Bale Spears
BSR10, BSR20, BSR30, & BSR40

BSR10

BSR30

BSR20

BSR40

335-014M
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.
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>
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<td>Serial Number</td>
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<td>First Operation</td>
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<td>Accessories</td>
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Dealer Contact Information

Name: __________________________________________
Street: _______________________________________
City/State: ___________________________________
Telephone: ___________________________________
Email: _______________________________________
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Printed in the United States of America.

10/31/19
See previous page for Table of Contents.
These are common practices that may or may not be applicable to the products described in this manual.

**Safety at All Times**

Careful operation is your best insurance against an accident.

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

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

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

**Look For The Safety Alert Symbol**

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

**Be Aware of Signal Words**

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

- **DANGER**: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- **WARNING**: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
- **CAUTION**: Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

**Safety Precautions for Children**

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

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

**Tractor Shutdown & Storage**

- If engaged, disengage power take-off.
- Park on solid, level ground and lower implement to ground or onto support blocks.
- Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- Relieve all hydraulic pressure to auxiliary hydraulic lines.
- Wait for all components to stop before leaving operator’s seat.
- Use steps, grab-handles and skid-resistant surfaces when getting on and off the tractor.
- Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.
Important Safety Information

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

Use A Safety Chain

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

Transport Safely

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

- **20 mph** when weight of attached equipment is less than or equal to the weight of machine towing the equipment.
- **10 mph** when weight of attached equipment exceeds weight of machine towing equipment but not more than double the weight.
▲ IMPORTANT: Do not tow a load that is more than double the weight of the vehicle towing the load.

Tire Safety

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

Practice Safe Maintenance

▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
▲ Do not grease or oil implement while it is in operation.
▲ Inspect all parts. Make certain parts are in good condition & installed properly.
▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement in a way which will adversely affect its performance.
▲ Remove buildup of grease, oil, or debris.
▲ Remove all tools and unused parts from equipment before operation.
These are common practices that may or may not be applicable to the products described in this manual.

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

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

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

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

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

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

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

Avoid crystalline Silica (quartz) Dust

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

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

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

Handle Chemicals Properly

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

Dig Safe - Avoid Underground Utilities

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

Your Bale Spear 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.

838-293C
Warning: Read Operator’s Manual
1 - place each: BSR10, BSR20, BSR30, & BSR40

838-614C
2" x 9" (5 cm x 23 cm) Red Reflector
2 - places: BSR40 only

838-615C
2" x 9" (5 cm x 23 cm) Amber Reflector
1 - place: BSR40 only
Land Pride welcomes you to the growing family of new product owners. This Bale Spear has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this product.

Application
The Land Pride BSR10 Bale Spear is designed for attaching to tractors with Cat. I & Cat. II 3-point hitches and BSR20, BSR30, & BSR40 models attach to tractors with Cat. II and Cat. III 3-point hitches. They have uses and applications in farming and ranching.

The Land Pride BSR10 model is equipped with a single center bale spear and two lower bale spikes to keep the bale from rotating. It has a maximum 2,000 lb load rating for picking up and transporting a single round bale.

The BSR20 model is equipped with two spears and has a maximum 3,000 lb load rating for transporting a single round bale while the BSR40 model is equipped with four spears and has a maximum 4,000 lb load rating for transporting two side-by-side round bales.

The BSR30 model is equipped with three spears and has a 3,000 lb load rating for transporting a single square bale. Three optional spear lengths (32", 39", & 49") (0.81m, 0.99m, & 1.24m) are available with the BSR30 to fit customer bale size.

You’ll find that these Land Pride attachments will save you time and money and make getting that bale handling job done a whole lot easier.

For additional information and performance enhancing options, see “Specifications & Capacities” on page 18 and “Features & Benefits” on page 20.

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

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

Definitions

NOTE: A special point of information that the operator should be aware of before continuing.
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Section 1: Assembly & Set-up

Tractor Requirements
Tractor hitch category should be within the range noted below. Do not exceed tractor’s 3-point lift capacities.

Hitch Type
BSR10 . . . . . . . . . . . . . . . . . . 3-Point Cat. I & Cat. II
BSR20, BSR30, BSR40 . . . 3-Point Cat. II & Cat. III

3-Point Hitch Stabilization . . . . . . . . . . . . . . . . Required

Tractor Size and Weight . . . . . . . . . . . . . . See Warnings Below

WARNING
To avoid serious injury or death:
• Required tractor size is determined by the bale size and weight. Bales with high moisture content such as silage bales are much heavier than dry hay bales, and will require a larger, heavier, tractor to handle them.
• As a minimum, 20% of the combined weight of tractor, implement, and bale must be on the tractor’s front wheels. Without this weight distribution, the tractor could tip up, causing loss of steering control, serious bodily injury, or death. Do not guess at the minimum weight. Weigh tractor, implement, and bale. Front weight may be increased with a front end loader, ballast in front tires, front wheel weights, or front tractor weights.

Torque Requirements
Refer to “Torque Values Chart” on page 22 to determine correct torque values for common bolts. See “Additional Torque Values” at bottom of chart for exceptions to standard torque values.

