Bale Spears
BS(E)30, BS(E)40, & BS(E)50 For Skid Steers and Tractors With Front Loaders

BS30 & BSE30
Shown With 3 Spears

BS40 & BSE40
Shown With 3 Lower Spears & 1 Upper Spear

BS50 & BSE50
Shown With 4 Spears

BS40 & BSE40
Shown With 2 Spikes & 1 Upper Spear

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.

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**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.
See previous page for Table of contents.
Important Safety Information

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 attachment.

▲ 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.
▲ Operator should be familiar with all functions of the tractor/skid steer and attachment and be able to handle emergencies quickly.
▲ Make sure all guards and shields appropriate for the operation are in place and secured before operating attachment.
▲ Keep all bystanders away from equipment and work area.
▲ Start tractor/skid steer from the driver’s seat with steering levers and hydraulic controls in neutral.
▲ Operate tractor/skid steer and controls from the driver’s seat only.
▲ Never dismount from a moving tractor/skid steer or leave machine unattended with engine running.
▲ Do not allow anyone to stand between tractor/skid steer and attachment while hooking-up.
▲ 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.
▲ Store attachment 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.

**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 attachments 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 attachment and skid steer/track loader down if children enter the work area.
▲ Never carry children on the power machine or attachment. 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 attachment.
▲ Use extra caution when backing up. Before the power machine starts to move, look down and behind to make sure the area is clear.
Listed below are common practices that may or may not be applicable to the products described in this manual.

**Dig Safe - Avoid Underground Utilities**
- **USA:** Call 811
- **CAN:** digsafercanada.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.

**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 skid steer or 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 attachment when changing a wheel.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- Make sure wheel bolts have been tightened to the specified torque.

**Practice Safe Maintenance**
- Understand procedure before doing work. Refer to the Operator’s Manual for additional information.
- Work on a level surface in a clean dry area that is well-lit.
- Lower attachment 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 equipment.
- Inspect all parts. Make certain parts are in good condition & installed properly.
- Replace parts on this attachment with genuine Land Pride parts only. Do not alter this attachment in a way which will adversely affect its performance.
- Do not grease or oil attachment 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 attachment are properly collected and disposed.
- Remove all tools and unused parts before operation.
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.

**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.

**Avoid High Pressure Fluids Hazard**
- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- Make sure all hydraulic fluid connections are 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, skid steers, and self-propelled machines 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 on the power machine or attachment.
- 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 power machine or attachment to lift or transport riders.
Important Safety Information

Avoid crystalline Silica (quartz) Dust

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

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

- Be aware of and follow OSHA (or other local, State, or Federal) guidelines for exposure to airborne crystalline silica.
- Know the work operations where exposure to crystalline silica may occur.
- Participate in air monitoring or training programs offered by the employer.
- Be aware of and use optional equipment controls such as water sprays, local exhaust ventilation, and enclosed cabs with positive pressure air conditioning if the machine has such equipment. Otherwise respirators shall be worn.
- Where respirators are required, wear a respirator approved for protection against crystalline silica containing dust. Do not alter respirator in any way. Workers who use tight-fitting respirators cannot have beards/mustaches which interfere with the respirator seal to the face.

Avoid crystalline Silica (quartz) Dust

- If possible, change into disposable or washable work clothes at the work site; shower and change into clean clothing before leaving the work site.
- Do not eat, drink, use tobacco products, or apply cosmetics in areas where there is dust containing crystalline silica.
- Store food, drink, and personal belongings away from the work area.
- Wash hands and face before eating, drinking, smoking, or applying cosmetics after leaving the exposure area.

Handle Chemicals Properly

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

Tractor Shutdown & Storage

- Reduce engine speed and shut-off all power to the attachment.
- Park on solid, level ground and lower attachment 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 pressures.
- 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.

Skid Steer Shutdown And Storage

- Reduce engine speed and shut-off all power to the attachment.
- Park on solid, level ground and lower attachment until it is flat on the ground or support blocks.
- Turn off engine, and remove switch key to prevent unauthorized starting.
- Relieve all hydraulic pressures.
- If included, raise seat bar and move controls until both lock.
- 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 skid steer.
- Detach and store attachment in an area where children normally do not play. Secure attachment by using blocks and supports.

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).

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Avoid crystalline Silica (quartz) Dust

- 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.
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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
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 Bale Spear.

Application
The Land Pride BS30, BSE30, BS40, BSE40, BS50, & BSE50 Bale Spears have uses and applications in farming and ranching. They have the capability of quickly and conveniently turning your skid steer loader or tractor front mounted loader equipped with a skid steer/loader hitch or Euro hitch into a Bale Spear for lifting, transporting, and placing bales.

They are available in three optional spear lengths (32", 39", or 49") (0.81m, 0.99m, or 1.24m) and two hitch styles (BS & BSE). The BS style is designed to hook-up to skid steer/loader hitch and BSE style hooks-up to Euro hitch. The lift capacity for 30 and 40 Series frames is rated for 3,000 lbs (1360 kgs) and 50 Series is rated for 4,000 lbs (1814 kgs).

