LOFTNESS™



GRAINLOGIX™

GRAIN BAG STORAGE SYSTEMS

XLB10 Grain Bag Loader

Owner's Manual and Parts Book
(Originating w/Serial Number 74-504)

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

N39043 Rev. M

01.21.22

LOFTNESS SPECIALIZED EQUIPMENT, INC.
LIMITED WARRANTY POLICY

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

All Loftness products have a one (1) year limited warranty. The XLB10 Grain Bag Loader has a two (2) 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, hereinafter referred to as LOFTNESS, a manufacturer of quality machinery since 1956, 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.

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 receive 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;
- Improper knife replacement;
- Missing knives;
- Striking foreign objects
- Lack of lubrication
- Failures caused by running in an "out-of-balance" condition;
- Tires;
- Conveyors;
- Auger wear;
- Saw blades;
- Brakes and brake pads; and
- Hydraulic hoses damaged by being caught in "pinch points" or by moving parts.

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 excluded from this limited warranty.** The remedies set forth in this warranty are the only 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 2020)


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GRAIN BAG STORAGE SYSTEMS

To the Dealer:

In order to ensure that your customer's unit will provide many years of trouble free service, please ensure that the following Pre-Delivery Inspection has been done. Refer to manual for specifications.

PRE-DELIVERY INSPECTION

____ All fasteners are tight.

____ Grease PTO shaft (u-joints and slide tube).

____ Grease all grease zerks.

____ PTO shields in place and rotate freely.

____ Driveshaft key stock installed and secure.

____ Bearing locking collar set screws are tight.

____ Set screws on the drive sprockets are tight.

____ Drive chain tensioned correctly (1/8" to 1/4" deflection).

____ Gearbox oil level(s) are checked to manual specifications.

____ Wheel nuts are tight, 6 bolt hub (100 FT-LB), 8 bolt hub (135 FT-LB).

____ Axle cylinder stop is with the machine.

____ Clean out covers in place and secure.

____ All safety decals in place and legible.

____ All safety lights work.

____ Paint scratches touched up.

Model specific

____ Bag roller pivots freely and locks easily (GBU10, GBU12).

____ Hopper and swing auger u-joints greased (GBA, XBA, GBL12).

____ Electric / Hydraulic winch operates (all except GBU10).

____ Brake wheel turns freely, brakes bled, 1000 PSI maximum brake setting (GBL10, XLB10, GBL12).

____ Check hydraulic tank level, centered in gauge (GBU12).

Run In

____ Hydraulic pressure checked for leaks and operation of all functions of unit.

____ PTO shaft operates correctly.

Approximate set up time per unit

GBU10: 3 hours	XLB10: 6 hours	GBL12: 12 hours
GBL10: 4 hours	XLB10, XBA: 12 hours	GBL12C: 8 hours
GBL10, GBA: 8 hours	GBU12: 4 hours	BB10-300: 2 hours

To the Customer

Use this manual as your first source of information about the machine. If you follow the instructions in the manual, your Grain Bag equipment will perform at its optimum for many years.

The photos and line drawings used in this manual are of a production unit, but due to our program of continuous improvement, your machine may vary slightly from the one shown. We reserve the right to make changes and improvements at any time.


LOFTNESS

Warranty

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Owner Information

Thank you for your decision to purchase a XLB10 Grain Bag Loader from Loftness. To ensure maximum performance of your machine, it is mandatory that you thoroughly study the owner's manual and follow its recommendations. Proper operation and maintenance are essential to prevent injury or damage and to maximize machine life.

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 these instructions.

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

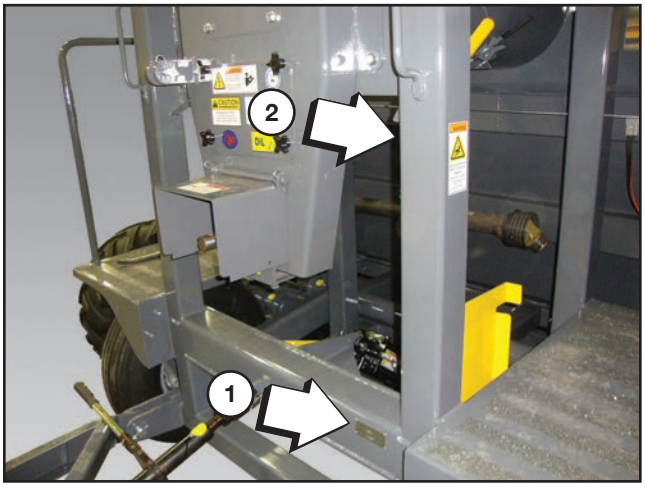
Continuous improvement and advancement of Loftness products may result in changes to your equipment that may not be reflected in this publication. Loftness reserves the right to make product improvements to the machine at any time. Although great care has been taken to ensure the accuracy of this publication,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

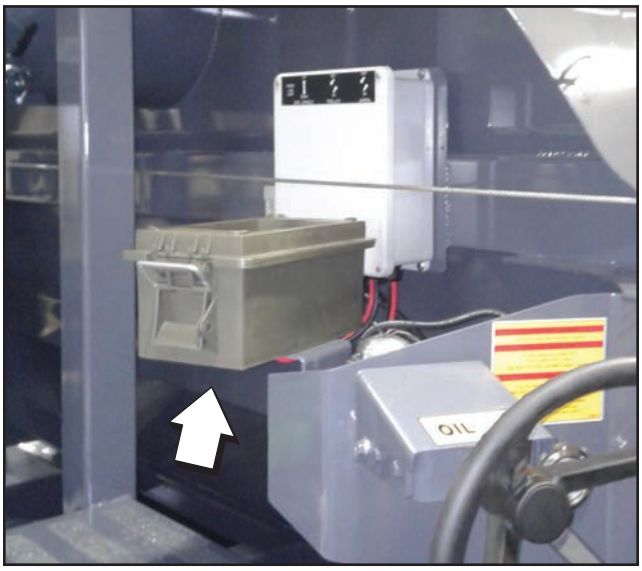
Serial Number Location



Always use your serial number when requesting information or when ordering parts. This information is on the serial tag (1).

NOTE: *The machine's serial number is also stamped in this area (2).*

Manual Storage



Keep the owner's manual and the entire documentation packet in the storage compartment provided on your grain bag loader. The owner's manual must be available for all operators.


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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

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 have read this owner's manual, and thoroughly understand safe and correct installation, operation and maintenance procedures.

Make sure the machine is installed correctly before being placed in service. At regular intervals thereafter, the machine 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 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 he or she has read the owner's manual and is 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 auger 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 auger accordingly.
- It is the operator's responsibility to be aware of machine operation and work area hazards at all times.
- 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 area of operation all foreign objects such as sticks, wire, rocks, etc., that might become tangled in the augers. These articles can damage the machine or might be thrown and strike other objects.
- Disengage PTO, clutch hydraulic valve and shift tractor into neutral or park before starting engine.
- Never operate the machine with a 1000 RPM to 540 RPM adapter.

Transporting Safety

- Be sure the machine is in transport position with the transport axle fully raised and cylinder stops in place before transporting on a roadway.
- Make sure all lights are hooked up and working before transporting on a roadway.
- Do not exceed speed rating (20 mph) on the factory provided tires.
- Disengage PTO, clutch hydraulic valve and shift tractor into neutral or park before starting engine.

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.

Maintenance Safety (Cont'd)

- 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 use a piece of wood to check for leaks.

⚠	**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!*

PTO Safety

- Keep all guards and shields in place when operating the PTO. Replace any damaged or missing guards and shields before operating the PTO.
- Keep children, bystanders and other workers away from the machine while it is operating or while the PTO is engaged. No riders allowed.
- 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.
- Read and understand the tractor operation and maintenance manual regarding safe and proper operation for PTO driven equipment.
- Never step over or crawl around the equipment while the PTO is engaged; entanglement could occur.
- Do not exceed 540 RPM PTO speed.
- Disengage PTO driveline and place in the stored position when the machine is transported.
- Never use a steel hammer when connecting or disconnecting a PTO shaft.
- Engage and disengage the PTO slowly at idle speed to prevent unnecessary stress to the driveline.
- DO NOT USE PTO ADAPTERS OF ANY KIND.

Use only recommended shearbolts.

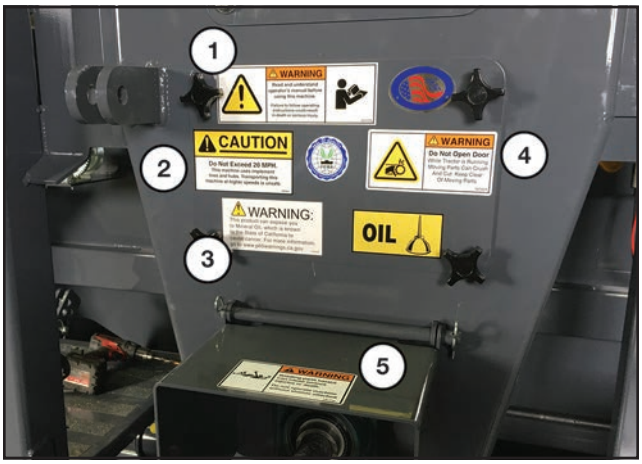
California Proposition 65 Warning

⚠	**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 Decal Locations

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

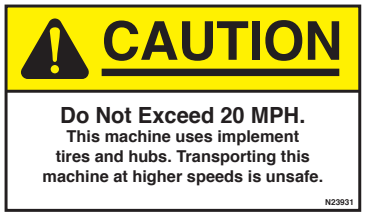


1



Part No. N22763

2



Part No. N23931

3



Part No. 203264

4



Part No. N23505

5



Part No. 4189



6



Part No. N23906

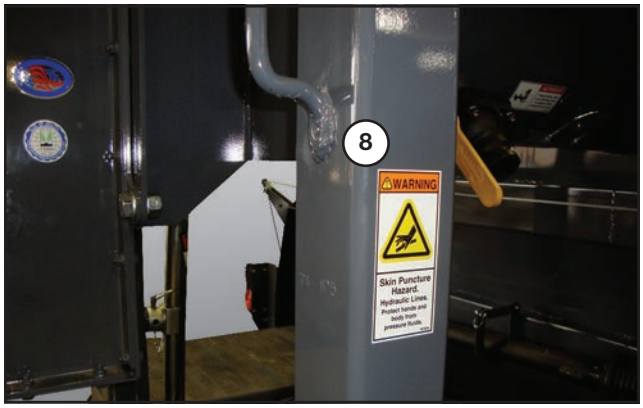


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Part No. N23907

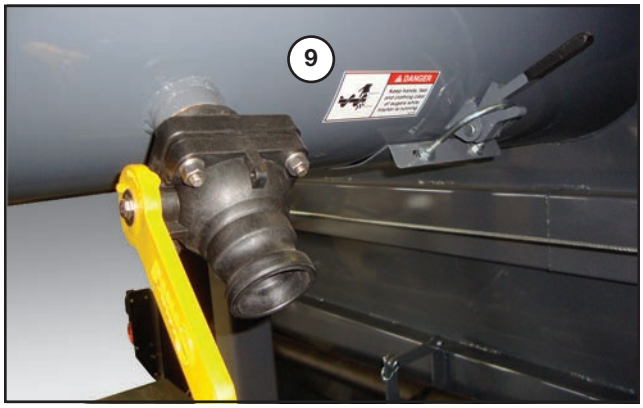
Safety Decal Locations (Cont'd)



8



Part No. N23899



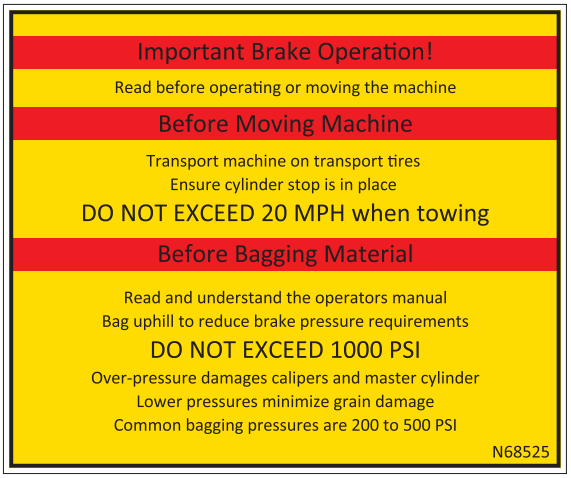
9



Part No. N22764



10



Part No. N68525

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" starting on page 6.*

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

Part No. 4132



Part No. 4136



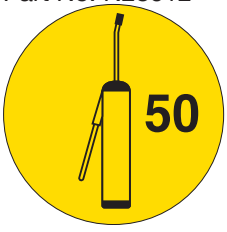
Part No. N28010



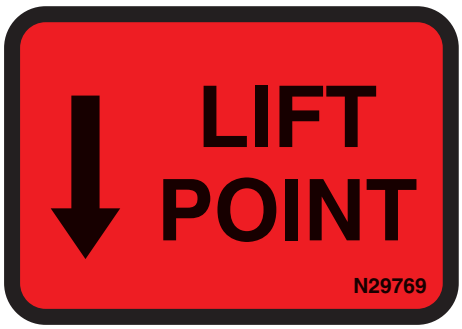
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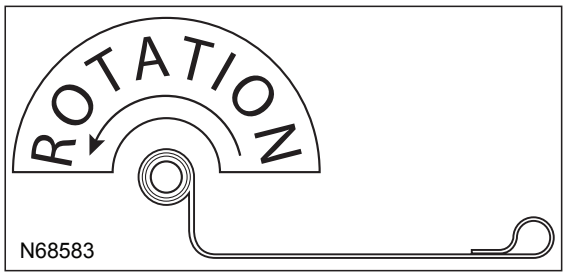
Part No. N28012



Part No. N29769



Part No. N68583



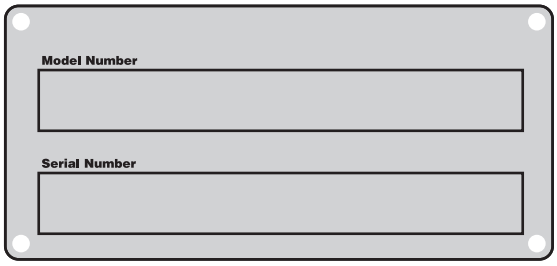
Part No. 4138



Part No. N13517



Part No. N13721



Machine Decals and Signs (Cont'd)

Part No. N35225



Part No. N35231



Part No. N35226



Part No. N35230



Part No. N35228



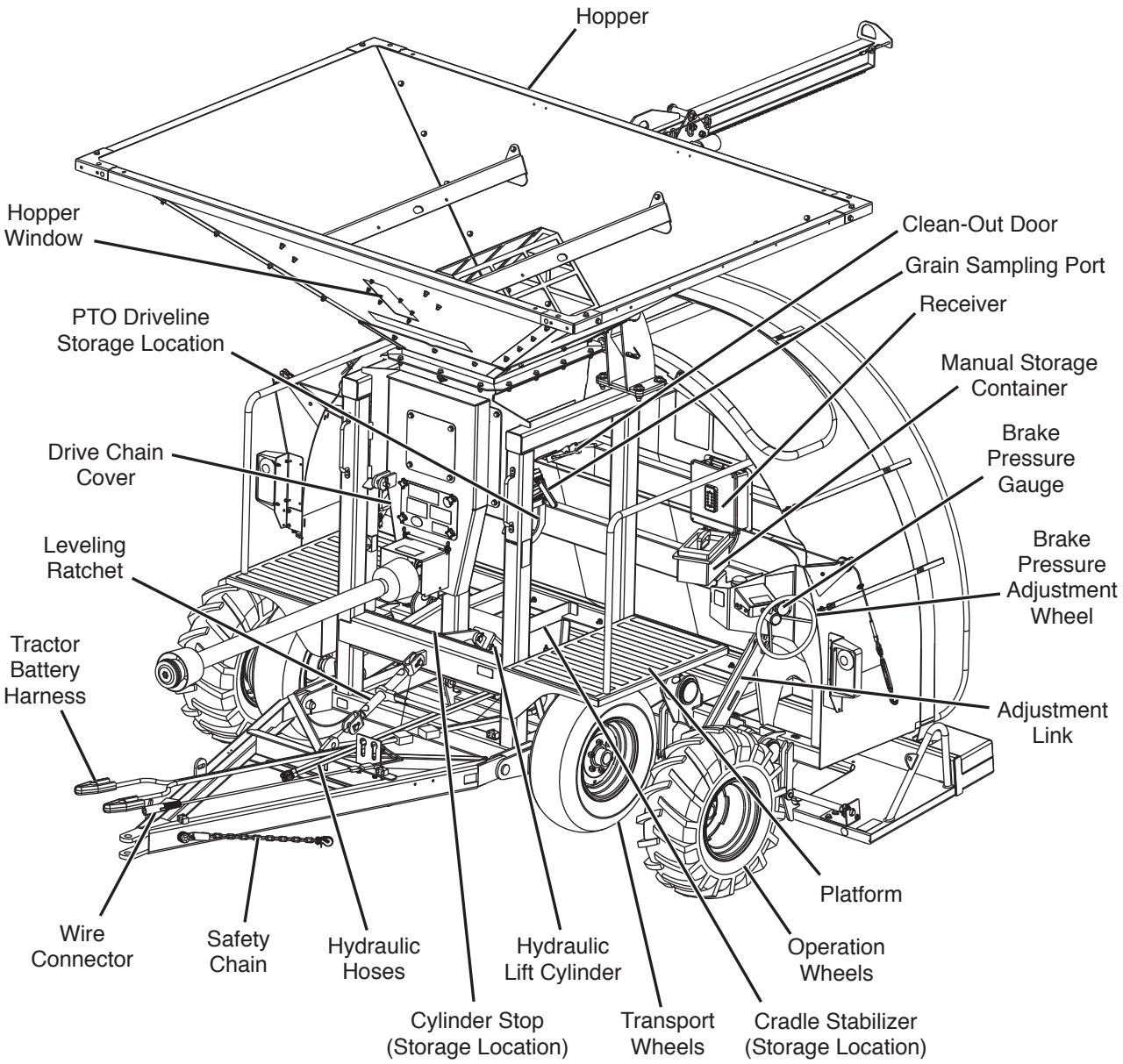
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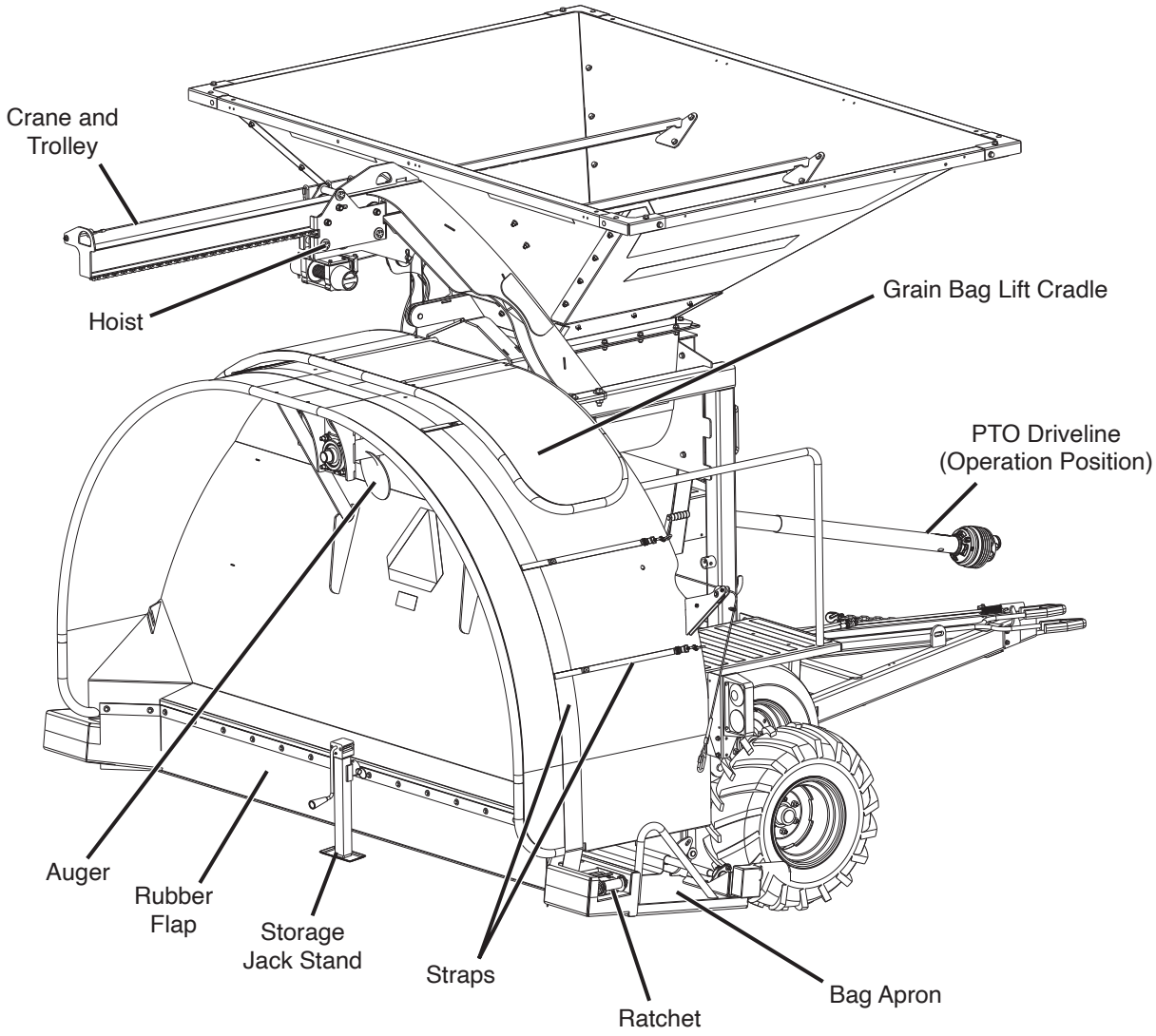
Part No. N33102



Grain Bag Loader Identification



Grain Bag Loader Identification (Cont'd)



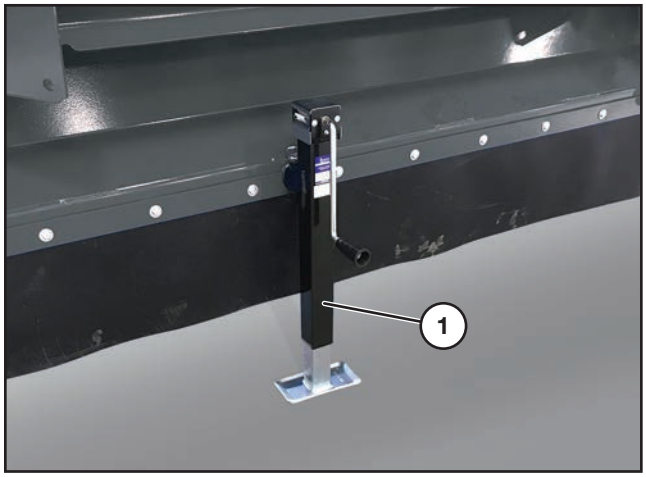

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Initial Set-up

Some components of the XLB10 Grain Bag Loader are shipped disassembled and need to be removed from their shipping positions, assembled, and secured to their operating position. It is recommended that an overhead hoist, or other lifting device of adequate size, be used for lifting and installing the components. These include the hopper assembly, trolley assembly, and cradle.

NOTE: *The hoist or lifting device must be in good condition and of adequate size to lift the XLB10 Grain Bag Loader components.*

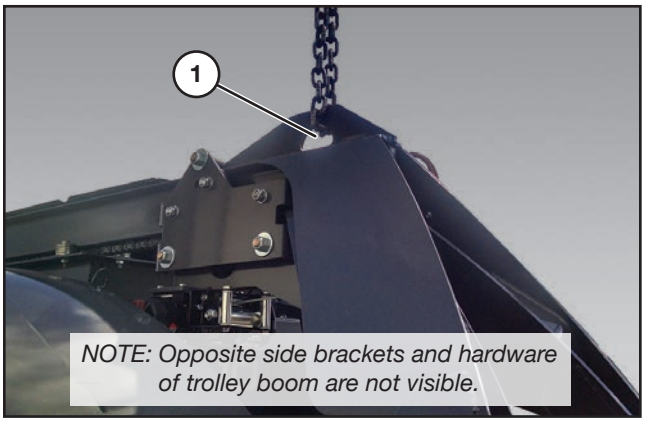
NOTE: *Use lifting slings, straps, or chains that are in good condition and of adequate size to lift the XLB10 Grain Bag Loader components.*



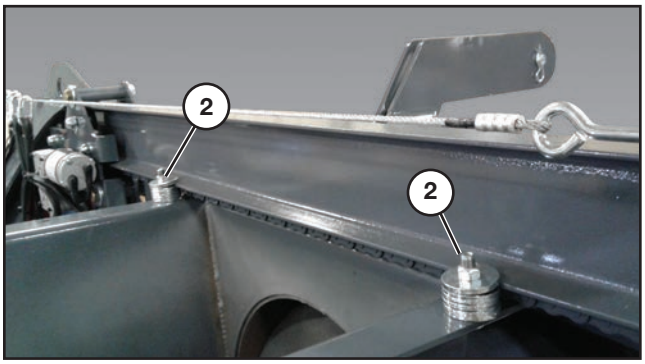
⚠	**WARNING:** *Leave the jack (1) in position until the grain bag loader is connected to a tow vehicle. The grain bag loader has negative tongue weight which will cause the front hitch to raise rapidly and may result in serious injury.*

For hitch set-up instructions, see “Hitch Set-up” on page 22.