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

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

Spear Installation Instructions

BSR10 Single Spear and Dual Spikes Assembly

Figure 1-1

Do not apply grease to chamfered surface of eccentric nut (#1) or chamfered end of spear mounting tube (#3).

Apply grease all around full length of tapered hole.

Rotate spear until one of the four square corners is facing up.

Chamfer of eccentric nut (#1) must face spear mounting tube (#3) for nut to tighten properly.

IMPORTANT: Refer to Figure 1-1: Do not apply grease to chamfered surfaces of eccentric hex nut (#1) and chamfered end of spear mounting tube (#3). Install eccentric hex nut (#1) with chamfered surface facing spear mounting tube (#3).

BSR10 Spear & Spike Assembly

Refer to Figure 1-2:

1. See “IMPORTANT NOTE” on page 8. Apply multi-purpose grease all around and along full inside length of tapered hole in mounting tube (#3).
2. Insert spear (#2) into spear mounting tube (#3). Rotate spear (#2) until one of the four square corners along the length of the spear is facing up.
3. Screw M28 x 1.5 eccentric hex nut (#1) on end of spear (#2) with chamfer surface facing spear mounting tube (#3).
4. Tighten eccentric nut (#1) to the correct torque. See “Additional Torque Values” on page 22.
5. Apply multi-purpose grease all around and along the full inside length of spike mounting tubes (#6).
6. Rotate bale spikes (#5) until flat surfaces (#7) are facing up and insert into mounting tubes (#6).

7. Tighten 7/16"-14 x 1" GR2 bolts (#4) to the correct torque value against flat surfaces (#7).

**BSR Series Quick Hitch Spacer**

Refer to Figure 1-3:

1. **BSR10:** Attach quick hitch spacer (#5) to lower holes (#8) in center link plates with 3/4"-10 x 5" bolt (#4), lock washer (#6), and hex nut (#7).

2. **BSR20, BSR30, & BSR40:** Attach quick hitch spacer (#5) to lower holes (#8) in center link plates with 1"-8 x 5" bolt (#4), lock washer (#6), and nut (#7).

3. Tighten nut (#7) to the proper torque for GR5 bolt.

**BSR20 Spear Assembly**

Refer to Figure 1-3:

1. See “IMPORTANT NOTE” on page 8. Apply multi-purpose grease all around and along full inside length of tapered hole in mounting tube (#3).

2. Insert spear (#2) into spear mounting tube (#3). Rotate spear until one of the square corners along the length of the spear is facing up.

3. Screw M30 x 2.0 eccentric hex nut (#1) on end of spear (#2) with chamfered surface facing spear mounting tube (#3).

4. Tighten eccentric nut (#1) to the correct torque. See “Additional Torque Values” on page 22.

5. Repeat steps 1-4 for the remaining spear.

**BSR30 Spear Assembly**

Refer to Figure 1-4:

1. See “IMPORTANT NOTE” on page 8. Apply multi-purpose grease all around and along full inside length of tapered hole in mounting tube (#3).

2. Insert spear (#2) into spear mounting tube (#3). Rotate spear until one of the square corners along the length of the spear is facing up.

3. Screw M30 x 2.0 eccentric hex nut (#1) on end of spear (#2) with chamfered surface facing spear mounting tube (#3).

4. Tighten eccentric nut (#1) to the correct torque. See “Additional Torque Values” on page 22.

5. Repeat steps 1-4 for the remaining spears.

**BSR40 Spear Assembly**

Refer to Figure 1-5:

1. See “IMPORTANT NOTE” on page 8. Apply multi-purpose grease all around and along full inside length of tapered hole in mounting tube (#3).

2. Insert spear (#2) into spear mounting tube (#3). Rotate spear until one of the square corners along the length of the spear is facing up.

3. Screw M30 x 2.0 eccentric hex nut (#1) on end of spear (#2) with chamfered surface facing spear mounting tube (#3).

4. Tighten eccentric nut (#1) to the correct torque. See “Additional Torque Values” on page 22.

5. Repeat steps 1-4 for the remaining spears.
BSR10 3-Point Hook-up
Skip to page 11 if hooking-up BSR20, BSR30, or BSR40 Bale Spear. Continue below if hooking-up BSR10 Bale Spear.

Refer to Figure 1-6:

⚠️ 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 Cat. II Quick Hitch can be attached to the tractor to provide quick and easy 3-point hook-up and detachment. See your nearest Land Pride dealer to purchase a Quick-Hitch.

1. Stabilize lower 3-point arms to prevent side-to-side movement. Most tractors have stabilizer bars, sway blocks, or adjustable sway chains for this purpose. Consult your tractor Operator’s Manual for detailed instructions on how to stabilize your tractor’s lower 3-point arms.

2. Remove tractor drawbar or adjust it to the shortest and highest position.

3. Slowly back tractor up to the Bale Spear while using tractor’s 3-point control lever to align lower 3-point hitch holes with clevis lug holes on the Bale Spear.
   • Cat. I hook-up: Align lift arms with inside clevises.
   • Cat. II hook-up: Align lift arms with outside clevises.


5. Attach lower 3-point arms to the clevises with hitch pins (#1). Secure hitch pins with linchpins (#2).

6. The center 3-point link must be attached to the tractor mounting holes that will cause the spear to go from horizontal to tilted up 5-10 degrees as the 3-point arms are raised. Consult your tractor Operator’s manual to know which holes to use.

