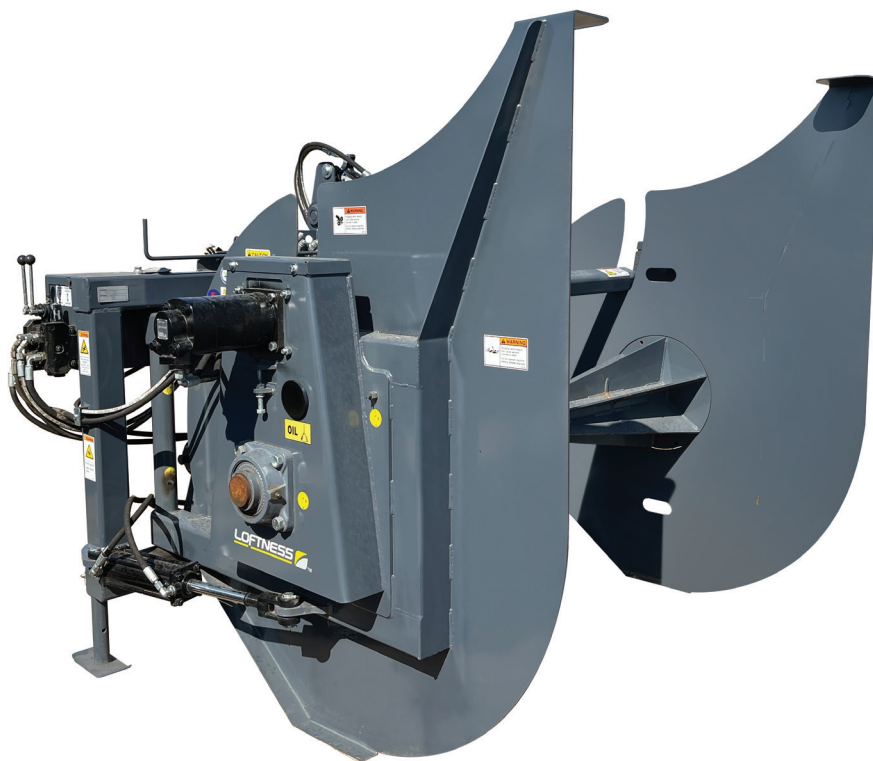




GRAIN BAG STORAGE SYSTEMS

Grain Bag Baler

Model BB12500

**Owner's Manual and Parts Book
(Originating w/Serial Number 117-101)**



Model Number: _____
Serial Number: _____
Date of Purchase: _____





LOFTNESS SPECIALIZED EQUIPMENT, INC.

LIMITED WARRANTY POLICY

The limited warranty policy begins upon delivery of the unit to the original customer.

The following Loftness products have a two (2) year limited warranty;

XLB10 Grain Bag Loader, Battle Ax L-series Skid Steer, Battle Ax S-series Skid Steer, Battle Ax H-series Skid Steer, Battle Ax Excavator 20-series, Battle Ax Excavator 30-series, Battle Ax Excavator 40-series, Battle Ax Excavator 50-series, Battle Ax Extreme, Bad Ax Skid Steer, Timber Ax Skid Steer, Stump Ax, BT20, Kwik Cut.

All other Loftness products have a one (1) year limited warranty.

If any Loftness product is used as rental or leased equipment the limited warranty period is for only 30 days from the delivery date to the original customers.

Loftness Specialized Equipment, Inc. ("LOFTNESS") warrants new LOFTNESS machinery and/or attachments at the time of delivery to the original purchaser, to be free from defects in material and workmanship when properly set up and operated in accordance with the recommendations set forth in the LOFTNESS Operator's Manual. The second year of limited warranty includes only parts, and not labor.

LOFTNESS' liability for any defect with respect to accepted goods shall be limited to repairing the goods at an authorized dealer or other LOFTNESS designated location, or replacing them as LOFTNESS shall elect. The above shall be in accordance with LOFTNESS warranty adjustment policies.

WARRANTY REQUIREMENTS

Warranty registration form must be filled out and returned to Loftness Specialized Equipment to validate all warranty claims.

To request a warranty claim, a return authorization from LOFTNESS must be obtained. The failed part may then be returned in an untampered status. This warranty does not include freight or delivery charges incurred when returning machinery for servicing. Dealer mileage, service calls and pick-up/delivery charges are the customer's responsibility.

LIMITATIONS OF WARRANTY

LOFTNESS products are designed to provide years of dependable service when proper use and maintenance is adhered to. The potential for misuse in many applications exists; therefore, a limited warranty is provided as follows.

This warranty shall not apply to any machine or attachment which shall have been repaired or altered outside the LOFTNESS factory or authorized LOFTNESS dealership or in any way so as in LOFTNESS' judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence or accident, nor to any machine or attachment which shall not have been operated in accordance with LOFTNESS' printed instructions or beyond the company recommended machine rated capacity. LOFTNESS may elect to have an area representative evaluate the condition of the machine before warranty is considered.

In addition, this limited warranty provides no coverage for general wear or maintenance items, misuse, environmental conditions and/or contamination for which they were not designed or not intended, including but not limited to the following items;

Use of machine beyond its rated capacity, Conveyors, Improper knife replacement, Auger wear, Missing knives, Saw blades, Striking foreign objects, Brakes and brake pads, Lack of lubrication, Tires, Failures caused by running in an "out-of-balance" condition, Hydraulic hoses damaged by being caught in "pinch points" or by moving parts, and Damage caused by excessive force from the power unit.

EXCLUSIONS OF WARRANTY

Except as otherwise expressly stated herein, LOFTNESS makes no representation or warranty of any kind, expressed or implied. **The implied warranty of merchantability and fitness for a particular purpose are disclaimed, and excluded from this limited warranty.** The remedies set forth in this warranty are the sole and exclusive remedies available to any person under this warranty. LOFTNESS shall have no liability to any person for incidental, consequential or special damages of any description, whether arising out of express or implied warranty or any other contract, negligence, or other tort or otherwise. This exclusion of consequential, incidental and special damages is independent from and shall survive any finding that the exclusive remedy failed of its essential purpose. Upon purchase, the buyer assumes all liability, all personal injury and property damage resulting from the handling, possession or use of the goods by the buyer.

No agent, employee or representative of LOFTNESS has any authority to bind LOFTNESS to any affirmation, representation or warranty concerning its machinery and/or attachments except as specifically set forth herein. (October 2025)



Table of Contents

Warranty

Table of Contents

Introduction

Owner Information	1
Warranty Policy	1
Serial Number Location	1
Owner's Manual Access	1
Grain Bag Baler Features	2

Safety Instructions

Safety First	3
Owner's Responsibility	3
Mandatory Shut-Down Procedure	4
Safety Rules	4
Operating Safety	4
Transporting Safety (while installed on 3- Point Hitch)	4
Maintenance Safety	5
Hydraulic Safety	5
California Proposition 65 Warning	5
Safety Decal Locations	6
Grain Bag Baler Identification	8

Set-up Instructions

Mounting the Bag Baler to the Tractor	9
Hydraulic Connections	9
Jack Stands	9
Testing the Controls and Operation	10
Loading Twine	10

Operating Instructions

Operation	11
Securing Bag onto the Rollers	11
Lowering Tensioner	12
Winding the Bag	12
Wrapping the Bale	13
Unloading the Bale	14
Disconnecting the Bag Baler	15

Table of Contents

Maintenance

General Maintenance	17
Maintenance Schedule	17
Fluids And Lubricants	17
Lubrication.....	17
Grease Points	17
Bale Roller Chain Inspection and Adjustment.....	19
Baler Roller Chain Inspection	19
Baler Roller Chain Adjustment.....	20
Storage	20
End of Season	20
Beginning of the Season	20
Troubleshooting.....	21

Parts Identification

Bag Baler - Main	24
Bag Baler - Drive	26
Tensioner	28
Hitch Pins; Jack Stands; Manual.....	30
Control Valve	31
Hydraulics, End Frame Cylinders	32
Hydraulics, Tensioner	33
Hydraulics, Roller	34
Machine Decals and Signs	35

Appendix

Specifications	37
Dimensions	38
Torque Specifications	39
Inches Hardware and Lock Nuts.....	39
Metric Hardware and Lock Nuts	40

Owner Information

Thank you for your decision to purchase a Model BB12500 Grain Bag Baler from Loftness. To ensure maximum performance of your machine, it is mandatory that you thoroughly study the owner's manual and follow the recommendations. Proper operation and maintenance are essential to maximize machine life and prevent personal injury.

NOTE: *This manual provides safety, set-up, operation, and maintenance instructions, along with a replacement parts section for the Loftness Grain Bag Baler. There will be some references to operation of the Loftness Grain Bag Unloader within this manual when it pertains to bag winding only. For safety instructions, operation, maintenance, and replacement parts for the grain bag unloader, refer to the Loftness Grain Bag Unloader Owner's Manual.*

The Loftness BB12500 Grain Bag Baler is designed to wind and bale emptied bags used for grain storage. The baler will handle bags up to 12 ft. (3.66 m) in diameter with a maximum length of 500 ft. (152.4 m).

Operate and maintain this machine in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and/or laws. Follow all on-product labeling and instructions.

Make sure that all personnel have read this owner's manual and thoroughly understand safe and correct operating, installation and maintenance procedures.

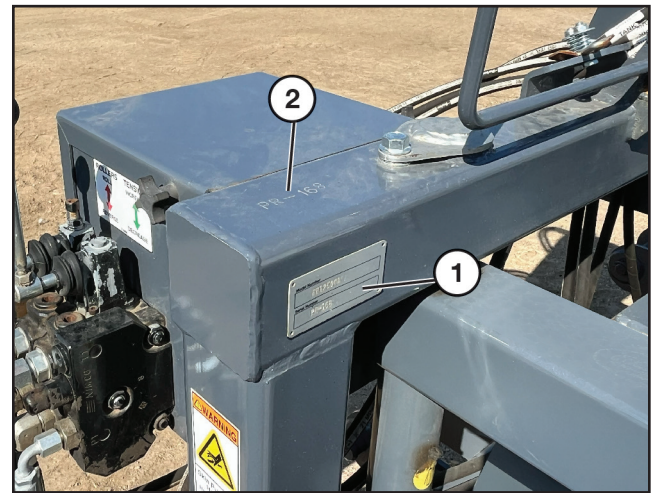
Continuous improvement and advancement of Loftness products may result in changes to your equipment that may not be reflected in this publication. Loftness reserves the right to make product improvements to the machine at any time. Although great care has been taken to ensure the accuracy of this publication, Loftness does not assume any liability for errors or omissions.

Loftness Specialized Equipment, Inc. is not responsible for the condition of the grain when it is being stored in or removed from grain bags loaded or unloaded with Loftness built equipment.

Warranty Policy

Be sure to read and understand the Warranty Policy at the beginning of this manual. It is also important that you fill out the Warranty Registration form(s) completely and return to Loftness so as not to void the warranty.

Serial Number Location



The arrows above indicate the location of the serial number tag (1) and the location of the serial number stamped into the frame (2).

Always use your model and serial number when requesting information or when ordering parts

Owner's Manual Access



The Bag Baler is shipped with a printed owner's manual. The manual must be available for all operators. Keep in a safe, dry location.

To access a digital owner's manual, use a smart phone to scan the QR Code (1) located on the left end frame. This code will link to the Bag Baler owner's manual on the Loftness website.

Introduction

Grain Bag Baler Features

- Rolls 9, 10, or 12-foot bags up to 500 ft. long.
- Weighs 2,360 lbs. (1,070.5 kg).
- Rolls bags directly off of main bag roller.
- Eliminates unrolling bags onto the ground, and handling loose bags in windy conditions.
- Requires two hydraulic outlets.
- Rugged 4 in. x 4 in. steel tube frame.
- 3-1/4 in. bore x 8 in. stroke hydraulic cylinder.
- Enclosed twine ball holder.
- Sliding twine wrapping handle.
- Hydraulic adjustable bag tensioner.
- Hydraulic drive with two lever control valve.
- Cat II and Cat III 3-pt hitch.

Safety First

Accidents can be prevented by recognizing the causes or hazards before an accident occurs and doing something about them. Regardless of the care used in the design and construction of this machine, there are some areas that cannot be safeguarded without interfering with accessibility and efficient operation.



Safety Alert Symbol

This message alert symbol identifies important safety messages on the machine and in the owner's manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

In the owner's manual and on decals used on the machine the words **DANGER, WARNING, CAUTION, IMPORTANT, and NOTE** are used to indicate the following:

DANGER: This word warns of immediate hazards which, if not avoided, will result in severe personal injury or death. The color associated with Danger is RED.

WARNING: This word refers to a potentially hazardous situation which, if not avoided, could result in severe personal injury or death. The color associated with Warning is ORANGE.

CAUTION: This word refers to a potentially hazardous or unsafe situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

IMPORTANT: Highlights information that must be heeded.

NOTE: A reminder of other related information that needs to be considered.

If Safety Decals on this machine are ISO two panel pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.

Be certain all machine operators are aware of the dangers indicated by safety decals applied to the machine, and be certain they follow all safety decal instructions. Contact Loftness for safety decal replacement.

Loftness cannot anticipate every possible circumstance that may involve a potential hazard. The warnings in this owner's manual are not all inclusive.

Owner's Responsibility

Because of the potential safety hazard to eyes from hydraulic leaks and/or flying debris, "**USE OF PROTECTIVE EYEWEAR IS ABSOLUTELY MANDATORY**" for operator and others in the work area.

Make sure that all personnel have read this owner's manual, and thoroughly understand safe and correct installation, operation, and maintenance procedures.

Operate and maintain this machine in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and/or laws; and in compliance with on-product labeling and this owner's manual instructions.

Make sure that all personnel know how to stop the machine and attachment by disengaging all controls. See "Mandatory Shut-Down Procedure" on page 4.

Make sure the attachment is installed on the machine correctly before being placed in service. At regular intervals thereafter, the attachment should be serviced in accordance with procedures outlined in this owner's manual.

Fulfill all warranty obligations so as not to void the warranties. The warranty policy included in this manual outlines the warranty policy of Loftness.

Safety Instructions

Mandatory Shut-Down Procedure

- Stop the machine and attachment on a level surface and lower the attachment to the ground.
- Move throttle to idle position.
- Disengage all power to the attachment.
- Shut off engine and remove the key.

Safety Rules

These are general safety considerations. Additional precautions may be necessary to operate your machine in a safe manner. Be certain you are operating your machine in accordance with all safety codes, OSHA rules and regulations, insurance requirements and local, state, and federal laws.