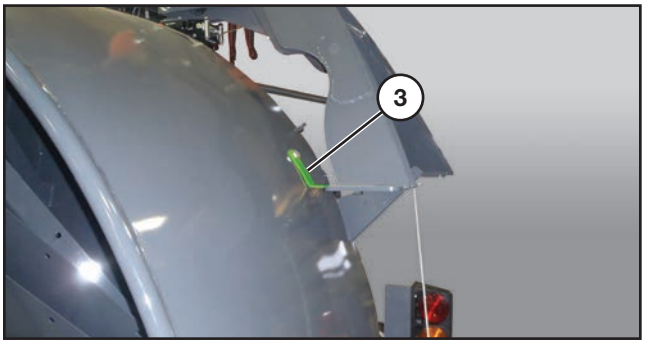
Removing Trolley Assembly



Connect the trolley to a hoist at the lifting point (1) on the trolley assembly as shown, keeping the lifting chain slightly taut.



Remove the shipping plates and hardware (2) at the four points (front and back) on the trolley boom.



Remove the hardware (3) on the green shipping bracket at the right side of the machine.

NOTE: *Remove any remaining shipping brackets used to secure the trolley.*

Initial Set-up (Cont'd)

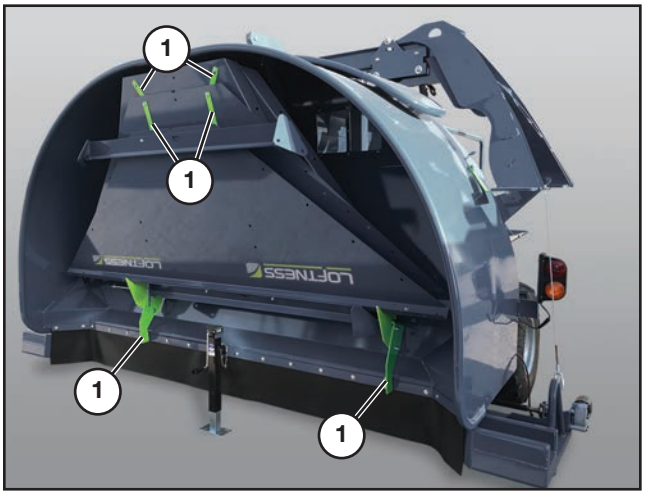
Removing Trolley Assembly (Cont'd)



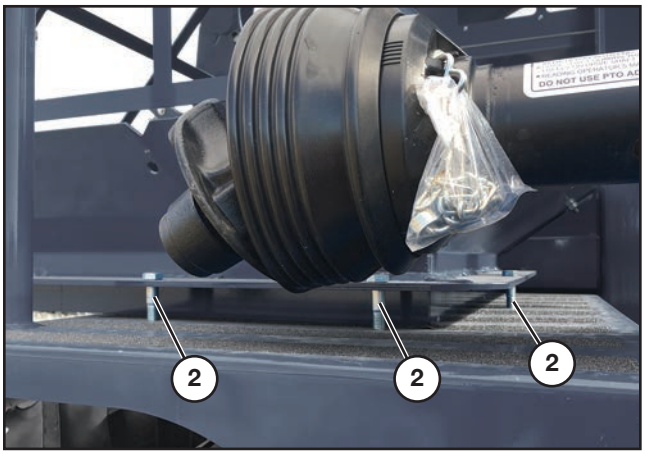
Slowly raise and move the trolley assembly off of the grain bag loader and set aside.

NOTE: *When lifting, take care to avoid hitting the winch motor against the grain bag loader.*

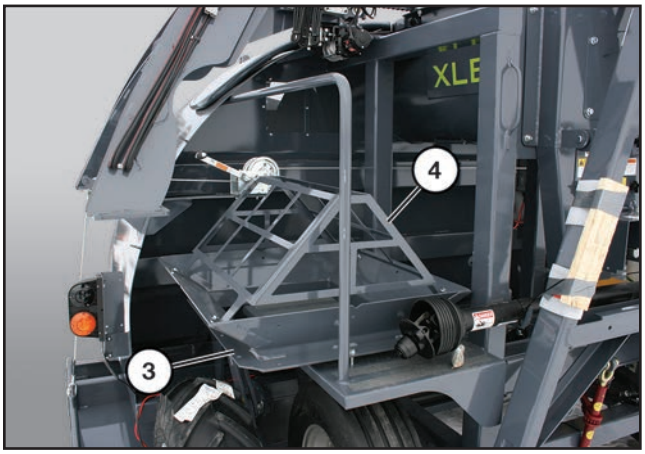
Removing Hopper Components



With two, or possibly three people, remove the hopper components from the rear of the machine by removing the green shipping brackets (1).



Remove the hardware (2) connecting the hopper base to the platform (3 places).



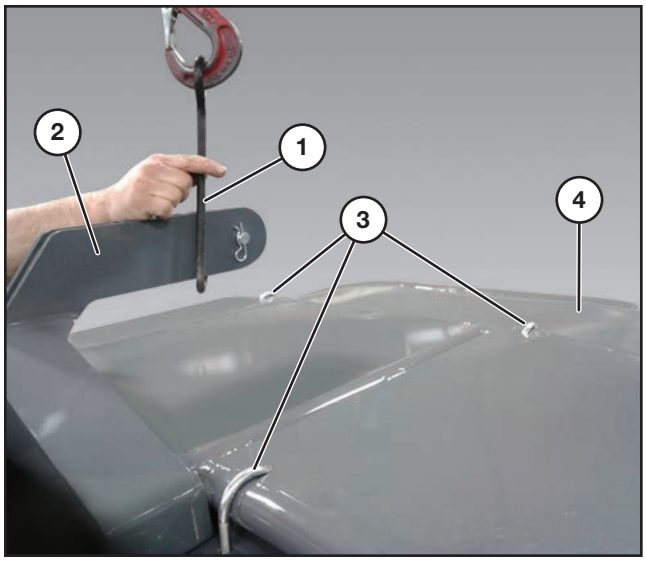
Remove the hopper base (3) and hopper screen (4) from the shipping position and set aside.

⚠	**WARNING:** *The grain bag loader hopper base is heavy. Always use two people to lift the hopper base.*

NOTE: *Some hardware used to secure shipping brackets and/or components is permanent and must be retightened after removal of all components.*

Initial Set-up (Cont'd)

Cradle Removal

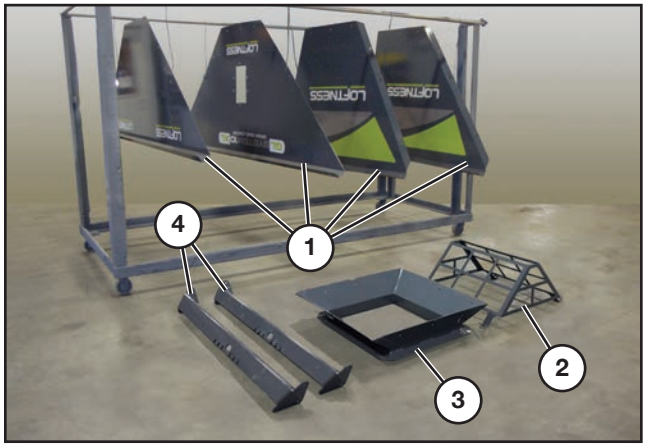


Using a hoist, attach a strap, chain, or hook (1) to the cradle (2).

Remove the hardware (3) connecting the cradle to the grain bag loader tunnel (4 places).

Slowly raise and move the cradle assembly off of the grain bag loader and set aside.

Main Hopper Assembly



Separate and inspect the following hopper components:

1. Four side panels
2. One screen
3. One hopper base
4. Two hopper braces



Open and remove the contents of the pail.

The pail should contain the following:

1. Four corner braces
2. One bag of 3/8" x 1" carriage bolts with 3/8" nuts (hopper)
3. One bag of 1/2" x 1-1/4" bolts (hopper base and braces)
4. One bag of 1/2" nuts (hopper, hopper base, and braces)
5. One bag of 1/2" x 1" bolts (hopper)
6. One bag of 3/4" x 3" bolts, washers, and nuts (for trolley boom)
7. One bag of 3/8" X 1" bolts, 3/8" nuts, 3/8" washer (for ratchet hardware)
8. One 4 in. (10.16 cm) ratchet strap
9. Six 1 in. (2.54 cm) straps
10. One tractor battery harness

NOTE: *If any of the hopper components are damaged or missing, contact your Loftness dealer.*

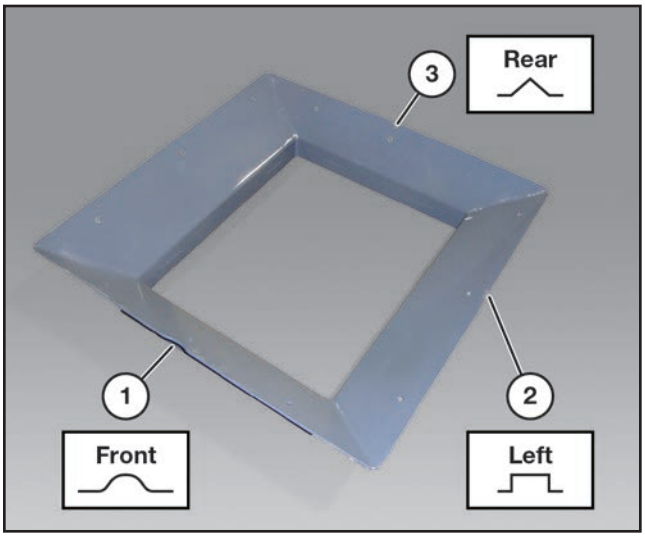
Assembly Notes:

- Only Items 1 through 5 will be needed for assembling the hopper.
- The following procedure requires two people, and possibly a third person at times, during the assembly process.
- Use an aligning punch to assist in installing bolts that may be difficult to insert.
- Cut six 2 x 4 boards at 37 in. (94 cm). These will be used to support the hopper panels during assembly.

NOTE: *See pages 90 and 91 for hopper parts breakdown and identification.*

Initial Set-up (Cont'd)

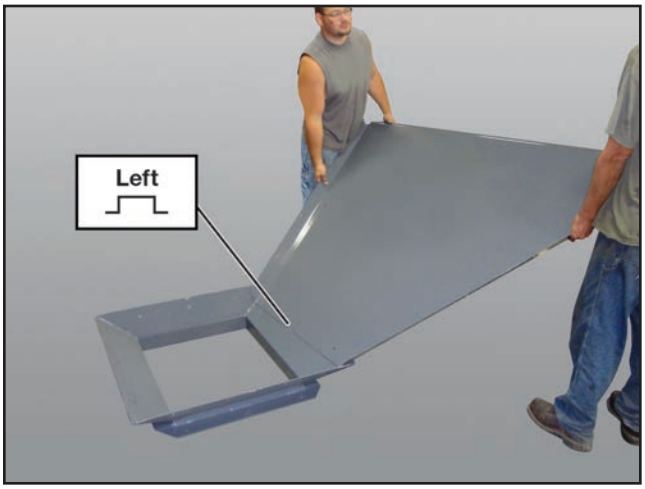
Main Hopper Assembly (Cont'd)



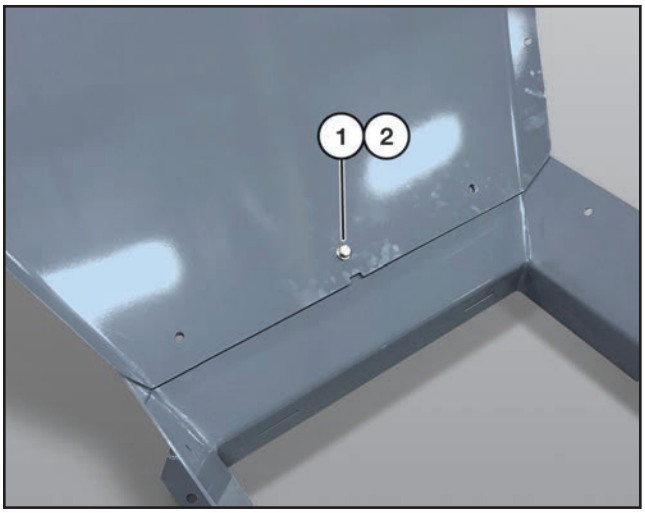
Place the hopper base on the ground.

Note the orientation of the corresponding alignment cutouts in the hopper base. The semicircle cutout (1) will be the front of the hopper, the rectangular cutout (2) will be the left side, and the V-groove (3) will be at the rear. There is no alignment cutout for the right side. Each hopper panel has the corresponding cutout to facilitate assembly.

Left Side Panel

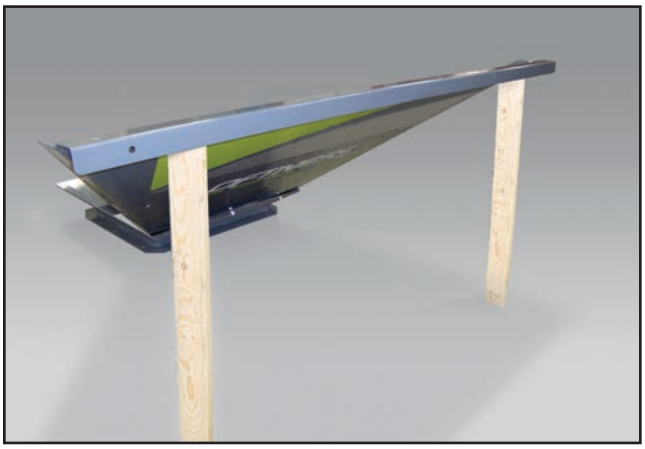


Using two people, place the left side panel (with rectangular cutout) into position inside the hopper base.



Insert a 1/2" x 1" bolt (1) into the center hole from inside of the hopper and through the hopper base. Hand-tighten a 1/2" nut (2) onto the bolt on the outside of the hopper base.

NOTE: *Do not tighten bolt and nut at this time.*



Use two of the 37 in. (94 cm) braces to support the panel while the remaining panels are being added.

Initial Set-up (Cont'd)

Main Hopper Assembly (Cont'd)

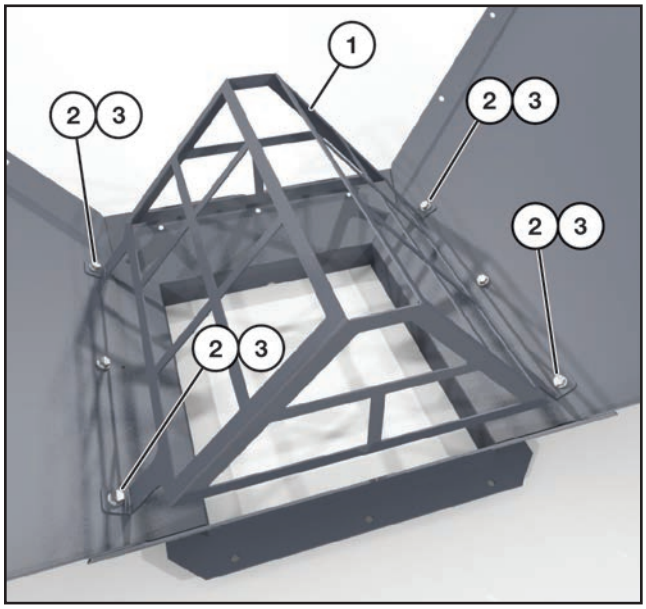
Right Side Panel



Assemble the right side panel to the hopper base (reminder, there is no corresponding alignment cutout for this panel). Follow the same procedure as the left side panel (bolt and nut in center hole only). Support the panel with braces.

NOTE: *Do not tighten bolt and nut at this time.*

Hopper Screen

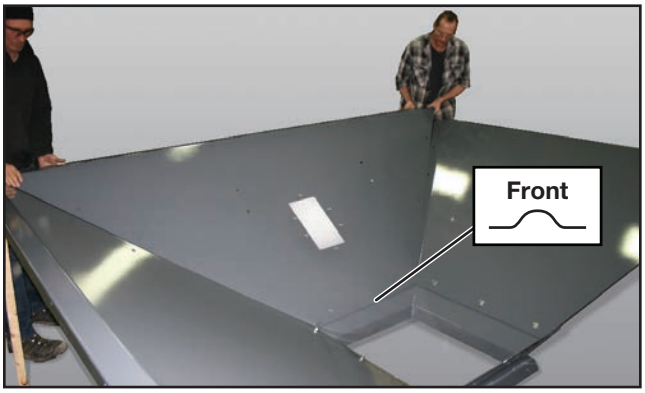


Position the hopper screen (1) as shown and insert 1/2" x 1" bolts (2) from the inside through the holes in the hopper screen legs, hopper panel, and base. Hand-tighten a 1/2" nut (3) onto each bolt on the outside of the hopper (4 places).

Use an alignment punch if necessary to align the holes of the hopper base, panel, and screen leg.

NOTE: *Do not tighten bolts and nuts at this time.*

Front Panel

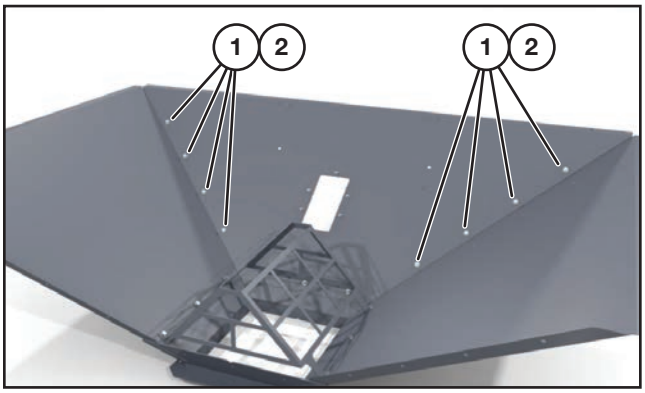


Position the front panel (with semi-circular alignment cutout) INSIDE the two hopper side panels and the hopper base.

Support the panel with a brace.

Secure the front panel to the hopper base using three 1/2" x 1" bolts. Hand-tighten a 1/2" nut onto each bolt on the outside of the hopper base.

NOTE: *Do not tighten bolts and nuts at this time.*



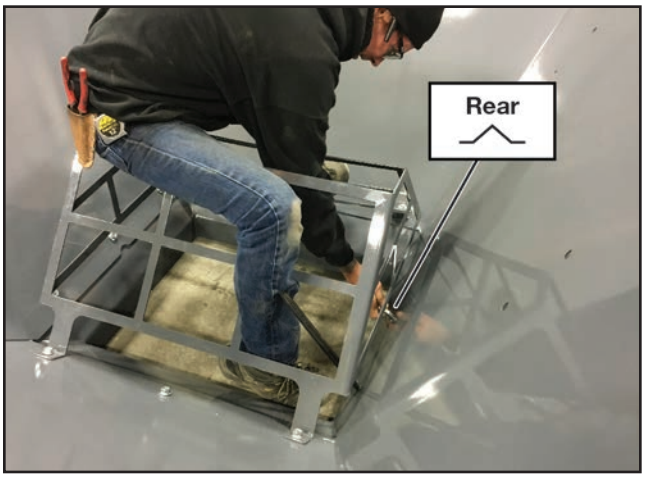
Insert 1/2" x 1" bolts (1) connecting the panels from the inside (4 at each corner). Hand-tighten a 1/2" nut (2) onto each bolt on the outside of the hopper.

NOTE: *Do not tighten bolts and nuts at this time.*

Initial Set-up (Cont'd)

Main Hopper Assembly (Cont'd)

Rear Panel

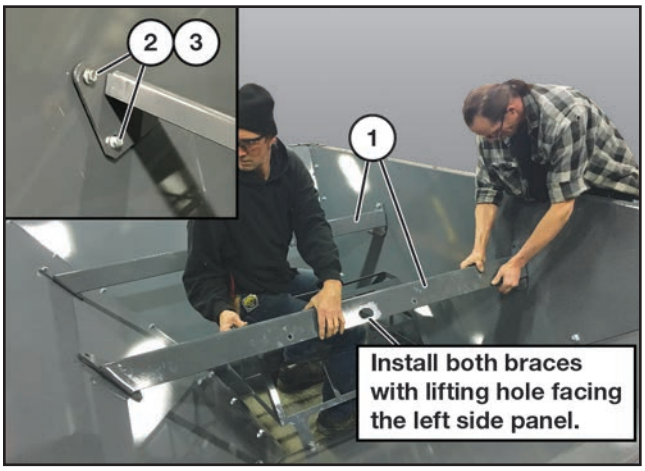


With one person inside the hopper, position the rear panel (with V-groove alignment cutout) INSIDE the hopper base and side panels following the same procedure as the front panel.

NOTE: *Do not tighten bolts and nuts at this time.*

NOTE: *Worker can remain in the hopper to assist with the installation of the two braces, and for the final tightening of all hopper hardware.*

Hopper Braces

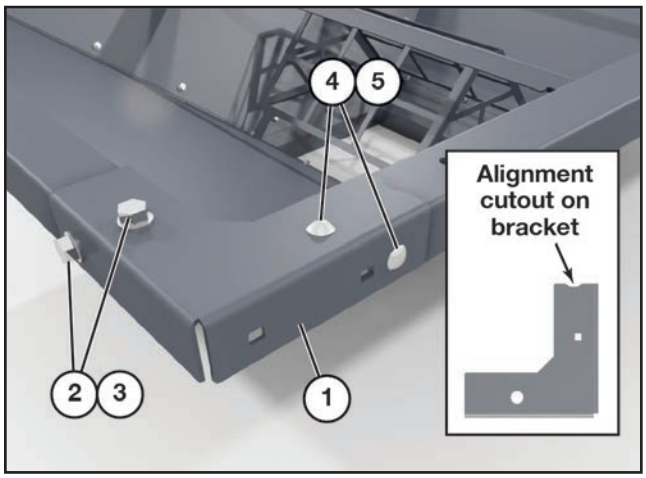


Install the two hopper braces (1). The wide side of each bracket (side with lifting hole) will face the left side of the hopper.

Secure the braces to the hopper using two 1/2" x 1-1/4" bolts (2) at each brace end. Hand-tighten a 1/2" nut (3) onto each bolt on the outside of the hopper.

NOTE: *Do not tighten bolts and nuts at this time.*

Corner Brackets



The four corners have cutouts that correspond with the cutouts in the base and panels. Use these cutouts to determine correct location for each corner. Install one corner bracket (1) and align with holes in the hopper panels. Insert one 1/2" x 1" bolt (2) from the top and secure on the underside with a 1/2" nut (3). Insert one 3/8" x 1" carriage bolt (4) in the opposite bracket hole and secure with a 3/8" nut (5). Insert the remaining corner bracket hardware.

NOTE: *Do not tighten bolts and nuts at this time.*

Repeat this procedure for the bracket on the opposite corner, and then follow with the remaining two corner brackets.

Tightening Hardware

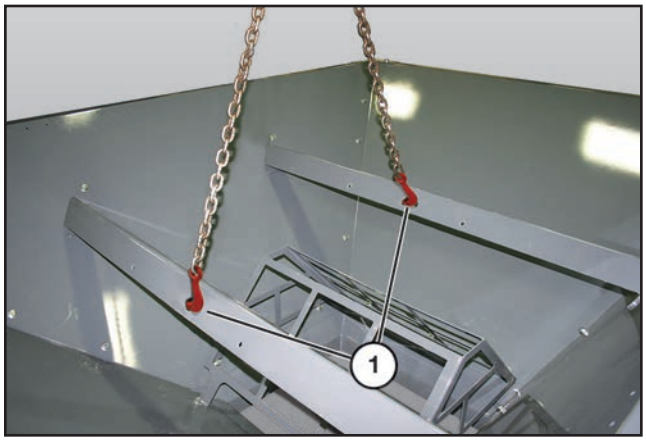
With all four corner brackets installed, tighten the four bolts and nuts on each corner.

Tighten all bolts and nuts securing the four panels and screen to the hopper base.

Tighten all the bolts and nuts along the panel seams.

Initial Set-up (Cont'd)

Placing Hopper Assembly



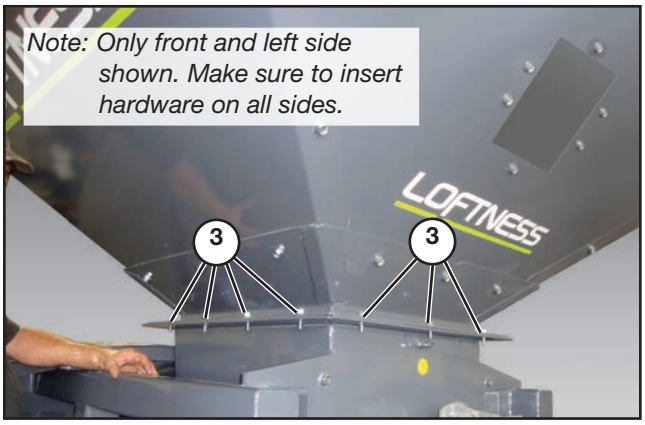
Using a hoist, attach a strap or chain to the two lift points (1) on the hopper braces.

⚠	**WARNING: Crushing hazard.** *Do not stand under the hopper while it is being raised, or while it is the raised position.*



Slowly raise and move the hopper over the discharge auger housing, making sure the hopper is in the proper orientation (semicircular alignment cutout to the front).

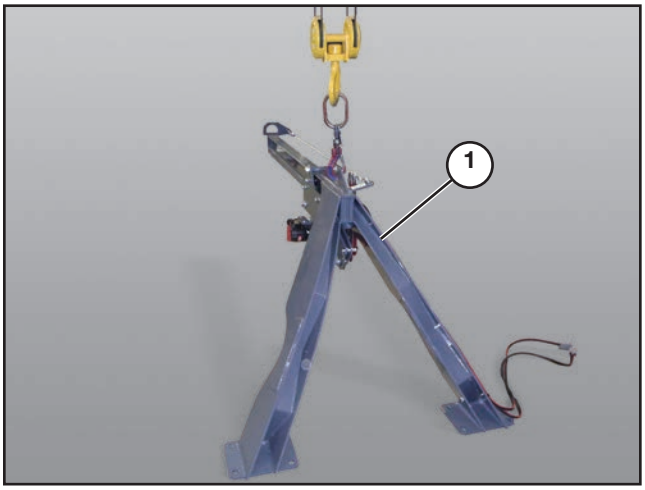
Lower the hopper into position.