7. Connect top center 3-point link to upper Cat. I or Cat. II hitch holes with customer supplied hitch pin (#3) and hairpin cotter (#4).

8. Return to the tractor and operate tractor 3-point hydraulic control lever to slowly raise and lower the Bale Spear while checking for clearance between tractor tires, drawbar, and Bale Spear. Move or remove drawbar if it interferes with the Bale Spear.

9. Ensure lower 3-point lift arms are blocked to prevent excessive side-to-side movement.

10. Continue with “Quick Hitch Hook-up” on page 11.

NOTE: Hitch pin (#3) and hairpin cotter (#4) are customer supplied. Use 3/4" x 3 7/8" minimum effective length Cat. I hitch pin or 1" x 3 7/8" minimum effective length Cat. II hitch pin.
Section 1: Assembly & Set-up

BSR10, BSR20, BSR30, & BSR40 Bale Spears 335-014M

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BSR20, BSR30, & BSR40 3-Point Hook-up

Go to page 10 if hooking-up BSR10 Bale Spear. Continue below if hooking-up BSR20, BSR30, or BSR40 Bale Spear.

Refer to Figure 1-7:

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.

1. Stabilize lower 3-point arms to prevent side-to-side movement. Most tractors have stabilizer bars, sway blocks, or adjustable sway chains for this purpose.

2. Remove tractor drawbar or adjust it to the shortest and highest position.

3. Slowly back tractor up to the Bale Spear while using tractor’s 3-point control lever to align lower 3-point hitch holes with clevis lug holes on the Bale Spear.

4. Align lift arms with clevises.


NOTE: Support Bale Spear crossbeam at an acceptable hitch height for hook-up or make sure two people are present to help lift and hitch the Bale Spear to the tractor. See “Unhook Bale Spear” on page 15 for instructions on placing support blocks.

6. Attach lower 3-point arms to the clevises with hitch pins (#1). Secure hitch pins with linchpins (#2).

NOTE: Hitch pin (#3) and hairpin cotter (#4) are customer supplied. Use 1” x 4” minimum effective length Cat. II hitch pin or 1 1/4” x 4” minimum effective length Cat. III hitch pin.

7. The center 3-point link must be attached to the tractor mounting holes that will cause the spear to go from horizontal to tilted up 5-10 degrees as the 3-point arms are raised. Consult your tractor Operator’s manual to know which holes to use.

8. Connect top center 3-point link to upper Cat. II or Cat. III hitch holes with customer supplied hitch pin (#3) and hairpin cotter (#4).

9. Return to the tractor and operate tractor 3-point hydraulic control lever to slowly raise and lower the Bale Spear while checking for clearance between tractor tires, drawbar, and Bale Spear. Move or remove drawbar if it interferes with the Bale Spear.

10. Ensure lower 3-point lift arms are blocked to prevent excessive side-to-side movement.

Quick Hitch Hook-up

CAUTION

To avoid minor or moderate injury:

• When using support blocks to store the Bale Spear, make sure the Bale spear is secure from tipping and falling.

• When storing the Bale Spear on support blocks, make sure the spear points are against a building or other solid object to protect the spear points from causing an injury.

IMPORTANT: To use the Quick Hitch properly, the Bale Spear must be supported off the ground on customer supplied blocks.

Refer to the Quick Hitch Operator’s Manual for detailed hook-up and operating instructions.
Section 2: Operating Procedures

Operating Checklist
Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Bale Spear. Therefore, it is absolutely essential that no one operates the unit unless they are age 16 or older and have read, fully understood, and are totally familiar with the Operator’s Manual.

Perform the following inspections before using your Bale Spear.

<table>
<thead>
<tr>
<th>✓ Check</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read and follow all safety rules carefully.</td>
<td>1</td>
</tr>
<tr>
<td>See “Important Safety Information” and Safety Alert Symbols throughout this manual.</td>
<td></td>
</tr>
<tr>
<td>Read and follow hook-up instructions. Refer to “Section 1: Assembly &amp; Set-up”.</td>
<td>8</td>
</tr>
<tr>
<td>Read and follow all operating procedures. Refer to “Section 2: Operating Procedures”.</td>
<td>12</td>
</tr>
<tr>
<td>Read and follow all maintenance instructions. Refer to “Section 3: Maintenance”.</td>
<td>17</td>
</tr>
<tr>
<td>Check Bale Spear initially and periodically for loose spears, hitch plate, bolts, and pins. Refer to “Torque Values Chart”</td>
<td>22</td>
</tr>
</tbody>
</table>

Operating Safety

⚠️ DANGER

To avoid serious injury or death:

- A crushing hazard always exists around Bale Spears that can result in death or serious injury.
- Keep bystanders and animals away from machinery while in operation. They can become entangled in the equipment, hit by throwing objects, or ran over.
- Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.
- Never stop a moving bale with the tractor or implement.
- Do not back-up or drive-up to anyone or animal, and never assume that the brakes will stop the tractor in time.
- Spear straight into the bale until bale is fully against the hitch frame. Make sure bale is fully against the hitch frame before lifting.
- Raise Bale Spear up 5-10 degrees from horizontal to keep the bale slightly tilted back and against the hitch frame. A spear that is level or lower at the front than at the back can result in the bale sliding off and falling.
- When using a front loader in conjunction with the Bale Spear, always load rear of tractor first and upload it last.
- If stacking bales, stack bales in such-a-way that the stack is stable and will not fall.