Operating Safety

- Do not allow anyone to operate the machine until they have read the owner's manual and are completely familiar with all safety precautions.
- Do not allow inexperienced persons unfamiliar with the machine, or unfamiliar with safe operating and maintenance procedures, to operate or maintain the machine.
- Do not allow persons under the influence of alcohol, medications, or other drugs that can impair judgment or cause drowsiness to operate or maintain the machine.
- Keep children, bystanders and other workers away from the machine while it is operating. No riders allowed.
- The machine requires an operator at all times. Never leave the machine running and unattended.
- Do not wear loose hanging clothes, neckties or jewelry. Long hair is to be placed under a cap or hat. These precautions will help prevent you from becoming caught in any moving parts on the machine.
- Do wear safety glasses, ear protection, respirators, gloves, hard hats, safety shoes and other protective clothing when required.

- The baler should not be used to handle materials other than those which were specified as part of its design. It is the operator's responsibility to be aware of the specifications and operate the baler accordingly.
- It is the operator's responsibility to be aware of machine operation and work area hazards at all times.
- Never enter the grain bag.
- Operators are responsible to know the location and function of all guards and shields including but not limited to PTO drivelines, gearboxes, chain drives, augers and are responsible to make certain that all guards are in place when operating the machine.
- Operators are responsible to be aware of safety hazard areas and follow instructions on warning, caution, or danger decals applied to the machine.
- Know the area before operating the machine. Be aware of power lines or other equipment. Watch for adequate overhead clearance.
- Always have an operator in the tractor while the machine is in operation.
- Remove from the emptied bag any foreign objects.
- Disengage hydraulic valve and shift tractor into neutral or park before starting engine.

Transporting Safety (while installed on 3-Point Hitch)

- Be sure the baler is in the transport position before transporting on a roadway.
- Disengage hydraulic valve and shift tractor into neutral or park before starting engine.
- Ensure Bag Baler is securely connected to the 3-point hitch.

Safety Rules (Cont'd)

Maintenance Safety

- Do not allow inexperienced persons unfamiliar with the machine, or unfamiliar with safe operating and maintenance procedures, to operate or maintain the machine.
- Do not allow persons under the influence of alcohol, medications, or other drugs that can impair judgment or cause drowsiness to operate or maintain the machine.
- Make sure the operator's area is clear of any distracting objects. Keep work areas clean and free of grease and oil to avoid slipping or falling.
- Periodically check all guards, shields and structural members. Replace or repair anything that could cause a potential hazard.
- Do not replace components or parts with other than factory-recommended service parts. To do so may decrease the effectiveness of the machine.
- Do not lubricate parts while the machine is running.
- Do not smoke while servicing the machine.
- Never attempt to make any adjustments while the tractor engine is running or the key is in the "ON" position in the tractor. Before leaving the operator's position, disengage power to the machine and remove ignition key.

Hydraulic Safety

- The hydraulic system is under high pressure. Make sure all lines and fittings are tight and in good condition. These fluids escaping under high pressure can have sufficient force to penetrate skin and cause serious injury.
- Never check for leaks by using any part of your body to feel for escaping fluid.
- Always wear safety goggles or glasses when working on hydraulic system to avoid eye injury.



WARNING: *Contact with high pressure fluids may cause fluid penetration and burn hazards. Fluid that is under pressure can penetrate body tissue. Fluid penetration can cause serious injury and possible death. If fluid is injected into the skin, seek medical attention immediately!*

California Proposition 65 Warning



WARNING: *This product can expose you to Mineral Oil, which is known to the State of California to cause cancer. For more information, go to www.p65warnings.ca.gov.*

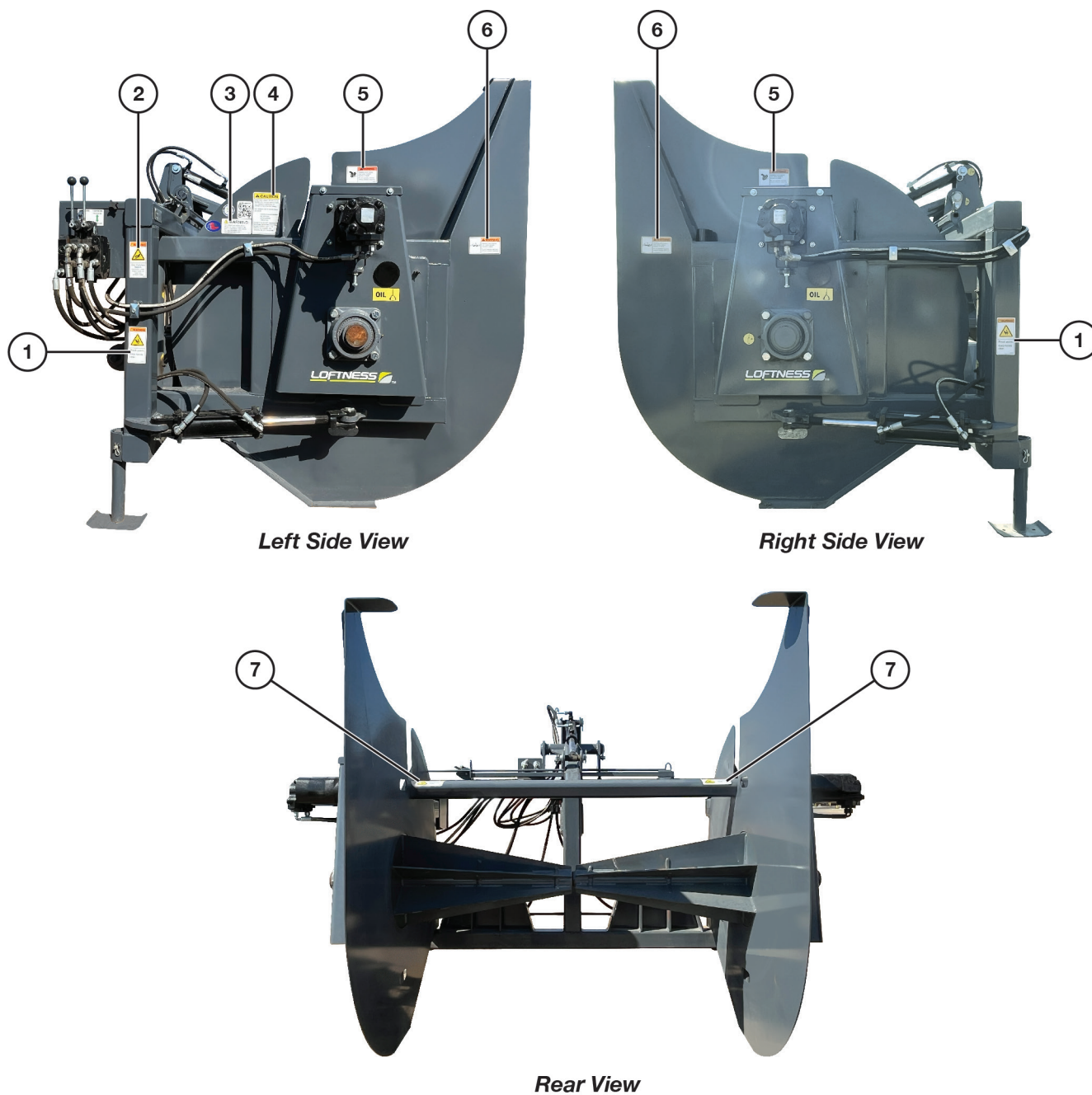
A decal with this warning statement is adhered to the machine. If the decal should become worn or missing, replace immediately.

Safety Instructions

Safety Decal Locations

Check and replace any worn, torn, hard to read or missing safety decals on your machine.

NOTE: This section shows where safety-related decals are applied on the machine. For all machine decals see “Machine Decals and Signs” on page 35.



See the following page for detailed images of the safety decals called out above.

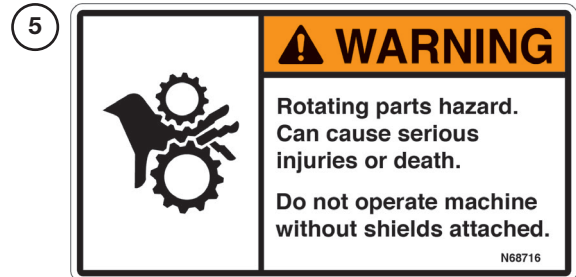
Safety Decal Locations (Cont'd)



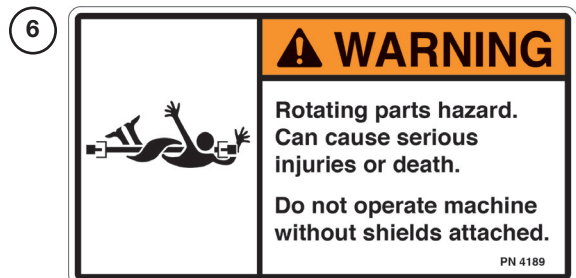
Part No. N23507



Part No. N23899



Part No. N68716



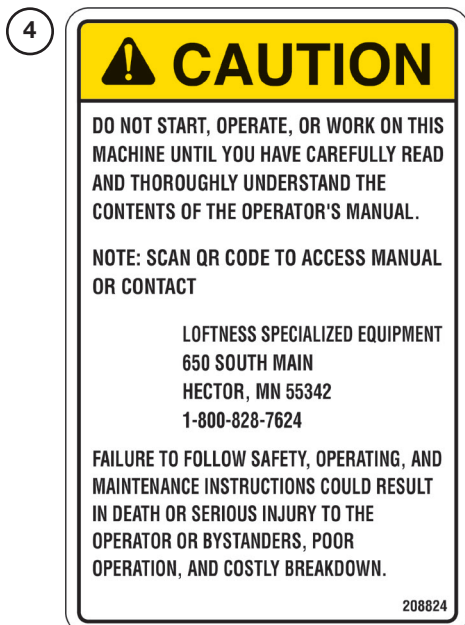
Part No. 4189



Part No. 203264



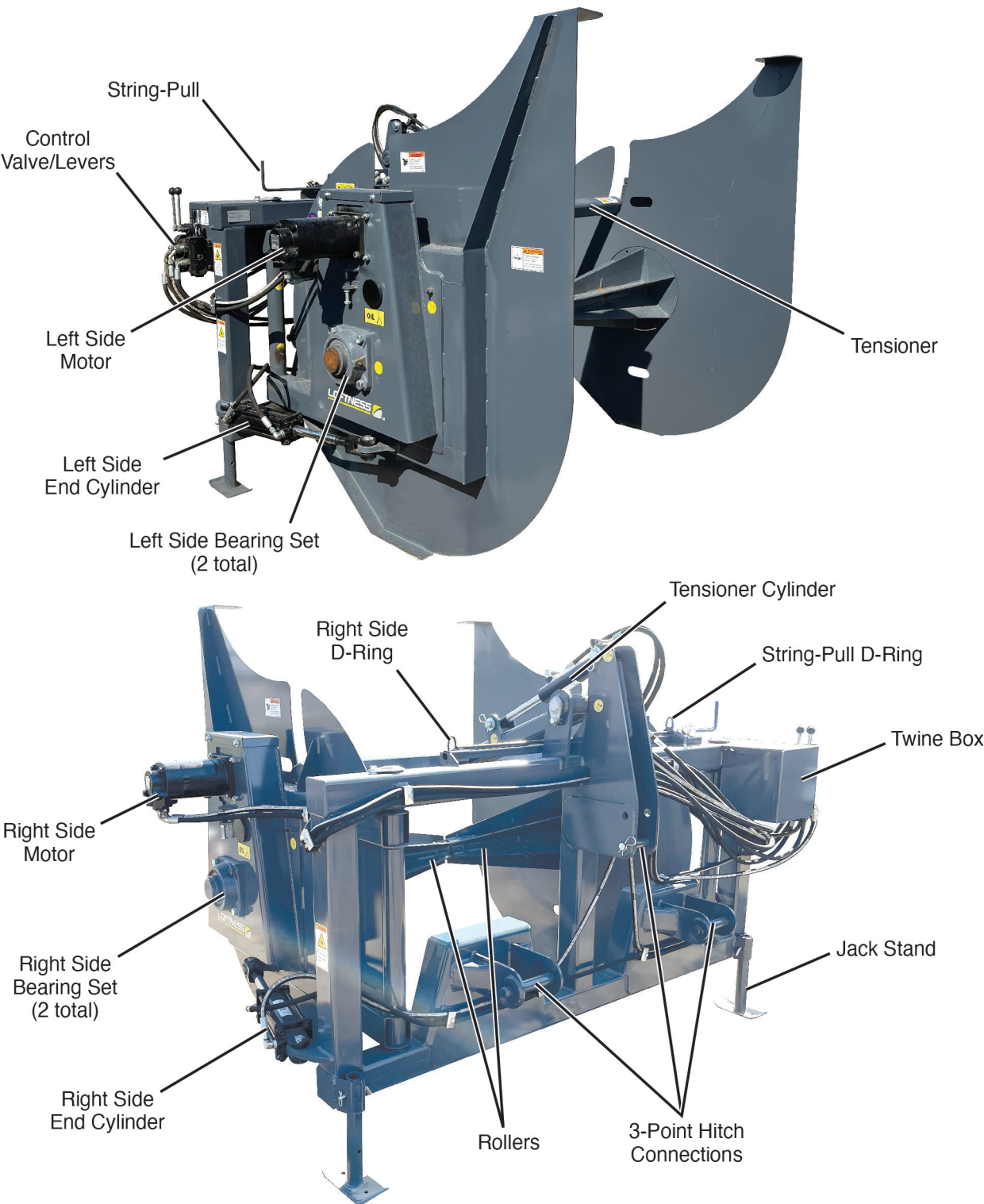
Part No. 206502



Part No. 208824

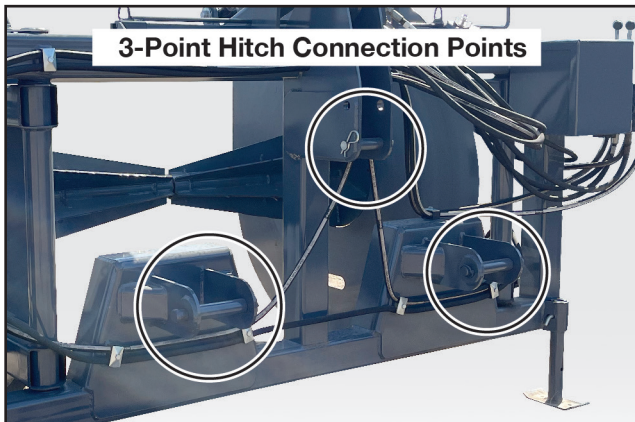
Safety Instructions

Grain Bag Baler Identification



Set-up Instructions

Mounting the Bag Baler to the Tractor



The Bag Baler is designed to mount to a Category II or Category III three-point hitch.

Always follow proper procedures and safety guidelines when attaching the bag baler to the 3-point hitch.

Set the bag baler down on the ground after the bag baler is properly connected to the 3-point hitch.