Insert the fourteen 1/2" x 1-1/4" bolts and nuts (3) securing the base to the grain bag loader and tighten. See "Torque Specifications" on page 102.

Remove the lifting straps from the hopper screen.

Trolley and Cradle Assembly

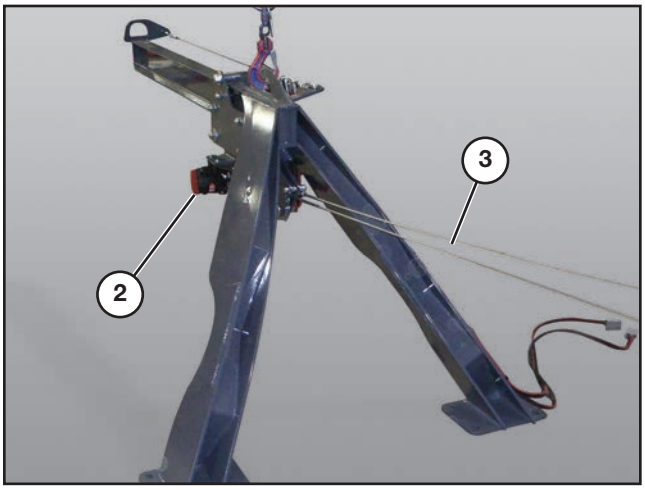


Using a hoist, secure a chain to the trolley assembly (1) as shown.

Slowly raise the trolley assembly up until the winch is about shoulder level.

Initial Set-up (Cont'd)

Trolley and Cradle Assembly (Cont'd)



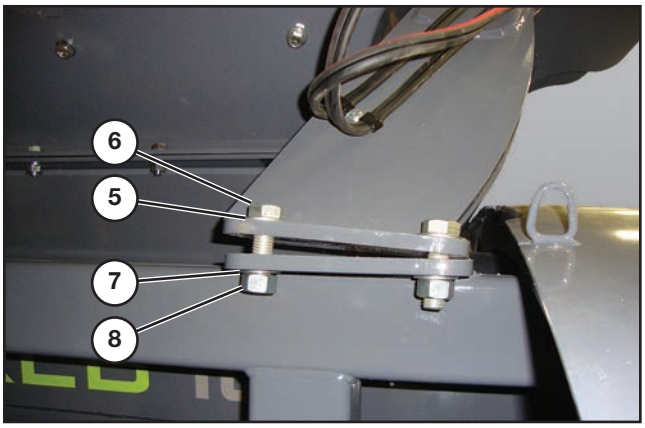
Rotate the clutch lever (2) on the winch to disengage the clutch and allow "free spooling" of the winch drum.

Pull out enough cable to wind around the pulleys on the trolley lift, leaving a large loop of cable (3) for when it is time to wind through the cradle pulley.

Return the lever on the winch to engage the clutch.



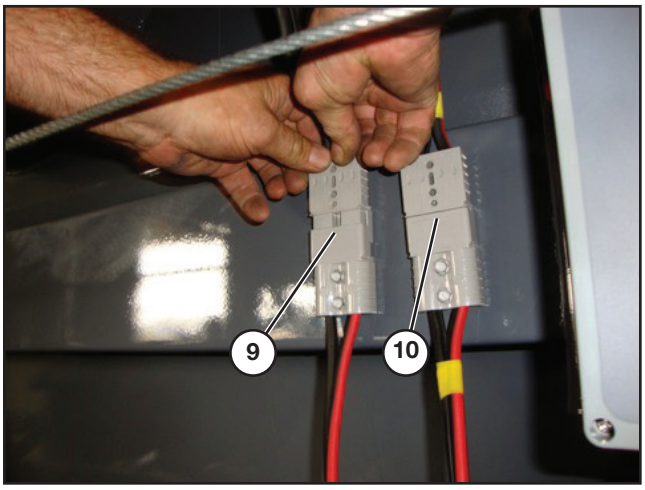
Continue raising the trolley assembly and place into position on the two mounting plates (4) (one on each side).



Using the bag of 3/4" x 3" bolts, washers, and nuts from the shipping pail, place the washer (5) and insert the bolt (6) from the top of the trolley frame and secure on the bottom of the grain bag loader frame with another washer (7), and nut (8)

Repeat this procedure for the remaining holes that secure the trolley assembly to the grain bag loader (8 places - 4 on each side).

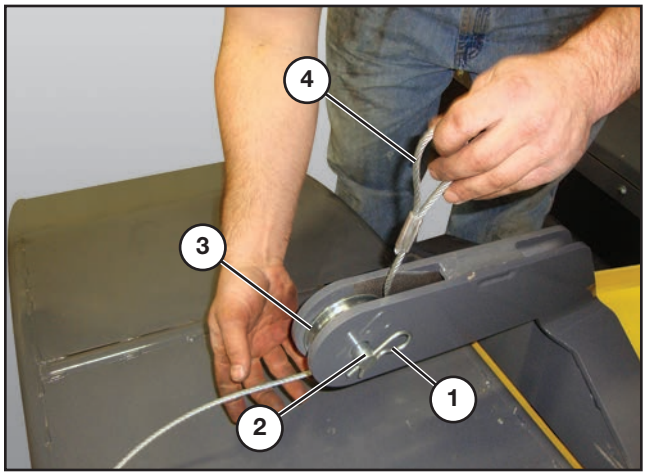
Tighten the bolts and nuts to the proper torque when complete. (See "Torque Specifications" on page 102.)



Connect the trolley motor [trolley in/out] (9) cable and cradle winch [cradle up/down) (10) cable to the wiring harness adjacent to the receiver.

Initial Set-up (Cont'd)

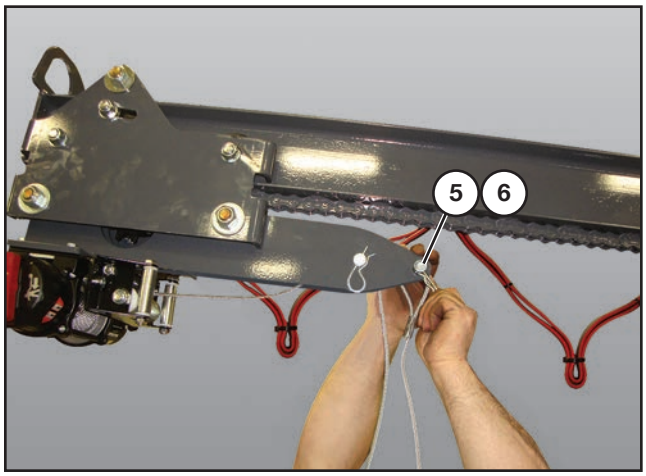
Cradle Connection



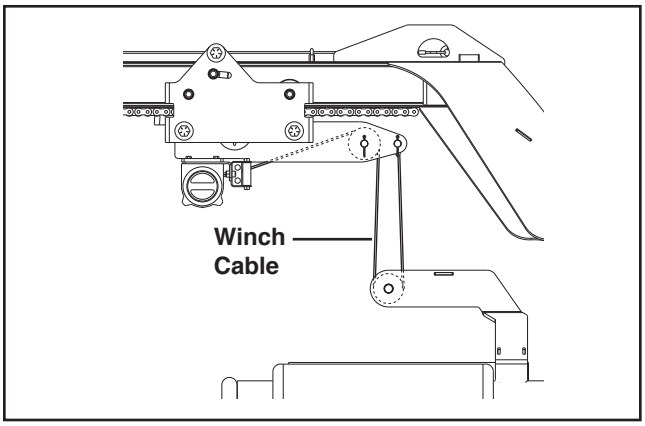
Lay the cradle on the ground directly below the trolley boom.

Remove the retaining clip (1) and pin (2), and slide the cradle pulley (3) out.

Place the loop end of the winch cable (4) between cradle brackets and reinstall the pulley, pin, and retaining clip.



Run pin (5) on trolley lift through the loop end of the cable. Secure with retaining clip (6).



Refer to the illustration above for the winch cable route.



Using the remote (refer to "Remote Control Identification" on page 27), raise the cradle while ensuring the cable is being wound around the winch tightly.



Position and secure the cradle on top of the tunnel.

Initial Set-up (Cont'd)

Hitch Set-up

The PTO driveline is shipped in the storage position. The operation hitch is also shipped in the upright storage position.

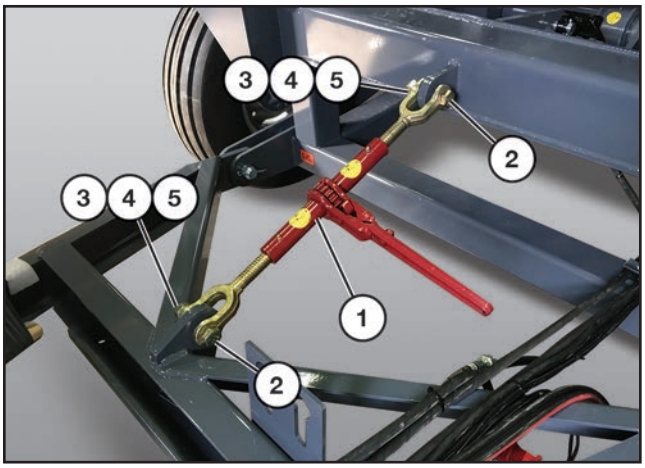
⚠	**WARNING:** *Never attempt to make any adjustments while the tractor engine is running or the key is in the "ON" position in the tractor. Before leaving the operator's position, disengage power to the machine and remove ignition key.*



⚠	**WARNING:** *The grain bag loader hitch is heavy. Always use two people to lower and raise the hitch.*

Remove the retaining clip and pin securing the hitch to the frame (at the gearbox) and lower the operation hitch.

Replace pin and clip back into position on frame.

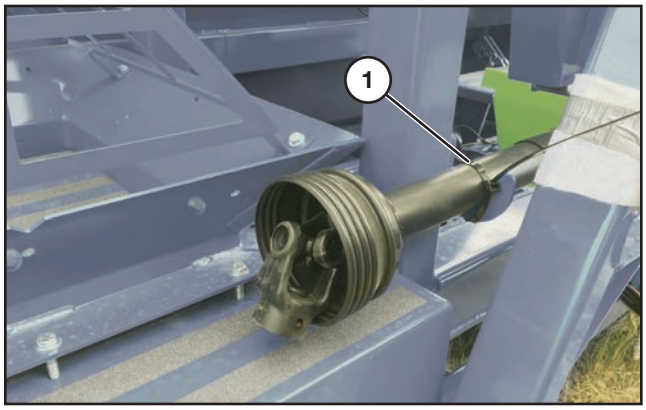


Install the leveling ratchet (1) between the operation hitch and drive housing using the two bolts (2), two flat washers (3), two lock washers (4) and two nuts (5) provided.

Adjust the ratchet so that the top of the hitch is parallel with the top of the frame.

Initial Set-up (Cont'd)

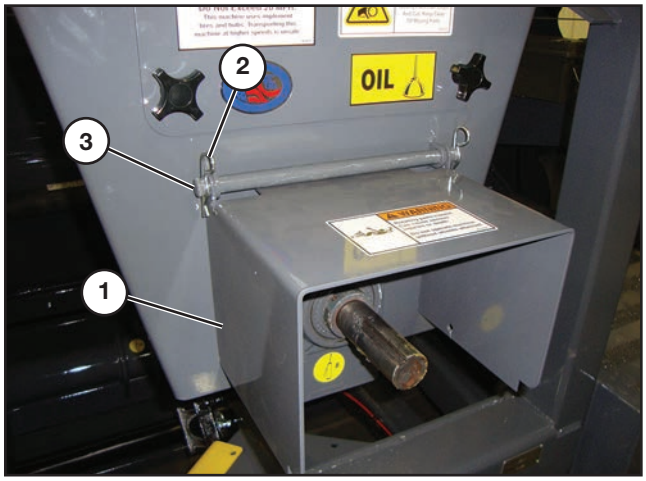
PTO Set-up



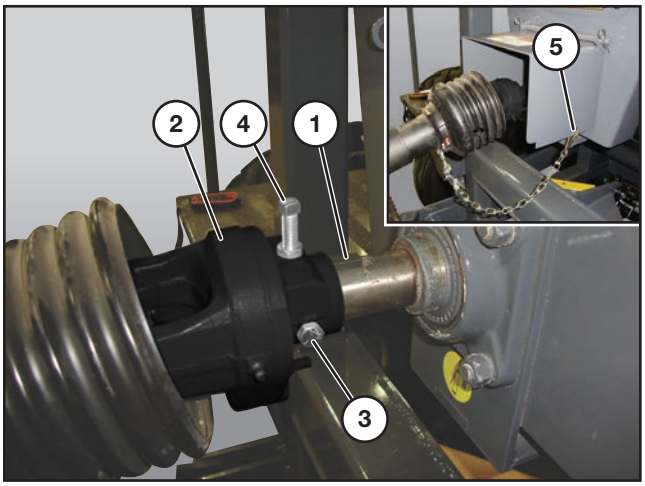
Remove the zip ties (1) (both ends) securing the PTO.

Lift the PTO from the storage cradles and set to the side.

⚠	**CAUTION:** *Periodically check all guards, shields and structural members. Replace or repair anything that could cause a potential hazard.*



Raise or remove the PTO driveline guard (1). Remove the guard by removing one retaining clip (2) and the pin (3).



Install key (1) into the keyway of the grain bag loader shaft. Align the PTO driveline coupler (2) with the key and slide the driveline onto the shaft.

⚠	**CAUTION:** *Never use a steel hammer when connecting or disconnecting a PTO shaft.*

Install the cross bolt (3).

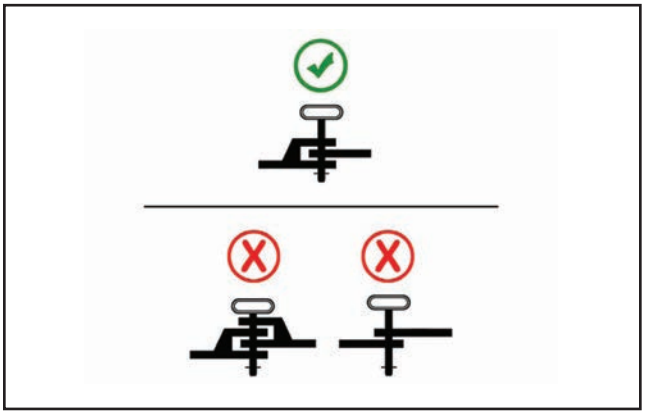
Tighten set screw (4) securing the PTO driveline to the grain bag loader shaft.

NOTE: *Check cross bolt (3) and set screw (4) for tightness after the first hour of operation.*

Lower or install the PTO driveline guard.

IMPORTANT: *Attach the safety chain from the PTO driveline to the driveline shield (5).*

Connecting the Grain Bag Loader

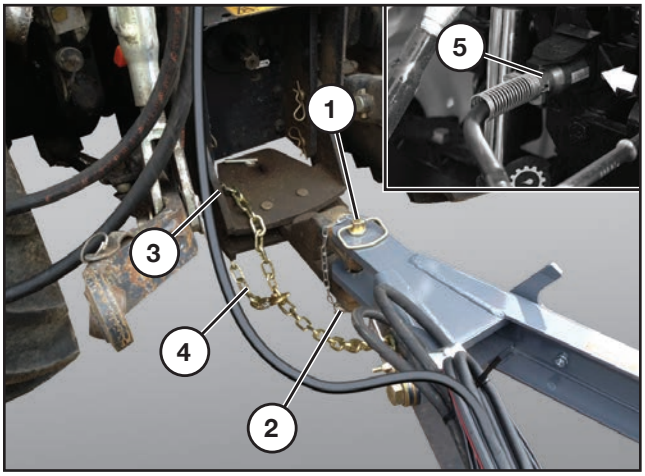


WARNING: *Never use a clevis to clevis type connection to secure the implement to the tractor. The machine could separate from the tractor if a clevis pin fails.*

Safety Chain Requirements:

- Verify that the chain has a load rating equal to or greater than the Gross Vehicle weight.
- Allow no more slack in the chain than necessary for articulation.
- Attach the chain to the towing hitch assembly. Do NOT use an intermediate support as a primary method of attachment.
- Verify that the hitch of the towing vehicle is rated for the gross weight of the towed machine.
- The implement may not exceed 1.5 times the towing vehicle weight.
- Replace the safety chain if one or more links or end fittings are broken, stretched or otherwise damaged or deformed.

Connecting to Tractor



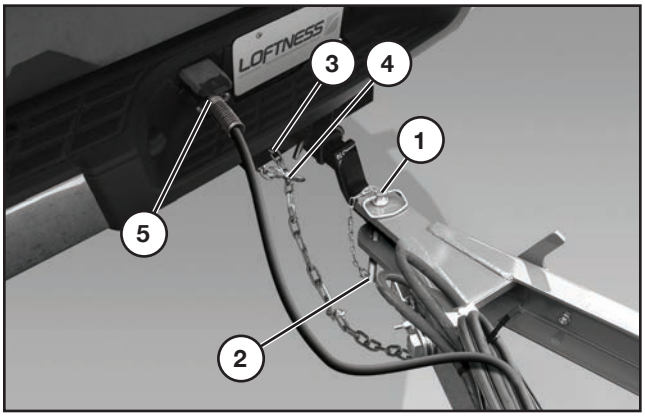
Back the tractor up to the hitch of the loader.

Insert pin (1) (1-1/8 in. to 1-1/4 in. pin) and secure with retaining clip (2).

Install the safety chain around the tractor drawbar (3) and fasten the chain ends together (4).

Connect the 7-pin electrical harness (5) to the tractor's electrical connector.

Connecting to Truck



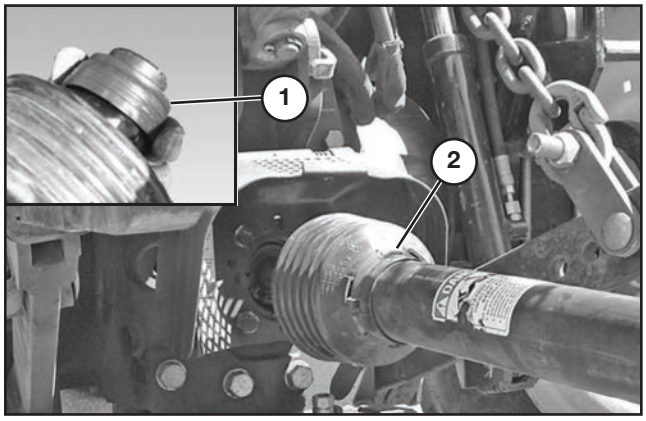
Back the truck up to the hitch of the loader.

Insert pin (1) (1-1/8 in. to 1-1/4 in. pin) and secure with retaining clip (2).

Install the safety chain around the truck's hitch frame (3) and fasten the chain ends together (4).

Connect the wiring (5) for running lights to the connector on the truck.

Connecting the Grain Bag Loader (Cont'd)



Retract sleeve (1), slide the PTO driveline (2) onto the tractor PTO shaft until the sleeve slides forward and locks driveline to shaft. Push and pull the PTO driveline back and forth several times and make sure it is securely attached to the PTO shaft.

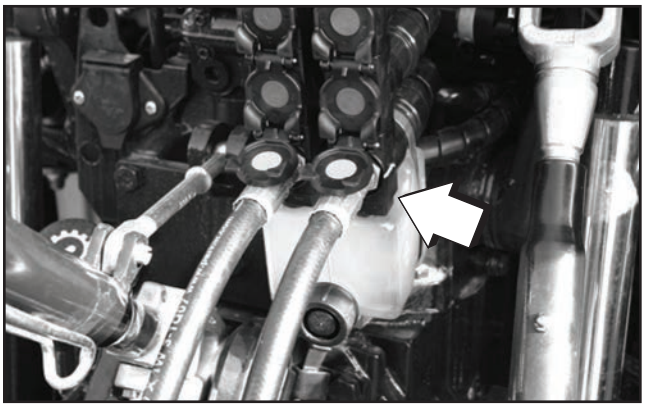
The PTO driveline is telescopic to fit most lengths. The connection should be never more or less than 3-4 inches (7.6-10 cm) away from the tractor connection. If the distance is more or less than that, refer to the PTO driveline manufacturer's literature for procedures for adjusting the length. Also, the PTO angle should not exceed 25°.

⚠	**CAUTION:** *Never use a steel hammer when connecting or disconnecting a PTO shaft.*

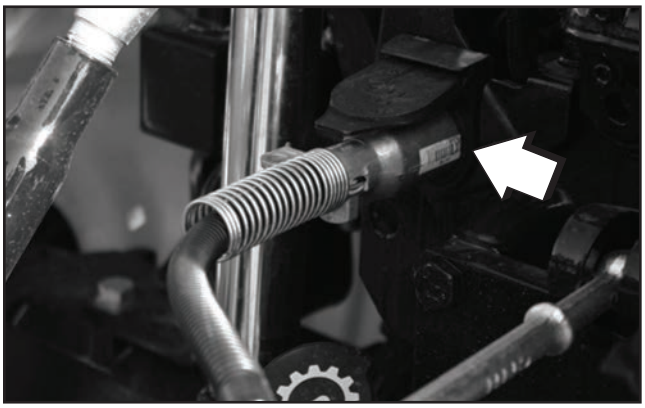
⚠	**CAUTION:** *DO NOT USE PTO ADAPTERS OF ANY KIND.*

⚠	**CAUTION:** *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.*

⚠	**CAUTION:** *Do not operate the PTO at an angle that exceeds 25°.*



Install the pressure and the return hydraulic hoses into the tractor's hydraulic connectors at the rear of the tractor.



Install the 7-pin electrical harness to the tractor's electrical connector.

NOTE: *Install the electric winch cable connections directly to the tractor battery (12 Volts are required).*



Secure the electrical harness, winch harness and all hydraulic hoses up and away from the PTO driveline area.

Site Preparation

Lightly scrape the ground, removing weeds, sticks, stones and stubble that could penetrate the grain bag from the entire grain bag storage site. When removing debris from the site, be careful not to loosen the ground. The grain bag storage site should remain as firm as possible and free from debris to minimize grain bag damage. Chemical can be sprayed on the site to control weeds and grasses reducing nesting habitat for rodents.

NOTE: *Maximum grade should be limited to grades less than 5%.*

Grain Bag Placement

⚠	**WARNING:** *Do Not place grain bags near or under power lines.*

The grain bags should be positioned North - South on the storage site. This will allow the grain bags to be exposed to the sun evenly.

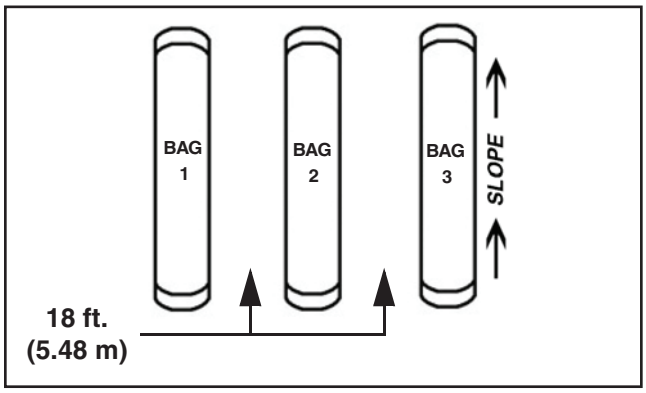
NOTE: *If the grain bags are positioned East - West, the South side of the grain bags will be exposed to the sun the entire day and may lead to overstretching and damage to the grain bags.*

Start the grain bag on the lowest elevation of the storage site. This will aid in the loading of the grain bag and also assist in preventing any moisture from entering the bag both at the starting end and at the finishing end.

NOTE: *It is NOT recommended to position the grain bags across a slope. This places added stress on one side of the grain bag and may cause the bag to overstretch. It also prevents water from shedding away from and / or running along the length of the grain bag.*

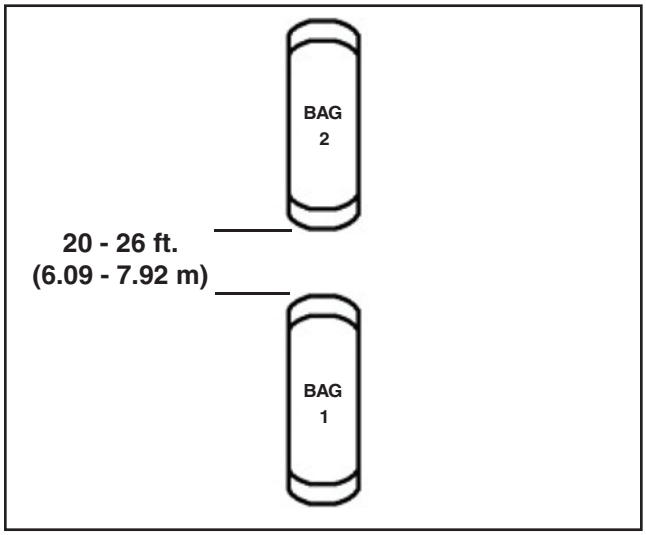
Grain Bag Spacing

Side By Side



When storing grain bags side by side, space the grain bags a minimum of 18 ft. (5.48 m) apart. This will allow adequate space for the unloading equipment and trucks to travel between the bags during the unloading process.