The 30 and 40 Series are 54" (1.7 m) wide and are available with three lower spears for carrying square bales. The 40 Series can also be equipped with one upper 49" (1.24 m) spear and two lower 19" (48 cm) spikes for carrying a round bale, or with one upper 49" (1.24 m) spear and three lower 32" (0.81 m) or 39" (0.99 m) spears to alternate between carrying round bales and square bales.

The 50 Series frame is 66 3/4" (1.7 m) wide and is available with three or four lower spears for carrying square bales. Two 19" (48 cm) accessory spikes can be added to the four lower spear option for carrying two round bales side by side.

Optional extensions with 19" (48 cm) spikes can be attached to the sides of all 30, 40, & 50 series frames. They offer greater stability for carrying two square bales with one bale stacked above the other.

Whichever model and spear arrangement you select, you'll find these Land Pride Bale Spears will save you time and money and make getting that bale handling job done a whole lot easier.

See “Specifications & Capacities” on page 22 and “Features & Benefits” on page 24 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 forward in the direction the machine will operate while in use unless otherwise stated.

Definitions

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 Bale Spear 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 Bale Spear. 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 attachment 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
Skid Steer/Tractor Requirements
The tractor or skid steer must meet the following minimum requirements:

- Hitch options . . . . . . . . . . . . . . . . . . . . Skid steer/loader hitch
- . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Euro hitch
- Skid steer/tractor weight . . . . . . See warnings below

**WARNING**
To avoid serious injury or death:

- Never carry a load with a Bale Spear that exceeds rated lift capacities of the tractor/skid steer. Consult your tractor loader or skid steer Operator’s Manual for operating capacity, lifting capacity, and specifications. Exceeding the machine’s rated capacities can result in a rollover or other serious hazards that can cause serious injury or death.

- Lightweight power machines may need weight added to the rear to maintain steering control and prevent forward tipping or side tipping caused by a heavy front load. Consult your power machine Operator’s Manual to determine proper weight requirements and maximum weight limitations.

Torque Requirements
Refer to “Torque Values Chart” on page 26 to determine correct torque values for common bolts. See “Additional Torque Values” at bottom of chart for exceptions to standard torque values.

**Do not apply grease to chamfered surface of eccentric nut (#2) or chamfered end of spear mounting tube (#4).**

1. **Apply grease all around full length of tapered hole.**

2. **Chamfer of Eccentric Nut (#2) must face spear mounting tube (#4) for nut to tighten properly.**

3. **Spear Mounting Tube Lubrication**

Refer to Figure 1-1:

**Lubricate Spear Mounting Tube**

Refer to Figure 1-1:

**IMPORTANT:** Do not apply grease to chamfered surfaces of eccentric hex nut (#2) and where nut seats against chamfered end of mounting tube “A.”

1. Apply multi-purpose grease all around and along full inside length of tapered hole in mounting tube “A.”

**Three Lower Spears (BS30 & BSE30)**

Figure 1-2

**BS30 & BSE30 Spear Options**

Three Lower Spears
Refer to Figure 1-2:

**NOTE:** Spears are available in three optional lengths. (32", 39", and 49") (0.81m, 0.99m, & 1.24m)

1. Lubricate full length of tapered holes in lower spear mounting tubes “A.” Refer to “Lubricate Spear Mounting Tube” on this page for detailed instructions.

2. Rotate spear (#3) until a square corner along the length of the spear is facing up.

3. With corner facing up, insert spear (#3) into spear mounting tube “A.”

**IMPORTANT:** Install eccentric hex nut (#2) with chamfered surface facing spear mounting tube “A.”

4. Secure spear with M30 x 2 eccentric hex nut (#2).

5. Tighten eccentric hex nut (#2) to the correct torque. See “Additional Torque Values” on page 26.

6. Repeat steps 2 to 5 for remaining two spears (#3).
BS40 & BSE40 Spear Options

Three Lower Spears
1. Lubricate full length of tapered holes in lower spear mounting tubes “A”. Refer to “Lubricate Spear Mounting Tube” on page 9 for detailed instructions.

Refer to Figure 1-3:
2. Rotate spear (#3) until a square corner along the length of the spear is facing up.
3. With corner facing up, insert spear (#3) into spear mounting tube “A”.

IMPORTANT: Install eccentric hex nut (#2) with chamfered surface facing spear mounting tube “A”.

4. Secure spear with M30 x 2 eccentric hex nut (#2).
5. Tighten eccentric hex nut (#2) to the correct torque. See “Additional Torque Values” on page 26.
6. Repeat steps 2 to 5 for the remaining two spears.

One Upper Spear & Three Lower Spears
1. Lubricate full length of tapered holes in lower spear mounting tubes “A”. Refer to “Lubricate Spear Mounting Tube” on page 9 for detailed instructions.

Refer to Figure 1-4:
2. Rotate 32” (0.81 m) or 39” (0.99 m) long spear (#4) until a square corner along the length of the spear is facing up.
3. Insert lower spear (#4) into spear mounting tube “A”.

IMPORTANT: Install eccentric hex nut (#2) with chamfered surface facing spear mounting tube “A”.