Hydraulic Connections

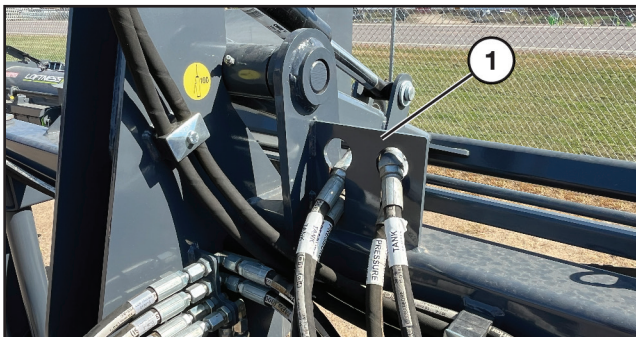


WARNING: Hydraulic Lines. Protect hands and body from high pressure fluids. Pressurized fluids can penetrate the skin. Disconnect and lock out power source before disconnecting and/or connecting hydraulic hoses.

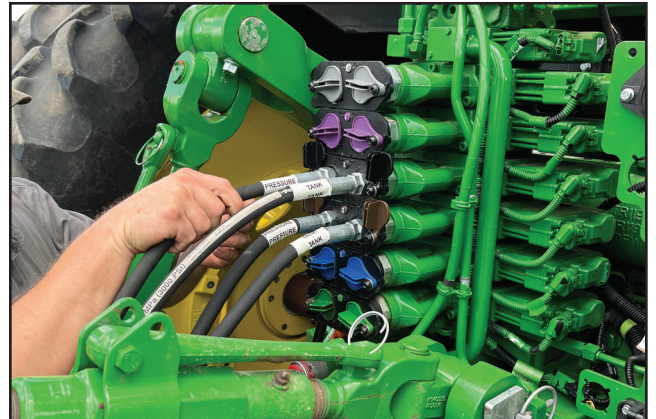
Turn the tractor off.



DANGER: Failure to turn the tractor off before connecting the hydraulic lines could result in serious injury or death.



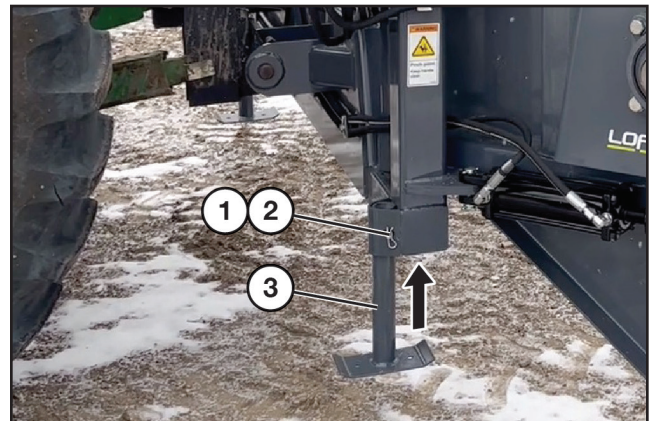
Remove the hydraulic hose ends from the storage rack (1).



Connect the quick couplers to the tractor's hydraulic ports.

IMPORTANT: It is the owner's responsibility to assure that the hydraulic hoses from the bag baler to the tractor are not caught in pinch points, or in any way damaged by moving parts.

Jack Stands



Remove the clip (1) and pin (2) securing the left-side jack stand (3). Then, raise the jack stand fully to the stowed (UP) position. Reinstall the pin (2) and clip (1) to secure the jack stand in place.

Repeat the same procedure for the right-side jack stand.

IMPORTANT: Leaving the jack stands in the lowered (DOWN) position during baling may cause the stands to become bent or damaged while maneuvering the baler.

Set-up Instructions

Testing the Controls and Operation

Turn the tractor on.

Using the tractor's hydraulic controls, lift and lower the baler, and open and close the baler ends to ensure all functions are operating correctly.

Lower the bag baler.

From the control valve, move the levers to ensure functions are working as labeled.

ROLLERS

“ROLL” (*push and hold lever down*) - The rollers should turn in a counter-clockwise direction when viewing from the control valve.

“REVERSE” (*pull and hold lever up*) - The rollers should turn in a clockwise direction when viewing from the control valve.

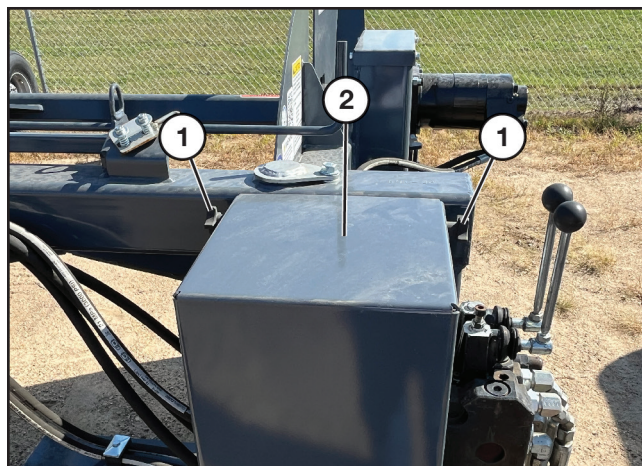
TENSION

“INCREASE” (*push and hold lever forward*) - The tensioner should swing down.

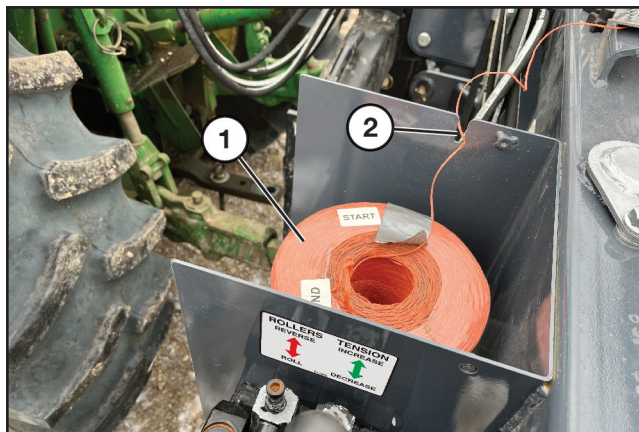
“DECREASE” (*pull and hold lever back*) - The tensioner should swing up.

Loading Twine

NOTE: For best results, use high-quality baling twine (not included) with this baler.

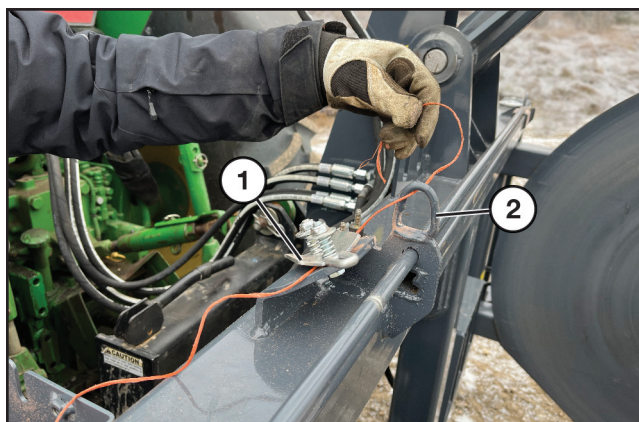


Loosen and remove the two knobs (1) securing the lid (2) to the twine box.

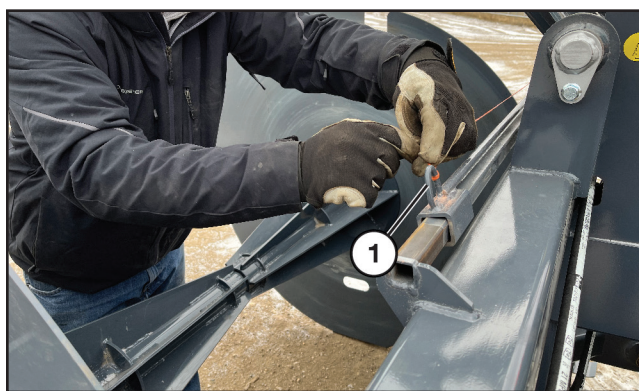


Load the twine roll (1) and pull the end of spool through the slot (2) on side of the twine box.

Replace cover and knobs.



Route the twine through the twine tensioner (1) and loop (2) as shown.



Pull the twine to the D-ring (1) on the right end of the string-pull and tie off with a temporary knot.

Operation

It is recommended that the bag winding/baling process be carried out by two people. One person should operate the hydraulic controls from inside the tractor to lift the bag baler and open the baler ends, while the other person manages the controls on the bag baler, including the roller intake and bag tension adjustments.



DANGER: Keep unauthorized persons away from the tractor, baler, and bag during the baling process. Stay alert to pinch points on the baler, the moving bag as it is being wound, and the bag baler while it is being lifted, lowered, or when the baler ends are opening and closing. Failure to stay aware of these hazards could result in serious injury or death.



PINCH POINT. Keep hands clear when rollers are closing.

Place the collected end of the bag between the two rollers.

Securing Bag onto the Rollers



Gather the corners and the center of the bag together.



DANGER: Stay clear of the bag baler while the tractor is being placed into position. Failure to do so could result in serious injury or death.

Position the tractor-bag baler so that the end of the bag is centered between the rollers on the bag baler.

Then, using the hydraulic controls in the tractor, open the baler ends so the rollers are separated enough to allow the gathered end of the bag to fit between them.



WARNING: Pinch Point. Keep hands away from the ends of the rollers when positioning the bag. Failure to do so may result in serious injury.

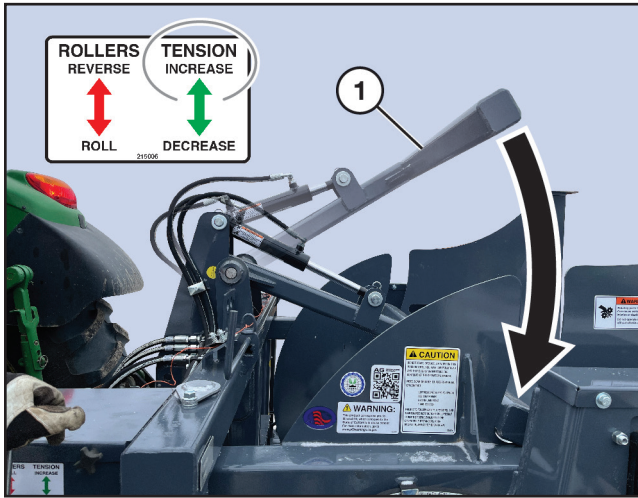
SLOWLY close the baler ends to secure the bag between the rollers as shown above. KEEP HANDS CLEAR!



The bag should be firmly secured between the rollers, as shown above.

Operating Instructions

Lowering Tensioner



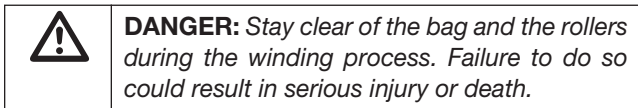
Lower the tensioner (1) completely by pushing and holding the “TENSION” lever forward to the “INCREASE” position.

Winding the Bag

IMPORTANT: Before beginning the winding process, ensure the bag is free of grain, rocks, debris, and any foreign objects. Check the area for anything that could get entangled in the bag during winding and remove.

NOTE: Check the tension of the bag. If necessary, move the tractor forward to tighten the bag further.

Ensure the bag baler is resting on the ground and the jack stands are raised.



DANGER: Stay clear of the bag and the rollers during the winding process. Failure to do so could result in serious injury or death.



Push and hold the “ROLLERS” lever downward to the “ROLL” position to begin winding the bag.

IMPORTANT: Ensure the bag feeds over the top of the rollers during this process

As the bag begins to accumulate on the rollers and initially comes into contact with the tensioner, adjust the tension using the “TENSION” lever as needed.

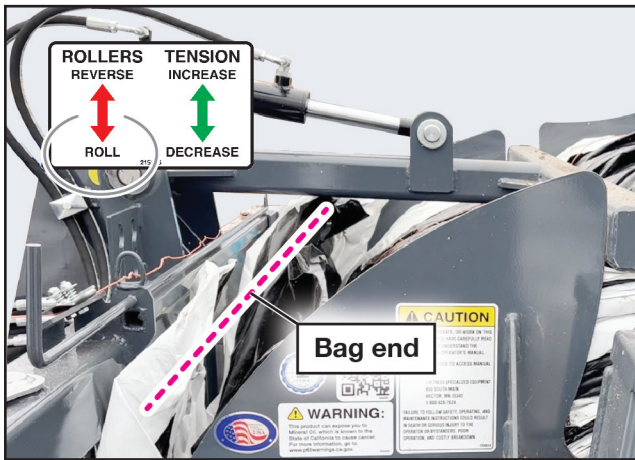
IMPORTANT: Avoid applying excessive tension; ensure the bag can continue to wind freely.

When the bag is completely wound onto the rollers, allow the bale to rotate a few additional times while gradually applying tension with the tensioner.

(Procedure continued on following page.)

Operating Instructions

Winding the Bag (Cont'd)



Release the “ROLLERS” lever when the end of the bag is towards the back of the bag baler as shown.

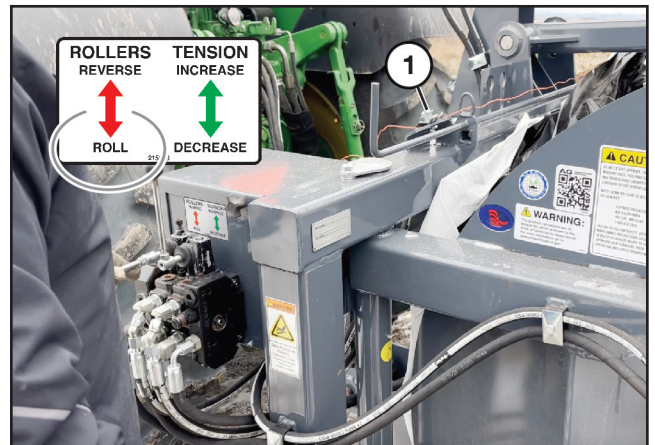
Wrapping the Bale



Untie the temporary knot made earlier and route the baling twine through the D-ring (1) as shown.



Use a knife to cut a small hole in the end of the bag towards the right side of the bale, then route the baling twine through the hole and tie off with a secure knot.