In The Field



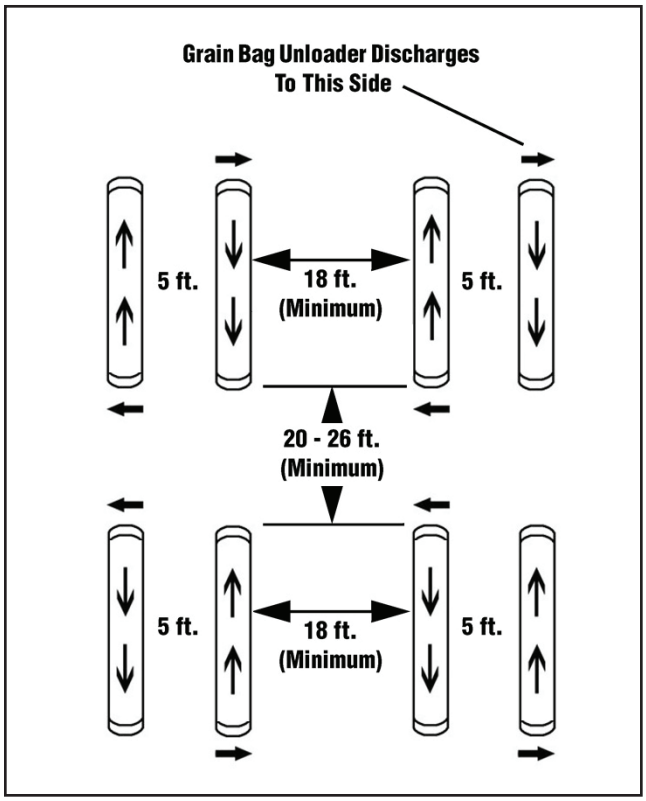
When storing grain bags in the field, position the grain bags in a line. This will help prevent animals (rodents and other pests) from using the bags as a shelter from the weather and from natural predators.

NOTE: *Maintain adequate space (20-26 ft. (6.09-7.92 m) is recommended) between the grain bags for the unloading equipment and transport vehicles to travel between the bags.*

Grain Bag Placement (Cont'd)

Grain Bag Spacing (Cont'd)

In Depots



When storing grain bags in depots, position the bags in pairs approximately 5 ft. (1.5 m) apart and a minimum of 18 ft. (5.5 m) between pairs. 5 feet (1.5 m) is adequate space for the unloader to operate without damaging the adjacent grain bag. Maintaining an 18 foot (5.5 m) spacing between pairs will allow the transport vehicle adequate space to travel. Load the pair of grain bags opposite from each other. When unloading the grain bags, this will allow the unloading equipment to finish unloading one bag and move directly over and start the unloading of the second bag.

Installing the Grain Bag

Remote Control Identification

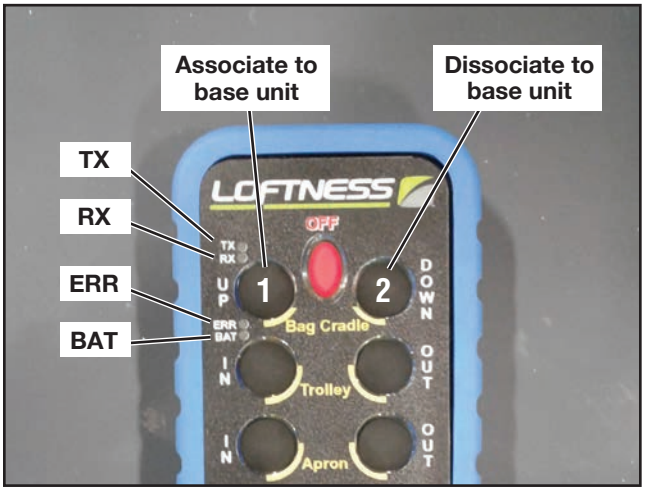


1. CRADLE UP - Press button to raise the cradle.
2. CRADLE DOWN - Press button to lower the cradle.
3. TROLLEY IN - Press button to move the trolley in.
4. TROLLEY OUT - Press button to move the trolley out.
5. APRON IN - Press button to move the pan apron in.
6. APRON OUT - Press button to move the pan apron out.

Installing the Grain Bag (Cont'd)

Remote and Base Unit Associate Procedure

The hand held remote and base unit communications are established prior to shipping. However, it may be necessary to establish or re-establish communications between the remote and the base unit at some point. The Associate procedure is used to do this.



To Associate:

The base unit and handheld must be OFF prior to attempting to associate. Base unit and SmaRT button handheld association is established using the following steps:

1. Remove power from the base unit and turn off (PTO - time out) the hand-held device.

2. Stand near the base unit in unobstructed, clear line-of-sight with the handheld in hand.

3. Simultaneously press and hold the Associate (1) and Dissociate buttons (2). RX and ERR light.

4. Continue to hold both buttons until TX and RX light steady.

5. When TX and RX light, release button 1 and button 2. ERR and BAT light.

NOTE: *If the next button press is not immediately performed (approximately 2 sec.) all LEDs flash and the Associate procedure is aborted. The process must be started anew to establish the communication link.*

6. Immediately press and hold the Associate button (1). All LEDs light.

7. TX begins to slowly blink. Continue to hold button 1.

8. Apply power to the base unit.

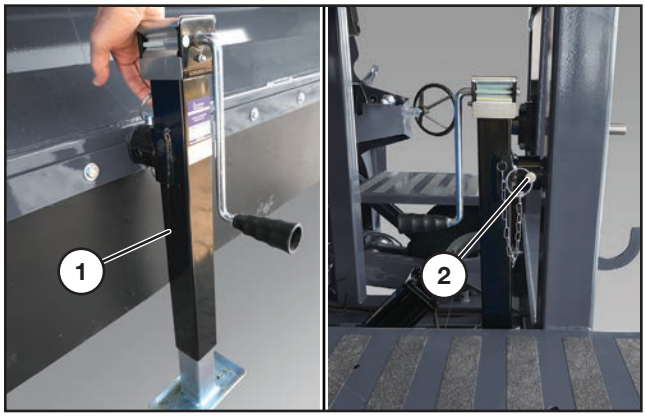
The handheld and base unit begin to establish a communication link while the Associate button is held. Once the process is complete, all LEDs light briefly and then go out.

9. Release the Associate button. The SmaRT System is ready for use with that particular handheld remote.

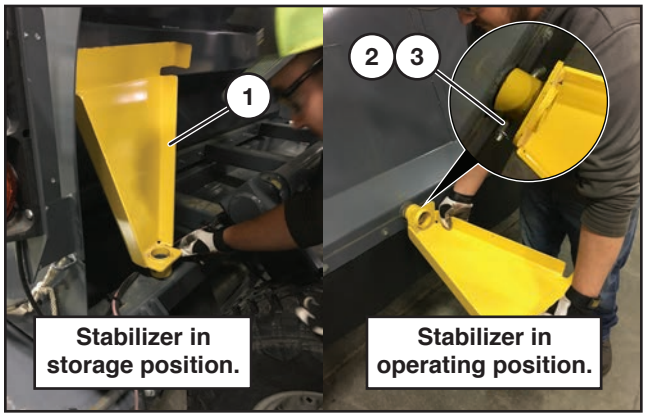
Installing the Grain Bag (Cont'd)

Procedure

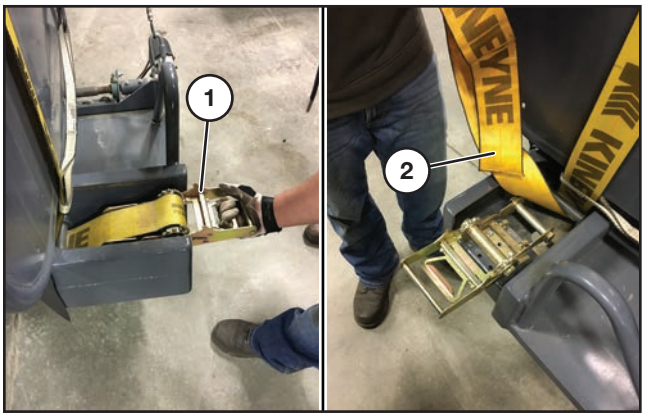
NOTE: *Installing the grain bag requires three people*



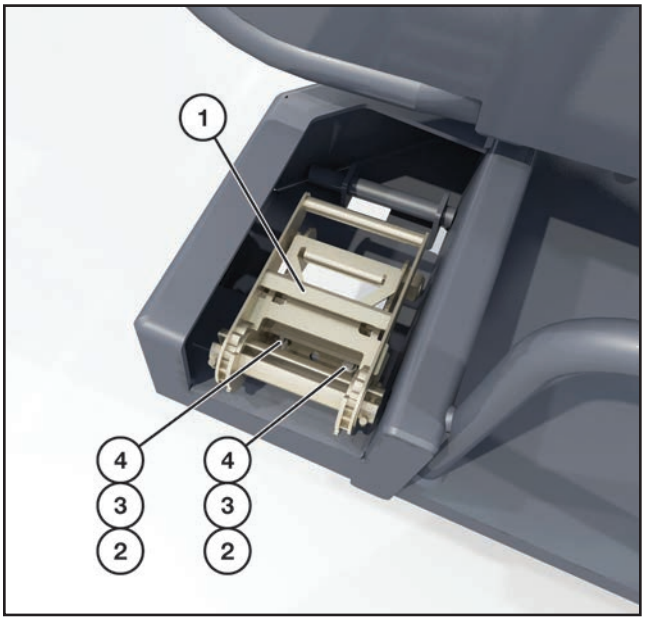
With the XLB10 hitched to a tractor remove the jack (1) from the tunnel and place it in the storage location (2).



Remove the cradle stabilizer (1) from the storage location and mount it to the rear of the tunnel and secure with pin (2) and retaining clip (3).



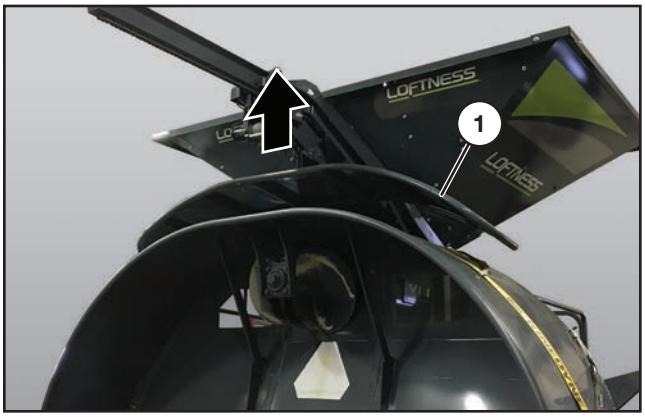
Release the ratchet (1) and pull strap (2) free of the ratchet.



NOTE: *Upon initial setup, the ratchet assembly (1) must be fastened to the right side of the pan. Use the hardware bag from the bucket that was shipped with the grain bag loader containing two 3/8" X 1" bolts, two 3/8" nuts, and two 3/8" washers.*
Place a washer (3) on each bolt (2) and insert bolts from the bottom of the pan, through the ratchet, and secure each with a nut (4).

Installing the Grain Bag (Cont'd)

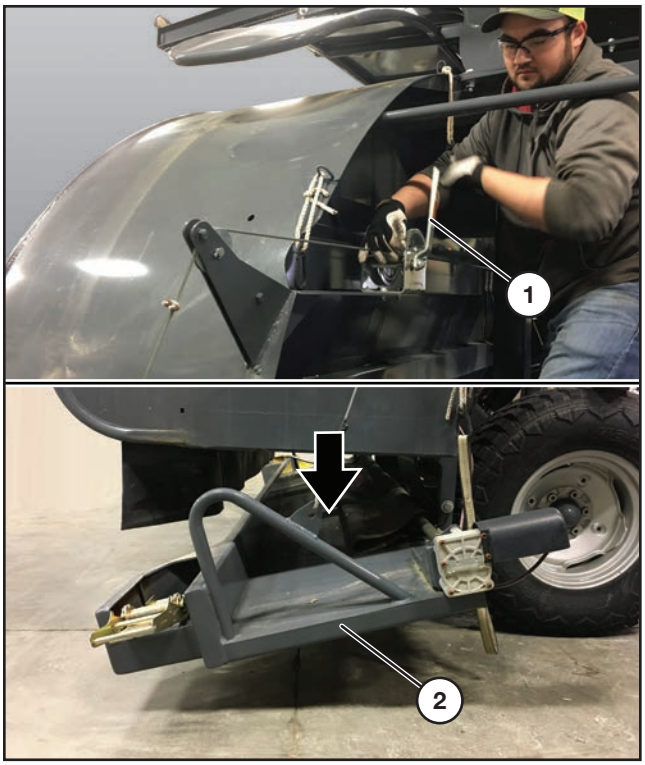
Procedure (Cont'd)



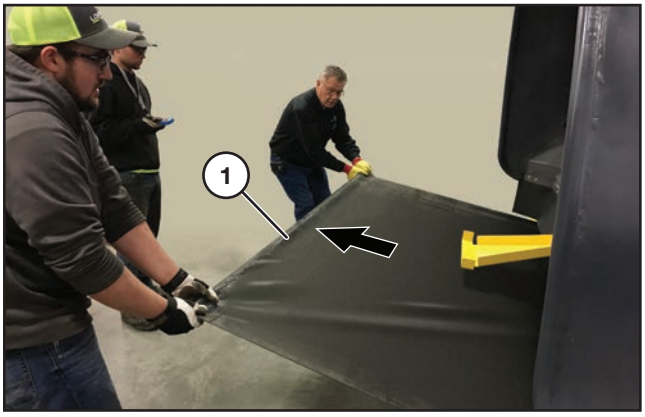
Press "CRADLE UP" on the control to raise the bag cradle (1) all the way up.



Remove the small 1 in. (2.54 cm) straps (1) by unhooking them from the D-rings (6 places). Then remove the large 4 in. (10.16 cm) ratchet strap (2). Set aside.



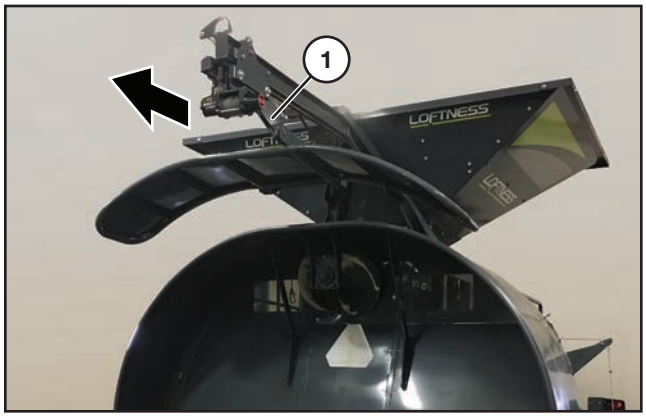
Using the hand winch (1), lower the bag pan (2).



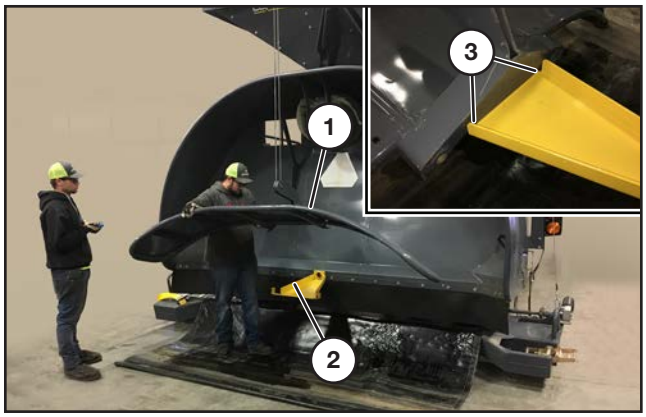
Press "APRON OUT" on the remote while two people grab the pipe on the leading edge of the bag apron (1). Slowly guide the apron all the way out from the bag pan. Stop when complete.

Installing the Grain Bag (Cont'd)

Procedure (Cont'd)



Press "TROLLEY OUT" on the control to fully extend the bag cradle (1).



Press "CRADLE DOWN" on the controls to lower the cradle (1) onto the stabilizer (2). Place the cradle stabilizer so that the tabs (3) are inserted inside the cradle base.



Position the box with the new grain bag close to the bag apron with the tunnel arrows (1) shown on the box pointing towards the grain bag loader.

⚠	**CAUTION:** *The grain bag is heavy. Use a forklift (or other lifting device), or at least three people to place the grain bag box.*

Open the box. At this point the black folds of the bag should be away from the grain bag loader and the white or tan folds should be towards the bag loader.

NOTE: *Be careful not to damage the grain bag when removing the shipping bands and top half of the box.*



Peel back the remaining sides of the box and lay flat as shown.

Installing the Grain Bag (Cont'd)

Procedure (Cont'd)

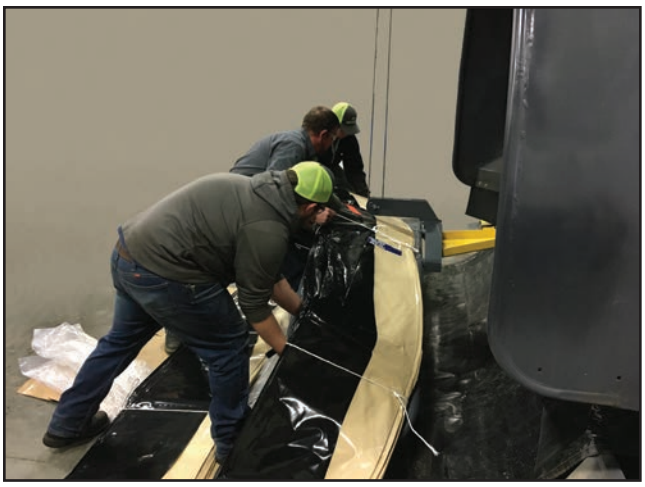
Unfolding Bag



Unfold the grain bag.

Center the bag with the bag cradle using the center-of -bag decal (1) as reference.

Installing the Bag onto the Cradle



CAUTION: *The grain bag is heavy. Always use three people to place the grain bag onto the cradle.*

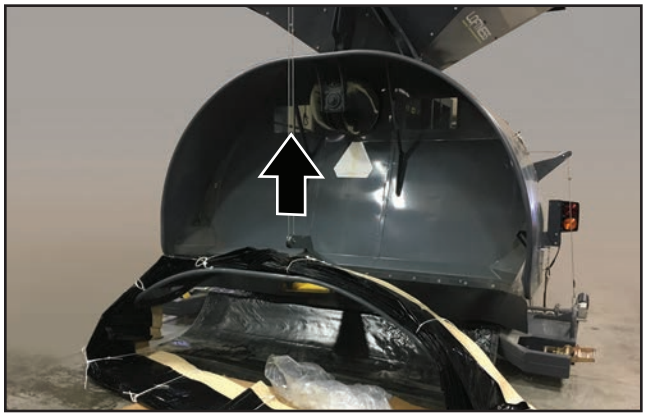
Position a person on each end of the bag and one in the middle. Lift and slide the top half of the grain bag onto the cradle.

NOTE: *Be careful not to puncture grain bag.*

Installing the Grain Bag (Cont'd)

Procedure (Cont'd)

Lifting the Cradle



Using the controls, press "CRADLE UP" to begin lifting the cradle while monitoring the cradle as it releases from the cradle stabilizer. Assist the release if necessary.

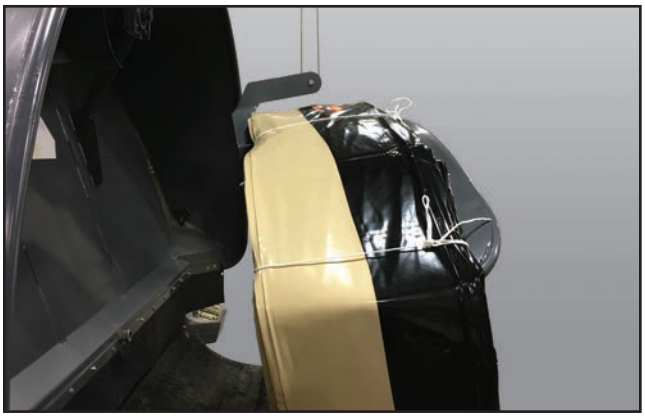
Release the "CRADLE UP" button when the cradle has cleared the cradle stabilizer.

⚠	**WARNING:** *Crushing hazard. Do not stand under the cradle while it is being raised, or when it is in the raised position.*



Remove the cradle stabilizer (1) and place it back into its storage location (2).

Press "CRADLE UP" on the control to raise the cradle up about half way.



Stop and verify the bag is all the way to the backside of the cradle.

Press "CRADLE UP" to raise the cradle so it is approximately two-thirds of the way up. Stop.

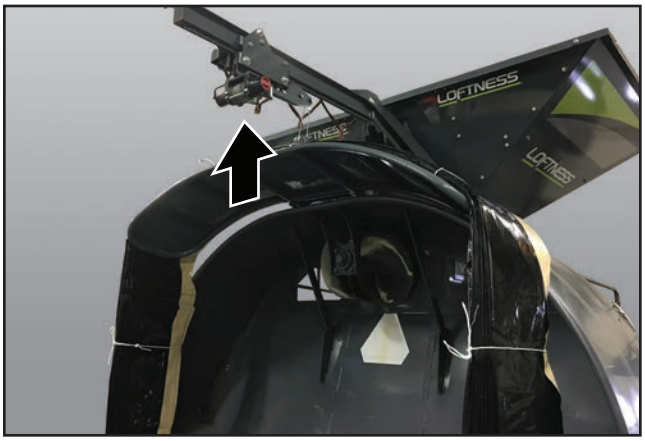


Lift the bottom of the bag and place it on the bag apron as shown.

Remove the box so it is out of the way. Discard.

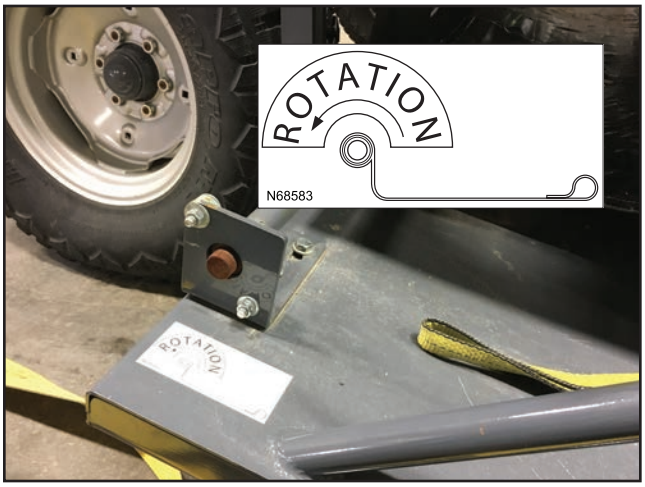
Installing the Grain Bag (Cont'd)

Procedure (Cont'd)

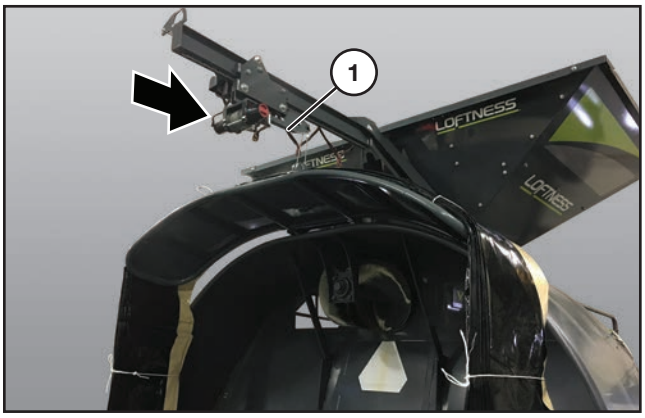


Press "CRADLE UP" to raise the bag cradle until it is above the tunnel. Stop.

Positioning Grain Bag onto the Tunnel



IMPORTANT: *For this next procedure it is critical that the bag apron be rolled up in the correct direction. Reference the decal (1) on the bag pan for proper rotation. Rolling up the bag apron in the wrong direction can cause damage to the grain bag.*



Press "TROLLEY IN" on the control to move the trolley (1) in towards the tunnel. You may need to stop throughout this process to adjust the grain bag and ensure it is being placed onto the tunnel properly.

NOTE: *Pull up on both ends of the apron while moving the trolley towards the tunnel to guide the apron/ grain bag straight into the pan.*



Position the grain bag around the tunnel and press "TROLLEY IN" on the control to move the trolley in until the grain bag reaches the tunnel. Start one side of the bag onto the tunnel at a time. When one side has been started, repeat the procedure on the other side. Make sure there are no creases in the bag. Once both sides have been started, slowly move the trolley in, guiding the bag onto the tunnel by moving one side in a small amount and then the other side.

Installing the Grain Bag (Cont'd)

Procedure (Cont'd)

Positioning Grain Bag onto the Tunnel (Cont'd)



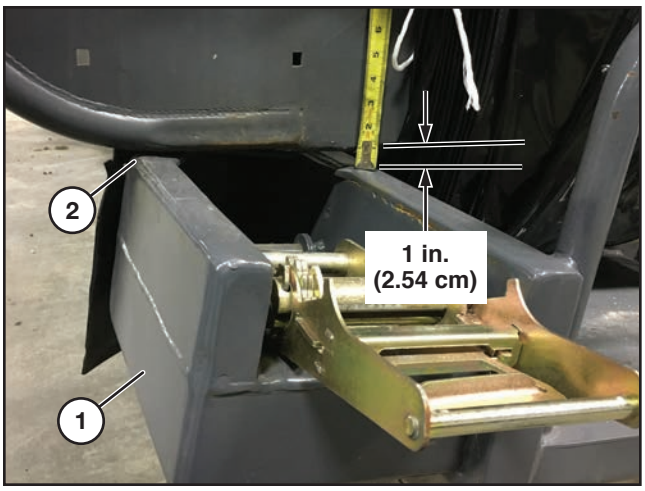
At the same time press the "APRON IN" button on the controls and slowly roll up the bag apron (1) while two people grab and lift the leading edge of the bag apron to keep the apron tight as it is being rolled up.

IMPORTANT: *Make sure the bag apron is wrapping correctly. Reference the decal on the left side of the bag pan for the correct rotation direction.*

Repeat this procedure until the trolley has been fully retracted and the bag apron is entirely inside the bag pan.

