all damaged or missing decals.

6. Lubricate as noted in “Lubrication Point” on page 15.

7. A light coat of oil or grease may be applied to the shank bar and to any exposed hydraulic cylinder rods to minimize oxidation.

8. Store 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 is also available in Orange.

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

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

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

For example, if you are ordering a replacement part with part number 555-555C and the existing part is orange, then add the suffix 82 to the end of the number to make the part number read 555-555C82.

Lubrication Point

Pivot Tube
Type of Lubrication: Multi-purpose Grease
## HRL35 & HR35 Retractable Series

<table>
<thead>
<tr>
<th></th>
<th>19&quot; Lowback HRL3578</th>
<th>24&quot; Highback HR3584</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working width</strong></td>
<td>78&quot;</td>
<td>84&quot;</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>26 cu. ft.</td>
<td>31 cu. ft.</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>972 lbs.</td>
<td>1117 lbs.</td>
</tr>
<tr>
<td><strong>Weight (with hydraulics)</strong></td>
<td>981 lbs.</td>
<td>1119 lbs.</td>
</tr>
<tr>
<td><strong>Number of shanks</strong></td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td><strong>Shank material</strong></td>
<td>3/4&quot; x 2 1/2&quot; heat treated spring steel</td>
<td></td>
</tr>
<tr>
<td><strong>Shank penetration</strong></td>
<td>3- positions (1&quot;, 3&quot; &amp; 5&quot; below scraper end plates)</td>
<td></td>
</tr>
<tr>
<td><strong>Shank tip construction</strong></td>
<td>Replaceable heat treated dimpled-on tips</td>
<td></td>
</tr>
<tr>
<td><strong>Shank beam</strong></td>
<td>Pivots to lift shanks up; transport lock on shank tube</td>
<td></td>
</tr>
<tr>
<td><strong>Lift mechanism</strong></td>
<td>Hydraulic cylinder</td>
<td></td>
</tr>
<tr>
<td><strong>Moldboard</strong></td>
<td>Roll-formed moldboard - 17&quot;</td>
<td>Roll-formed moldboard - 23&quot;</td>
</tr>
<tr>
<td><strong>Side panels</strong></td>
<td>1/2&quot; thick x 19&quot; high x 30&quot; deep</td>
<td>1/2&quot; thick x 24&quot; high x 30&quot; deep</td>
</tr>
<tr>
<td><strong>Depth of bucket</strong></td>
<td>28&quot;</td>
<td>27 1/2&quot;</td>
</tr>
<tr>
<td><strong>Cutting blades</strong></td>
<td>2 ea. 1/2&quot; x 6&quot; high carbon, heat treated cutting edges; reversible and replaceable</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum hp rating</strong></td>
<td>120 hp</td>
<td></td>
</tr>
<tr>
<td><strong>3-Point hitch construction</strong></td>
<td>Harden bushings in upper and lower hitch points</td>
<td></td>
</tr>
<tr>
<td><strong>3-Point hitch type</strong></td>
<td>Category I &amp; II (Quick Hitch ready)</td>
<td></td>
</tr>
</tbody>
</table>

---

![Diagram of HRL35 & HR35 Retractable Series](image)

HR3584 = 85"
HRL3578 = 79"
### HRL35 & HR35 Retractable Series

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2” Heavy side panels</td>
<td>Thick end panels guard against abrasion.</td>
</tr>
<tr>
<td>Hydraulic shank tube</td>
<td>Hydraulic shank tube makes for efficient use of time.</td>
</tr>
<tr>
<td>Clevis-type lower 3-point hitch</td>
<td>Allows for easier hook-up of the tractor's lower draft arms.</td>
</tr>
<tr>
<td>Roll-formed moldboard</td>
<td>Roll-formed moldboard keeps materials flowing which puts less drag on the box scraper, resulting in lower hp requirements and faster working conditions.</td>
</tr>
<tr>
<td>Heat treated dimpled on tips</td>
<td>Easy to replace tips that are heat treated for toughness.</td>
</tr>
<tr>
<td>Heat-treated, reversible and replaceable cutting edges</td>
<td>Heat-treated for hardness. Reversible so both edges can be used before replacing the cutting blades.</td>
</tr>
<tr>
<td>Hinged rear backfill blade. Fixed or floating</td>
<td>Rear backfill blade can be in float or fixed position. For packed down grade, level grade or rough grade</td>
</tr>
<tr>
<td>Warranty</td>
<td>One year parts &amp; labor.</td>
</tr>
<tr>
<td>Category I &amp; II 3-point hitch</td>
<td>Fits a wide variety of tractors.</td>
</tr>
<tr>
<td>Fits Land Pride Quick Hitch</td>
<td>Quick and easy attaching without leaving tractor seat.</td>
</tr>
<tr>
<td>Transport lock on shank tube</td>
<td>Heavy-duty shank lock to keep shanks locked into place during transport.</td>
</tr>
<tr>
<td>Knurled bushings in upper and lower hitch</td>
<td>Work done with retractable box blades is done forwards and backwards. Bushings at hitch points eliminate premature wear.</td>
</tr>
<tr>
<td>Heavy shank bumpers</td>
<td>A 3/4” square steel bumper is located behind each shank for additional reinforcement.</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check valve</td>
<td>Prevents shanks from drifting down.</td>
</tr>
</tbody>
</table>
# Torque Values Chart for Common Bolt Sizes