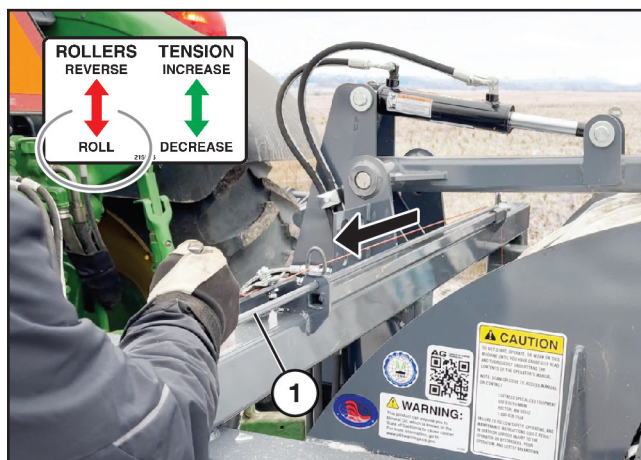
Push and hold the “ROLLERS” lever downward to the “ROLL” position to begin wrapping the twine around the bale.

NOTE: The twine should pass through the twine tensioner (1) with a slight amount of tension. If it appears too loose or too tight, adjust the two nuts on the twine tensioner as needed.

(Procedure continued on following page.)

Operating Instructions

Wrapping the Bale (Cont'd)

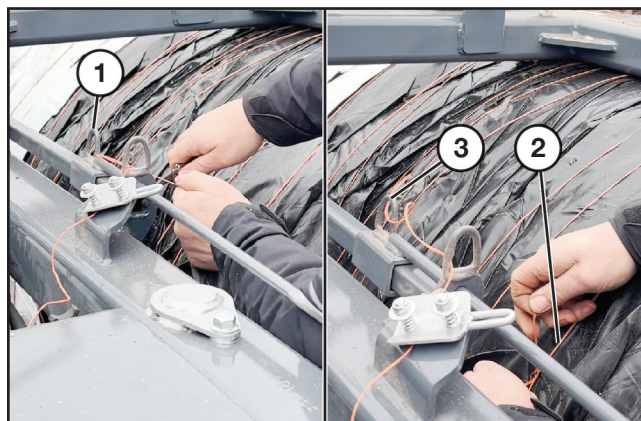


After 2-3 full revolutions of the bale, slowly begin sliding the string-pull (1) out as the twine wraps around the bale. Continue to hold down the “ROLLER” lever in the “ROLL” position.

Pull the string-pull at a steady, even pace to ensure that the twine wraps the bag securely. Leave approximately 5 inches of spacing between each wrap of twine.

When the D-ring on the string pull reaches the end, let the bale turn about 2-3 revolutions to ensure the end of the bag bale is securely fastened.

Release the “ROLLER” lever to stop wrapping the bale.



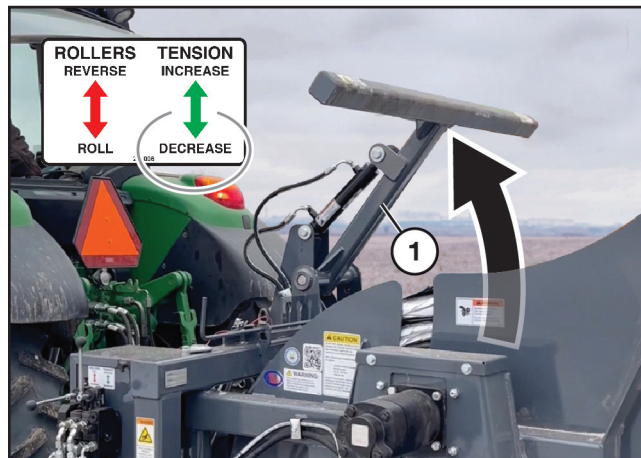
Cut the baling twine at the D-ring (1) in the string-pull. Then tie the bale end to the twine that is wrapped around the bale (2).

Tie the end of the twine coming from the spool onto the D-ring in the string-pull (3), then slide the string-pull back

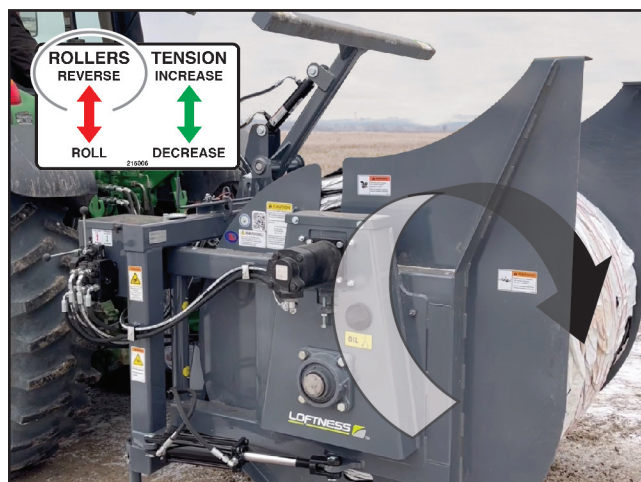
into position to prepare it for the next bale wrapping cycle.

Unloading the Bale

IMPORTANT: During this procedure, the bag baler ends will be swung open. Ensure the area is clear of obstructions to prevent any contact before unloading the bale.



Pull the “TENSION” lever until tensioner (1) is fully raised to keep it clear of the bale during unloading.



Lift up and hold the “ROLLER” lever in the “REVERSE” position. Rotate the bale one revolution, then release the lever.

NOTE: This releases bag tension caused when winding the bag on to the rollers, allowing the rollers to be pulled out from the bale easier.

(Procedure continued on following page.)

Operating Instructions

Unloading the Bale (Cont'd)



DANGER: Stay clear of the bag baler when unloading the bag. Failure to do so could result in serious injury or death.

Using the tractor's hydraulics:



Raise the bag baler off of the ground approximately 5-6 inches.



Open the bag baler ends to release the bale.

NOTE: If the bale doesn't release from the rollers, lower the baler until it rests on the ground and ensure jack stands are raised. Then, drive the tractor forward to release the bale.

If baling another bag immediately, close the bag baler ends and reposition the baler for the next bag.

If finished using the baler and wish to disconnect, follow the procedure "Disconnecting the Bag Baler" below.

Disconnecting the Bag Baler

With the baler raised, lower the jack stands and secure in place using the pins and clips.

Lower the bag baler to the ground.

Close the bag baler ends.

Turn the tractor off.

Disconnect the hydraulic hoses and secure the coupler ends in the hose rack on the rear of the baler.

Refer to "Storage" on page 20 for detailed steps on long-term or off-season storage of the bag baler.



General Maintenance

See "Maintenance Safety" on page 5 before performing any service or maintenance on the grain bag baler.



WARNING: Always shut down the tractor, remove the ignition key, set the park brake and remove the PTO shaft from the tractor before performing any inspections or maintenance.

To ensure efficient operation, you should inspect, lubricate, and make necessary adjustments and repairs at regular intervals. Parts that are starting to show wear should be ordered ahead of time, before a costly breakdown occurs and you have to wait for replacement parts. Keep good maintenance records and adequately clean your baler/unloader after each use.

NOTE: Lubricate chains at the end of the day while the chains are warm from operating.

Maintenance Schedule

HOURS	SERVICE POINTS	SERVICE REQUIRED					PAGE #
		CHECK	GREASE	OIL	CHANGE	ADJUST	
Every 8	Outside Roller Bearings		X				18
	Inside Roller Bearings		X				18
Every 100	Tensioner Cylinder		X				18
	Tensioner Pivot		X				18
	Baler End Pivot Shafts		X				19
	Roller Chains			X			19

Fluids And Lubricants



CAUTION: Use proper safety procedures when handling petroleum products including, but not limited to, the use of rubber gloves and eye protection.

Proper lubrication is important. Too little lubricant will cause premature failure of a bearing. Too much lubrication

usually causes high operating temperature and early failure of seals. Follow all lubrication instructions and schedules included in this section.

1. Grease - Use an SAE multipurpose high temperature grease with extreme-pressure (EP) rating. Also acceptable is an SAE multipurpose lithium based grease.
2. Chain - Use 80W-90 gear lube.
3. Storing Lubricants - Your machine can operate at top efficiency only if clean lubricants are used. Use clean containers to handle all lubricants. Store them in an area protected from dust, moisture and other contaminants.

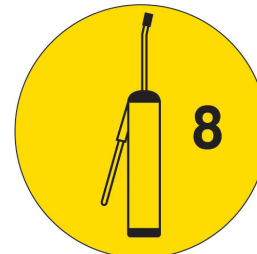
Lubrication

Grease Points



DANGER: Shut down power from the tractor before lubricating.

NOTE: Replace any broken or missing grease fittings. Be sure to clean fittings before greasing.



NOTE: Lubricate the grease point every "X" hours indicated on the decal adjacent to the grease point.

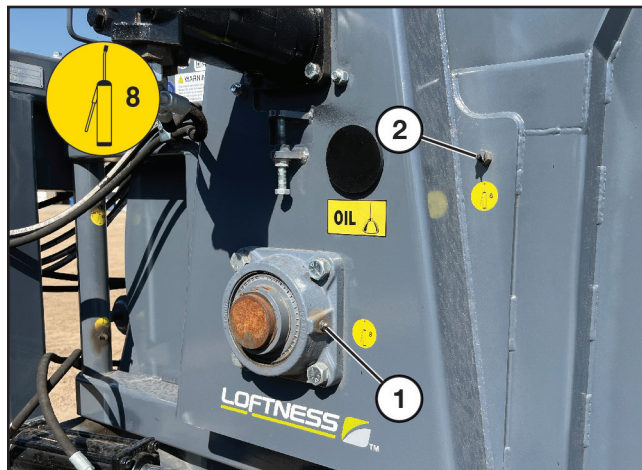
See "Grain Bag Baler Identification" on page 8 for component location and identification.

(Procedure continued on following page.)

Maintenance

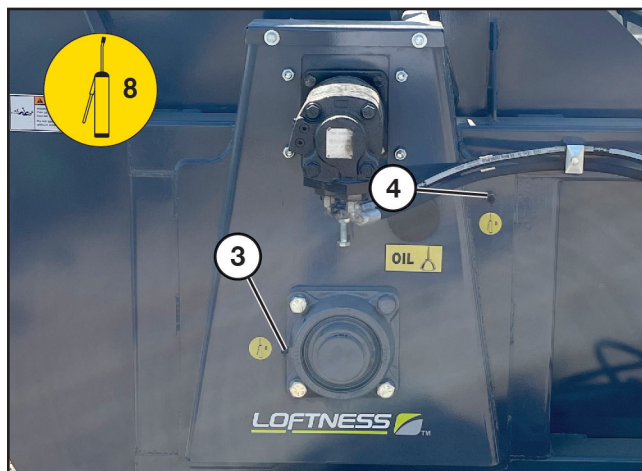
Lubrication (Cont'd)

Grease Points (Cont'd)



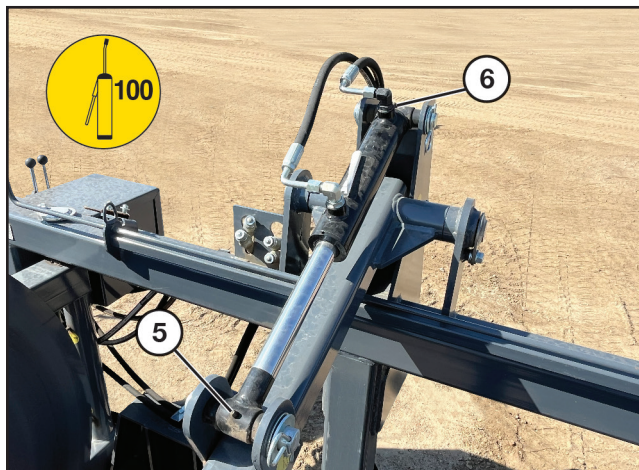
Location: Inside and outside roller bearings; left side (1, 2).

Interval: Every 8 hours of operation.



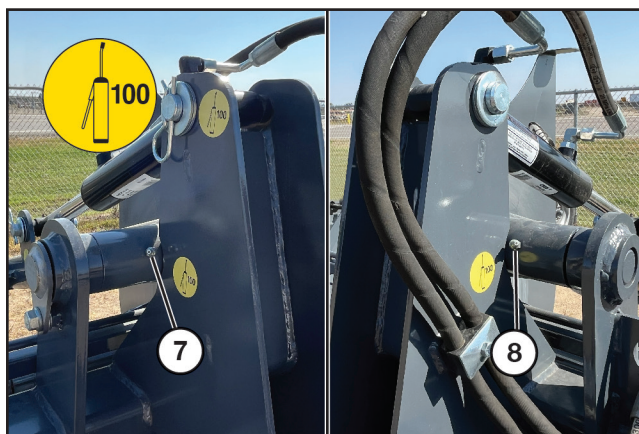
Location: Inside and outside roller bearings; right side (3, 4).

Interval: Every 8 hours of operation.



Location: Tensioner Cylinder (5, 6).

Interval: Every 100 hours of operation.



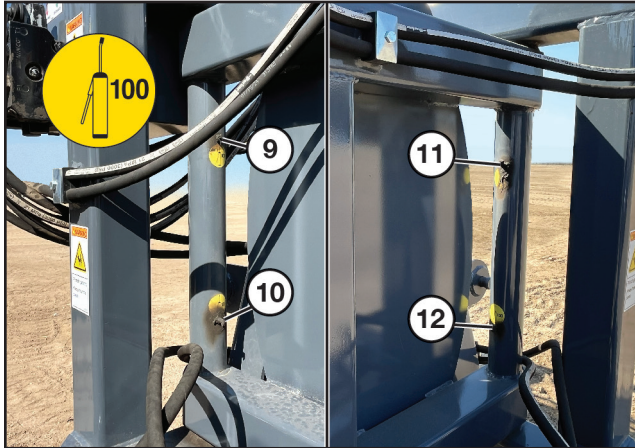
Location: Tensioner Pivots (7, 8).

Interval: Every 100 hours of operation.

(Procedure continued on following page.)

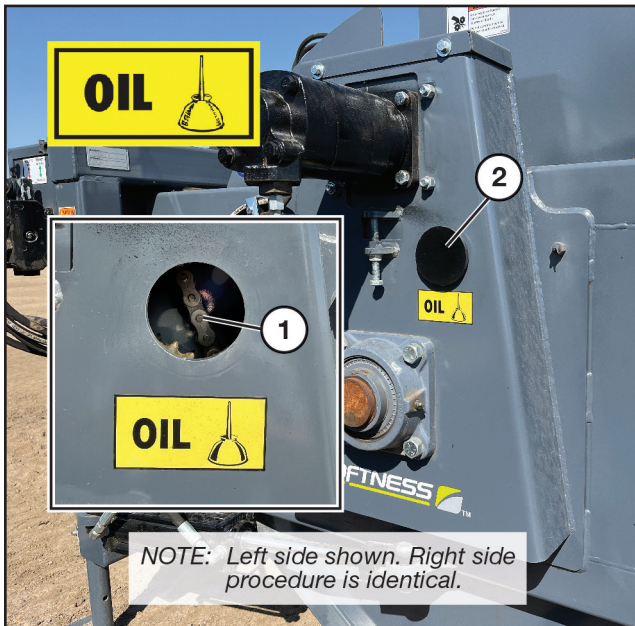
Lubrication (Cont'd)

Grease Points (Cont'd)



Location: Baler End Pivot Shafts;
left side (9, 10), right side (11, 12).