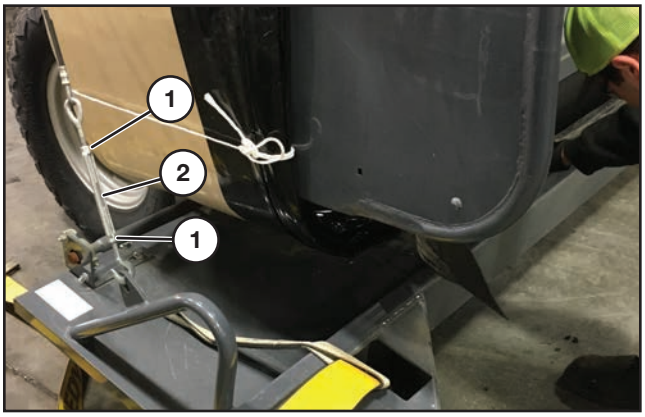
IMPORTANT: *It is critical that at the end of this procedure the bag apron is entirely inside the bag pan. IF THE BAG APRON IS NOT FULLY RETRACTED BACK INSIDE THE PAN, THE BAG APRON AND HARDWARE WILL BE DAMAGED WHEN THE GRAIN BAG IS BEING FILLED.*

Adjusting the Bag Pan



Using the bag pan hand winch, raise the bag pan (1) until there is approximately 1 in. (2.54 cm) of space between the pan tube and bottom of the grain bag loader housing.

NOTE: *Make sure bag will not get pinched at the outer, rear edge of the bag pan (2).*



The space between the pan tube and the bottom of the grain bag loader housing must be even on both sides of the grain bag loader in order for the bag to unfold correctly during the bagging operation.

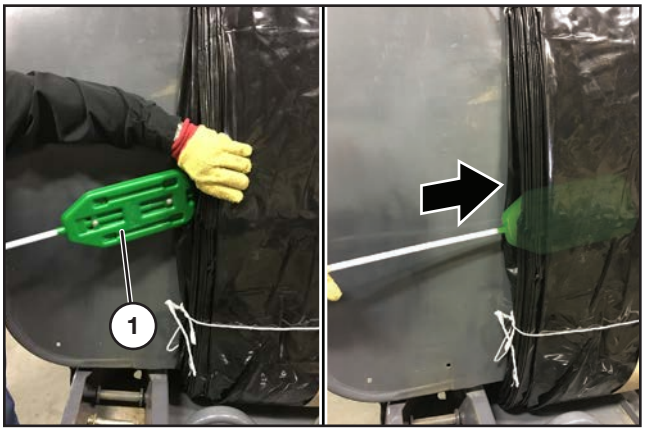
If an adjustment is needed, loosen the two jam nuts (1) and adjust the turnbuckle (2) on the left side of the grain bag loader until the space is equal from side to side. Tighten the jam nuts.

NOTE: *For longer life, store the straps out of the sunlight when not in use.*

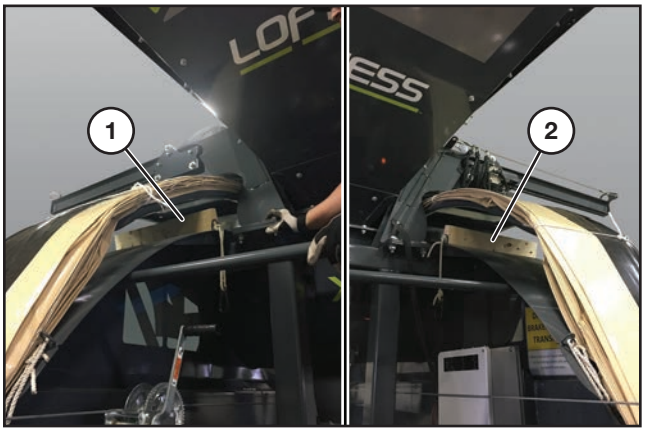
Installing the Grain Bag (Cont'd)

Procedure (Cont'd)

Preparing the Grain Bag

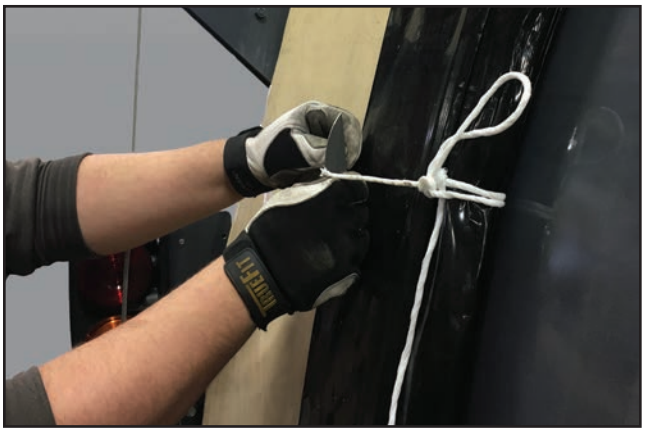


Make sure all the folds are even. Push extruded bag folds back in with soft-edged paddle (1) or other similar device.



Raise the bag cradle high enough to be able to insert two 2x4s (1, 2) on edge under the cradle. Place these 2x4s approximately 6 in. (15.24 cm) inside the top 1 in. (2.54 cm) strap D-rings. Lower the bag cradle so the bag cradle rest on the 2x4s.

NOTE: *Bag circumference may vary from one supplier to another.*



Carefully remove ALL shipping ties from the grain bag. (*Approximately 12 places. May vary by bag manufacturer*).

NOTE: *Be careful not to cut or damage the grain bag when removing the shipping ties.*



Pull the top layer of the grain bag approximately 3 ft. (1 m) beyond the rear of the tunnel. Pull the bag from the outside folds one side at a time.

Installing the Grain Bag (Cont'd)

Procedure (Cont'd)

Preparing the Grain Bag (Cont'd)



Then pull the bag out from the pan.

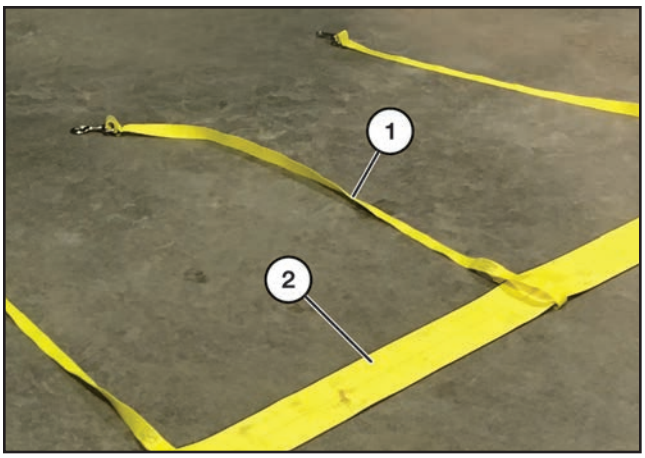


Inspect the rubber flap (1) on the grain bag loader housing.

The rubber flap should be free and should cover the grain bag in the tray. The rubber flap must hang outside the tray.

NOTE: *The rubber flap will help the grain from flowing back into the unused portion the grain bag.*

Strapping the Grain Bag



Put all six 1 in. (2.54 cm) straps (1) onto the 4 in. (10.16 cm) ratchet strap (2) as shown.

NOTE: *Upon initial setup, retrieve the 4 in. (10.16 cm) ratchet strap and the six 1 in. (2.54 cm) straps from the bucket that was shipped with the grain bag loader.*



Connect the hook end of the 4 in. (10.16 cm) ratchet strap to the tie-down on the left side of the pan.

Installing the Grain Bag (Cont'd)

Procedure (Cont'd)

Strapping the Grain Bag (Cont'd)



Place the 4 in. (10.16 cm) strap with the 1 in. (2.54 cm) straps into position over the tunnel. Use a swinging motion to get the straps onto the tunnel. There should be only one layer of bag under the 4 in. (10.16 cm) strap.



Connect the bolt snaps (3) on the six 1 in. (2.54 cm) straps to the D-rings (4) provided at the front of the tunnel (three on each side). Make sure there is no twisting in any of the straps.



Remove any twists in the 4 in. (10.16 cm) strap, then loop the free end of the strap behind and under the pan bar, over the ratchet bar and then through the ratchet opening accordingly.

NOTE: *Do not tighten ratchet until pan gap is set.*

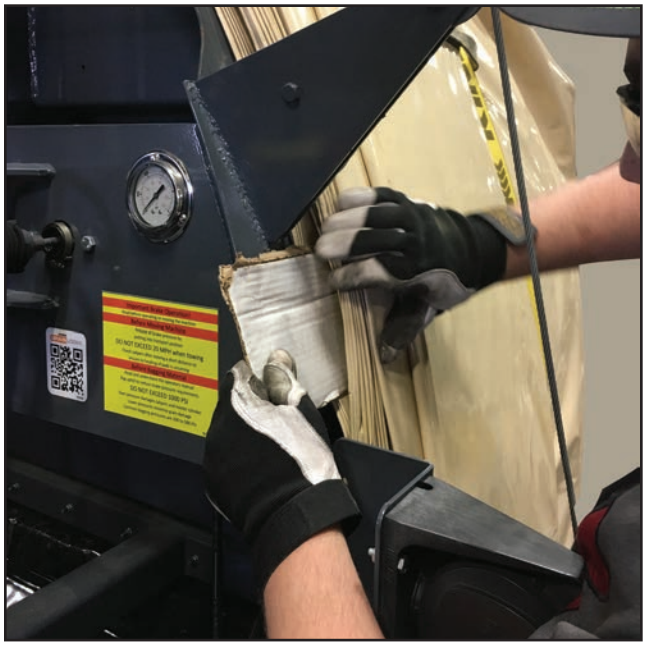
NOTE: *The 4 in. (10.16 cm) strap will be secured over only the single layer of bag on the tunnel, approximately 13 in. (33 cm) from the rear end of the tunnel.*

Crank the ratchet but do not over-tighten. Adjust the slack in the 4 in. (10.16 cm) strap so that you can slide a hand between the strap and the bag. Make sure no part of the strap is placed too far forward on the tunnel, or on top of the layered bag. Verify that the 1 in. (2.54 cm) gap set earlier did not change during this process. Close the ratchet handle.

Installing the Grain Bag (Cont'd)

Procedure (Cont'd)

Approaching End of Bag (Indicator)



Place a marker or piece of cardboard (approximately 6 in. x 12 in. [15.24 cm x 30.48 cm]) in the fifth bag fold from the inside. This marker will be used to indicate that the end of the bag is approaching.

When you get to this point in the bagging process, stop loading the bag. The remaining bag on the tunnel will be needed to ensure proper sealing of the grain bag and to ensure there will be enough bag to start the unloading process.

To seal the bag end and to begin bagging see the "Operating Instructions" section in the XLB10 Grain Bag Loader Operator's Manual, beginning with "Getting Started".

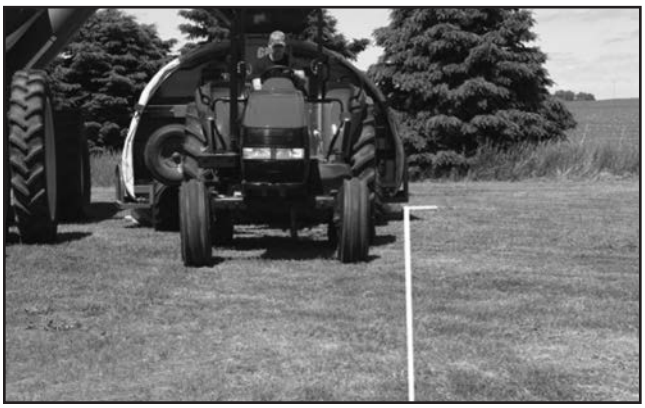
Grain Bag Loader Positioning

NOTE: *When loading the grain bags, move the loading equipment and position it facing up the slope. Loading the grain bags up the slope will aid the operator in braking the machine.*

⚠	**WARNING:** *Do Not place grain bags near or under power lines.*

⚠	**WARNING:** *Do not allow anyone to operate the machine until he or she has read the owner's manual and is completely familiar with all safety precautions.*

⚠	**WARNING:** *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.*



Move the grain bag loader into position facing up the slope. Stop the tractor and exit the tractor.

Place a marker at the starting edge of the grain bag and stretch it along the side of the tractor. Extend the marker out in front of the tractor and as straight as possible to the desired length. Secure both ends of the marker.

NOTE: *The marker will help the tractor operator to maintain a straight line during the grain bag loading process. Unloading the grain bags is much more efficient if the bags are kept straight during the loading process.*

See "Getting Started" on page 41.


LOFTNESS

Getting Started

During the loading process, the operator of the tractor is required to remain in the operator's position at all times to start and stop the PTO shaft and to keep the tractor / grain bag loader moving in a straight line with the grain bag. Position a person along side the grain bag loader (on the side away from the grain loading equipment) to monitor the grain bag and to increase or decrease grain bag loader brake pressure as needed. The operator of the grain transport vehicle is required to remain in the operator's position at all times during the loading process to move the grain transport vehicle and monitor when the vehicle is empty.

⚠	**WARNING:** *Do not allow anyone to operate the machine until he or she has read the owner's manual and is completely familiar with all safety precautions.*

⚠	**WARNING:** *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.*

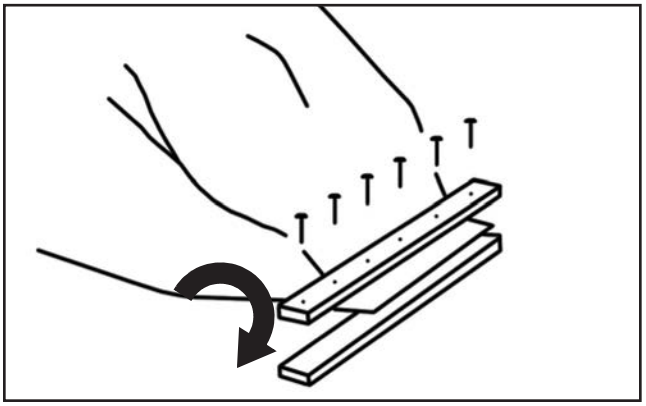
⚠	**WARNING:** *Always have an operator in the tractor while the machine is in operation.*

⚠	**WARNING:** *The machine requires an operator at all times. Never leave the machine running and unattended.*

Connect the grain bag loader to the tractor. See "Connecting the Grain Bag Loader" on page 24.

Move the tractor and grain bag loader into position.

Sealing the Grain Bag

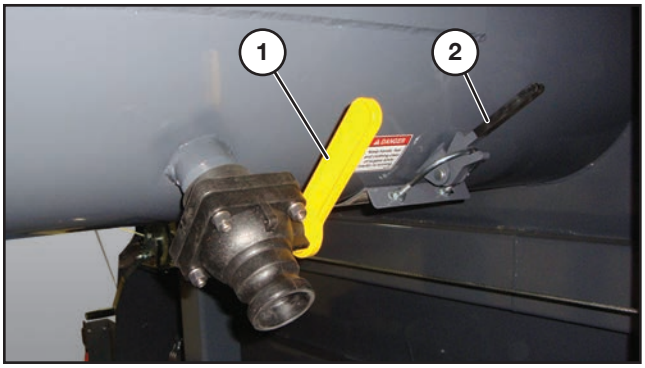


Remove approximately 10-13 ft. (3.1-3.9 m) of the grain bag from the grain bag loader, align the bag ends and fold the two outer edges of the bag. Start the fold approximately 2 ft. (0.6 m) up on the bag and then fold it towards the center of the bag. Place a board underneath the folded end of the bag (the board should be long enough to reach the entire width of the bag), then place a second board on top of the bag. With the folded end of the grain bag positioned between the two boards, fasten the boards together, flatten the end, roll the sealed end downward a minimum of three times around the boards, and fold it underneath the grain bag as far as possible 3 - 5 feet (.9 - 1.52 m). As the grain bag is being filled, the weight of the grain will provide downward pressure on the seal and help create an additional seal to help prevent moisture from entering the grain bag.

Getting Started (Cont'd)

- The objective is to fill the bag.
- Fill the bag to the point where no air pockets exist in the bag.
- Do NOT stretch the bag.
- If the bag is over stretched, it may be damaged and split.

NOTE: *Trying to squeeze extra grain into the bag beyond full may cause damage to the grain.*



Make sure the grain sampler valve (1) and the auger trap door (2) are closed before operation.

Filling the Grain Bag

Move the transport vehicle into position along side the grain bag loader.



Extend the transport vehicle's auger and center it above the hopper on the grain bag loader.

With operator of the tractor in the operator's position, engage the PTO. Gradually increase the PTO speed to 540 RPM.

NOTE: *The tractor's transmission needs to be in neutral during the grain bagging process.*

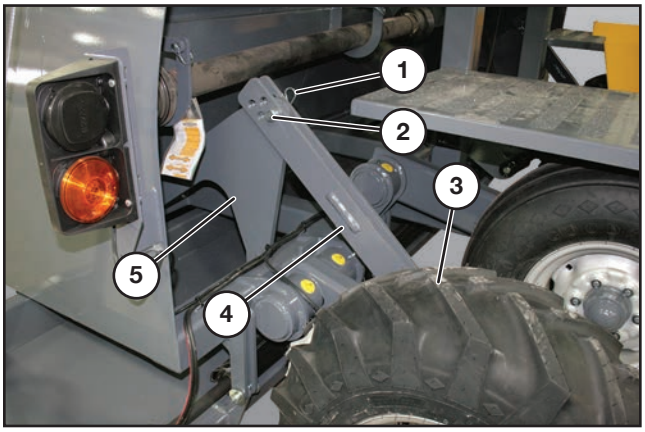


Engage the transport vehicle's auger and start loading grain into the hopper of the grain loader.

Check the bag seal as the grain begins to flow into the grain bag to assure that fold remains underneath, and that the grain is flowing to the end of the bag creating the seal.

Adjusting the Bag Pan Height

Using the tractor's hydraulics, raise or lower the machine so that the bag pan height is at the desired height (typically 8 to 10 inches [20.3-25.4cm] above the ground).



Remove the hairpin clip (1) from pin (2). Remove pin and lower the operation wheel (3) to the ground. Raise or lower the machine to align the hole in the adjustment link (4) with the hole in the mount plate (5). Reinstall pin into aligned holes and secure with the hairpin clip.

Repeat procedure on opposite side.

Fully raise transportation wheels.

Getting Started (Cont'd)

Adjusting Brake Pressure



Turn the wheel clockwise to increase the brake pressure.

NOTE: *Adjusting the brake pressure will help maintain proper filling of the grain bags, decreasing the chance of damage to the bag during the loading and storage of the bag.*

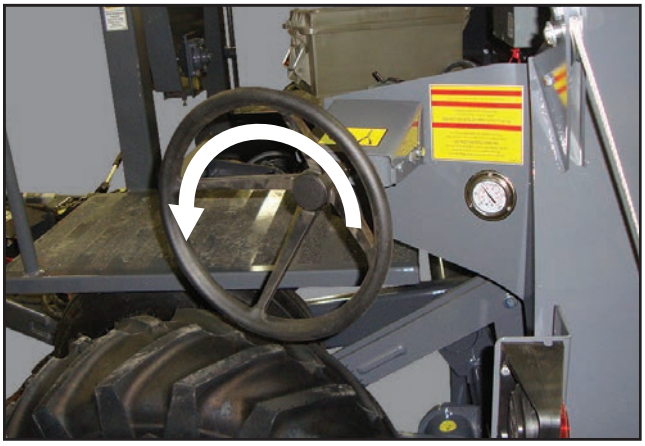


It is recommended that you start with 200 PSI and put approximately 1000 bushels into the bag. If more pressure is required, increase the pressure in increments of 100 PSI, until the ideal brake pressure is found for your conditions to fill the bag evenly.

NOTE: *DO NOT exceed 1000 PSI!*

The brake pressure required to fill the bag will vary based on the conditions. Wet or sandy ground, bagging up or down a slope and even the type of grain being put into the bag will have an effect on how much brake pressure is required.

Releasing Brake Pressure

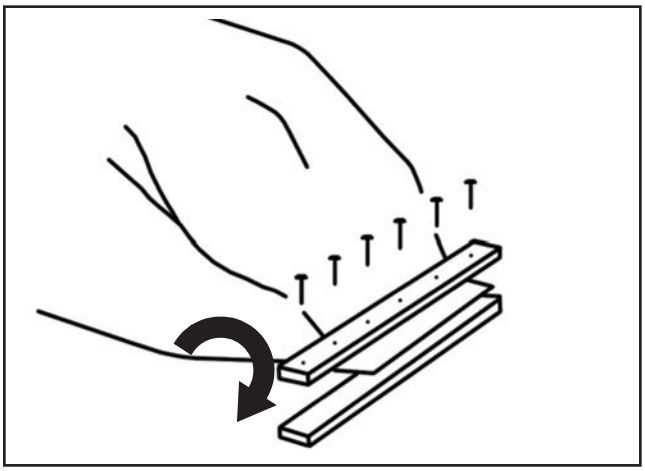


Turn the wheel counterclockwise to decrease the brake pressure.

Getting Started (Cont'd)

End of Bag Loading

NOTE: *When the grain bag is full, seal the bag as soon as possible to eliminate the chance of excess moisture entering the bag and damaging the grain.*



Leave approximately 10-13 ft. (3.1-3.9 m) of the grain bag empty for sealing.

NOTE: *The entire 10-13 ft. (3.1-3.9 m) of unused bag is not needed for sealing the bag but will aid in the unloading process.*

Seal the grain bag with the same procedure used when starting a new grain bag. See "Sealing the Grain Bag" on page 41

Once the loaded grain bag has been sealed, it is recommended that heavy items such as used tires be place over the finished end to cover any loose parts of the bag end. Also inspect the grain bag for any loose creases and tape them down.

Switching to Transport Position

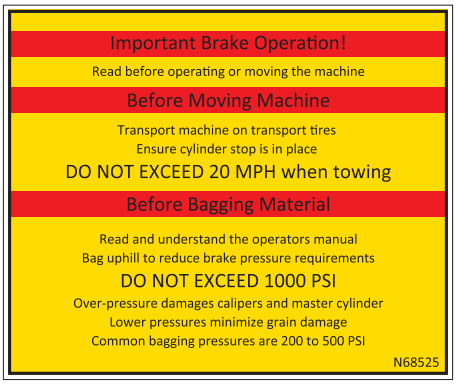
Before preparing for transport, release the pressure in the brake system.

⚠	**WARNING:** *Always position the grain bag loader on a flat surface or level terrain before disconnecting from the tractor. Failure to do so could cause the unit to roll when unhitched, creating a crushing hazard which could result in severe injury or death.*



Turn the wheel counterclockwise to release the brake pressure.

Refer to the decal called out in the image above and shown below when preparing the grain bag loader for transporting.



Switching to Transport Position (Cont'd)

Transporting with a Tractor after Operation

The grain bag loader can be transported by tractor if necessary.

To prevent the bag pan from making contact with the ground, lower the transport wheels to raise the machine slightly.

Cylinder stops on the lift cylinders can be added if desired.

The PTO can remain connected.

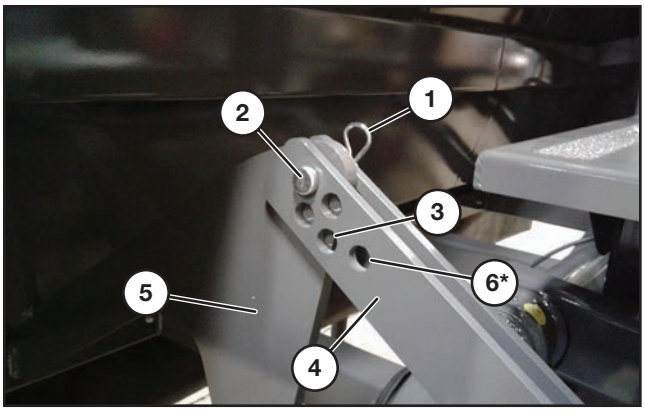
⚠	**WARNING:** *Always connect lights and safety chains when transporting the grain bag loader.*

Transporting with a Truck after Operation

⚠	**WARNING:** *Always position the grain bag loader on a flat surface or level terrain before disconnecting from the tractor. Failure to do so could cause the unit to roll when unhitched, creating a crushing hazard which could result in severe injury or death.*



Using the tractor's hydraulics, raise the grain bag loader frame so that the operation wheels are just above the ground.

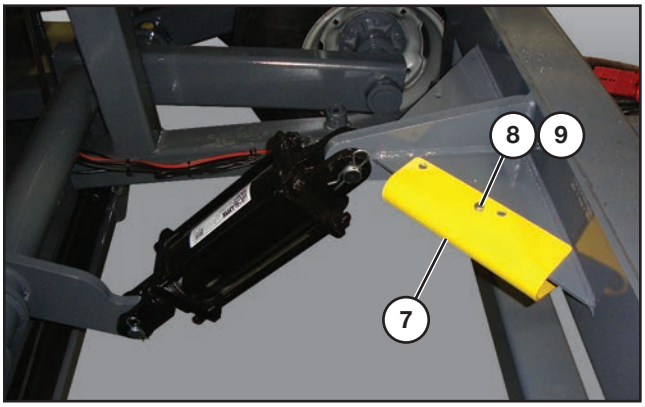


Remove the hairpin clip (1) from pin (2). Remove pin (2) and lower the operation wheel to the ground.

Lower the machine to align the first hole (3) in the adjustment link (4) with the hole in the mount plate (5). Install pin (2) into aligned holes. Install hairpin clip (1) into pin (2).

Repeat procedure on opposite side.