⚠️ WARNING

To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, who have been properly trained in the safe operation of this implement, and who are age 16 or older. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator’s Manual to determine proper weight requirements and maximum weight limitations.
- Always have a spotter when backing up with a bale. Be careful not to impale a person or livestock.
- Do not use implement as a man lift or work platform. It is not properly designed or guarded for this use.
- Always lower Bale Spear to the ground before dismounting from tractor. Follow “Tractor Shutdown Procedure” in this manual and tractor manufacturer’s recommendations when dismounting and parking the tractor.
- Always store Bale Spear with spear points on the ground or against a solid object so that no person or livestock could walk/run into the spears or spikes. Never store Bale Spear where kids play or where animals are kept.
- Do not abuse equipment. Incorrect use of the Bale Spear can damage the equipment structurally and cause 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.
- Always know the weight of the bale being picked-up. Maximum lift capacity should never exceed rated lift capacity of the Bale Spear or tractor.
- Do not use implement for a purpose other than the work it is designed to do as defined in this manual.
- Do not use Bale Spear for lifting, prying, digging, pushing, or pulling other objects.
- Do not use Bale Spear for pulling fence post, stumps, or objects from the ground.
- 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.
- Operate 3-point lift controls smoothly. Jerky movements can cause the bale to break apart and/or fall.
Transport Safety

**DANGER**
To avoid serious injury or death:
Be on the watch for and keep away from ditches, retaining walls, drop-offs, holes, rocks, stumps, tree roots, and other hidden hazards that can cause the tractor to shift suddenly and/or roll over.

**WARNING**
To avoid serious injury or death:
- Follow all safety precautions when transporting. Not using safe transporting methods can damage equipment and cause death or serious injury.
- 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.
- Set front and rear tractor wheels out wide to increase tractor stability.
- Keep alert. Always watch for people and animals in the front and rear while traveling.
- When moving bales, keep load as low as possible to increase tractor stability.
- Transport with bale fully against the hitch frame and with spear points up 5-10 degrees from horizontal. Adjust top center link if spear points do not angle up.
- Always keep bale centered horizontally on the Bale Spear. If load starts to shift, stop and reposition load before continuing to optimize load stability while transporting.
- Always have a “spotter” when backing up with a bale. Be careful not to impale a person or livestock.
- Always allow time to slow down gradually. Sudden slowdowns and stops can cause loss of steering control.
- When stopped, always lower Bale Spear to the ground to minimize chances of a person or livestock walking/running into a spear and become impaled.
- Reduce ground speed when turning and leave enough clearance to avoid making contact with obstacles such as buildings, trees, fences, etc. Making contact can result in equipment damage and cause serious injury or death.
- Slow down when transporting over bumpy ground, ramps, grades, soft surfaces, and slippery surfaces. Machine stability is greatly reduced in these conditions.
- Slow down when traveling alongside ditches, fences, and other obstacles that the tractor and/or bale can get into.
- Always travel straight up and straight down an incline. Never make turns while on an incline.

**Level Bale Spear**
2. Level Bale Spear horizontally from left to right by adjusting one of the tractor’s lower lift arms up or down. See tractor Operator’s Manual for instructions.
3. Measure nominal height off the ground spears are to be inserted into the bales. See Figure 2-1 on page 14 for nominal spear height.
4. Restart tractor. Using tractor 3-point control lever, raise base of spears to a height off the ground equal to the measured height in step 3 above.
5. Without changing 3-point lift height, shut tractor down properly.
6. Level Bale Spear horizontally from front to back by adjusting length of tractor’s top center 3-point link. Refer to tractor Operator’s Manual for adjustment instructions.
7. Repeat steps 4-6 as needed. When finished, the spear should be horizontal from front to back with spears at the nominal height.

• 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.
## Bale Spear Operation

### Picking up a Bale

Refer to Figure 2-1:

**IMPORTANT:** The spears should be fully inserted into the bale before lifting the bale. Picking up heavy bales without the spears fully inserted can damage the unit and void its warranty.

**IMPORTANT:** Do not pick-up bales exceeding Bale Spear rated capacity or bales frozen to the ground. Loosen frozen bales before picking them up. Exceeding Bale Spear rated capacity can damage the unit and void its warranty.

1. Make sure the bale weight does not exceed the rated capacity of the Bale Spear.
2. Stop the tractor completely before raising and inserting spears into the bale as follows:
   a. Locate spear points inside the spear zone as shown in Figure 2-1. Ideal locations are illustrated with solid circles.
   b. If inserting the BSR10 single spear, make sure the two lower spikes will also insert into the bale. If lower spikes are positioned outside of the bale, adjust spear height up until spikes will insert into the bale.
   c. With spears level, drive them into the bale until they are fully inserted and bale is against the hitch frame.