Interval: Every 100 hours of operation.



Location: Baler Roller Chains (1).

Interval: Every 100 hours of operation.

NOTE: Remove plug (2) to access chain.

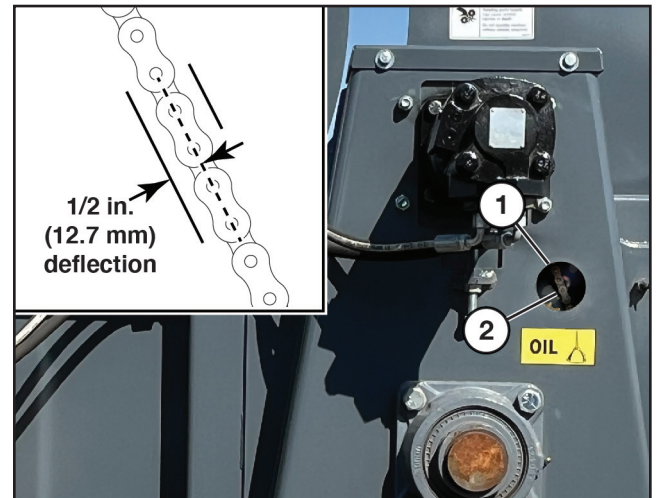
Bale Roller Chain Inspection and Adjustment



WARNING: Never attempt to make any adjustments while the tractor engine is running or the key is in the "ON" position in the tractor. Before leaving the operator's position, disengage power to the machine and remove ignition key.

Baler Roller Chain Inspection

NOTE: A roller chain is located on each side of the bag baler. This procedure gives instructions for one side. The steps are identical for the opposite side.



To access the baler roller chain, remove the plug from the access hole (1).

To check the deflection, press the chain at the location (2) between two sprockets. The chain should move approximately 1/2 in. (12.7 mm).

If the chain deflection is more than 1 in. (25.4 mm), see the directions in the following sub-section adjustment instructions.

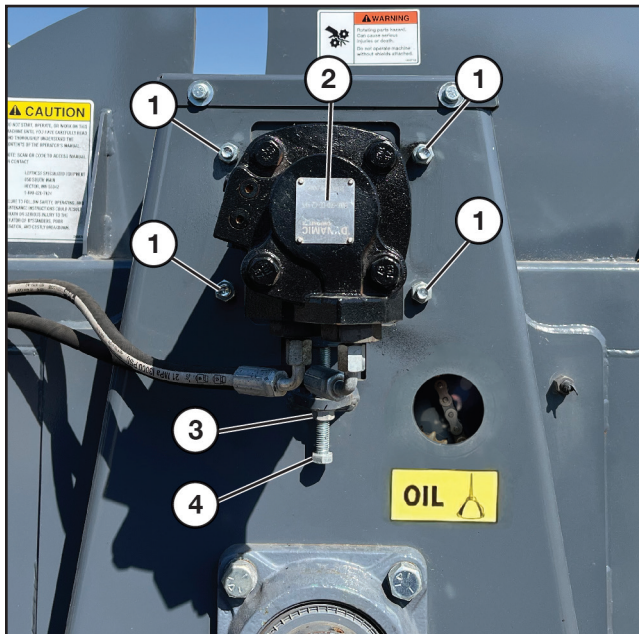
If no adjustment is needed, return the plug to the chain access hole.

Maintenance

Bale Roller Chain Inspection and Adjustment (Cont'd)

Baler Roller Chain Adjustment

NOTE: A roller chain is located on each side of the bag baler. This procedure gives instructions for one side. The steps are identical for the opposite side.



To adjust the chain deflection, loosen the four nuts (1) securing the motor (2).

Loosen the jam nut (3).

Turn the hex bolt (4) to slide the motor either up or down until the deflection in the chain is approximately 1/2 in. (12.7 mm).

NOTE: Do not over tighten the chains. Overtightening the chains will put undue stress on the chains and other components of the roller drive.

Once the correct deflection is set, tighten the jam nut (3) and retighten the four nuts (2) securing the motor.

Return the plug to the chain access hole.

Storage

NOTE: Refer to “Maintenance Safety” on page 5 before storing the baler and/or preparing it for service.

End of Season

- Ensure jack stands are lowered, and baler ends are folded in.
- Store hose end couplers in storage rack.
- Clean entire Bag Baler thoroughly.
- Lubricate all parts of the machine. See “Lubrication” on page 17.
- Make a list of all worn or damaged parts and replace them.
- Paint all parts that are worn or rusted.
- Store the Bag Baler in a clean, dry area.
- Review the Bag Baler operator’s manual.

Beginning of the Season

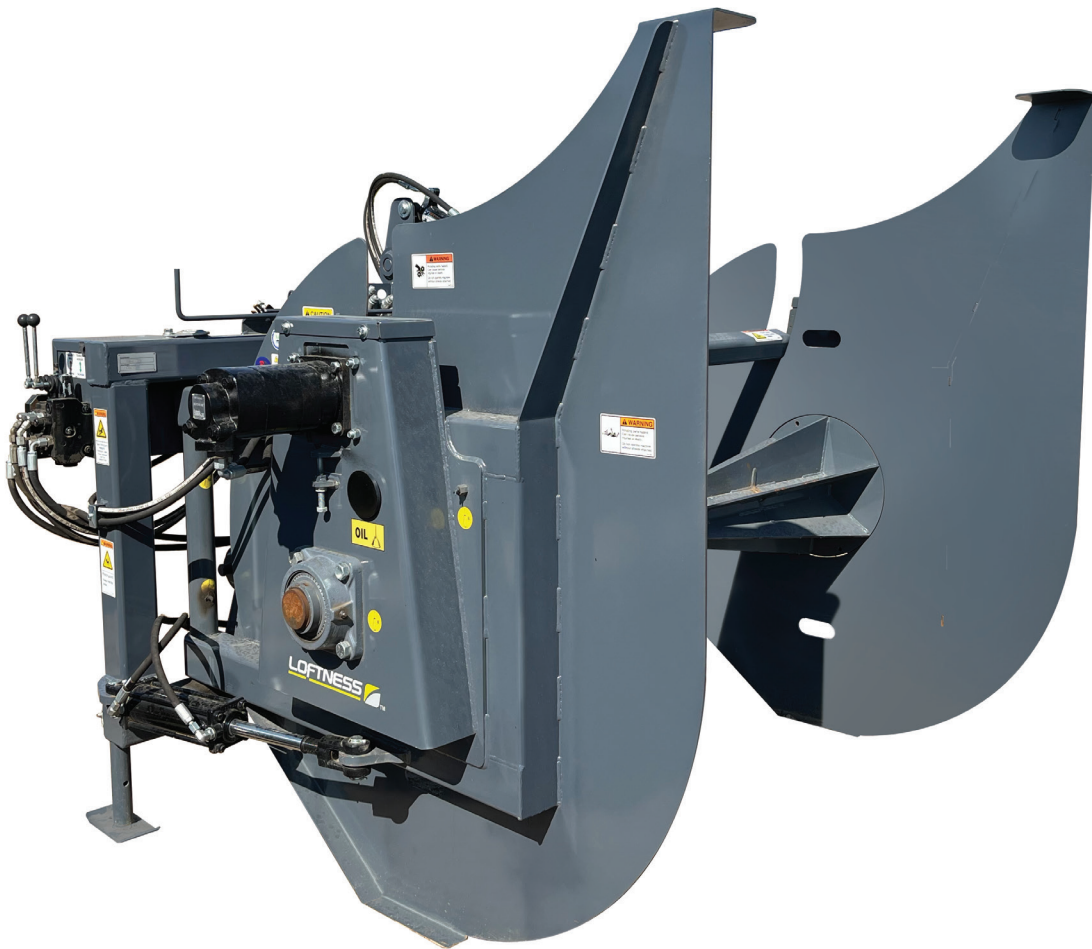
- Review the Bag Baler operator’s manual.
- Lubricate all parts of the machine. See “Lubrication” on page 17.
- Tighten all bolts, nuts, and set screws. See “Torque Specifications” on page 39.
- Replace all damaged, worn or missing decals.
- Install the Bag Baler onto a tractor and test for proper operation. See “Set-up Instructions” on pages 9 and 10 for instructions.

Troubleshooting

To assist with maintenance and repair, the following list of common problems and corrections is provided.

PROBLEM	CAUSE	SOLUTION
Roller not turning.	Chain not engaged or broken.	Verify chain engagement. Tighten chain. Replace chain.
	Hydraulic hoses not connected to tractor	Connect hoses.
Hydraulic controls not functioning correctly.	Hydraulic hoses not installed correctly.	Reverse hydraulic hoses at tractor.
	Hydraulic couplers not opening.	Replace couplers.
Bag will not wrap around rollers. Rollers stalling.	Tension too tight.	Decrease tension.
Bag not fitting on roller.	Tension too loose.	Increase tension.
	Grain sticking to bag.	Open up tension bars to 3/4 in. to allow sticking grain to pass through and then wind 150 ft. onto roller.
Bag not wrapping around roller evenly.	Tension not set correctly.	Adjust tension.
Bag will not release from roller.	Bag caught on roller.	Reengage roller completely and reverse roller rotation 1 to 2 revolutions.