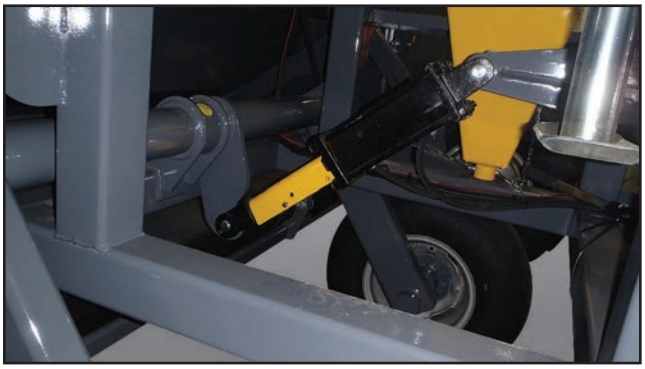
NOTE: *Hole (6) is for shipping purposes only.*



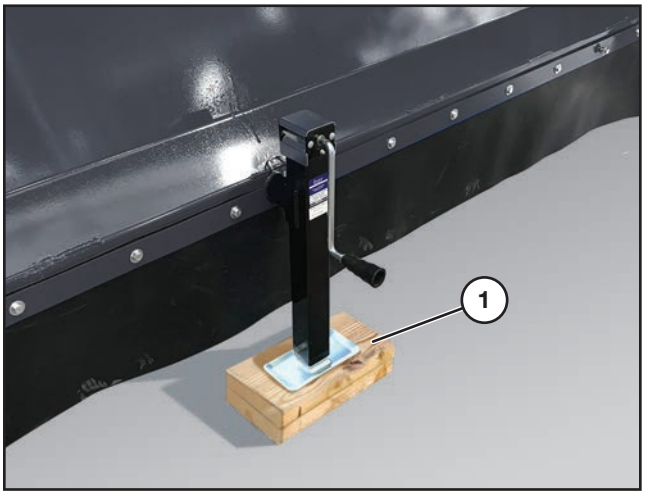
Lower the transport axle into the transport position. Remove the cylinder stop (7), hairpin clip (8) and pin (9) from the storage location.

Switching to Transport Position (Cont'd)

Transporting with a Truck after Operation (Cont'd)



Reinstall the cylinder stop, pin and hairpin clip over the cylinder rod. Raise the transport axle until cylinder contacts the cylinder stop.



IMPORTANT: *Always place blocks or boards (1) between the jack stand and the ground before unhitching the grain bag loader!*

The number of boards will vary depending on ground/floor conditions.

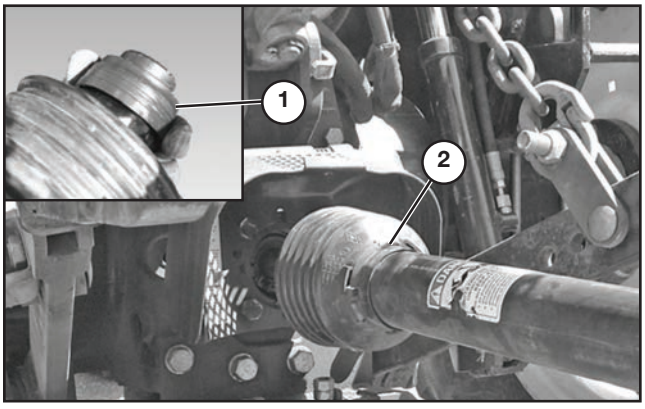
⚠	**WARNING:** *The grain bag loader has negative tongue weight. Failure to place the jack in the position shown above when unhitching the grain bag loader will cause the front hitch to raise rapidly and may result in serious injury.*



Adjust the leveling ratchet (1) so that the main frame and hitch are parallel with the ground and the jack stand is supported by the block(s) (2).

Turn the tractor off.

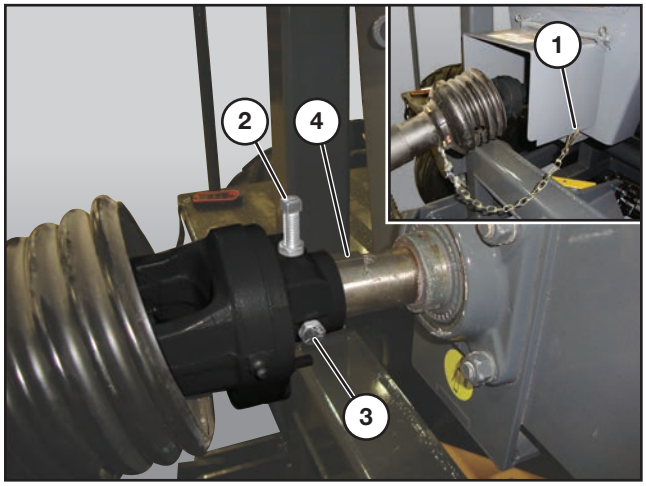
⚠	**WARNING:** *Shut down and lock out power from the tractor before proceeding with the folllowing steps. Failure to do so could result in serious injury or death.*



Retract sleeve (1), slide the PTO driveline (2) off the tractor PTO shaft.

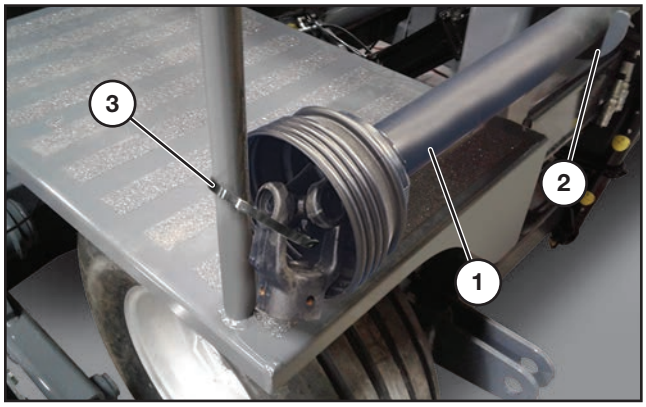
Switching to Transport Position (Cont'd)

Transporting with a Truck after Operation (Cont'd)



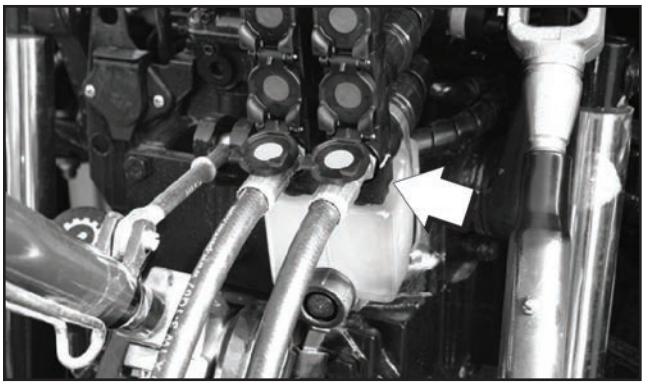
Detach safety chain (1) from shield. Loosen set screw (2), remove the cross bolt (3) and slide the driveline off the shaft.

NOTE: *Be careful not to lose the key (4).*

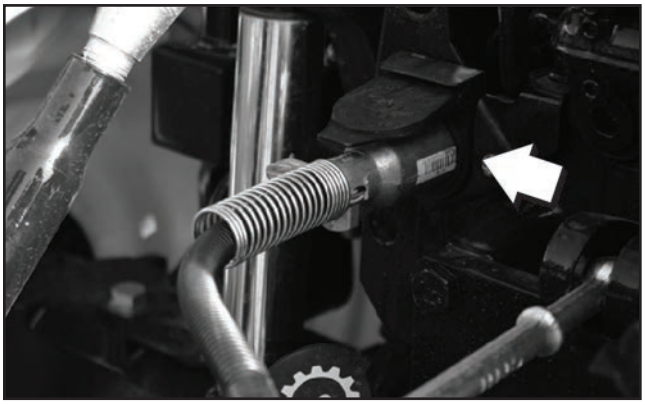


Install the PTO (1) in the storage cradles (2).

Secure both ends of the PTO to the platform railings with zip ties (3).



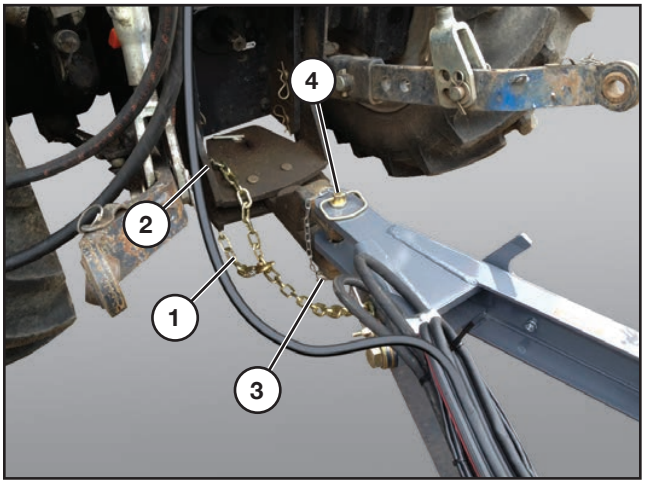
Disconnect the pressure and the return hydraulic hoses from the tractor's hydraulic connectors at the rear of the tractor.



Disconnect the 7-pin electrical harness from the tractor's electrical connector, and the electric winch cable connections from the tractor battery.

Switching to Transport Position (Cont'd)

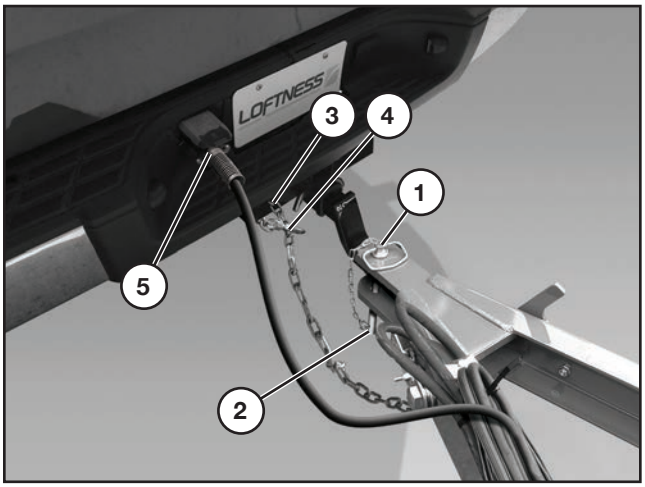
Transporting with a Truck after Operation (Cont'd)



Remove safety chain (1) from tractor drawbar (2).

Remove retaining clip (3) from pin (4) and pull pin out.

Start tractor and drive away from the grain bag loader.



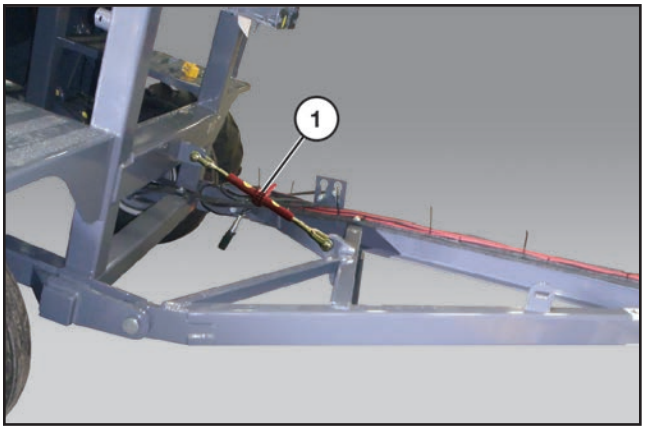
Back the truck up to the hitch of the loader.

Insert pin (1) and secure with retaining clip (2).

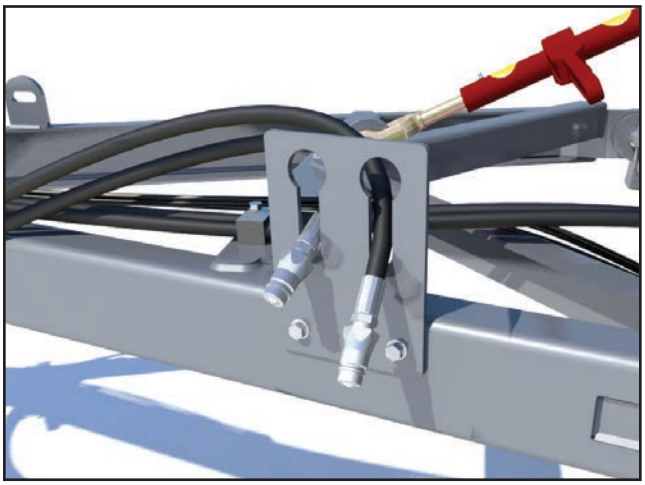
Install the safety chain around the truck's hitch frame (3) and fasten the chain ends together (4).

Connect 7-pin electrical harness (5) for running lights to the connector on the truck.

WARNING: *Always hook up lights and safety chains when transporting the grain bag loader.*



Adjust the leveling ratchet (1) so that the machine tips forward creating a positive tongue weight.



Place the hose ends into the hose holder (1) located on the hitch.

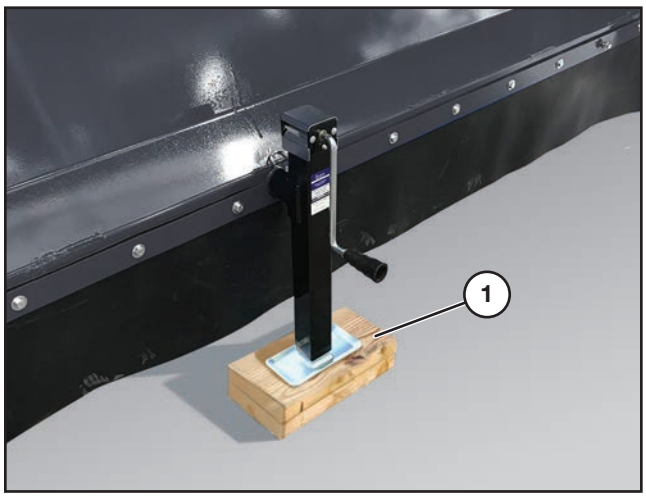
Unhitching Grain Bag Loader after Transport - for storage

Unhitching from Tractor

⚠	**WARNING:** *Always position the grain bag loader on a flat surface or level terrain before disconnecting from the tractor. Failure to do so could cause the unit to roll when unhitched, creating a crushing hazard which could result in severe injury or death.*

If the cylinder stop was not installed on the lift cylinder rod, use the tractor's hydraulics to lower the grain bag loader frame until the jack stand is supported by boards or a concrete surface. This will allow the grain bag loader to be stored lower to the ground or floor. If the cylinder stop is installed it will take more blocks to support the machine properly.

Turn the tractor off.



IMPORTANT: *Always place blocks or boards (1) between the jack stand and the ground before unhitching the grain bag loader!*

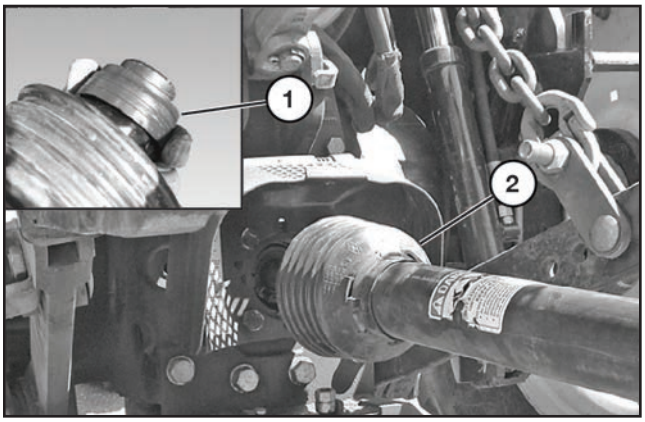
The number of boards will vary depending on ground/floor conditions.

⚠	**WARNING:** *The grain bag loader has negative tongue weight. Failure to place the jack in the position shown above when unhitching the grain bag loader will cause the front hitch to raise rapidly and may result in serious injury.*



Adjust the leveling ratchet (1) so that the main frame and hitch are parallel with the ground and the jack stand is supported by the block(s) (2).

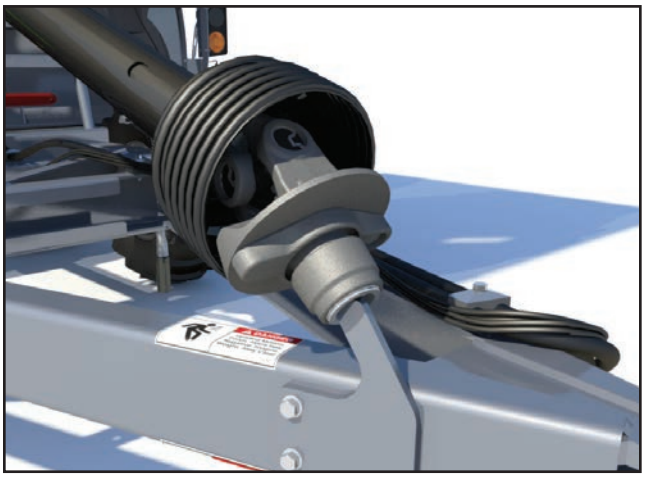
⚠	**WARNING:** *Shut down and lock out power from the tractor before proceeding with the folllowing steps. Failure to do so could result in serious injury or death.*



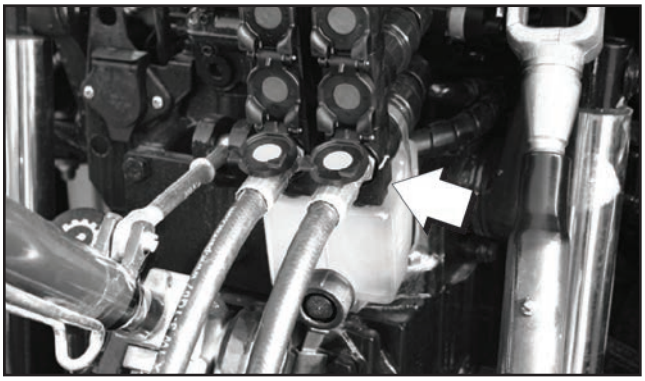
Retract sleeve (1), slide the PTO driveline (2) off the tractor PTO shaft.

Unhitching Grain Bag Loader after Transport - for storage (Cont'd)

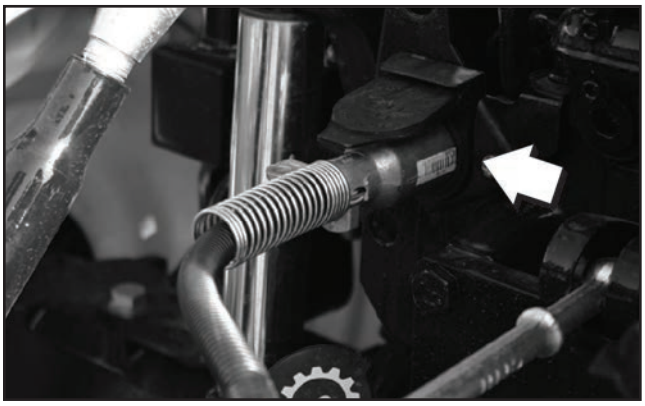
Unhitching from Tractor (Cont'd)



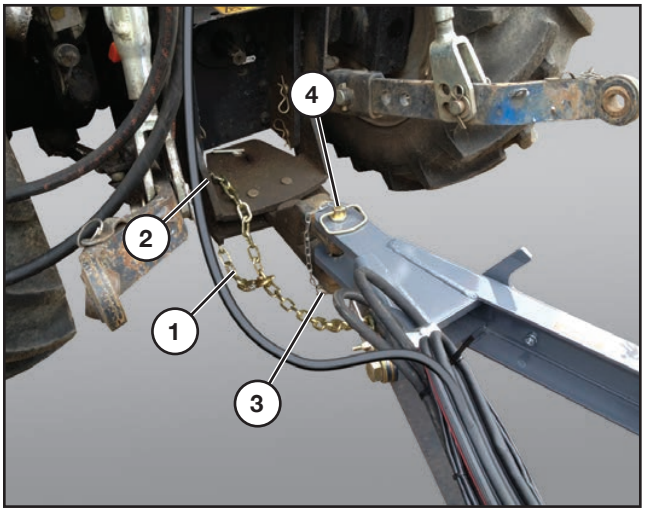
Secure the end of the PTO into the holder on the grain bag loader hitch.



Disconnect the pressure and the return hydraulic hoses from the tractor's hydraulic connectors at the rear of the tractor.



Disconnect the 7-pin electrical harness from the tractor's electrical connector, and the electric winch cable connections from the tractor battery.



Remove safety chain (1) from tractor drawbar (2).

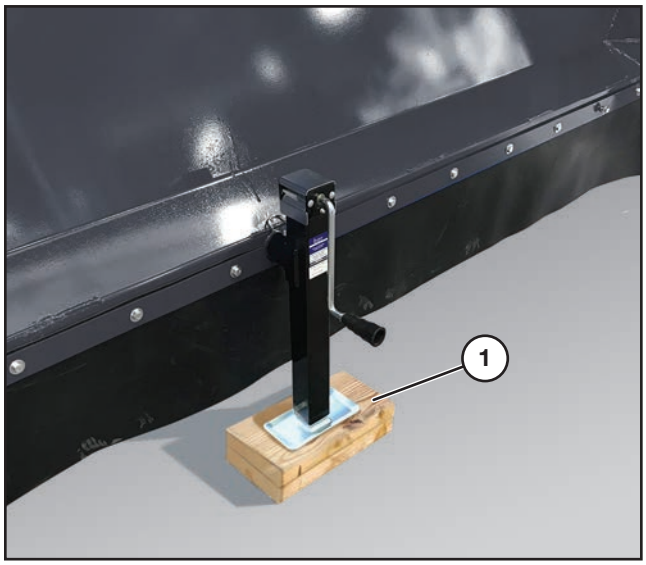
Remove retaining clip (3) from pin (4) and pull pin out.

Start tractor and drive away from the grain bag loader.

Unhitching Grain Bag Loader after Transport - for storage (Cont'd)

Unhitching from Truck

⚠	**WARNING:** *Always position the grain bag loader on a flat surface or level terrain before disconnecting from the truck. Failure to do so could cause the unit to roll when unhitched, creating a crushing hazard which could result in severe injury or death.*



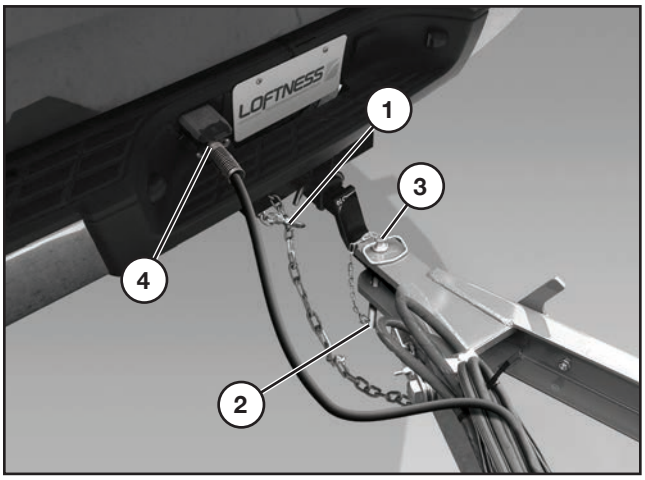
IMPORTANT: *Always place blocks or boards (1) between the jack stand and the ground before unhitching the grain bag loader!*

The number of boards will vary depending on ground/floor conditions.

⚠	**WARNING:** *The grain bag loader has negative tongue weight. Failure to place the jack in the position shown above when unhitching the grain bag loader will cause the front hitch to raise rapidly and may result in serious injury.*



Adjust the leveling ratchet (1) so that the main frame and hitch are parallel with the ground and the jack stand is supported by the block(s) (2).



Remove safety chain (1) from the truck's hitch assembly and wrap around hitch of grain bag loader.

Remove retaining clip (2) from pin (3) and pull pin out.

Disconnect the 7-pin electrical harness (4) from the connector on the truck.


LOFTNESS

General Maintenance

See “Maintenance Safety” on page 4 before performing any service or maintenance on the grain bag loader.

⚠	**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 grain bag loader after each use.

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.

Maintenance Schedule

HOURS	SERVICE POINTS	SERVICE REQUIRED	PAGE #
		CHECK	
Every 8	Drive Chain Tightness	X	54
Every 50	Bearing Set Screws	X	54
	Sprocket Set Screws	X	54
	Brake Pads	X	57
	Safety Labels	X	6
Every 100	Hoses and Wiring	X	
	Oil Leaks	X	
	Wheel Bearings	X	

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. Brake System - Use DOT 3 brake fluid.

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.

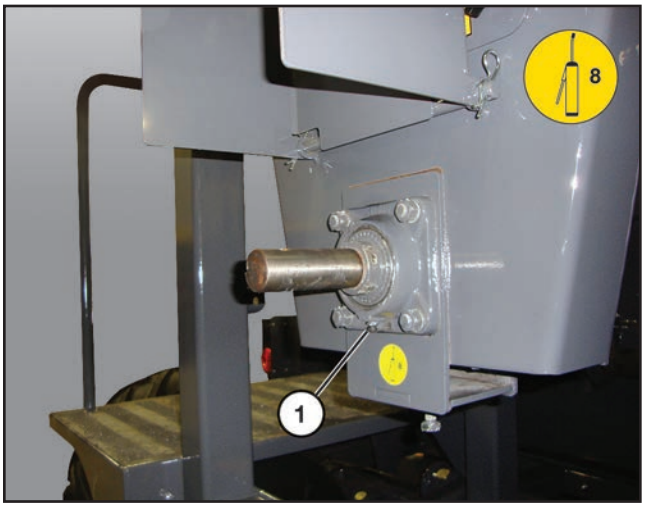
Lubrication

Grease Points

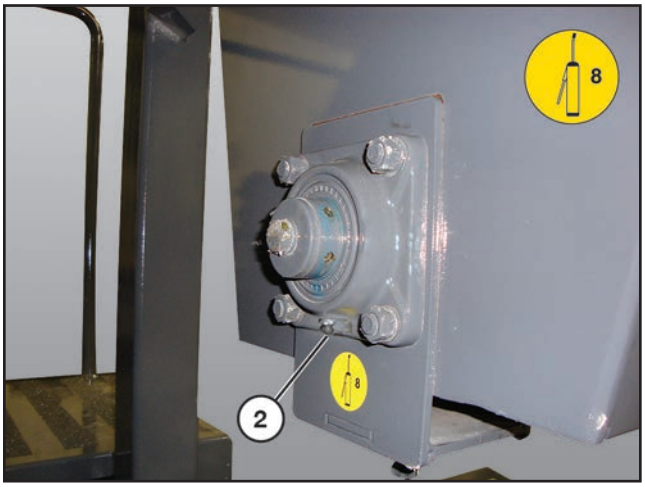
Use a SAE or #2 general purpose lithium based grease unless noted otherwise.