4. Secure spear with M30 x 2 eccentric hex nut (#2).
5. Tighten eccentric nut (#2) to the correct torque. See “Additional Torque Values” on page 26.
6. Repeat steps 2 to 5 for the remaining two spears.
7. Lubricate full length of tapered hole in upper spear mounting tube “A”. Refer to “Lubricate Spear Mounting Tube” on page 9 for detailed instructions.
8. Rotate spear (#3) until a square corner along the length of the spear is facing up.
9. With corner facing up, insert 49” (1.24 m) upper spear (#3) into spear mounting tube “A” as shown.

IMPORTANT: Install eccentric hex nut (#2) with chamfered surface facing spear mounting tube “A”.

10. Secure spear with M30 x 2 eccentric hex nut (#2).
11. Tighten eccentric nut (#2) to the correct torque. See “Additional Torque Values” on page 26.
Section 1: Assembly & Set-up

Table of Contents

1. Rotate spear (#3) until a square corner along the length of the spear is facing up.
2. With corner facing up, insert 49" (1.24 m) long upper spear (#3) into spear mounting tube “A” as shown.
3. Secure spear with M28 x 1.5 eccentric hex nut (#2).
4. Tighten eccentric nut (#2) to the correct torque. See “Additional Torque Values” on page 26.

BS50 & BSE50 Spear Options

Three Lower Spears

Refer to Figure 1-6:
1. Lubricate full length of tapered holes in lower spear mounting tubes “A.” Refer “Lubricate Spear Mounting Tube” on page 9 for detailed instructions.
2. Rotate spear (#3) until a square corner along the length of the spear is facing up.
3. With corner facing up, insert spear (#3) into spear mounting tube “A.”
4. Secure spear with M30 x 2 eccentric hex nut (#2).
5. Tighten eccentric nut (#2) to the correct torque. See “Additional Torque Values” on page 26.
6. Repeat steps 2 to 5 for the remaining two spears.

IMPORTANT: Install eccentric hex nut (#2) with chamfer surface facing spear mounting tube “A.”

One Upper Spear & Two Lower Spikes

Refer to Figure 1-5:
1. Rotate left-hand spike (#5) until notch “C” is facing straight up.
2. Insert spike (#5) into mounting tube “B” and tighten 7/16"-14 GR5 bolt (#4) against notch “C” until torqued tight.
3. Repeat steps 1 and 2 for remaining spike (#5).
4. Lubricate full length of tapered hole in upper spear mounting tube “A.” Refer to “Lubricate Spear Mounting Tube” on page 9 for detailed instructions.

IMPORTANT: Install eccentric hex nut (#2) with chamfer surface facing spear mounting tube “A.”

4. Secure spear with M30 x 2 eccentric hex nut (#2).
5. Tighten eccentric nut (#2) to the correct torque. See “Additional Torque Values” on page 26.
6. Repeat steps 2 to 5 for the remaining two spears.

Three Spear Installation (BS50 & BSE50)

Figure 1-6
Section 1: Assembly & Set-up

Four Lower Spears
Refer to Figure 1-7:

1. Lubricate full length of tapered holes in lower spear mounting tubes “A.” Refer to “Lubricate Spear Mounting Tube” on page 9 for detailed instructions.
2. Rotate spear (#3) until a square corner along the length of the spear is facing up.
3. With corner facing up, insert spear (#3) into spear mounting tube “A.”
4. Secure spear with M30 x 2 eccentric hex nut (#2).
5. Tighten eccentric nut (#2) to the correct torque. See “Additional Torque Values” on page 26.
6. Repeat steps 2 to 5 for the remaining three spears.

IMPORTANT: Install eccentric hex nut (#2) with chamfer surface facing spear mounting tube “A.”

BS50 & BSE50 Spike Accessory
Two Upper Spikes
Refer to Figure 1-8:

1. Rotate left-hand spike (#3) until notch “C” is in line with bolt (#2).
2. Insert spike (#3) into mounting tube “B” and tighten 7/16”-14 GR5 bolt (#2) against notch “C” until torqued tight.
3. Repeat steps 1 to 2 for the remaining spike (#3).
Make sure bolts (#3) are positioned towards the rear of the frame when attaching height extensions (#1) to frame (#2).

BS(E)30, BS(E)40 & BS(E)50 Extension Option

Refer to Figure 1-9:

This option fits all 30, 40, & 50 series of Bale Spears.

1. Attach height extension (#1) to the right-hand side of spear frame (#2) with 1/2"-13 x 3 3/4" GR5 bolts (#4), flat washers (#7), lock washers (#6), and hex nuts (#5).

2. Tighten hex nuts (#5) to the correct torque.

3. Rotate bale spike (#8) until notch “C” is in line with bolt (#3).

4. Insert bale spike (#8) into mounting tube “B” and tighten 7/16"-14 x 1" GR5 bolt (#3) against notch “C” until torqued tight.

5. Repeat steps 1 to 4 for the left-hand side.
Hook-Up Bale Spear

DANGER
To avoid serious injury or death:
A crushing hazard exists while hooking-up and unhooking the attachment. Do not allow anyone to stand between attachment and power machine while approaching or backing away from the attachment. Do not operate lift and/or tilt controls while someone is near the power machine and/or attachment.

Hook-Up to Euro Hitch
Refer to Figure 1-4:

WARNING
To avoid serious injury or death:
Check Euro style hitch fit-up frequently to make sure it is properly secured under the attachment’s hooks and lock pins are fully extended into the locking lugs. An improper fit-up can result in the attachment coming loose and falling.