### Traveling with a Bale

1. While stopped, raise bale to an appropriate transport height. Spear points should be tilted up 5-10 degrees from horizontal.
2. Continually check for overhead obstructions and scan all sides for pedestrians, animals, and other traffic.
3. Always drive at a safe speed and slow down when going around corners. Avoid sudden braking.
4. Leave enough clearance when turning to avoid making contact with obstacles such as buildings, trees, or fences.
5. Slow down when traveling alongside ditches, fences and other objects, or when traveling over rough terrain, soft surfaces, and slippery surfaces. Stay away from drop-offs, holes, rocks, stumps, tree roots, and other hidden hazards.
6. When possible, travel straight up and straight down grades, ramps, and inclines. Making turns on grades, ramps, and inclines can cause tractor to overturn.
7. Raise or lower bale only when stopped, never while traveling.
8. Avoid transporting loads on public roadways. When transporting on public roadways:
   - Plan your route to avoid heavy traffic.
   - Transport in such a way that faster moving vehicles may pass you safely.
   - Always display an SMV (Slow Moving Vehicle) sign that is visible to the operator of approaching vehicles from behind.
   - Always use accessory lights and/or flashing lights that are visible to the operator of an approaching vehicle.
Section 2: Operating Procedures

Placing a Bale
1. Stop in front of desired location with back of tractor facing where bale is to be placed.
2. Slowly move backward until bale is square and straight above the location where it is to be placed.
3. Stop tractor to lower bale down to its final resting spot.
4. Before traveling forward, check all sides for pedestrians or other traffic.
5. Once bale has settled, drive forward slowly while keeping the spears level.
6. Make sure the spears clears the bale before turning or changing height of spears.
7. Stop and raise Bale Spear to a safe traveling height before moving again.

Unhook Bale Spear
Refer to Figure 2-2

WARNING
To avoid serious injury or death:
Always store Bale Spear with the spear points on the ground or against a solid object such as a building to protect against a person or animal being impaled by a spear. Never store bale spear where kids play or where animals are kept.

1. Park tractor with Bale Spear on a level, solid ground.
2. Lower Bale Spear to the ground as follows:
   - **BSR10:** Lower Bale Spear crossbeam to the ground or onto support blocks to make alignment of 3-point hook-up or quick hitch hook-up easier.
   - **BSR20, BSR30, or BSR40:** Lower Bale Spear crossbeam onto support blocks to make alignment of 3-point hook-up or quick hitch hook-up easier.
   - **Alternate Support Method:** The Bale Spear could be supported by fully inserting it into a bale and unhooking it from the tractor.
3. Place transmission in park, set park brake, shut tractor engine off, and remove switch key.
4. If unhooking from a quick hitch, follow instructions in the Quick Hitch Operator’s Manual. Otherwise, continue with step 5.

CAUTION
To avoid minor or moderate injury:
If unsupported, the Bale Spear will fall onto its spear immediately after removing the upper center 3-point hitch pin.

5. Support end of spear points with support blocks to keep bale spear from falling back while unhooking.
6. Remove upper 3-point hairpin cotter (#4) and hitch pin (#3) from upper center clevis.
7. Removing lower 3-point linchpins (#2) and hitch pins (#1) from lower 3-point clevises.

Unhook Bale Spear
Refer to Figure 2-3

1. Park tractor with Bale Spear on a level, solid ground.
2. Lower Bale Spear to the ground as follows:
   - **BSR10:** Lower Bale Spear crossbeam to the ground or onto support blocks to make alignment of 3-point hook-up or quick hitch hook-up easier.
   - **BSR20, BSR30, or BSR40:** Lower Bale Spear crossbeam onto support blocks to make alignment of 3-point hook-up or quick hitch hook-up easier.
   - **Alternate Support Method:** The Bale Spear could be supported by fully inserting it into a bale and unhooking it from the tractor.
3. Place transmission in park, set park brake, shut tractor engine off, and remove switch key.
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5. Support end of spear points with support blocks to keep bale spear from falling back while unhooking.
6. Remove upper 3-point hairpin cotter (#4) and hitch pin (#3) from upper center clevis.
7. Removing lower 3-point linchpins (#2) and hitch pins (#1) from lower 3-point clevises.

Unhook Bale Spear
Refer to Figure 2-3

Store Bale Spear with Spear Point Resting On the Ground.
General Operating Instructions

By now you should have familiarized yourself with the Operator's Manual for your Bale Spear. If you haven't, please do so now. If someone else is operating the tractor and Bale Spear, make sure they read and fully understand this manual. We cannot overstress the importance of following the safety operating procedures that are spelled out in this manual.

Before you begin carrying any bales with your tractor, make sure the front of the tractor has enough weight to counter-balance the overhanging bale weight on the back. Without this weight, the tractor could lose its steering ability and could tip over causing damage to the equipment and serious personal injury or death to the operator. This weight may be attained with a front end loader, ballast in the front tires, front wheel weights, or by adding front tractor weights. Check your tractor Operator's Manual or see your nearest tractor dealer to determine the best method and correct weights to add.

Proceed by getting onto the seat of your tractor and starting it up. It isn't going to take you long to learn how to use your new Land Pride Bale Spear.