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

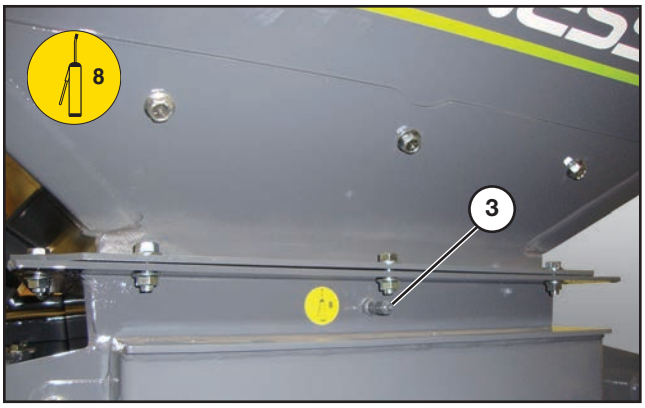
NOTE: *See "Grain Bag Loader Identification" on page 10 for component location and identification.*



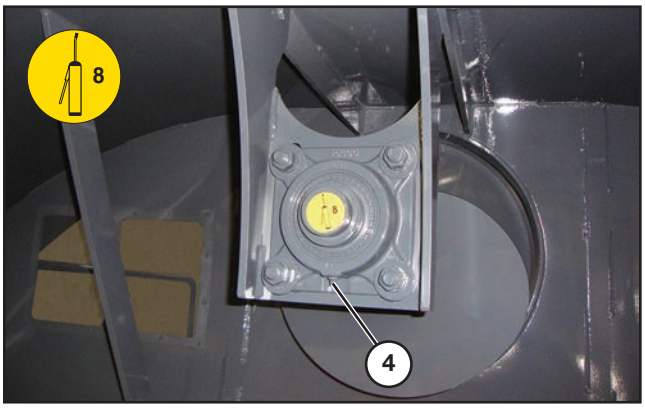
Location: PTO front drive bearing (1).
Interval: Every 8 hours of operation.



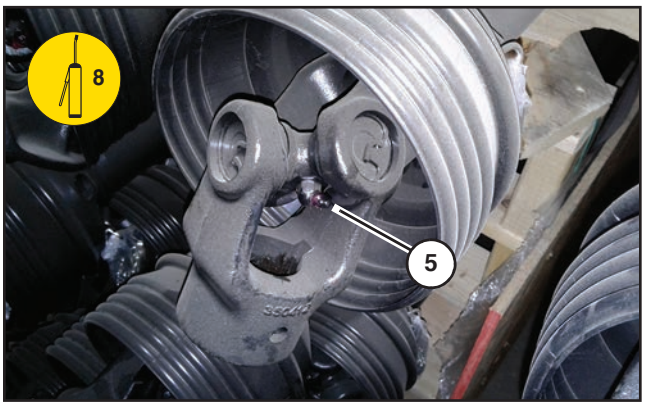
Location: PTO rear drive bearing (2).
Interval: Every 8 hours of operation.



Location: Front bearing of the discharge auger (3).
Interval: Every 8 hours of operation.



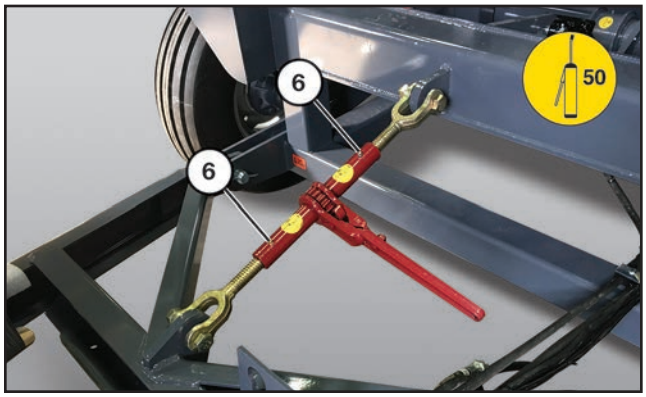
Location: Open end bearing of the discharge auger (4).
Interval: Every 8 hours of operation.



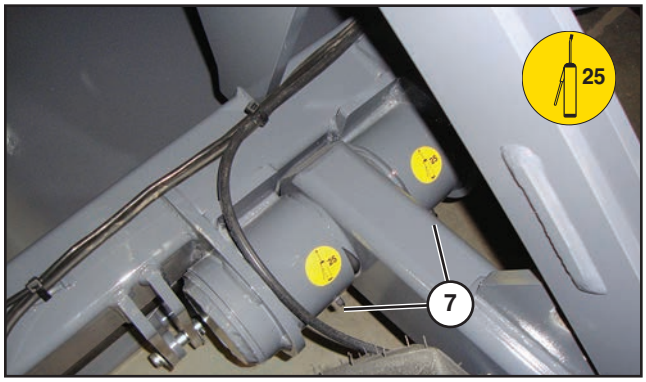
Location: Drive-line u-joints (5) (Both ends of PTO).
Interval: Every 8 hours of operation.

Lubrication (Cont'd)

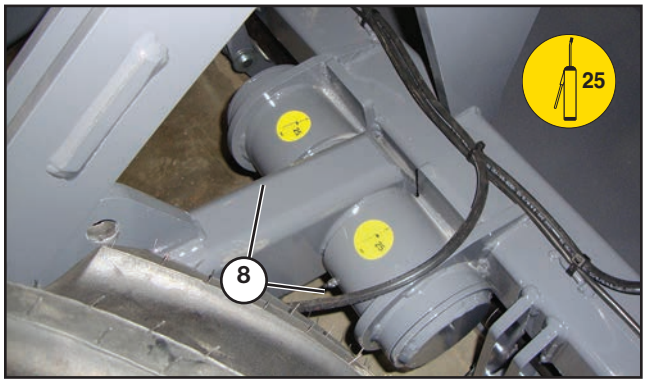
Grease Points (Cont'd)



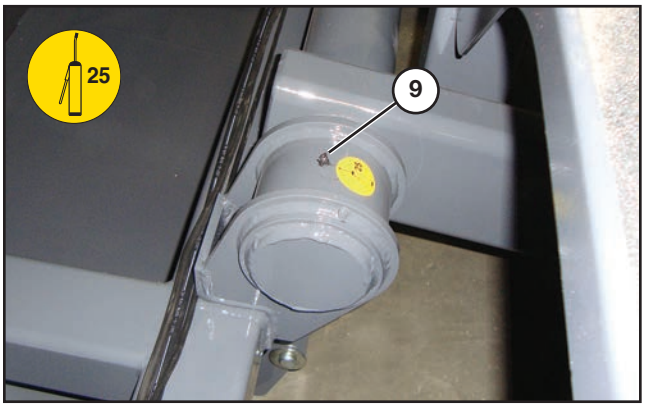
Location: Height adjustment ratchet (6).
Interval: Every 50 hours of operation.



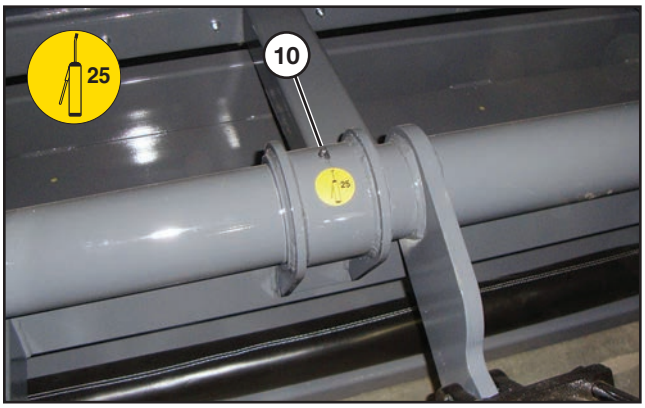
Location: Right side operation wheel axle (7) (front and back).
Interval: Every 25 hours of operation.



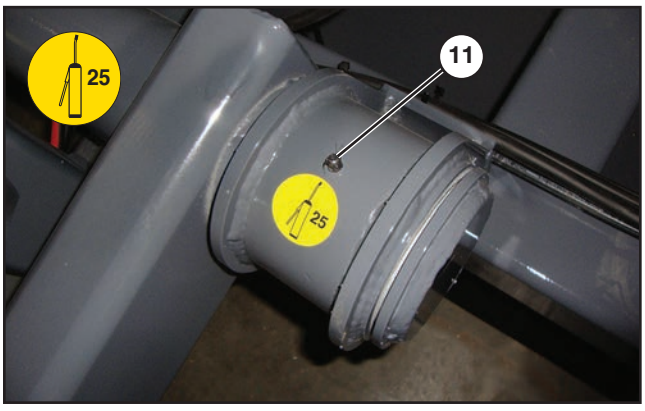
Location: Left side Operation wheel axle (8) (front and back).
Interval: Every 25 hours of operation.



Location: Right side lift tube (9).
Interval: Every 25 hours of operation.



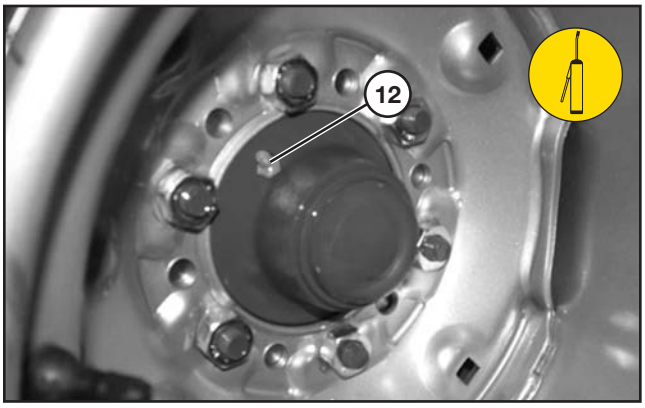
Location: Center lift tube (10).
Interval: Every 25 hours of operation.



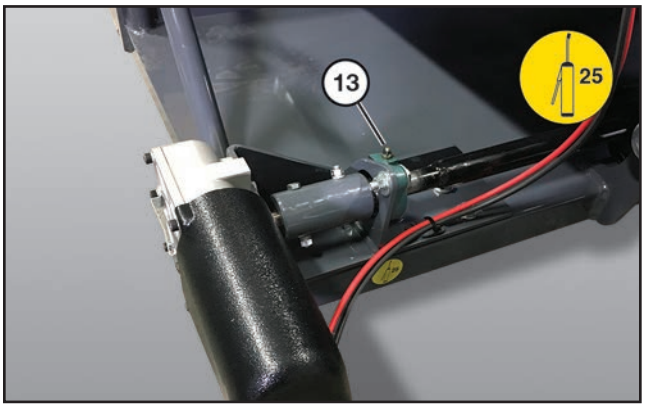
Location: Left side lift tube (11).
Interval: Every 25 hours of operation.

Lubrication (Cont'd)

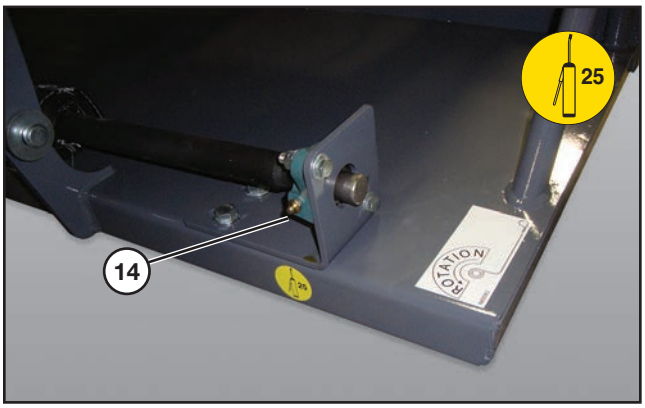
Grease Points (Cont'd)



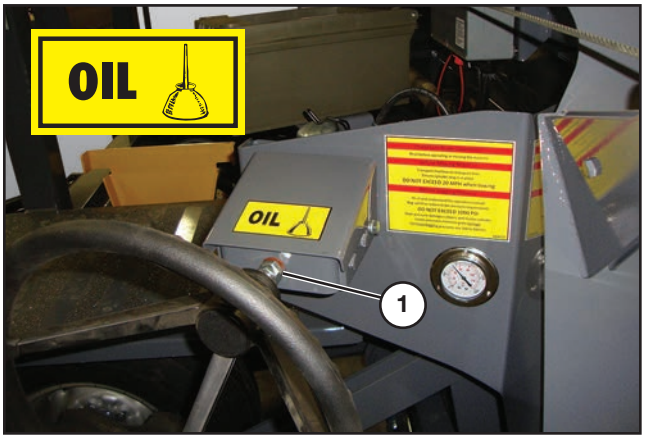
Location: Wheel bearings (12).
Interval: Every 100 hours of travel.



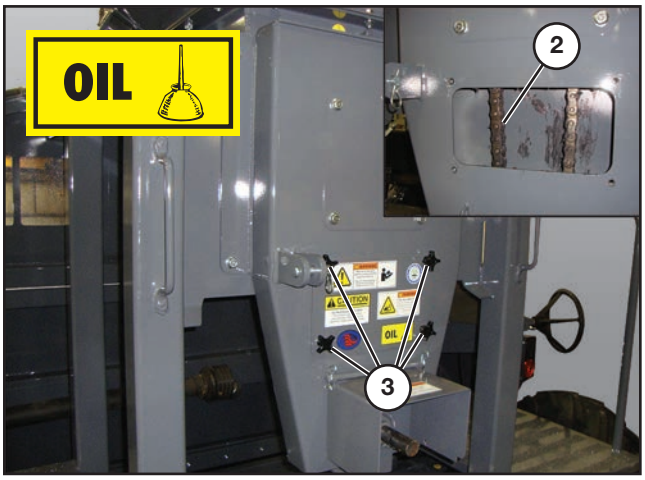
Location: Right side bag pan tarp bearing (13).
Interval: Every 25 hours of operation.



Location: Left side bag pan tarp bearing (14).
Interval: Every 25 hours of operation.



Location: Hand wheel threads (1).
Interval: Every 20 hours of operation.



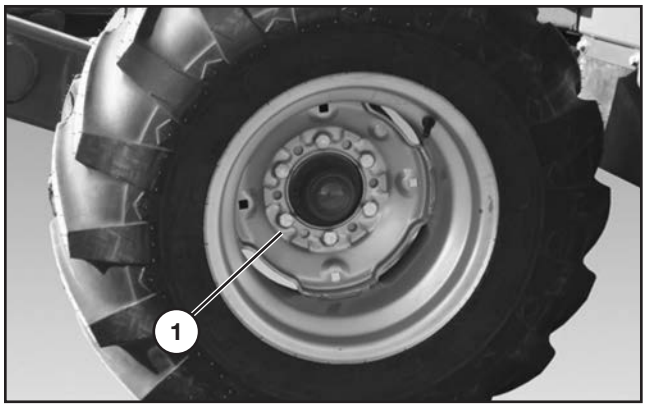
Location: Drive chain (2). 30W oil or chain lubricant. (Remove 4 knobs (3) on gear box for access.)
Interval: Every 8 hours of operation.

Disc Brakes

Removing The Brake Pads And Calipers

⚠	**WARNING:** *Make sure all brake pressure has been removed before servicing wheels, hubs and brakes.*

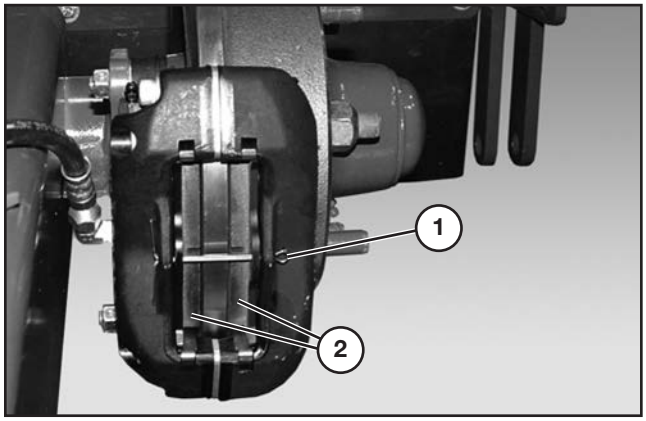
Install a jack or an approved lifting device to the grain bag loader.



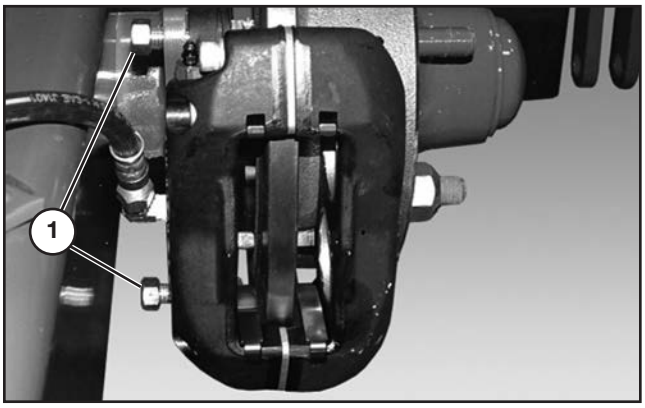
Loosen the six bolts or lug nuts (1).

Raise the grain bag loader until the wheel is slightly off the ground.

Remove the bolts or lug nuts and wheel.



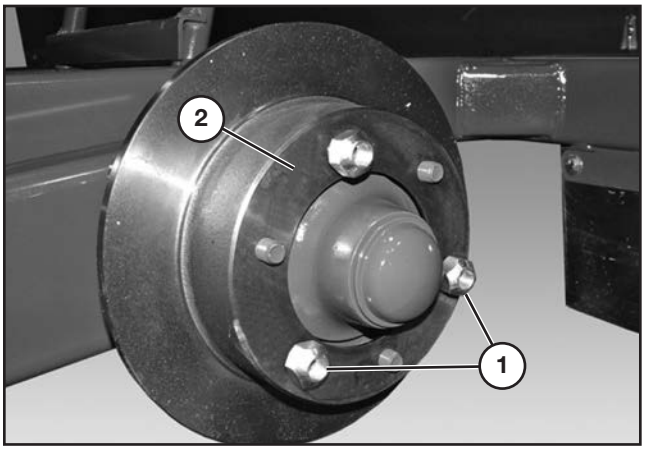
Remove the cotter pin (1) and brake shoes (2).



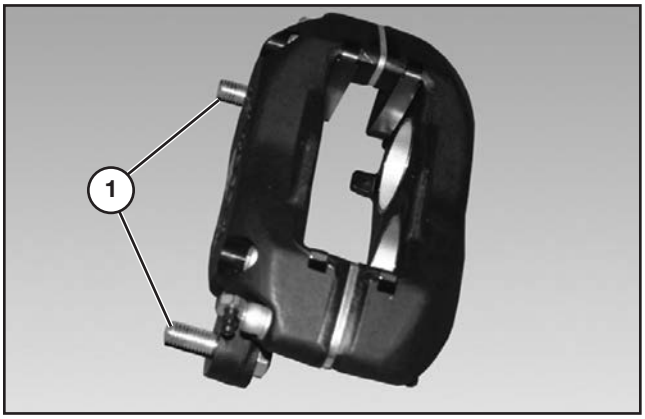
Remove the two nuts (1) and remove the calipers from the disc.

Disc Brakes (Cont'd)

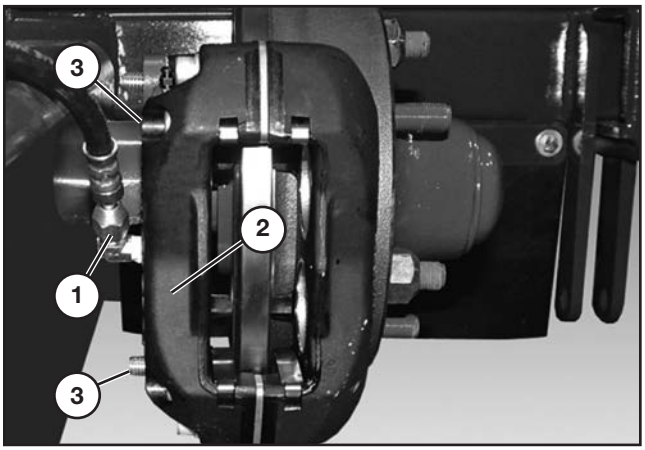
Installing The Calipers And Brake Shoes



Install three lug nuts (1) to hold the brake drum (2) on the hub. Leave nuts loose.

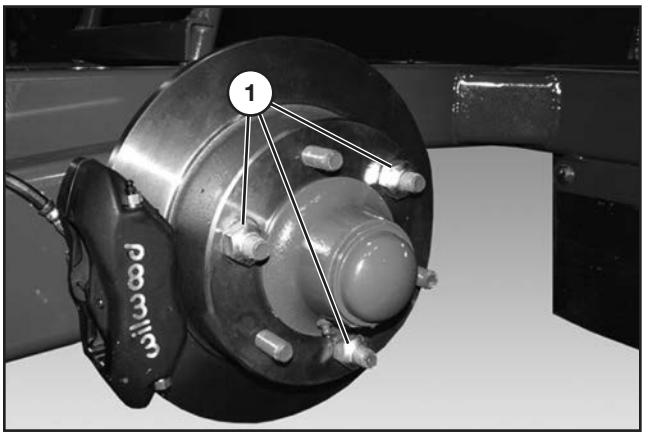


Install the two bolts (1) through the caliper prior to installing the caliper onto the disc.



Attach brake hose (1) to brake caliper (2).

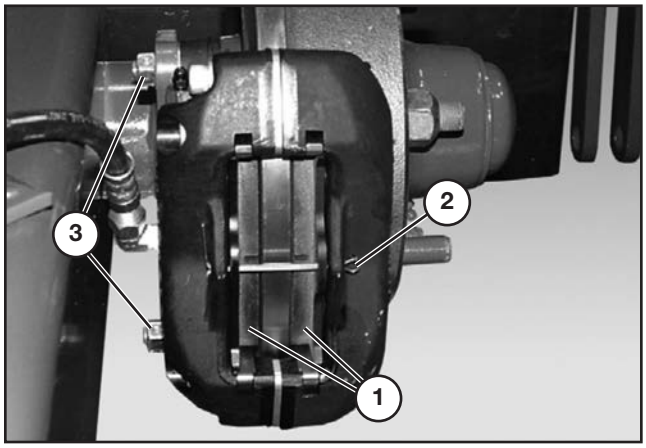
Install the caliper (2) onto the brake drum and push the two bolts (3) through the mounting bracket on the hub.



Tighten the lug nuts (1).

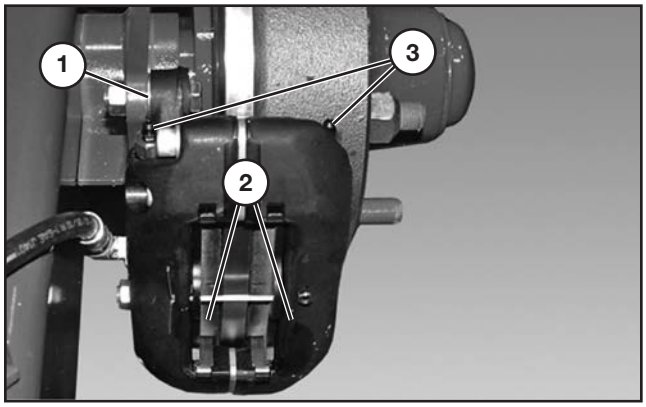
Disc Brakes (Cont'd)

Installing The Calipers And Brake Shoes (Cont'd)



Install the brake pads (1) and cotter pin (2).

Tighten the two bolts (3) to the proper torque. (See "Torque Specifications" on page 102.)



NOTE: *It may be necessary to install spacers (1) between the caliper and mounting bracket to maintain even gap (2) on either side of the disc.*

Install and bleed the air from the brake lines.

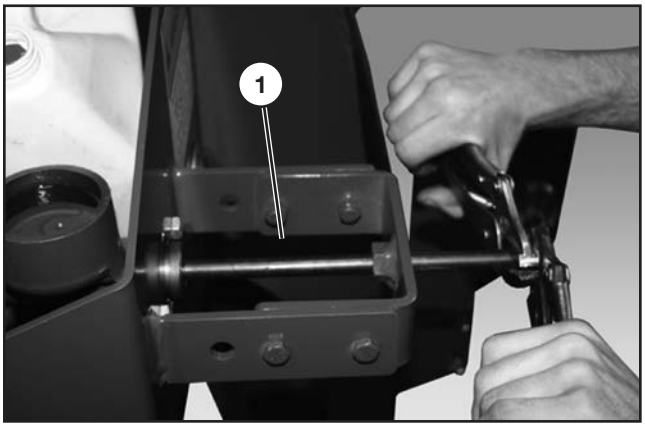
Each caliper has two bleeder fittings. Bleed both the highest fittings (3) on each side.

Bleeding The Brake System

Park the Grain Bag Loader on level ground and turn tractor engine off.



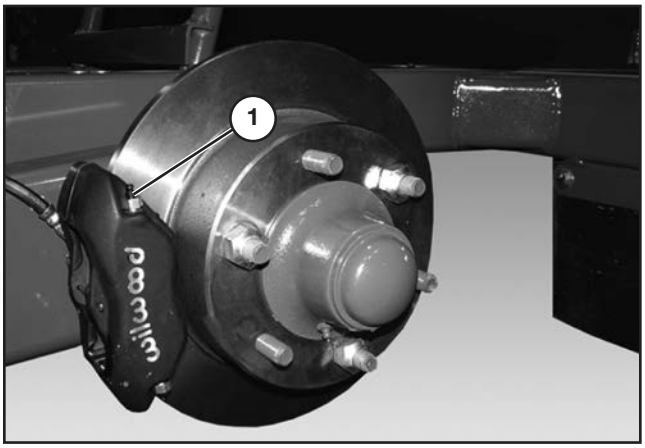
Remove steering wheel and covers before bleeding system.