1. Lower Euro hitch on front of loader down as far as possible.
2. If required, manually move locking handle until locking pins are fully retracted and ready for hook-up.
3. Carefully drive up to Bale Spear upper hooks until mounting bar and hook guides on the Euro hitch are aligned under the Bale Spear hooks.
4. Raise Euro hitch up until mounting bar is completely captured inside the Bale Spear hooks.
5. Continue to raise Euro hitch up to allow bottom of Bale Spear frame to swing in until pin holes in locking lugs align with locking pins in Euro hitch. If necessary, rotate top of Euro hitch back to help align pin holes with locking pins.
6. If pins do not auto-lock into pin holes, then manually operate Euro hitch lever to push locking pins into the pin holes. Make sure lever is locked to keep pins from backing out.

Hook-Up to Skid Steer/Loader Hitch
Refer to Figure 1-5:

WARNING
To avoid serious injury or death:
Check hitch fit-up frequently. An improper fit-up can cause the attachment to come loose from the loader hitch plate and fall.

1. If needed, pull locking handles up on skid steer/loader hitch until locking pins are fully up and ready for hook-up to Bale Spear.
2. Carefully drive up to the Bale Spear making sure the skid steer/loader hitch is parallel with Bale Spear top angles.
3. Rotate top of loader hitch plate slightly forward.
4. Place top of skid steer/loader hitch under the top angled bars on the Bale Spear hitch plate.
5. Slowly lift skid steer/loader hitch up until top angle bars and skid steer/loader hitch have come together.
6. Rotate top of skid steer/loader hitch back to align bottom slots in the Bale Spear hitch plate with locking pins in the skid steer/loader hitch.
7. Push lock handles on skid steer/loader hitch down ensuring lock pins have engaged in bottom slots of the Bale Spear hitch plate and handles are locked down.
Operating Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the 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. Make sure the operator has paid particular attention to:

Perform the following inspections before using your Bale Spears.

Operating Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read and follow all safety rules carefully. Refer to “Important Safety Information” and Safety Alert Symbols throughout this manual.</td>
<td>1</td>
</tr>
<tr>
<td>Read and follow hook-up instructions. Refer to “Section 1: Assembly &amp; Set-up”.</td>
<td>9</td>
</tr>
<tr>
<td>Read and follow all operating procedures. Refer to “Section 2: Operating Procedures”.</td>
<td>15</td>
</tr>
<tr>
<td>Read and follow all maintenance instructions. Refer to “Section 3: Maintenance &amp; Lubrication”.</td>
<td>20</td>
</tr>
<tr>
<td>Check Bale Spear initially and periodically for loose spears, hitch plate, bolts, and pins. Refer to “Torque Values Chart for Common Bolt Sizes”.</td>
<td>26</td>
</tr>
</tbody>
</table>

Operating Safety

⚠️ DANGER

To avoid serious injury or death:

- Only operate equipment from the driver’s seat.
- Keep bystanders, pets, and livestock away from your work area. Never allow anyone to go near or under the attachment or its load. The attachment and/or load can fall.
- Keep attachment, loader arms, and/or load away from overhead electrical power lines. Place an orange warning sign under overhead lines indicating type of danger above.
- Do not drive up to anyone or an animal in front of a fixed object such as a wall or bench. Never assume that the power machine will stop in time.
- Use a “spotter” when it is hard to see in the direction you are traveling and when placing a load that obstructs your vision. A person or animal could be nearby in a blind spot.
- Spear straight into bale until bale is fully against the spear frame. Never lift bale without bale being fully against the spear frame.
- Before lifting the bale, rotate spear points up 5 to 10 degrees above horizontal to keep the bale against the hitch frame. Keep spears tilted slightly up throughout the lift range to keep the bale from sliding forward and falling.
- Use the correct spear and spike configuration for the job at hand. Lift only bales the Bale Spear is designed to lift and never lift more bales than what the Bale Spear is designed to lift.
- Travel with Bale Spear points at a safe height and angle that will not impale a person or livestock.
- Stack bales on even ground. Bales can topple when stacked on uneven ground.
- When stationary, always put spear point on the ground to protect people and livestock from walking/running into a spear or spike.
- Do not use attachment as a personnel lifting device. A person can fall off, be crushed by overhead objects, or electrocuted.
- 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:

- Use a tractor of adequate size. A tractor that is too small can tip over when loader arms are raised due to high center of gravity.
- Never carry riders on the attachment or power machine. 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 lower spear to ground level before dismounting from tractor/skid steer. Follow manufacturer’s recommendations when dismounting and parking the machine.
- 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 attachment who have fully read and comprehended this manual, who are properly trained to operate the attachment safely, and who are age 16 or older. Serious injury or death can result from the failure to read, understand, and follow instructions provided in this manual.
- Always store attachment in a secure position so that it will not fall over.
- Park Bale Spear with spears pointing down or with spears against a building or other suitable stable object.
- Always know the weight of the bale being picked up. Maximum lift capacity should never exceed rated lift capacity of the spears (See specifications for rated capacity). Also, lift capacity should never exceed 83% of the tractor or skid steer rated lift capacity for an attached front loader. Always use the smaller number of the two lift capacities to determine maximum lift capacity.
- Always use the smaller number of the two lift capacities to determine maximum lift capacity.
- Check Bale Spear frequently to make sure it is properly attached and locking pins are properly seated.
Section 2: Operating Procedures

Bale Spear Operation

**DANGER**

Do not scoop bales. Spears must be fully inserted into the bales to secure the bales and keep them from falling.