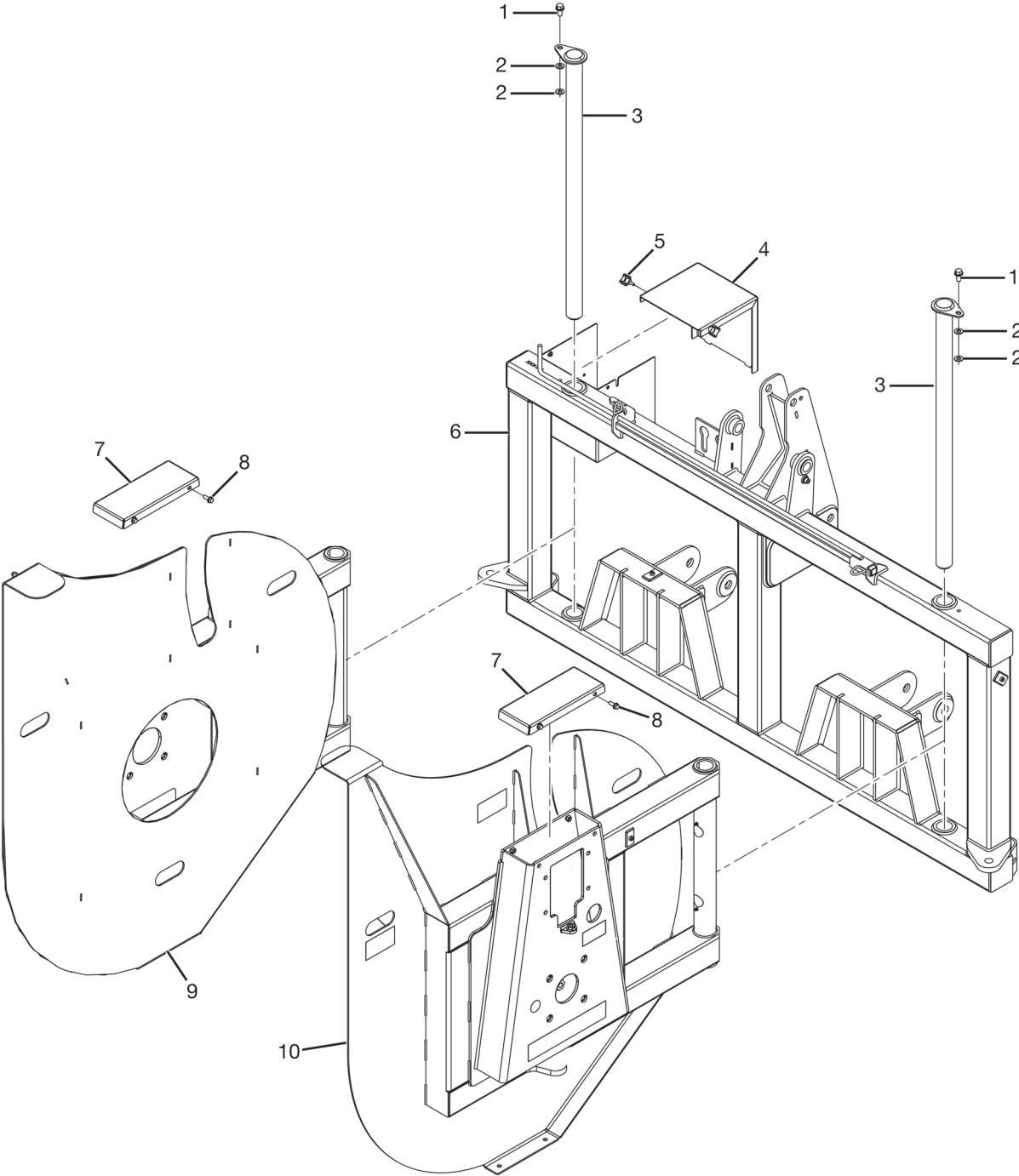




PARTS IDENTIFICATION

Parts Identification

Bag Baler - Main



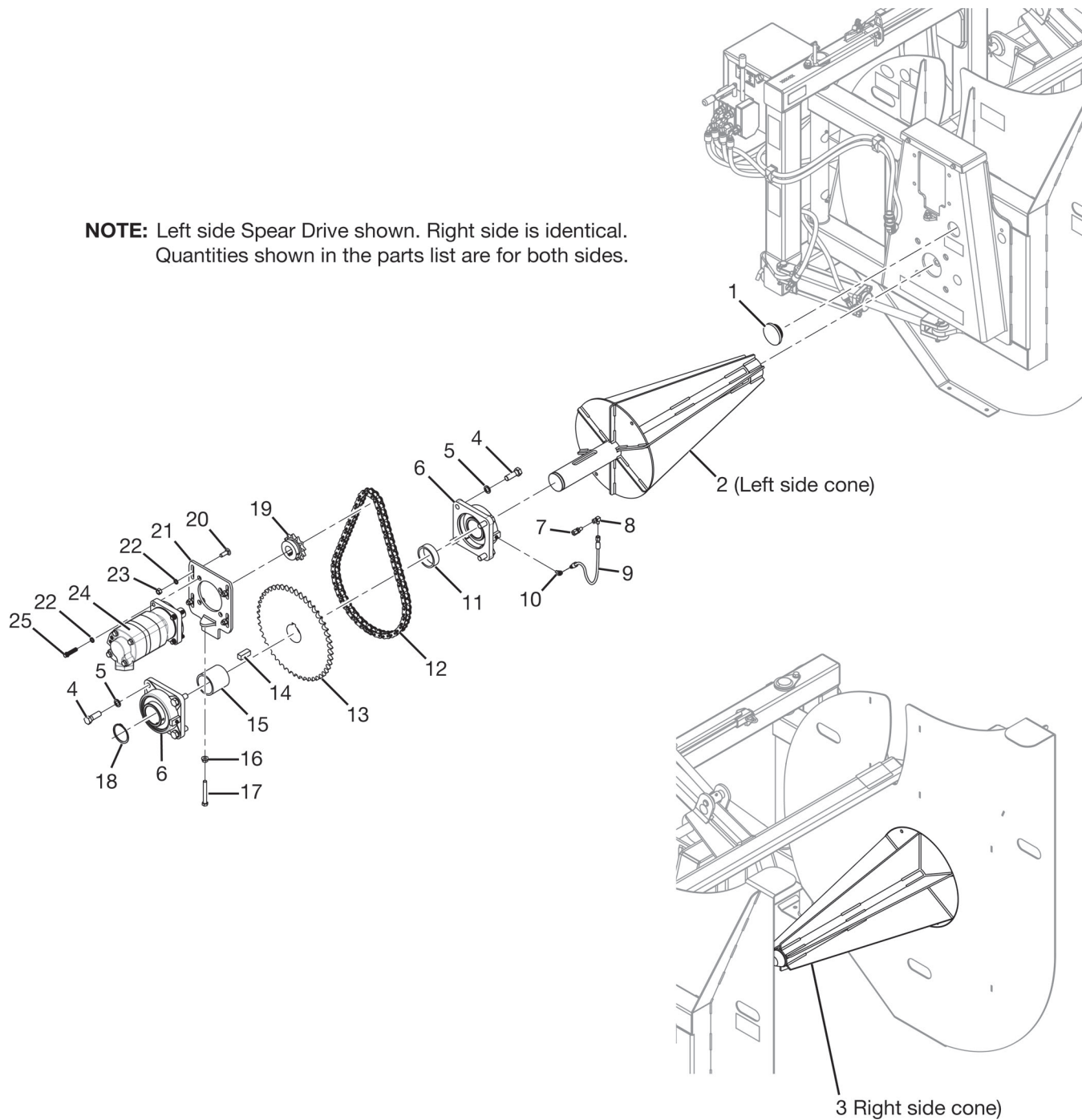
Bag Baler - Main

#	QTY.	PART #	DESCRIPTION
1	2	N26748	BOLT, 1/2" X 1" SER FLG
2	4	4068	WASHER, 1/2" SAE FLAT
3	2	202222	WELDMENT, BB12500 PIVOT SHAFT
4	1	212977	PLATE, TWINE BOX COVER
5	2	N17502	KNOB, 1/4" X 3/4" FOUR PRONG
6	1	215940	FRAME, BB12500 HITCH W/DECALS
7	2	202234	PLATE, BB12500 COVER
8	8	N26743	BOLT, 3/8" X 1" SER FLG
9	1	212959	FRAME, BB12500 END LEFT
10	1	212958	FRAME, BB12500 END RIGHT

Parts Identification

Bag Baler - Drive

NOTE: Left side Spear Drive shown. Right side is identical.
Quantities shown in the parts list are for both sides.

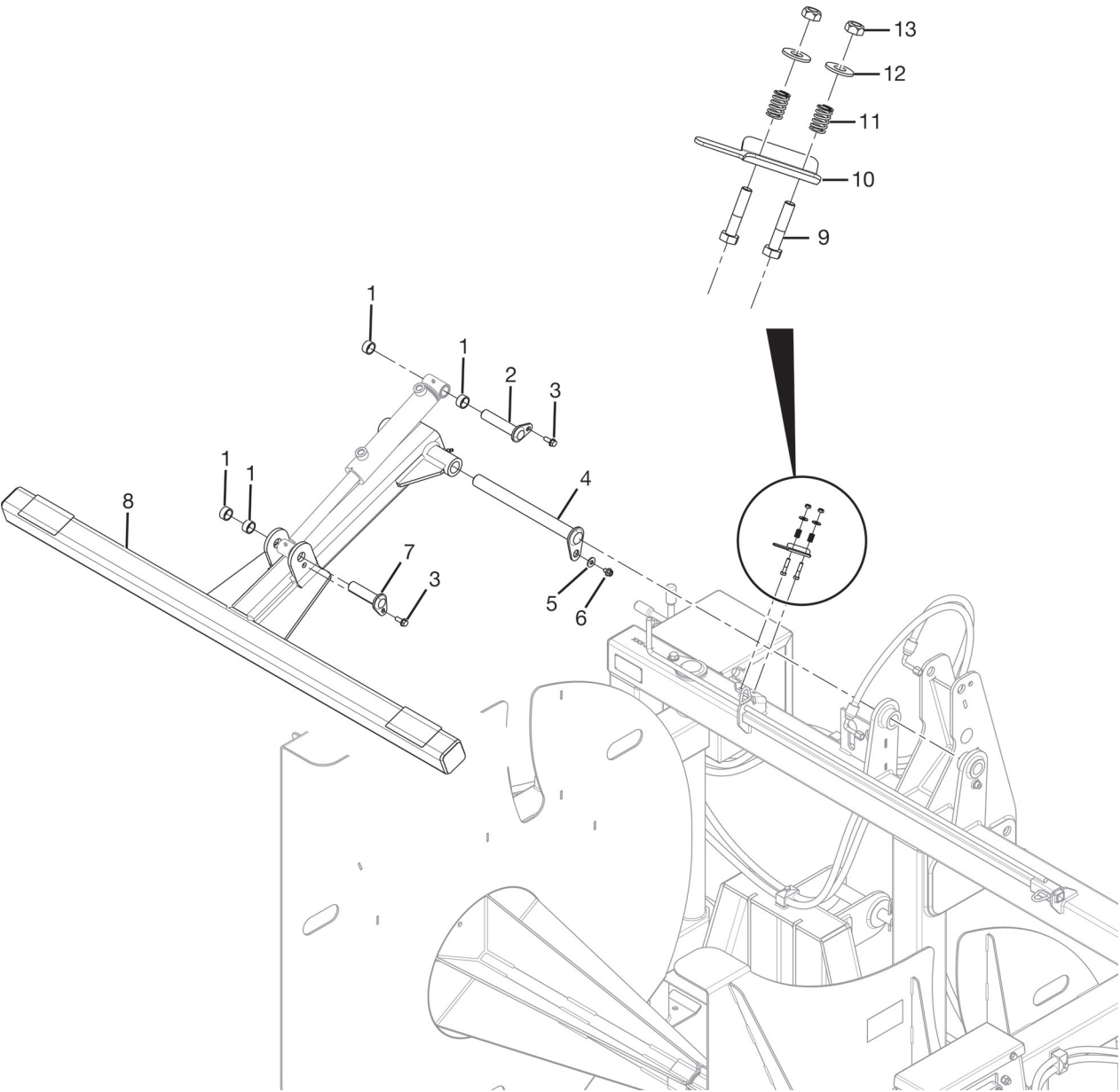


Bag Baler - Drive

#	QTY.	PART #	DESCRIPTION
1	2	N33214	PLUG, 2-1/2" CUSTUM RUBBER
2	1	212945	CONE, BB12500 LEFT
3	1	212944	CONE, BB12500 RIGHT
4	16	4475	BOLT, 3/4" X 2-1/4" GRADE 5
5	16	N16474	WASHER, 3/4 NORDLOCK
6	4	202254	BEARING, 3" DODGE 4BLT FLG
7	2	4304-10	BULKHEAD, FITTING-GREASE HOSE
8	2	N25125	ELBOW, 90 DEG - 4FJIC - 4MJIC
9	2	4304	HOSE, 15' GREASE W/FITTINGS
10	2	4471	ELBOW, 1/8 45 DEG STREE
11	2	215020	SPACER, BB12500 SPEAR MIDDLE
12	2	212960	CHAIN, #80 ROLLER 64 PITCH
13	2	202232	SPROCKET, 80B48 3.000 BORE
14	2	N16918	KEY, 3/4 X 2
15	2	215019	SPACER, BB12500 SPEAR OUTER
16	2	N29075	NUT, LOCK 1/2" SERRATED FLANGE
17	2	201968	BOLT, 1/2" X 4" GR 5 FULL THRD
18	2	202229	RING, SNAP EXT 3.0" SHAFT
19	2	N33721	SPROCKET, 80B12 1-1/2" KEYED
20	8	4039	BOLT, CARRIAGE 1/2" X 1-1/2"
21	2	202204	MOUNT, BB12500 MOTOR
22	16	N16472	WASHER, 1/2 NORDLOCK
23	8	4250	NUT, STANDARD 1/2
24	2	202278	MOTOR, 29.95 CID SIDE PORT
25	8	215949	BOLT, 1/2 X 2 GR 8 12 PT

Parts Identification

Tensioner

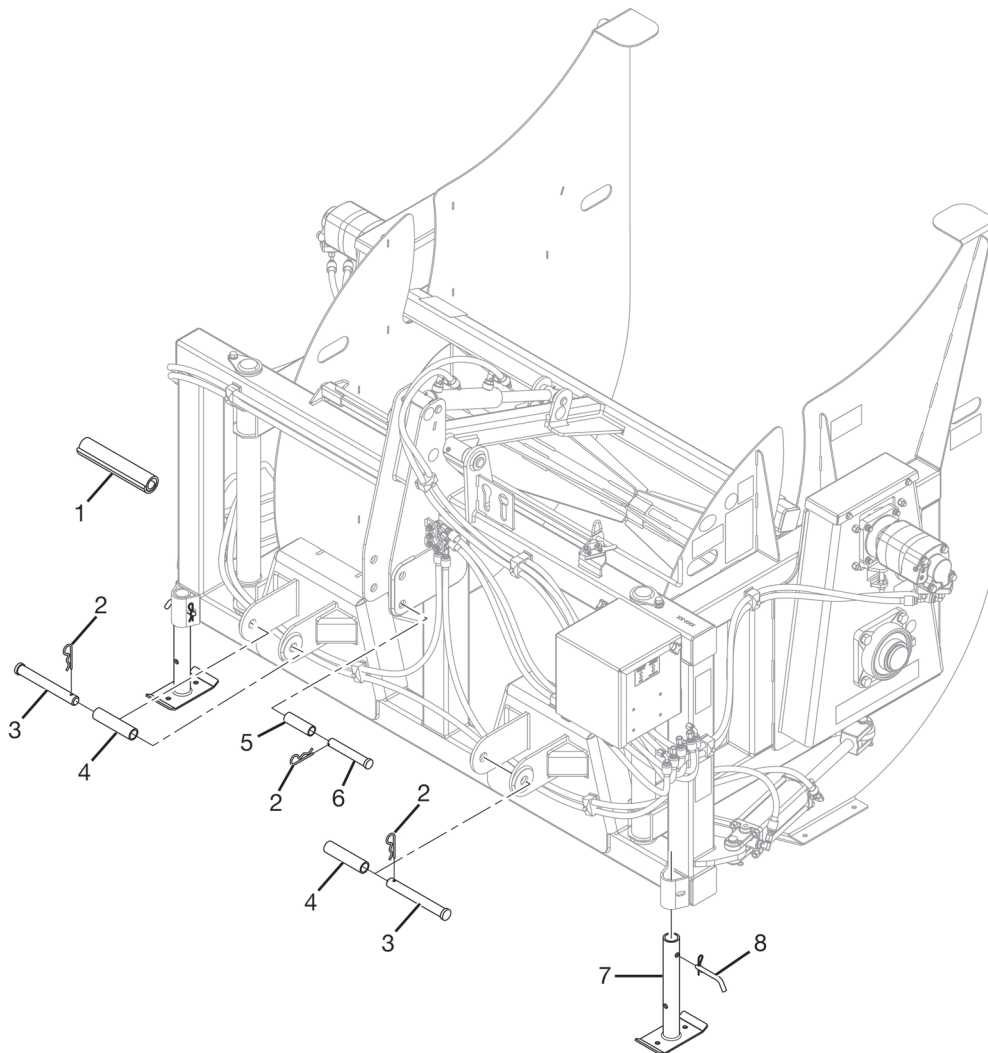


Tensioner

#	QTY.	PART #	DESCRIPTION
1	4	215004	SPACER, 1.01IDX1.25ODX.562
2	1	215944	PIN, 1.000 BB12500 TENSIONER L
3	2	N26743	BOLT, 3/8" X 1" SER FLG
4	1	215941	PIN, 1.250 BB12500 TENSIONER
5	1	4064	WASHER, FLAT 3/8"
6	1	215256	BOLT, 3/8 X 1/2 FLANGE
7	1	215947	PIN, 1.000 BB12500 TENSIONER S
8	1	215930	TENSIONER, BB12500 BAG 1-1/4
9	2	4241	BOLT, 5/16" X 1-1/2" GRADE 5
10	1	215001	PLATE, TWINE TENSIONER B
11	2	215002	SPRING, .50OD .062W .75FL
12	2	4369	WASHER, 5/16" FLAT
13	2	4414	NUT, NYLOCK 5/16"