As you quickly become skilled and adept in using your Bale Spear, you will soon learn that it is important to enter the bale with the Bale Spear horizontal and inside the spear zone while backing straight into the bale. If included, make sure the lower spikes have also entered the bale. If they are outside the bale, reenter the bale with the spear higher. Make sure the spear or spears are fully inserted and the bale is against the Bale Spear hitch frame. Slowly raise the bale up until it is tipped with its weight resting against the hitch frame of the Bale Spear.

You are now ready to start traveling with the bale. Avoid fast starts and travel at a speed that does not shake the bale around causing it to break loose and fall from your Bale Spear. It is also important that you travel at a speed that does not make it difficult to control the tractor. While you are transporting, watch for drop-offs, holes, rocks, stumps, and other protrusions that could flip the tractor. Reduce speed when turning corners and watch to make sure the bale does not swing into objects such as fences, trees, and buildings. Remember, it is safer for you and less destructive to your equipment and bale to not hurry.

As you approach your unloading site, start slowing the tractor down gradually. Remember, you have a lot of inertia on the back of your tractor wanting to push the tractor forward as you slow down. Slow down to an idle while maneuvering and positioning the bale. Make sure there are no people or animals around as you back the tractor slowly to position the bale square and straight above its final resting place. With the tractor stopped, lower the bale down until it is on the ground. Again, check to make sure there are no animals or people around, and then pull straight forward to remove the spears from the bale.

Once the spears are completely removed, you can raise the Bale Spear fully up and return to the field to pick up your next bale. In no time at all, you will find that you will quickly become very adept, handy, and skillful at using your new Land Pride Bale Spear.

Maintenance

⚠️ 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:
• 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.

Inspect Bale Spear
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. Daily clean and inspect Bale Spear for the following:
1. Check Bale Spear hitch plate to make sure it is still properly attached to the tractor or skid steer hitch.
2. Clean Bale Spear of dirt, grease, and trash to assist visual inspection.
3. Always remove any material that has become entangled in the spears and/or spikes before continuing to use it.
4. After using your Bale Spear to lift a few bales, check spears and spikes to make sure eccentric nuts and bolts are tight.
5. Check to make sure the spears are not damaged, broken, or worn excessively. Repair or replace as needed.
6. Check to make sure the frame is not cracked or broken. Repair or replace as needed.
7. Replace any worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride dealer.

Tractor Maintenance
Maintain tractor’s hydraulic system. Keep hydraulic reservoir free of dirt and other contaminations. Replace hydraulic oil and hydraulic filter element at the manufacturer’s prescribed intervals.
Check tractor hydraulic 3-point lift system. The 3-point should operate smoothly up and down and hold its position when set. Refer to the tractor Operator’s Manual or see your dealer if the 3-point lift system need adjusting or repaired.

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 and grease that may have accumulated on the Bale Spear. Scrape off compacted dirt and then wash its surface thoroughly with a garden hose.
2. Inspect Bale Spear for loose, damaged, or worn parts and adjust or replace when needed.
3. Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for 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.

<table>
<thead>
<tr>
<th>Touch-Up Paint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
</tr>
<tr>
<td>821-070C</td>
</tr>
<tr>
<td>821-070CTU</td>
</tr>
<tr>
<td>821-070CQT</td>
</tr>
<tr>
<td>821-070CGL</td>
</tr>
</tbody>
</table>

4. Replace all damaged or missing decals.
5. Store Bale Spear on a level surface in a clean, dry place with spear points resting on the ground or against a solid object such as a building wall. Inside storage will reduce maintenance and make for a longer life.
6. Follow all unhooking instructions on page 15 when disconnecting the tractor from the Bale Spear.
7. Do not allow children to play on or around the stored Bale Spear.
### BSR Series

#### Specifications & Capacities

<table>
<thead>
<tr>
<th>Model No.</th>
<th>BSR10</th>
<th>BSR20</th>
<th>BSR30</th>
<th>BSR40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frame lift capacity</strong>&lt;br&gt;24” from face of frame</td>
<td>1 - Round bale up to 2,000 lbs (907 kgs)&lt;br&gt;</td>
<td>1 - Round bale up to 3,000 lbs (1361 kgs)&lt;br&gt;</td>
<td>1 - Square bale up to 3,000 lbs (1361 kgs)&lt;br&gt;</td>
<td>2 - Round bales up to 4,000 lbs total (1814 kgs)&lt;br&gt;</td>
</tr>
<tr>
<td><strong>3-Point hitch category</strong></td>
<td>Cat. I &amp; Cat. II&lt;br&gt;</td>
<td>Cat. II &amp; Cat. III&lt;br&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Quick Hitch Compatible</strong></td>
<td>Yes, if Bale Spear is supported on blocks&lt;br&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spear diameter</strong></td>
<td>1 3/4” (4.4 cm)&lt;br&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of spears</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>Overall spear length</strong>&lt;br&gt;Short</td>
<td>N/A</td>
<td>N/A</td>
<td>32” (0.81 m)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Medium</strong>&lt;br&gt;N/A</td>
<td>N/A</td>
<td>39” (0.99 m)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>Long</strong>&lt;br&gt;49” (1.24 m)</td>
<td>49” (1.24 m)</td>
<td>N/A</td>
<td>49” (1.24 m)</td>
<td></td>
</tr>
<tr>
<td><strong>Spear probe length</strong>&lt;br&gt;Short</td>
<td>N/A</td>
<td>N/A</td>
<td>27 1/2” (0.70 m)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Medium</strong>&lt;br&gt;N/A</td>
<td>N/A</td>
<td>33 5/8” (0.85 m)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>Long</strong>&lt;br&gt;44 1/2” (1.13 m)</td>
<td>44 1/8” (1.12 m)</td>
<td>N/A</td>
<td>44 1/8” (1.12 m)</td>
<td></td>
</tr>
<tr>
<td><strong>Face of frame to end of point</strong>&lt;br&gt;Short</td>
<td>N/A</td>
<td>N/A</td>
<td>165 lbs (75 kgs)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Medium</strong>&lt;br&gt;N/A</td>
<td>N/A</td>
<td>170 lbs (77 kgs)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>Long</strong>&lt;br&gt;112 lbs 51 kgs</td>
<td>180 lbs (82 kgs)</td>
<td>N/A</td>
<td>252 lbs (114 kgs)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight of unit</strong>&lt;br&gt;Short</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Medium</strong>&lt;br&gt;N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>Long</strong>&lt;br&gt;12 lbs 51 kgs</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>Number of spikes</strong></td>
<td>2</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Spike diameter and probe length</strong></td>
<td>1 1/4” (3 cm)&lt;br&gt;</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Spike probe length</strong>&lt;br&gt;Face of frame to end of point</td>
<td>14” (36 cm)&lt;br&gt;</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Section 4: Specifications & Capacities