**DANGER**

Lift only bales the Bale Spear is designed to lift and never lift more bales than what the Bale Spear is designed to lift.

**IMPORTANT:** Make sure the lift height does not exceed the loader lift capabilities.

**IMPORTANT:** Make sure the bale weight does not exceed the smaller of two lift capacities below:

- Rated lift capacity of the Bale Spears.
- 83% of the tractor/skid steer rated lift capacity. This accounts for increased loader stresses caused by the added extension of the Bale Spear and ensures that the front tires are rated properly.

Picking up Bales

1. Center on the bale while driving up to it. On slopes, approach bale with tractor facing uphill.
2. Make a full stop in front of the bale.
3. While stopped, raise or lower spears to the correct height and level spears horizontally.
4. Insert spears into the bale following one of six bale type and spear arrangement instructions below:

**Picking up Square Bales**

**Three or Four Lower Spears: BS(E)30/40/50**

- Position spear points about 1/4 to 1/3 up from the bottom of a square bale.
- Check to make sure both outside spears will penetrate the bale. If not, recenter on the bale.
- With spears level, drive them straight into the bale until they are fully inserted and bale is against the hitch frame.
- If spear extensions are attached and you are picking up two bales with one on top of the other, make sure the spikes on end of extensions are fully inserted into the upper square bale.
- Continue with step 5 on this page.

**One Upper & Three Lower Spears: BS(E)40**

- Position lower spear points about 1/4 to 1/3 up from the bottom of a square bale.
- Center spear point should be about 1/4 to 1/3 down from the top.
- Check to make sure both outside spears will penetrate the bale. If needed, recenter on bale.
- With spears level, drive them straight into the bale until they are fully inserted and bale is against the hitch frame.
- If spear extensions are attached and you are picking up two bales, make sure the spikes on end of extensions are fully inserted into the upper square bale.
- Continue with step 5 on this page.

**Picking up Round Bales**

**One Upper & Three Lower Spears: BS(E)40**

- Position the two center spear points equal distances up and down from the bale’s center.
- Check to make sure the two outside spears miss the bale strings. If needed lower center spears down until outside spears clear the strings.
- With spears level, drive center spears straight into the bale until they are fully inserted and bale is against the hitch frame.
- Continue with step 5 below.

**One Upper Spear & Two Lower Spikes: BS(E)40**

- Center upper spear point on a round bale or a small distance vertically above center.
- Check to make sure the two lower spikes will penetrate the bale. If lower spikes are positioned outside of the bale, adjust spear height up until spikes will insert into the bale.
- With upper spear level, drive it and the two spikes straight into the bale until they are fully inserted and bale is against the hitch frame.
- Continue with step 5 on this page.

**Two Upper Spikes & Four Lower Spears: SB(E)50**

- Two bales must be placed side by side tight against each other.
- As close as possible, align the upper two spikes on the vertical centerline of the two bales.
- Position lower spear points about 1/3 up from the bottom of the bales.
d. Check to make sure the spears will penetrate the bales. If not, adjust spears up until all spears will penetrate the bales.
e. With spears level, drive them straight into the bales until they and upper spikes are fully inserted and bales are against the hitch frame.
f. Continue with step 5 below.

5. Lift bale or bales off the ground a short distance and tilt spear points up 5 - 10 degrees from horizontal.
6. Check to make sure the bale is or bales are properly secured before traveling.

Transport Safety

⚠️ DANGER
To avoid serious injury or death:
Keep attachment, loader arms, and/or load away from overhead electrical power lines. Place an orange warning sign under overhead lines indicating type of danger above.

⚠️ WARNING
To avoid serious injury or death:
- Lightweight power machines may need weight added to the rear to maintain steering control and prevent forward tipping or side tipping caused by a heavy front load. Consult your power machine Operator’s Manual to determine proper weight requirements and maximum weight limitations.
- When traveling empty, transport with spear points at a safe height and angle that will not impale a person or livestock.
- When transporting with a bale, transport with bale fully against the spear frame and with spear points up 5-10 degrees from horizontal. Never transport with bale more than a few inches away from the frame.
- When stopped, always lower spear point to the ground so that no person or livestock could walk/run into the spear and become impaled. If spear will not rest on the ground, point spear down to protect people and livestock.
- Always keep bale centered horizontally on the spear(s). This will optimize stability while transporting.
- Always transport with bale raised to a height that does not hinder the line of sight going forward. When possible, keep the bale low to the ground to help maintain stability of the tractor/skid steer.
- 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.
- Transporting loads across inclines, over ramps, on bumpy, soft, or slippery surfaces reduces machine stability and lift capacity. Transporting and lifting loads under these conditions is extremely dangerous. Follow all transport instructions in your power machine Operator’s Manual.