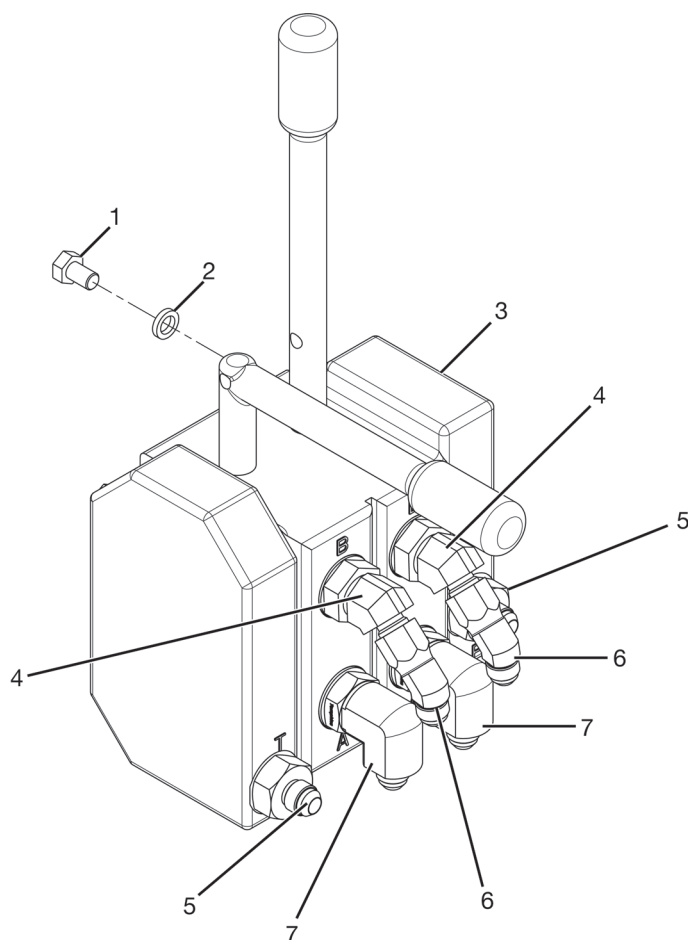
Parts Identification

Hitch Pins; Jack Stands; Manual



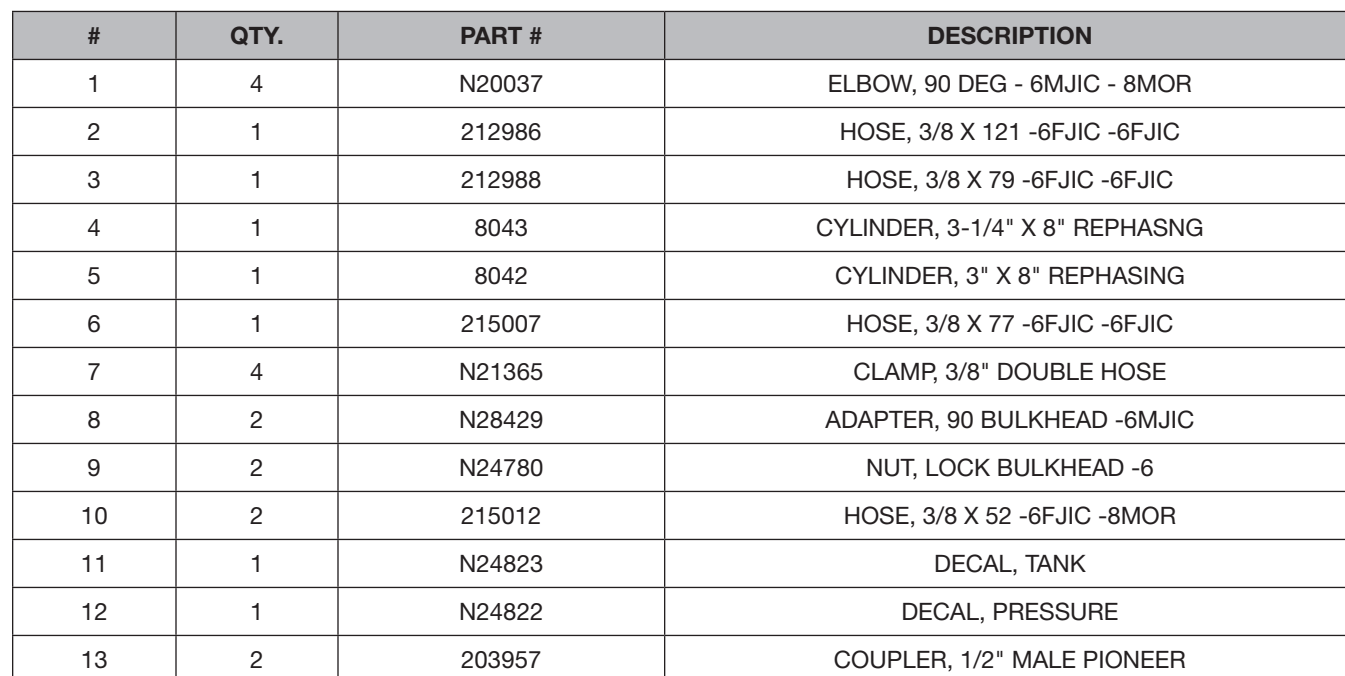
#	QTY.	PART #	DESCRIPTION
1	1	202249	MANUAL, BB12500
2	3	4389	CLIP, HAIRPIN 3/16" X 3"
3	2	4100	PIN, 1-1/8" X 8-3/32"
4	2	202285	BUSHING, 1.438OD X 1.125ID X 5.938
5	1	212943	BUSHING, 1.250OD X 1.010ID
6	1	N16300	PIN, 1" X 6"
7	2	202256	JACK, BB12500 STORAGE STAND
8	2	N30804	PIN, 1/2" X 3" BENT HITCH

Control Valve

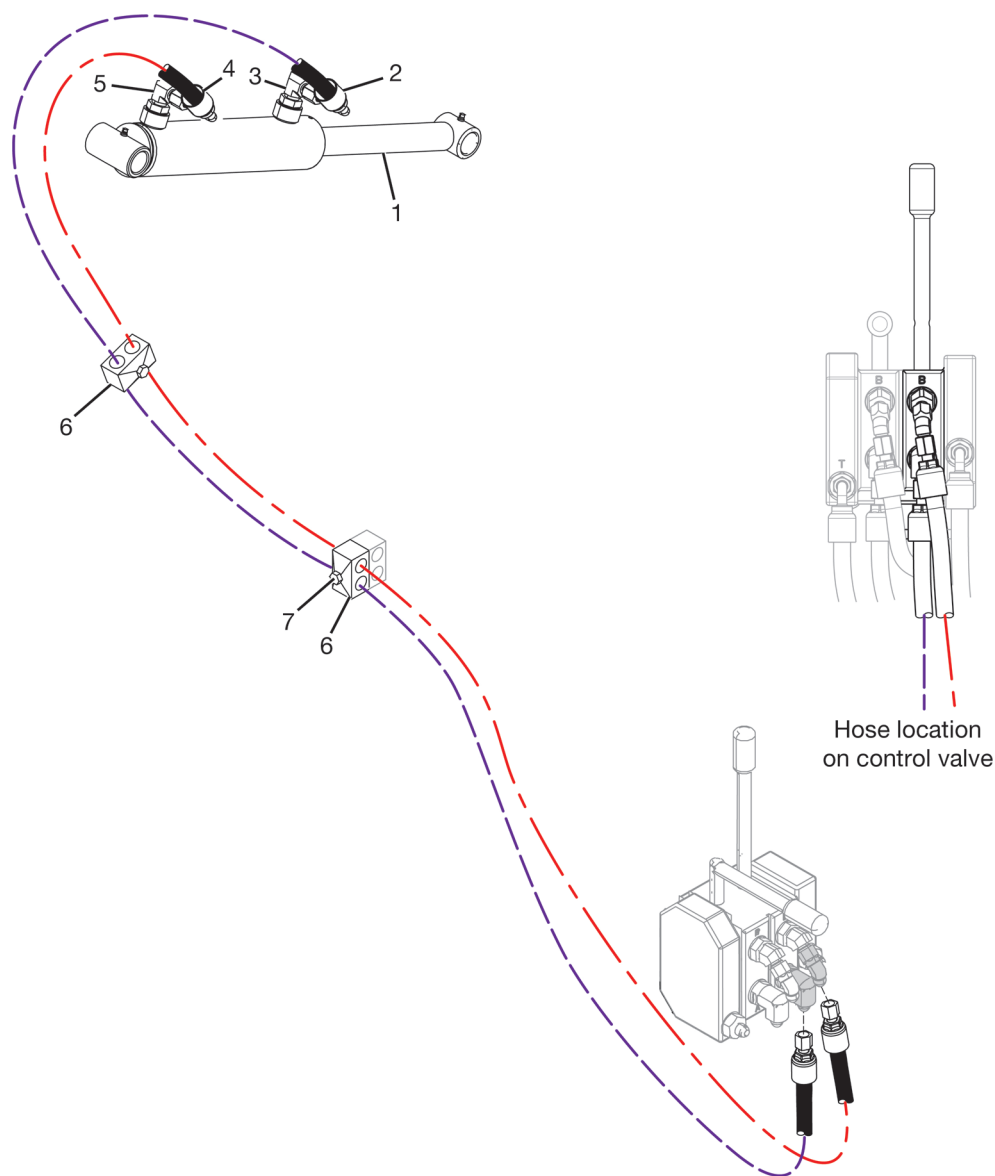


#	QTY.	PART #	DESCRIPTION
1	4	4532	BOLT, 5/16" X 1/2" GRADE 5
2	4	N16469	WASHER, 5/16 NORDLOCK
3	1	202288	VALVE, 2-SECTION CONTROL
4	2	N22720	ELBOW, 45 DEG - 6MJIC - 10MOR
5	2	N28826	ADAPTER, 6MJIC - 10MOR
6	2	N28837	ELBOW, 45 DEG - 6MJIC -6FJIC
7	2	N21992	ELBOW, 90 DEG - 6MJIC - 10MOR

Hydraulics, End Frame Cylinders



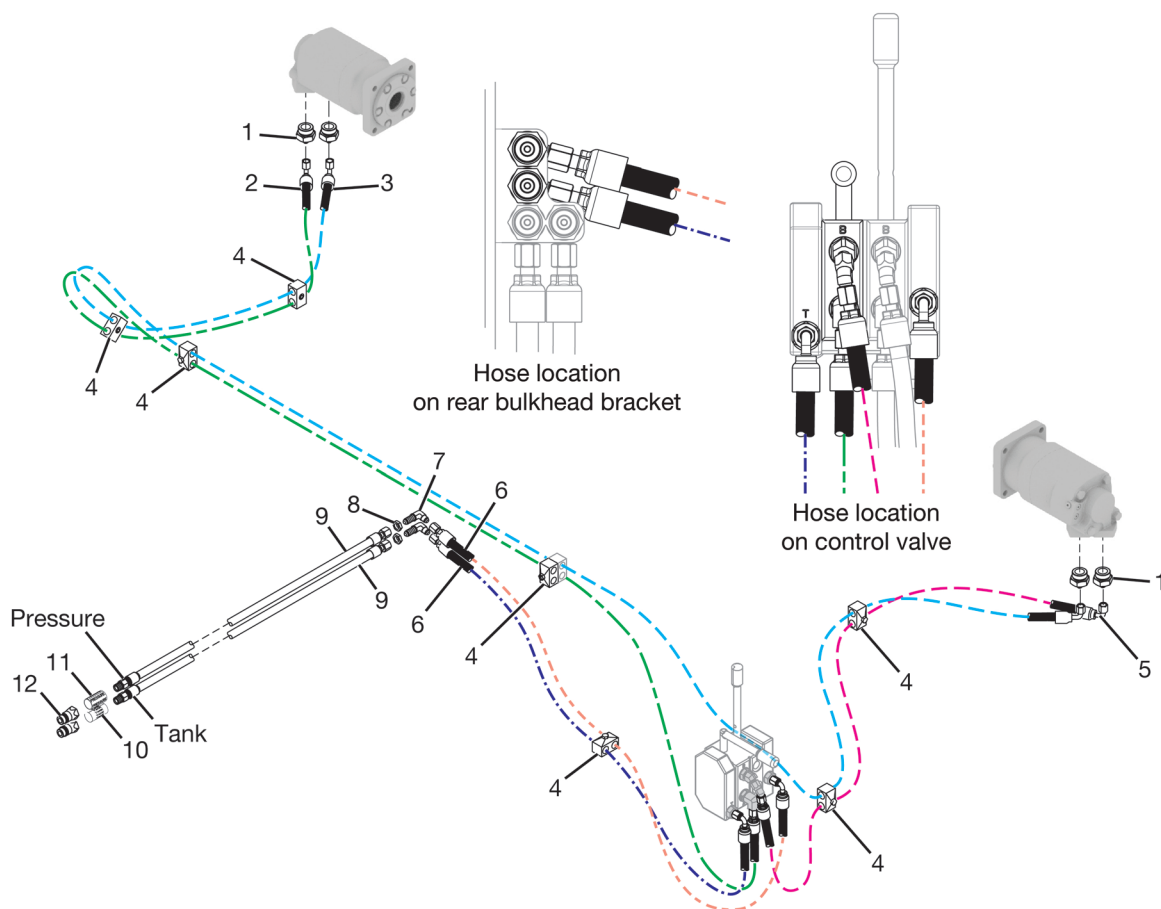
Hydraulics, Tensioner



#	QTY.	PART #	DESCRIPTION
1	1	212984	CYLINDER, 2 X 8 3000 PSI
2	1	212996	HOSE, 38 X 90 -6FJIC -6FJIC90LG
3	1	N20037	ELBOW, 90 DEG - 6MJIC - 8MOR
4	1	212998	HOSE, 3/8 X 82 -6FJIC -6FJIC90LG
5	1	N28002	ELBOW, 90 -6MJIC-8MORB .031 OR
6	2	N21365	CLAMP, 3/8" DOUBLE HOSE
7	1	N28436	BOLT, 5/16" X 2-1/4" GR5

Parts Identification

Hydraulics, Roller



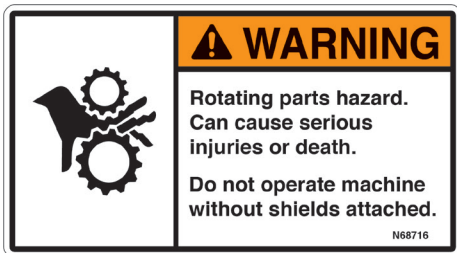
#	QTY.	PART #	DESCRIPTION
1	4	215005	ADAPTER, 6MJIC - 16MOR
2	1	212990	HOSE, 3/8 X 142 -6FJIC -6FJIC90S
3	1	212994	HOSE, 3/8 X 178 -6FJIC90S-6FJIC90S
4	7	N21365	CLAMP, 3/8" DOUBLE HOSE
5	1	212992	HOSE, 3/8 X 58 -6FJIC -6FJIC90S
6	2	215015	HOSE, 3/8 X 61 -6FJIC -6FJIC90S
7	2	N28429	ADAPTER, 90 BULKHEAD -6MJIC
8	2	N24780	NUT, LOCK BULKHEAD -6
9	2	215012	HOSE, 3/8 X 52 -6FJIC -8MOR
10	1	N24823	DECAL, TANK
11	1	N24822	DECAL, PRESSURE
12	2	203957	COUPLER, 1/2" MALE PIONEER

Machine Decals and Signs

NOTE: All safety related decals are also shown in the Safety Instructions Section along with their location on the machine. See "Safety Decal Locations" on page 6.

Check and replace any worn, torn, hard to read or missing decals on your machine.