Table of Contents

BSR10, BSR20, BSR30, & BSR40 Bale Spears 335-014M

BSR30

- Short Spears = 27 1/2" (0.70m)
- Medium Spears = 33 3/8" (0.85m)
- Long Spears = 44 1/8" (1.12m)

BSR40

- Short Spears = 37 3/4" (0.96m)
- Medium Spears = 43 5/8" (1.11m)
- Long Spears = 54 3/8" (1.38m)
## BSR10 Model

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat.I &amp; Cat. II 3-Point hitch</td>
<td>Works well with a lot of tractors.</td>
</tr>
<tr>
<td>Quick Hitch compatible</td>
<td>Easy to hook-up and unhook with a Quick Hitch.</td>
</tr>
<tr>
<td></td>
<td>Bale Spear must be supported on blocks to use the Quick Hitch.</td>
</tr>
<tr>
<td>Replaceable spear and spikes</td>
<td>Spears and spikes are easily replaced if damaged.</td>
</tr>
<tr>
<td>Bales can be pushed with a single spear</td>
<td>Good for pushing bales onto side dump trailers.</td>
</tr>
<tr>
<td>Single spear punches a hole in end of bale,</td>
<td>Very little moisture can enter the bale where the spear punches into the</td>
</tr>
<tr>
<td>not in the circumference</td>
<td>bale. Grappling type bale lifts punch holes in the circumference allowing</td>
</tr>
<tr>
<td></td>
<td>moisture to penetrate the bale and accelerates bale deterioration.</td>
</tr>
<tr>
<td>Single spear includes two short bale spikes</td>
<td>Bale spikes keep bale from rotating on the single spear.</td>
</tr>
<tr>
<td>Single spear takes less force to push the</td>
<td>Bales of all sizes won’t shift positions as easily while pushing the</td>
</tr>
<tr>
<td>spear into the bale</td>
<td>spear into the bale. Single spears are ideal for lifting smaller</td>
</tr>
<tr>
<td></td>
<td>lighter bales.</td>
</tr>
</tbody>
</table>