- Always keep spear point(s) tilted up 5 - 10 degrees from horizontal regardless of angle of incline.
- Always transport over ramps and inclines with the heavy end of the power machine on the “uphill” side. This may require one to drive up or back down inclines.
- When traveling on public roads, use LED lights, slow moving vehicle sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. If implement blocks visibility of slow moving vehicle sign, relocate sign so it is visible from the back at all times. Always comply with all federal, state, and local laws.
- 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.

Traveling with Bales

**IMPORTANT:** Review “Transport Safety” on page 17 before transporting a bale.

**IMPORTANT:** If bales are not stable, lower bales, remove spears, and pick bales up entering the spears in a new more stable location.

**IMPORTANT:** Always keep spear points tilted up 5 to 10 degrees from horizontal throughout the lifting range of the loader.

1. Check for overhead obstructions.
2. While stopped, raise bale to an appropriate transport height. Make sure the bale does not hinder line of sight going forward. When possible, keep bale as close to the ground as possible while traveling.
3. If bale blocks your view, travel in reverse.
4. Continually scan all sides for pedestrians, animals, and other traffic.
5. Always drive at a safe speed and slow down when going around corners. Avoid sudden braking.
6. Leave enough clearance when turning to avoid making contact with obstacles such as buildings, trees, or fences.
7. When traveling over a ramp or incline, keep bale on the “uphill” side of tractor/skid steer.
8. When possible, travel straight up and straight down grades, ramps, and inclines keeping the bale low. Avoid making turns on grades, ramps, and inclines.
9. Stop to raise or lower the bale, never while traveling.
10. Avoid transporting loads on public roadways. When transporting on public roadways, transport in such a way that faster moving vehicles may pass you safely.
11. Plan your route to avoid heavy traffic.
12. Be sure to slow down when traveling over rough or hilly terrain.
Section 2: Operating Procedures

Placing Bales
1. Stop in front of desired location.
2. Slowly raise or lower bale to the required height while keeping spear points tilted up 5 to 10 degrees from horizontal.
3. Move forward slowly until bale is square and straight above the location where it is to be placed.
4. Rotate spears to level and lower bale down onto its final resting spot.
5. Before backing, check all sides for pedestrians or other traffic.
6. Once the bale has settled, back up slowly while keeping the spears level.
7. Make sure spears clear the bale before turning or changing height of spears.
8. Lower spears down to transport height before moving again.

Unhook Bale Spear

WARNING
To avoid serious injury or death:
Park Bale Spear with spears pointing down or with spears against a building or other suitable stable object.

IMPORTANT: Do not unhook loader from tractor with Bale Spear attached. Unhook Bale Spear and reattach loader bucket before unhooking loader from tractor.

1. Park tractor/skid steer with unit on a flat level solid surface and lower Bale Spear onto the surface.
2. Place transmission in park, set park brake, shut power equipment off, and remove switch key.

Euro Hitch
Refer to Figure 3-1:

a. If required, manually move locking handle until locking pins release. If Euro hitch does not have a locking handle, locking pins should auto-release during Step d below.
b. Return to the tractor and raise Bale Spear off the ground 10” (25 cm).
c. Tilt front of spear points down 5 to 10 degrees below horizontal and lower Bale Spear until spear points, bale spikes, or frame is/are touching the ground.
d. Slowly lower hitch plate until the top hooks have separated from the Euro style hitch.
e. Carefully back tractor slowly away from the Bale Spear making sure it does not interfere with the Bale Spear hitch plate.
f. If spike extensions are included, continue with instructions under “Unhook Bale Spear With Spike Extensions” on page 19.

Skid Steer/Loader Hitch
Refer to Figure 3-2:

a. Pull lock handles to disengage pins from bottom slots in hitch plate.
b. Return to tractor/skid steer and raise Bale Spear up 10” (25 cm).
c. Tilt front of spear points down 5-10 degrees below horizontal and lower Bale Spear until spear points, bale spikes, or frame is/are touching the ground.
d. Slowly lower Bale Spear until the top angle bar and skid steer/loader hitch have separated.
e. Carefully back tractor/skid steer slowly away from the Bale Spear while making sure the hitch does not interfere with the Bale Spear hitch frame.
f. If spike extensions are included, continue with instructions under “Unhook Bale Spear With Spike Extensions” on page 19.
Section 2: Operating Procedures

General Operating Instructions

By now you should have familiarized yourself with the Operator’s Manual for your Bale Spear. If you have not, please do so now.

Proceed by getting onto the seat of your skid steer or tractor and starting it up. It isn’t going to take you long to learn how to use your new Land Pride Bale Spear, but we do recommend that you take a little time to practice securely attaching and detaching your Bale Spear to and from your tractor/skid steer hitch. It is also important to practice entering a bale safely, inserting the spears, picking up the bale, traveling with the bale, and placing the bale on a level site. Review “Bale Spear Operation” on page 16 until you gain the confidence and skill needed to have a good feel in what you are doing.

We cannot over stress the importance of knowing and putting into practice the safety operating procedures spelled out in this Operator’s Manual. The more skilled and adept you become at using your Bale Spear, the sooner you can start safely picking up and stacking your bales.