Part No. N68716



Part No. N23507



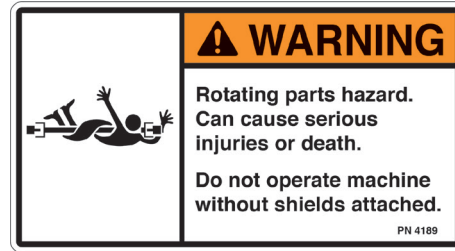
Part No. N23899



Part No. 206502



Part No. 4189



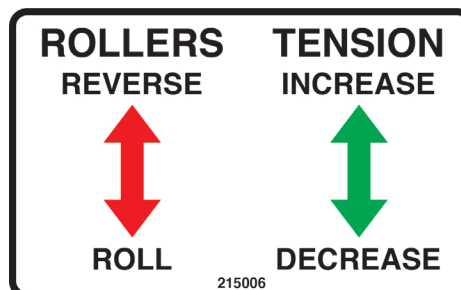
Part No. 208824



Part No. 203264



Part No. 215006



Parts Identification

Machine Decals and Signs (Cont'd)

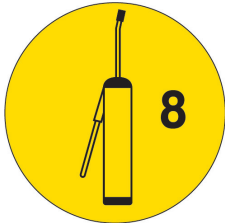
Part No. 4136



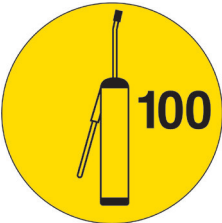
Part No. N13721



Part No. N28010



Part No. N28013



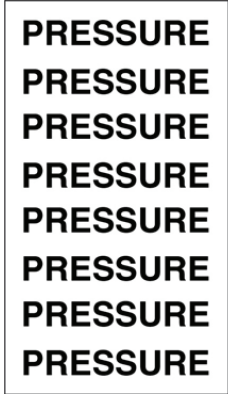
Part No. 4138



Part No. N13517



Part No. N24822



Part No. N24823



Part No. 209528



Part No. N26974 (Horizontal Small)

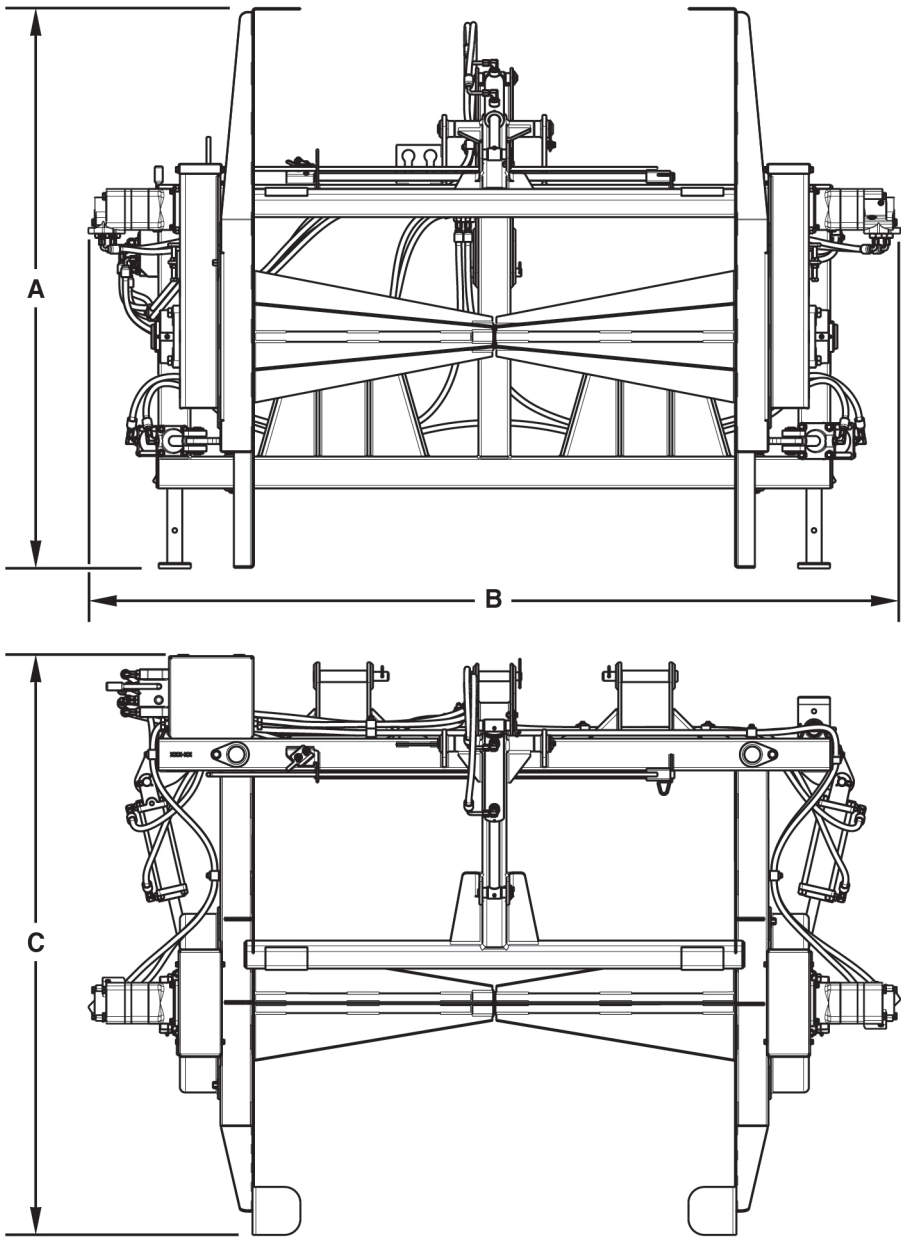


Specifications

DESCRIPTION	MODEL BB 10-300 GRAIN BAG BALER
Bag Baling Capacity	9 ft., 10 ft., or 12 ft. bags up to 500 ft. long
Bag Baler Control	Hydraulic
Weight	2,360 lbs. (1070.5 kg)

Appendix

Dimensions



DESCRIPTION	MODEL BB 10-300 GRAIN BAG BALER
Height (A)	70.13 in. (178.1 cm)
Width (B)	101.5 in. (257.8 cm)
Length (C)	72.44 in. (184.0 cm)
Weight	2,360 lbs. (1070.5 kg)

Torque Specifications

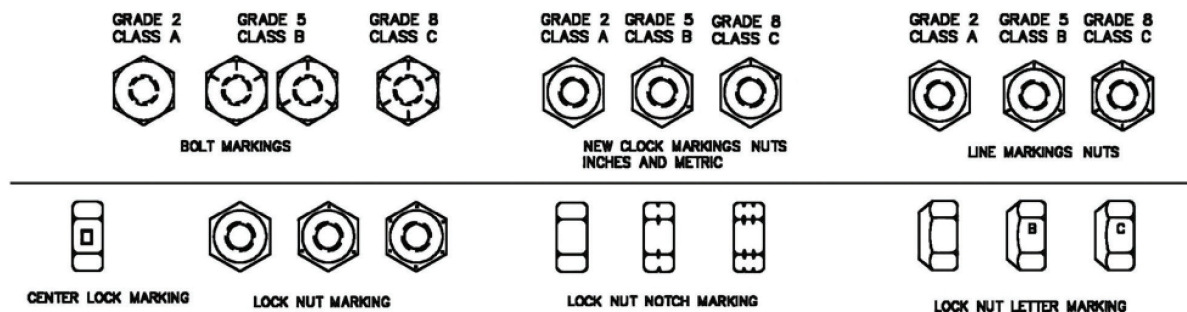
Inches Hardware and Lock Nuts

TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications
(Standard Hardware and Lock Nuts)

SAE Gr. 2	SAE Grade 5		SAE Grade 8		LOCK NUTS			
Nominal Size	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Grade W / Gr. 5 Bolt	Grade W / Gr. 8 Bolt
1/4	55 in.-lb. (6.2 N•m)	72 in.-lb. (8.1 N•m)	86 in.-lb. (9.7 N•m)	112 in.-lb. (12.6 N•m)	121 in.-lb. (13.6 N•m)	157 in.-lb. (17.7 N•m)	61 in.-lb. (6.9 N•m)	86 in.-lb. (9.8 N•m)
5/16	115 in.-lb. (13 N•m)	149 in.-lb. (17 N•m)	178 in.-lb. (20 N•m)	229 in.-lb. (26 N•m)	250 in.-lb. (28 N•m)	324 in.-lb. (37 N•m)	125 in.-lb. (14 N•m)	176 in.-lb. (20 N•m)
3/8	17 ft.-lb. (23 N•m)	22 ft.-lb. (30 N•m)	26 ft.-lb. (35 N•m)	34 ft.-lb. (46 N•m)	37 ft.-lb. (50 N•m)	48 ft.-lb. (65 N•m)	19 ft.-lb. (26 N•m)	26 ft.-lb. (35 N•m)
7/16	27 ft.-lb. (37 N•m)	35 ft.-lb. (47 N•m)	42 ft.-lb. (57 N•m)	54 ft.-lb. (73 N•m)	59 ft.-lb. (80 N•m)	77 ft.-lb. (104 N•m)	30 ft.-lb. (41 N•m)	42 ft.-lb. (57 N•m)
1/2	42 ft.-lb. (57 N•m)	54 ft.-lb. (73 N•m)	64 ft.-lb. (87 N•m)	83 ft.-lb. (113 N•m)	91 ft.-lb. (123 N•m)	117 ft.-lb. (159 N•m)	45 ft.-lb. (61 N•m)	64 ft.-lb. (88 N•m)
9/16	60 ft.-lb. (81 N•m)	77 ft.-lb. (104 N•m)	92 ft.-lb. (125 N•m)	120 ft.-lb. (163 N•m)	130 ft.-lb. (176 N•m)	169 ft.-lb. (229 N•m)	65 ft.-lb. (88 N•m)	92 ft.-lb. (125 N•m)
5/8	83 ft.-lb. (112 N•m)	107 ft.-lb. (145 N•m)	128 ft.-lb. (174 N•m)	165 ft.-lb. (224 N•m)	180 ft.-lb. (244 N•m)	233 ft.-lb. (316 N•m)	90 ft.-lb. (122 N•m)	127 ft.-lb. (172 N•m)
3/4	146 ft.-lb. (198 N•m)	189 ft.-lb. (256 N•m)	226 ft.-lb. (306 N•m)	293 ft.-lb. (397 N•m)	319 ft.-lb. (432 N•m)	413 ft.-lb. (560 N•m)	160 ft.-lb. (217 N•m)	226 ft.-lb. (306 N•m)
7/8	142 ft.-lb. (193 N•m)	183 ft.-lb. (248 N•m)	365 ft.-lb. (495 N•m)	473 ft.-lb. (641 N•m)	515 ft.-lb. (698 N•m)	667 ft.-lb. (904 N•m)	258 ft.-lb. (350 N•m)	364 ft.-lb. (494 N•m)
1	213 ft.-lb. (289 N•m)	275 ft.-lb. (373 N•m)	547 ft.-lb. (742 N•m)	708 ft.-lb. (960 N•m)	773 ft.-lb. (1048 N•m)	1000 ft.-lb. (1356 N•m)	386 ft.-lb. (523 N•m)	545 ft.-lb. (739 N•m)



Appendix

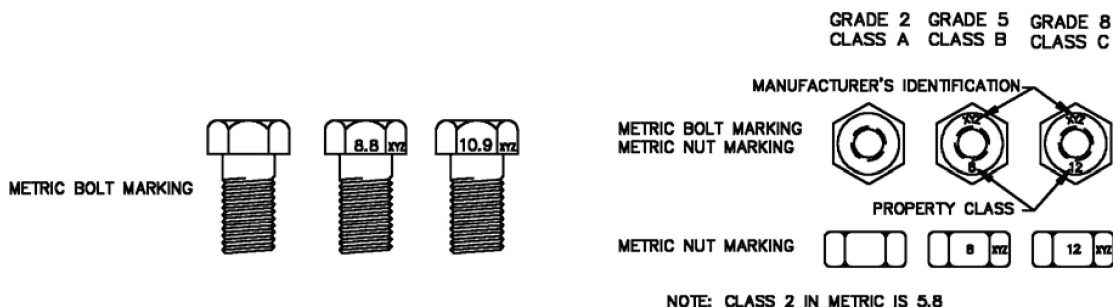
Torque Specifications (Cont'd)

Metric Hardware and Lock Nuts

TORQUE CHARTS Minimum Hardware Tightening Torques

Normal Assembly Applications
(Metric Hardware and Lock Nuts)

Nominal Size	Class 5,8		Class 8,8		Class 10,9		Lock nuts
	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Class 8 W / CL. 8,8 Bolt
M4	1.7 N•m (15 in.-lb.)	2.2 N•m (19 in.-lb.)	2.6 N•m (23 in.-lb.)	3.4 N•m (30 in.-lb.)	3.7 N•m (33 in.-lb.)	4.8 N•m (42 in.-lb.)	1.8 N•m (16 in.-lb.)
M6	5.8 N•m (51 in.-lb.)	7.6 N•m (67 in.-lb.)	8.9 N•m (79 in.-lb.)	12 N•m (102 in.-lb.)	13 N•m (115 in.-lb.)	17 N•m (150 in.-lb.)	6.3 N•m (56 in.-lb.)
M8	14 N•m (124 in.-lb.)	18 N•m (159 in.-lb.)	22 N•m (195 in.-lb.)	28 N•m (248 in.-lb.)	31 N•m (274 in.-lb.)	40 N•m (354 in.-lb.)	15 N•m (133 in.-lb.)
M10	28 N•m (21 ft.-lb.)	36 N•m (27 ft.-lb.)	43 N•m (32 ft.-lb.)	56 N•m (41 ft.-lb.)	61 N•m (45 ft.-lb.)	79 N•m (58 ft.-lb.)	30 N•m (22 ft.-lb.)
M12	49 N•m (36 ft.-lb.)	63 N•m (46 ft.-lb.)	75 N•m (55 ft.-lb.)	97 N•m (72 ft.-lb.)	107 N•m (79 ft.-lb.)	138 N•m (102 ft.-lb.)	53 N•m (39 ft.-lb.)
M16	121 N•m (89 ft.-lb.)	158 N•m (117 ft.-lb.)	186 N•m (137 ft.-lb.)	240 N•m (177 ft.-lb.)	266 N•m (196 ft.-lb.)	344 N•m (254 ft.-lb.)	131 N•m (97 ft.-lb.)
M20	237 N•m (175 ft.-lb.)	307 N•m (226 ft.-lb.)	375 N•m (277 ft.-lb.)	485 N•m (358 ft.-lb.)	519 N•m (383 ft.-lb.)	671 N•m (495 ft.-lb.)	265 N•m (195 ft.-lb.)
M24	411 N•m (303 ft.-lb.)	531 N•m (392 ft.-lb.)	648 N•m (478 ft.-lb.)	839 N•m (619 ft.-lb.)	897 N•m (662 ft.-lb.)	1160 N•m (855 ft.-lb.)	458 N•m (338 ft.-lb.)





www.loftness.com

Loftness Specialized Equipment, Inc.
650 So. Main Street • PO Box 337 • Hector, MN 55342
Tel: 320.848.6266 • Fax: 320.848.6269 • Toll Free: 1.800.828.7624

Printed in USA
© Loftness 2025