## BSR20, BSR30, BSR40 Models

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat.II &amp; Cat. III 3-Point hitch</td>
<td>Works well with a lot of tractors.</td>
</tr>
<tr>
<td>Quick Hitch compatible</td>
<td>Easy to hook-up and unhook with a Quick Hitch.</td>
</tr>
<tr>
<td></td>
<td>Bale Spear must be supported on blocks to use the Quick Hitch.</td>
</tr>
<tr>
<td>Replaceable spears</td>
<td>Spears are easily replaced if damaged.</td>
</tr>
<tr>
<td>Bales can be pushed with multi-spears</td>
<td>Good for pushing bales onto side dump trailers.</td>
</tr>
<tr>
<td>Spears punch holes in end of bale, not in the</td>
<td>Very little moisture can enter the bale where the spears punch. Grappling</td>
</tr>
<tr>
<td>circumference</td>
<td>type bale lifts punch holes in the circumference allowing moisture to</td>
</tr>
<tr>
<td></td>
<td>penetrate the bale and accelerates bale deterioration.</td>
</tr>
<tr>
<td>BSR20 features two spears</td>
<td>Increased lift capacity and stability when lifting a single round bale.</td>
</tr>
<tr>
<td>BSR30 features three spears</td>
<td>Great for lifting a single square bale.</td>
</tr>
<tr>
<td>BSR30 spears are available in 32&quot;, 39&quot;, &amp; 49&quot;</td>
<td>Allows customer to select a spear length that won’t punch holes on the</td>
</tr>
<tr>
<td>lengths (0.81m, 0.99m, &amp; 1.24m)</td>
<td>opposite side of the bale but long enough to penetrate more than</td>
</tr>
<tr>
<td></td>
<td>two-thirds the way into the bale for lift stability.</td>
</tr>
<tr>
<td>BSR40 features four spears</td>
<td>Great for lifting two round bales at the same time.</td>
</tr>
</tbody>
</table>
## Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bale is falling off end of spears</td>
<td>Center 3-point link is mounted to the tractor in the wrong holes.</td>
<td>Reattach center 3-point link to the tractor in the correct mounting holes. See your tractor Operator's Manual for detailed instructions. Generally, lowering upper 3-point on tractor increases angle.</td>
</tr>
<tr>
<td></td>
<td>Spear or spears are bent down.</td>
<td>Reduce speed to a safe, non-bouncing speed. Replace spear if bent.</td>
</tr>
<tr>
<td></td>
<td>Spears are not fully inserted into the bale with bale against the spear frame.</td>
<td>Reposition bale so that the spears are fully inserted and bale is resting against the spear frame.</td>
</tr>
<tr>
<td></td>
<td>Traveling with spears level or tilted down at the front.</td>
<td>Operate 3-point lift to tilt spears up 5-10 degrees from the horizontal.</td>
</tr>
<tr>
<td></td>
<td>Traveling too fast.</td>
<td>Reduce speed to a safe, non-bouncing speed.</td>
</tr>
<tr>
<td>Spears do not carry bale with spear tilted 5-10 degrees higher at the point</td>
<td>Bale is carried too low.</td>
<td>Raise 3-point lift arms higher.</td>
</tr>
<tr>
<td></td>
<td>Center 3-point link is mounted to the tractor in the wrong holes.</td>
<td>Reattach center 3-point link to the tractor in the correct mounting holes. See your tractor Operator’s Manual for detailed instructions. Generally, lowering upper 3-point on tractor increases angle.</td>
</tr>
<tr>
<td></td>
<td>Spear or spears are bent.</td>
<td>Replace bent spear.</td>
</tr>
<tr>
<td>Spears are bending or breaking</td>
<td>Misuse of Bale Spear such as prying objects out of the ground.</td>
<td>Use Bale Spears to carry bales only.</td>
</tr>
<tr>
<td></td>
<td>Spear is not fully inserted into the bale and bale is not resting against the hitch frame.</td>
<td>Reposition bale so that the spears are fully inserted and bale is resting against the hitch frame.</td>
</tr>
<tr>
<td></td>
<td>Traveling too fast causing the bale to bounce on the spears.</td>
<td>Reduce speed to a safe, non-bouncing speed.</td>
</tr>
<tr>
<td>Tractor cannot lift the bale</td>
<td>Insufficient power to lift bale.</td>
<td>Switch to a tractor that is rated for more lift capacity.</td>
</tr>
<tr>
<td>Tractor wants to tip over sideways</td>
<td>Traveling sideways to an incline.</td>
<td>Travel straight up and down inclines.</td>
</tr>
<tr>
<td>Tractor wants to tip over backwards</td>
<td>Tractor does not have enough ballast on the front.</td>
<td>Add ballast weight to the front of the tractor.</td>
</tr>
<tr>
<td></td>
<td>Traveling forward while going up an incline with a slope in excess of 10 percent.</td>
<td>Back up steep inclines.</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>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></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></td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15</td>
<td>11</td>
<td>24</td>
<td>17</td>
<td>33</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17</td>
<td>13</td>
<td>26</td>
<td>19</td>
<td>37</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>27</td>
<td>22</td>
<td>42</td>
<td>31</td>
<td>59</td>
<td>44</td>
<td></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></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></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></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></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></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></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></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></td>
</tr>
<tr>
<td>5/8&quot; - 18</td>
<td>150</td>
<td>110</td>
<td>230</td>
<td>170</td>
<td>325</td>
<td>240</td>
<td></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></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></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></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></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></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></td>
</tr>
<tr>
<td>1-1/8&quot; - 12</td>
<td>480</td>
<td>355</td>
<td>1080</td>
<td>795</td>
<td>1750</td>
<td>1290</td>
<td></td>
</tr>
<tr>
<td>1-1/8&quot; - 14</td>
<td>540</td>
<td>395</td>
<td>1210</td>
<td>890</td>
<td>1960</td>
<td>1440</td>
<td></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></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></td>
</tr>
<tr>
<td>1-3/8&quot; - 6</td>
<td>890</td>
<td>655</td>
<td>1990</td>
<td>1470</td>
<td>3230</td>
<td>2380</td>
<td></td>
</tr>
<tr>
<td>1-3/8&quot; - 12</td>
<td>1010</td>
<td>745</td>
<td>2270</td>
<td>1670</td>
<td>3680</td>
<td>2710</td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot; - 6</td>
<td>1180</td>
<td>870</td>
<td>2640</td>
<td>1950</td>
<td>4290</td>
<td>3160</td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot; - 12</td>
<td>1330</td>
<td>980</td>
<td>2970</td>
<td>2190</td>
<td>4820</td>
<td>3560</td>
<td></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

- M28 Eccentric Hex Nut: 516 ft-lbs. / 700 Nm
- M30 Eccentric Hex Nut: 516 ft-lbs. / 700 Nm
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

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

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

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

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

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

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