It is also important to focus on the don’ts. For example:
• Don’t exceed lift capacity of your Bale Spear and tractor/skid steer.
• Don’t lift your bale too high creating an unstable machine and unsafe situation.
• Don’t travel with your bale tilted forward, setting up a situation that could cause your bale to fall.
• Don’t drive too fast for your ground conditions.
• Don’t work on or around slippery or sloped areas that could cause you to lose control of the skid steer or tractor.
• Don’t allow pedestrians, pets, or livestock to approach the danger zone of your working area.
• Don’t leave your skid steer or loader with the Bale Spear off the ground.

If you follow the safety instructions and operating instructions in this manual, you will find that you can quickly become very adept, handy, and skillful at using your Land Pride Bale Spear.


Unhook Bale Spear With Spike Extensions

Refer to Figure 3-3:

⚠️ WARNING
To avoid serious injury or death:

Bale spikes on end of extension arms are at head height and can impale the head. When not in use, spikes on the ends of the extension arms should be removed or their pointed ends should be protected with a padded cover.

Any time the Bale Spear with spike extensions is not in use, the spikes on the end of the extensions should be removed or their points should be guarded with a padded cover such as with a tennis ball (#3) or another type of padded material to protect against injury caused by bumping into one of the points. Customer to provide padded material.

If removing the spikes, loosen bolts (#1) and remove spikes (#2) from the extension arms. Store spikes in a safe location where they can be found and children will not be playing with them.

If covering pointed end of spikes (#2), make sure the padded covering, such as a tennis ball (#3) with slits cut into the ball, is well suited for protecting against someone bumping into the point and become injured. Also make sure the padded covers cannot come loose and fall from the spikes easily.
Section 3: Maintenance & Lubrication

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 attachment when storing it for long periods and at the end of the season. This will help ensure the unit is ready for field use the next time you hook-up to it.

1. Clean off any dirt 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. Refer to “Inspect Bale Spear” on page 20 for detailed instructions.

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.

4. Replace all damaged or missing decals.

5. Store Bale Spear on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer life.

6. Follow all unhooking instructions on page 18 when disconnecting tractor or skid steer from the Bale Spear.

7. Do not allow children to play on or around the stored Bale Spear.

<table>
<thead>
<tr>
<th>Land Pride Touch-up Paint</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part No.</strong></td>
</tr>
<tr>
<td>821-070C</td>
</tr>
</tbody>
</table>

Land Pride Touch-up Paint
**Section 4: Specifications & Capacities**

### BS & BSE Series

#### Specifications & Capacities

<table>
<thead>
<tr>
<th>Model No.</th>
<th>BS Models</th>
<th>BSE Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS30</td>
<td>165 lb (75 kg)</td>
<td>187 lb (85 kg)</td>
</tr>
<tr>
<td>BS40</td>
<td>178 lb (81 kg)</td>
<td>201 lb (91 kg)</td>
</tr>
<tr>
<td>BS50</td>
<td>209 lb (95 kg)</td>
<td>231 lbs (105 kg)</td>
</tr>
</tbody>
</table>

#### Hitch type
- Skid steer / loader hitch
- Euro hitch

#### Weight of base unit without options & accessories
- BS30: 165 lb (75 kg)
- BS40: 178 lb (81 kg)
- BS50: 209 lb (95 kg)
- BSE30: 187 lb (85 kg)
- BSE40: 201 lb (91 kg)
- BSE50: 231 lbs (105 kg)

#### Frame lift capacity at 24" (61 cm) from face of frame
- BS30: 3,000 lb (1361 kg)
- BS40: 4,000 lb (1814 kg)
- BS50: 3,000 lb (1361 kg)
- BSE30: 4,000 lb (1814 kg)

#### Options & Accessories

**Spear length (three options)**
- Overall length: 32", 39", & 49" (0.81m, 0.99m, & 1.24m)
- Usable spear length: 28", 35", & 45" (0.71m, 0.89m, & 1.14m)

<table>
<thead>
<tr>
<th>Spear diameter</th>
<th>BS Models</th>
<th>BSE Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 3/4&quot; (4.4 cm)</td>
<td>70 lb (32 kg)</td>
<td>70 lb (32 kg)</td>
</tr>
</tbody>
</table>

**Extensions with 19" (48 cm) spikes**
- BS30: 44 lb (20 kg)
- BS40: 50 lb (23 kg)
- BS50: 63 lb (29 kg)
- BSE30: 44 lb (20 kg)
- BSE40: 50 lb (23 kg)
- BSE50: 63 lb (29 kg)

**49" Spear & three 32" spears**
- BS30: 66 lb (32 kg)
- BS40: 72 lb (33 kg)
- BS50: N/A
- BSE30: 66 lb (32 kg)
- BSE40: 72 lb (33 kg)
- BSE50: N/A

**49" Spear with two 19" spikes**
- BS30: N/A
- BS40: 38 lbs
- BS50: N/A
- BSE30: N/A
- BSE40: 38 lbs
- BSE50: N/A

**Four 32" (0.81 m) spears**
- BS30: 60 lb (27 kg)
- BS40: 67 lb (30 kg)
- BS50: 85 lb (39 kg)
- BSE30: 60 lb (27 kg)
- BSE40: 67 lb (30 kg)
- BSE50: 85 lb (39 kg)