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
<th>Bolt Size (Metric)</th>
<th>Class 5.8</th>
<th>Class 8.8</th>
<th>Class 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>in-tpi 1</td>
<td>N · m 2</td>
<td>ft-lb 3</td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
<td>ft-lb</td>
<td>mm x pitch 4</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
<td>8</td>
<td>16</td>
<td>12</td>
<td>M 5 X 0.8</td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5</td>
<td>6</td>
<td>13</td>
<td>10</td>
<td>18</td>
<td>14</td>
<td>M 6 X 1</td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>17</td>
<td>13</td>
<td>26</td>
<td>19</td>
<td>37</td>
<td>25</td>
<td>M 8 X 1.25</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>18</td>
<td>13</td>
<td>26</td>
<td>19</td>
<td>37</td>
<td>25</td>
<td>M 8 X 1</td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>8</td>
<td>6</td>
<td>13</td>
<td>10</td>
<td>18</td>
<td>14</td>
<td>M 10 X 1.5</td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>31</td>
<td>22</td>
<td>47</td>
<td>35</td>
<td>67</td>
<td>49</td>
<td>M 10 X 0.75</td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>43</td>
<td>32</td>
<td>67</td>
<td>49</td>
<td>95</td>
<td>70</td>
<td>M 12 X 1.75</td>
</tr>
<tr>
<td>7/16&quot; - 20</td>
<td>49</td>
<td>36</td>
<td>75</td>
<td>55</td>
<td>105</td>
<td>78</td>
<td>M 12 X 1.5</td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td>66</td>
<td>49</td>
<td>105</td>
<td>76</td>
<td>145</td>
<td>105</td>
<td>M 12 X 1</td>
</tr>
<tr>
<td>1/2&quot; - 20</td>
<td>75</td>
<td>55</td>
<td>115</td>
<td>85</td>
<td>165</td>
<td>120</td>
<td>M 14 X 2</td>
</tr>
<tr>
<td>9/16&quot; - 12</td>
<td>95</td>
<td>70</td>
<td>150</td>
<td>110</td>
<td>210</td>
<td>155</td>
<td>M 14 X 1.5</td>
</tr>
<tr>
<td>9/16&quot; - 18</td>
<td>105</td>
<td>79</td>
<td>165</td>
<td>120</td>
<td>235</td>
<td>170</td>
<td>M 16 X 2</td>
</tr>
<tr>
<td>5/8&quot; - 11</td>
<td>130</td>
<td>97</td>
<td>205</td>
<td>150</td>
<td>285</td>
<td>210</td>
<td>M 16 X 1.5</td>
</tr>
<tr>
<td>5/8&quot; - 15</td>
<td>180</td>
<td>110</td>
<td>230</td>
<td>170</td>
<td>325</td>
<td>240</td>
<td>M 18 X 2.5</td>
</tr>
<tr>
<td>3/4&quot; - 10</td>
<td>235</td>
<td>170</td>
<td>360</td>
<td>265</td>
<td>510</td>
<td>375</td>
<td>M 18 X 1.5</td>
</tr>
<tr>
<td>3/4&quot; - 16</td>
<td>260</td>
<td>190</td>
<td>405</td>
<td>295</td>
<td>570</td>
<td>420</td>
<td>M 20 X 2.5</td>
</tr>
<tr>
<td>7/8&quot; - 9</td>
<td>225</td>
<td>165</td>
<td>585</td>
<td>430</td>
<td>820</td>
<td>605</td>
<td>M 20 X 1.5</td>
</tr>
<tr>
<td>7/8&quot; - 14</td>
<td>250</td>
<td>185</td>
<td>640</td>
<td>475</td>
<td>905</td>
<td>670</td>
<td>M 24 X 3</td>
</tr>
<tr>
<td>1&quot; - 8</td>
<td>340</td>
<td>250</td>
<td>875</td>
<td>645</td>
<td>1230</td>
<td>910</td>
<td>M 24 X 2</td>
</tr>
<tr>
<td>1&quot; - 12</td>
<td>370</td>
<td>275</td>
<td>955</td>
<td>705</td>
<td>1350</td>
<td>995</td>
<td>M 30 X 3.5</td>
</tr>
<tr>
<td>1-1/8&quot; - 7</td>
<td>480</td>
<td>355</td>
<td>1080</td>
<td>795</td>
<td>1750</td>
<td>1290</td>
<td>M 30 X 2</td>
</tr>
<tr>
<td>1-1/8&quot; - 12</td>
<td>540</td>
<td>395</td>
<td>1210</td>
<td>890</td>
<td>1960</td>
<td>1440</td>
<td>M 36 X 3.5</td>
</tr>
<tr>
<td>1-1/4&quot; - 7</td>
<td>680</td>
<td>500</td>
<td>1520</td>
<td>1120</td>
<td>2460</td>
<td>1820</td>
<td>M 36 X 2</td>
</tr>
<tr>
<td>1-1/4&quot; - 12</td>
<td>750</td>
<td>555</td>
<td>1680</td>
<td>1240</td>
<td>2730</td>
<td>2010</td>
<td>M 36 X 2</td>
</tr>
</tbody>
</table>

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

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

## Additional Torque Values

**Adjustment Handle Nut, 3/4-10 UNC**  
100 to 125 ft-lbs
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 item.

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.

**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 ____________________