**Two 19" (48 cm) spikes (accessory)**
- BS30: N/A
- BS40: 11 lb (5 kg)
- BS50: N/A
- BSE30: N/A
- BSE40: N/A
- BSE50: 11 lb (5 kg)
### BS & BSE Series

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designed to fit tractor/skid steer loader hitch or Euro hitch.</td>
<td>The BS Series can be attached to machines fitted with a tractor/skid steer mounting plate and the BSE Series can be attached to machines fitted with a Euro style mounting plate.</td>
</tr>
<tr>
<td>Bales can be pushed with spears.</td>
<td>Good for pushing bales onto side dump trailers.</td>
</tr>
<tr>
<td>Spear units punch holes in end of round bales not in the circumference.</td>
<td>Very little moisture can enter the bale where spears penetrate. Grappling type bale lifts perforate the circumference allowing moisture to penetrate the bale and accelerate bale deterioration.</td>
</tr>
</tbody>
</table>

#### BS30, BSE30, BS40 & BSE40 Options

- Three lower spears available in 32", 39", or 49" lengths. (0.81m, 0.99m, & 1.24m)
  - Good for lifting medium weight square bales. Optional lengths allows customer to choose which length best fits their application.

#### BS40 & BSE40 Options

- One 49" spear with two 19" spikes
  - Good for lifting one medium weight round bale. Bale spikes keep bale from rotating a single spear. Single spear takes less force to penetrate the round bale. Bales of all sizes won’t shift positions as easily while pushing spear into the bale.
- Three lower spears available in 32", 39", or 49" lengths (0.81m, 0.99m, & 1.24m)
  - Good for lifting medium weight square bales. Optional lengths allow customer to choose which length best fits their application.
- Extensions with 19" spikes.
  - Good for lifting two medium weight square bales with one stacked above the other.

#### BS50 & BSE50 Options & Accessory

- Three lower spears available in 32", 39", or 49" optional lengths. (0.81m, 0.99m, & 1.24m)
  - Good for lifting medium weight square bales. Optional lengths allow customer to choose which length best fits their application.
- Four lower spears available in 32", 39", or 49" lengths. (0.81m, 0.99m, & 1.24m)
  - Good for lifting medium to heavy square bales. Optional lengths allow customer to choose which length best fits their application.
- Two 19" spikes. (Accessory)
  - Good for lifting two medium to heavy round bales side by side when used in conjunction with four lower spear option.
- Extensions with 19" spikes. (Optional)
  - Good for lifting two medium to heavy square bales with one stacked above the other.
## Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot lift bale</td>
<td>Insufficient power to lift bale.</td>
<td>Switch to a tractor or skid steer that is rated for more lift capacity.</td>
</tr>
<tr>
<td>Bale Spear moves on hitch plate</td>
<td>Locking pins are not engaged.</td>
<td>Engage locking pins.</td>
</tr>
<tr>
<td></td>
<td>Bale Spear Hitch is not properly attached to loader hitch.</td>
<td>Reattach Bale Spear Hitch to loader. Always make certain hitch is properly attached before lifting a bale.</td>
</tr>
<tr>
<td>Spears are bending or breaking</td>
<td>Spears are 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></td>
<td>Misuse of Bale Spears such as prying objects out of the ground.</td>
<td>Use Bale Spears to carry bales only.</td>
</tr>
<tr>
<td>Bale is falling off end of spears</td>
<td>Spears are not fully inserted into the bale with bale 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 with spears level or tilted down at the front.</td>
<td>Operate hydraulics 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></td>
<td>Spears are bent down.</td>
<td>Rotate bent spears 180 degrees so that they point up or replace the spears if they are bent excessively.</td>
</tr>
<tr>
<td></td>
<td>Center core of bale is too loose.</td>
<td>May need to add extra spears.</td>
</tr>
<tr>
<td>Skid steer or tractor wants to tip over on its side</td>
<td>Bale is being carried too high.</td>
<td>Keep bale low to the ground to help maintain stability of tractor or skid steer.</td>
</tr>
<tr>
<td></td>
<td>Traveling sideways to an incline.</td>
<td>Travel straight up and down inclines.</td>
</tr>
<tr>
<td>Skid steer or tractor wants to tip forward.</td>
<td>The tractor or skid steer does not have enough ballast on the rear.</td>
<td>Add ballast weight to the rear of the tractor or skid steer.</td>
</tr>
<tr>
<td></td>
<td>Traveling forward while going down an incline with a slope in excess of 10 percent.</td>
<td>Back down steep inclines.</td>
</tr>
<tr>
<td>Bale does not carry level</td>
<td>One of the spears is bent.</td>
<td>Replace bent spear(s).</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></td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</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></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>20</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>54</td>
<td>-1</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; - 7</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; - 12</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

<table>
<thead>
<tr>
<th>Bolt Type</th>
<th>Torque Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>M28 Eccentric Hex Nut</td>
<td>516 ft-lbs. / 700 Nm</td>
</tr>
<tr>
<td>M30 Eccentric Hex Nut</td>
<td>516 ft-lbs. / 700 Nm</td>
</tr>
</tbody>
</table>
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 ____________________