Use 1/2" auger trap door hinge pin (1) (or equivalent type pin) for pumping master cylinder during bleeding procedure.

Disc Brakes (Cont'd)

Bleeding The Brake System (Cont'd)



Brake Caliper bleed port(s) (1) shown with the lug tire removed.

NOTE: *Two people are required when bleeding the brakes.*

One person will push on the master cylinder piston, to apply pressure to the system.

The second person will alternately loosen and tighten the two top bleed valve(s) (1).

Brake Bleeding Procedure

NOTE: *Keep the master cylinder reservoir full while bleeding the brake system.*

1. Pump and hold the master cylinder, applying pressure to the brake system.

NOTE: *Bleed the brakes on the RH side of the machine first (brakes furthest from the master cylinder).*

2. Open one bleeder valve, allowing air to be released.
3. Close the bleeder valve.

NOTE: *Failure to close the bleeder valve before pressure to master cylinder is released will cause air to be drawn back into the bleeder valve.*

4. Release the pressure on the master cylinder.
5. Push in and hold the master cylinder to apply pressure on the brake system.
6. Open second bleeder valve, allowing air to be released.
7. Close the bleeder valve.
8. Release the pressure on the master cylinder.
9. Repeat this procedure until only a smooth stream of fluid exits the bleeder valve.

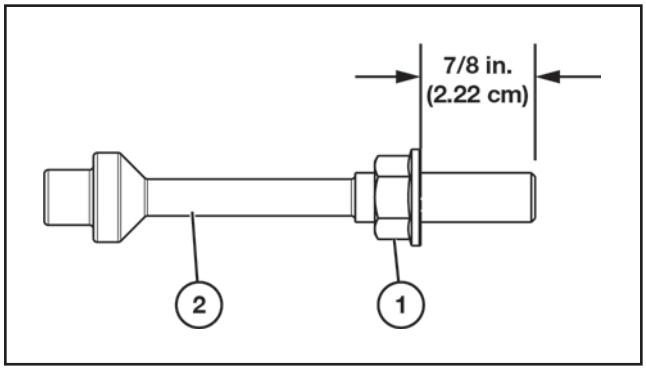
Repeat the above procedure on the LH Brake Caliper.

Reinstall the brake steering wheel. (See "Steering Wheel Assembly" on page 61.)

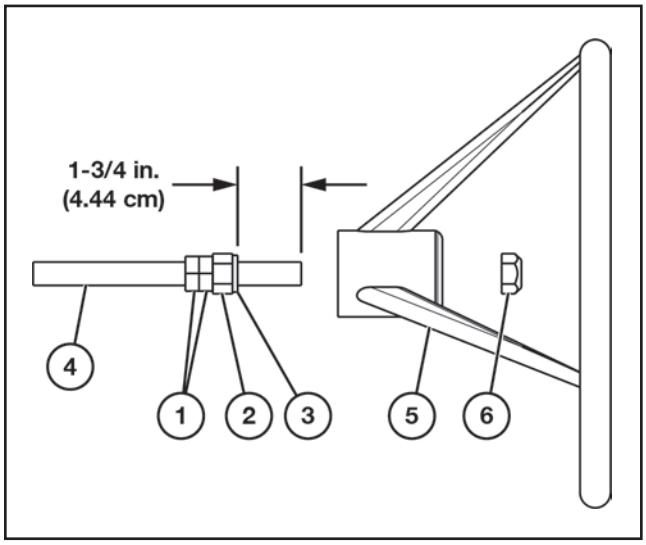
Disc Brakes (Cont'd)

Bleeding The Brake System (Cont'd)

Steering Wheel Assembly

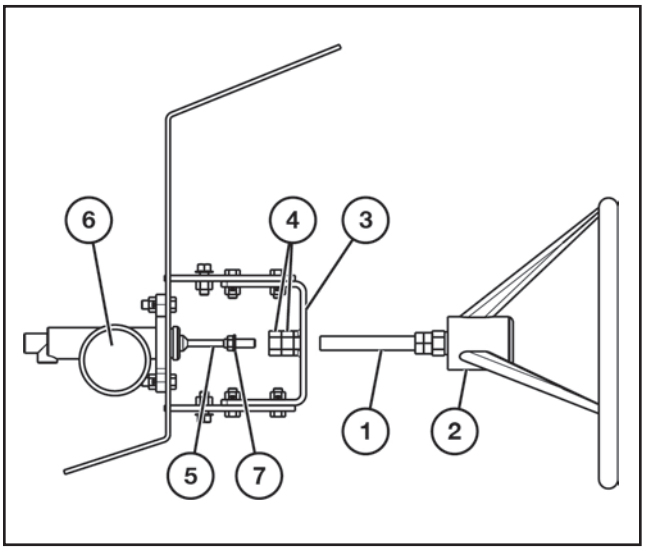


Install a 3/8" serrated flange nut (1) onto the piston rod (2). Leave approximately 7/8 in. (2.22 cm) of exposed threads.



Install two 5/8" coarse thread jam nuts (1), one 5/8" coarse thread nut (2), and one 5/8" lock washer (3) onto the brake actuator rod (4) leaving 1-3/4 in. (4.45 cm) of exposed threads. The 5/8" coarse thread nut (2) should be tight against the 5/8" jam nut (1).

Install the steering wheel (5) and one 5/8" coarse thread lock nut (6). The threads of the brake actuator rod must fully engage the lock nut.



Apply anti-seize to the brake actuator rod (1).

Thread the steering wheel assembly (2) into the mounting bracket (3).

Install the two 5/8" coarse thread nuts (4) onto the brake actuator rod (1) as the rod exits the mounting bracket. Stop when nuts are threaded.

Align and install the piston rod assembly (5) into the master cylinder (6).

Turn the steering wheel to thread the piston rod assembly (5) completely into the brake actuator rod (1).

Tighten the 3/8" serrated flange nut (7) to the brake actuator rod (1).

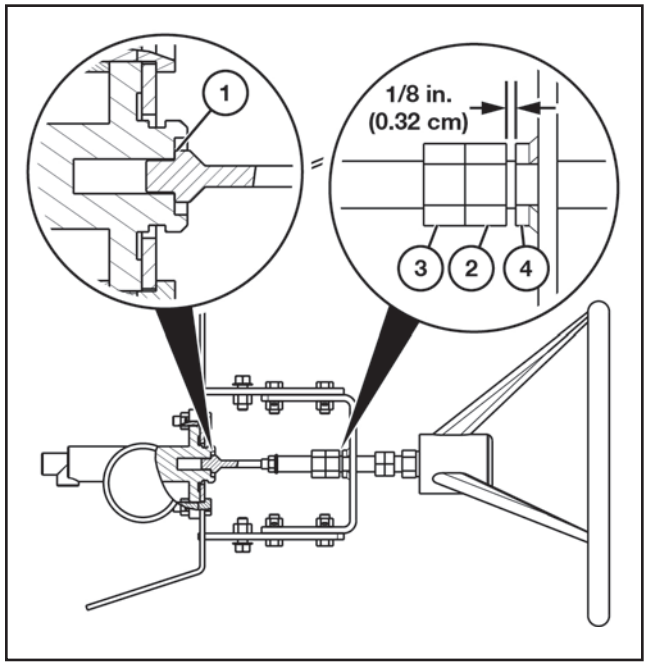
NOTE: *Do not allow the piston rod assembly (5) to fully disengage from the master cylinder (6).*

(Procedure continued on following page.)

Disc Brakes (Cont'd)

Bleeding The Brake System (Cont'd)

Steering Wheel Assembly (Cont'd)



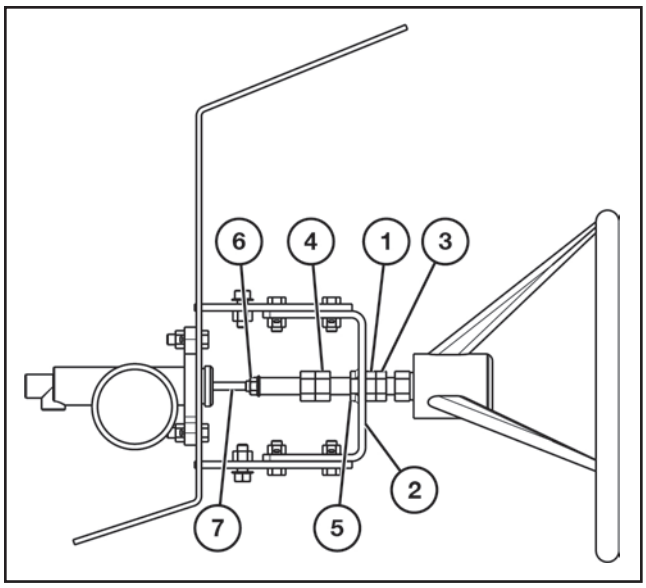
After attaching the piston rod to the brake actuator rod verify that the end of the piston rod just makes contact with the face of the master cylinder (1).

Turn the two 5/8" nuts (2 and 3) until there is a 1/8 in. (0.32 cm) gap (minimum) between the first 5/8" nut and the mechanical stop (4).

Tighten the second 5/8" nut (3) against the first 5/8" nut (2). This gap should never exceed 1/4 in. (0.64 cm).

NOTE: *This gap is required to ensure brakes are completely disengaged when transporting the grain bag loader. Failure to completely disengage the brakes will cause severe damage to the braking system.*

Setting The Brake Pressure



Cycle the system 3 times, turning the steering wheel all the way in and back out, but do not exceed 1000 psi. Pressure should build each time. Set the pressure to 1000 psi. Tighten the 5/8" jam nut (1) to the mounting bracket face (2). Tighten the second 5/8" jam nut (3) against the 5/8" jam nut (1).

If 1000 psi was not attained during the initial setup, follow this procedure:

Turn the steering wheel all the way out until the 5/8" nut (4) contacts the mechanical stop (5).

Loosen the 3/8" serrated flange nut (6), then turn the piston rod (7) out two revolutions. Retighten 3/8" serrated flange nut (6).

Turn the steering wheel in until the piston rod just makes contact with the face of the master cylinder. Reset the space between the two 5/8" nuts (4) and the mechanic stop (5) to 1/8 in. (0.32 cm).

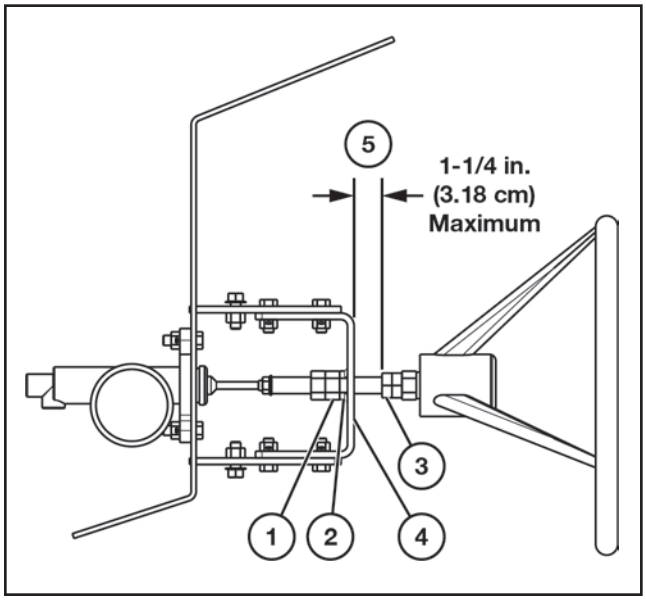
Repeat above procedure until 1000 psi is attained.

(Procedure continued on following page.)

Disc Brakes (Cont'd)

Bleeding The Brake System (Cont'd)

Setting The Brake Pressure (Cont'd)



Turn the steering wheel all the way out until the 5/8" nut (1) contacts the mechanical stop (2).

Verify that the gap between the 5/8" jam nut (3) and the bracket face (4) does not exceed 1-1/4 in. (3.18 cm) (5).

NOTE: *A gap of more than 1-1/4 in. (3.18 cm) can cause severe damage to the braking system.*

Verify there is still a 1/8 in. to 1/4 in. (0.32 cm to 0.64 cm) gap between the piston rod assembly and the master cylinder seat.



NOTE: *It is normal for pressure to drop off overnight or when left for extended periods of time.*

NOTE: *Back brake control wheel fully out to the stop before moving grain bag loader (severe heating damage to brakes can occur).*

Check brake fluid levels and add brake fluid (DOT 3 fluid) if needed (level should be 1/4 in. [0.64 cm]) from top of reservoir.

Brake Pressure Gauge Bleeding Procedure

NOTE: *If the pressure gauge by the brake control wheel is not operating correctly, bleed the line to the gauge.*

1. Pressurize the system.

NOTE: *Remove the gauge mounting bolts before bleeding the line to the gauge.*

2. Loosen the fitting at the gauge to bleed the line.

3. Tighten bleed fitting and install gauge mounting bolts.

Install wheel and tighten bolts or lug nuts to the proper torque. (See "Torque Specifications" on page 102)

Troubleshooting

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

PROBLEM	POSSIBLE CAUSE	SOLUTION
PTO driveline vibration.	PTO driveline loose or worn.	Check the PTO driveline connections, tighten or repair if necessary.
	PTO driveline u-joints dry.	Lubricate the u-joints.
	Driveshaft bent.	Replace.
	PTO slide shaft is dry.	Lubricate the shaft with grease.
Improper stretch on grain bag.	Brake pressure set too high.	Decrease brake pressure.
	Brake pressure set too low.	Increase brake pressure.
	Bag tray gap too small/large.	Adjust gap as needed.
	Bagging on too steep of a grade.	Relocate to flatter ground.
	Machine pan clearance to ground improper.	Adjust up or down.
Grain leaking by and filling pan.	Ratchet strap is too loose.	Tighten ratchet strap.
	Bag is bunched up in corner	Raise cradle to take up the bag slack.
	Pan gap set too large.	Decrease pan gap to tunnel.
	Rubber flaps not seated properly.	Verify flaps are not curled up.
	Bagging on a side hill.	Relocate to another area without sideslope.
Disc brakes not working properly.	Brake pressure set too high/low.	Adjust brake pressure.
	Air in brake lines.	Bleed air from brake lines.
	Worn brake shoes.	Replace brake shoes.
	Rotors are rusty.	Clean rotors.
	Rotors are coated with mud.	Clean rotors.
	Brake fluid low.	Add brake fluid (use DOT 3 Fluid).
	Master cylinder failed.	Replace master cylinder.
	Brake pistons not moving.	Clean pistons or rebuild / replace brake caliper.
Brake discs are hot after towing.	Braking wheels are touching the ground.	Adjust linkage to clear the ground during transport.
		Raise transport axle higher.

Troubleshooting (Cont'd)

PROBLEM	POSSIBLE CAUSE	SOLUTION
Rust on the rotors.	Not used recently.	Apply slight pressure, move the machine slowly to burnish off the rust.
Brakes don't develop pressure.	Brake fluid low.	Add brake fluid (use DOT 3 Fluid).
	Air in lines.	Bleed brakes.
	Master cylinder pin adjusted wrong	Reset dimensions.
Cradle lift not working.	Winch is not working.	Replace winch.
	Winch is not receiving power.	Replace wiring.
		Clean electrical connections.
	Relay is burned out.	Replace relay.
	Relay not receiving a power signal.	Verify signal controller delivering power.
	Receiver not sending power to the relay switch.	Replace receiver.
		Re-calibrate remote (see receiver cover).
	Remote not sending signal.	Recharge remote battery.
		Re-calibrate remote (see receiver cover).
		Replace battery in remote.
	Circuit breaker is tripped.	Time delay, will automatically reset
		Replace breaker.
Cradle trolley not working.	Motor is not working.	Replace motor.
	Chain not engaging sprocket.	Repair / adjust.
	Motor is not receiving power.	Replace wiring.
		Clean electrical connections.
	Relay is burned out.	Replace relay.
	Relay not receiving a power signal.	Verify signal controller delivering power.
	Receiver not sending power to the relay to switch.	Replace receiver.
		Re-calibrate remote.
	Remote not sending signal.	Recharge remote battery.
		Re-calibrate remote (see receiver cover).
		Replace battery in remote.
	Circuit breaker is tripped.	Time delay, will automatically reset.
		Replace breaker.

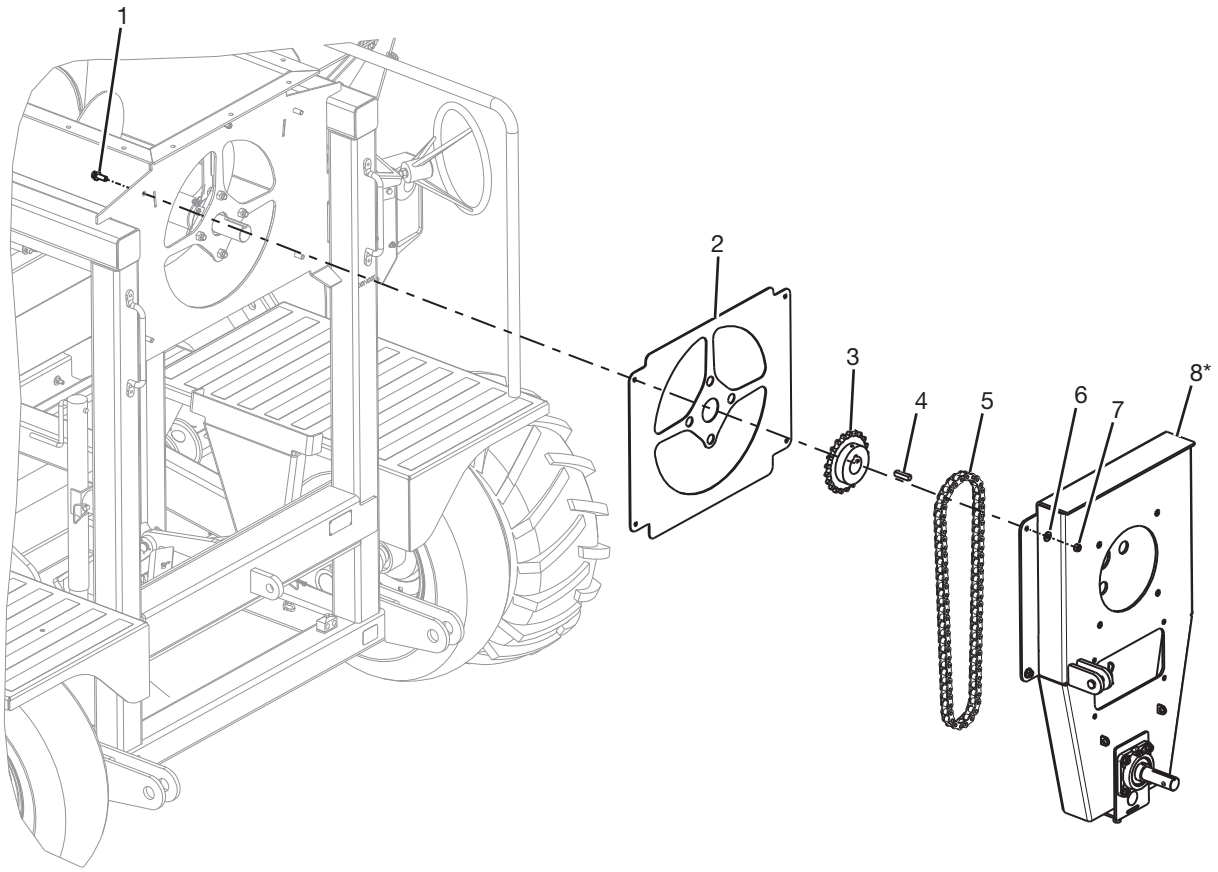
Troubleshooting (Cont'd)

PROBLEM	POSSIBLE CAUSE	SOLUTION
Cradle winch does not have enough power.	Poor electrical connection at the tractor.	Tighten or clean battery connections.
Hydraulic height wheels not holding.	Hydraulic cylinder worn.	Replace seals or cylinder.
	Loose hydraulic connections.	Tighten all hydraulic connections.
	Tractor valve leaking.	Repair tractor hydraulics.
Bag pan apron not rolling in.	Motor is not working.	Replace motor.
	Motor is not receiving power.	Replace wiring.
		Clean electrical connections.
	Relay is burned out.	Replace relay.
	Relay not receiving a power signal.	Verify signal controller delivering power.
	Receiver not sending power to the relay to switch.	Replace receiver.
		Re-calibrate remote (see receiver cover).
	Remote not sending signal.	Re-calibrate remote (see receiver cover).
		Recharge remote battery.
		Replace battery in remote
	Rivets at winding tube torn loose.	Replace rivets
	Motor to tube connection separated.	Repair / replace.
	Circuit breaker is tripped.	Time delay, will automatically reset.
		Replace breaker.
Main auger is making noise.	Bearing at discharge end is dry.	Lubricate / inspect / replace.
	Bearing at discharge end failed.	Replace bearing.
	Foreign material stuck in auger.	Inspect and remove foreign material.
	Worn auger.	Replace auger.



PARTS IDENTIFICATION
AND
HYDRAULIC SCHEMATICS

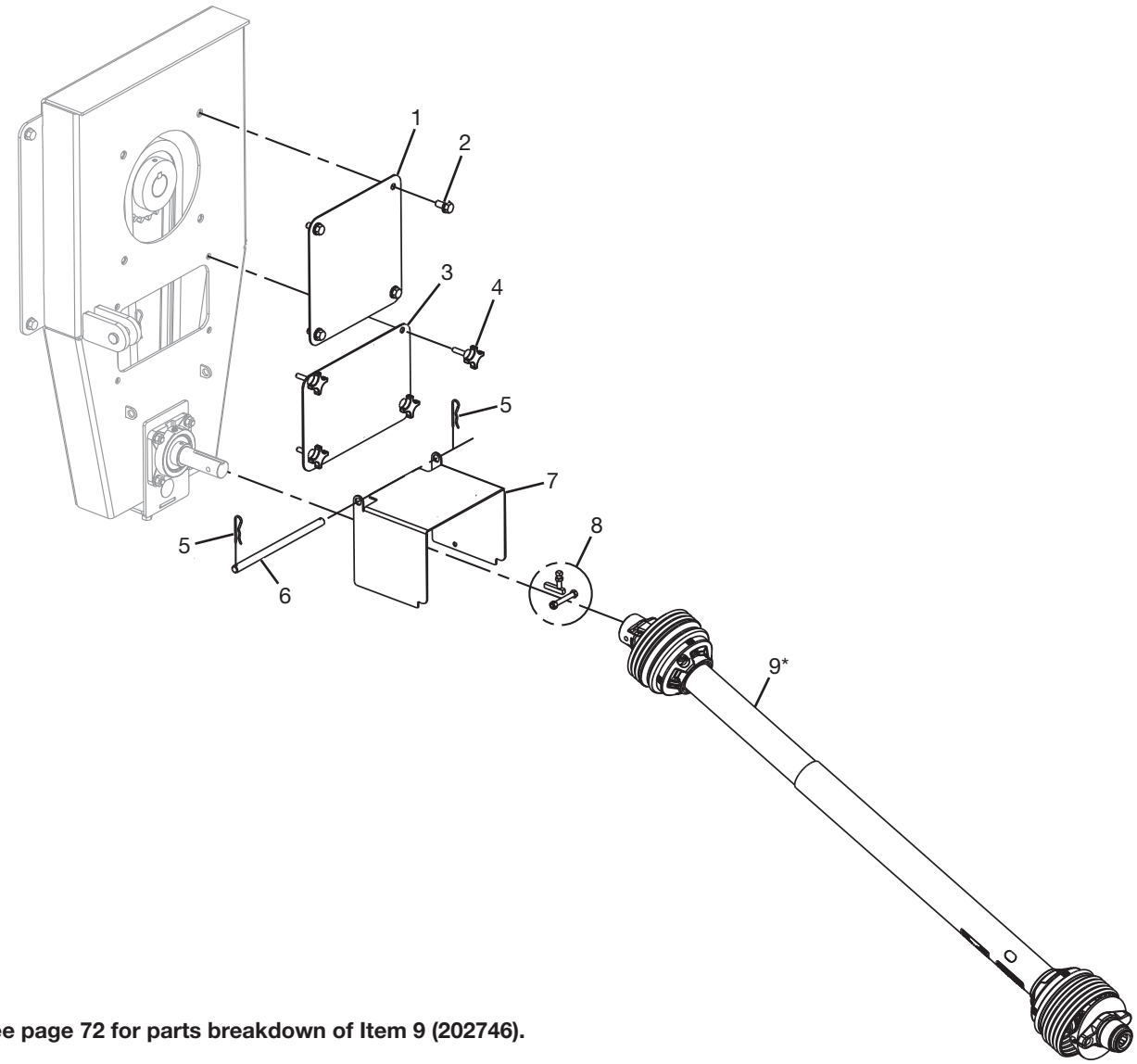
Drive Assembly



*** See page 70 for parts breakdown of Item 8 (N37990).**

#	QTY.	PART #	DESCRIPTION
1	4	N18360	BOLT,1/2-13 X 1-1/4 SER FLG
2	1	N115918	GASKET, XLB10 GEARBOX 3/8" TH
3	1	N22848	SPROCKET, 80B21 - 2" KEYED
4	1	7122-04	KEY, 1/2" X 2"
5	1	N39012	CHAIN, #80 ROLLER 68 PITCH
6	4	4068	WASHER, 1/2" SAE FLAT
7	4	4054	NUT, LOCK 1/2" TOP
8	1	N37990	TOWER, XLB10 FRONT

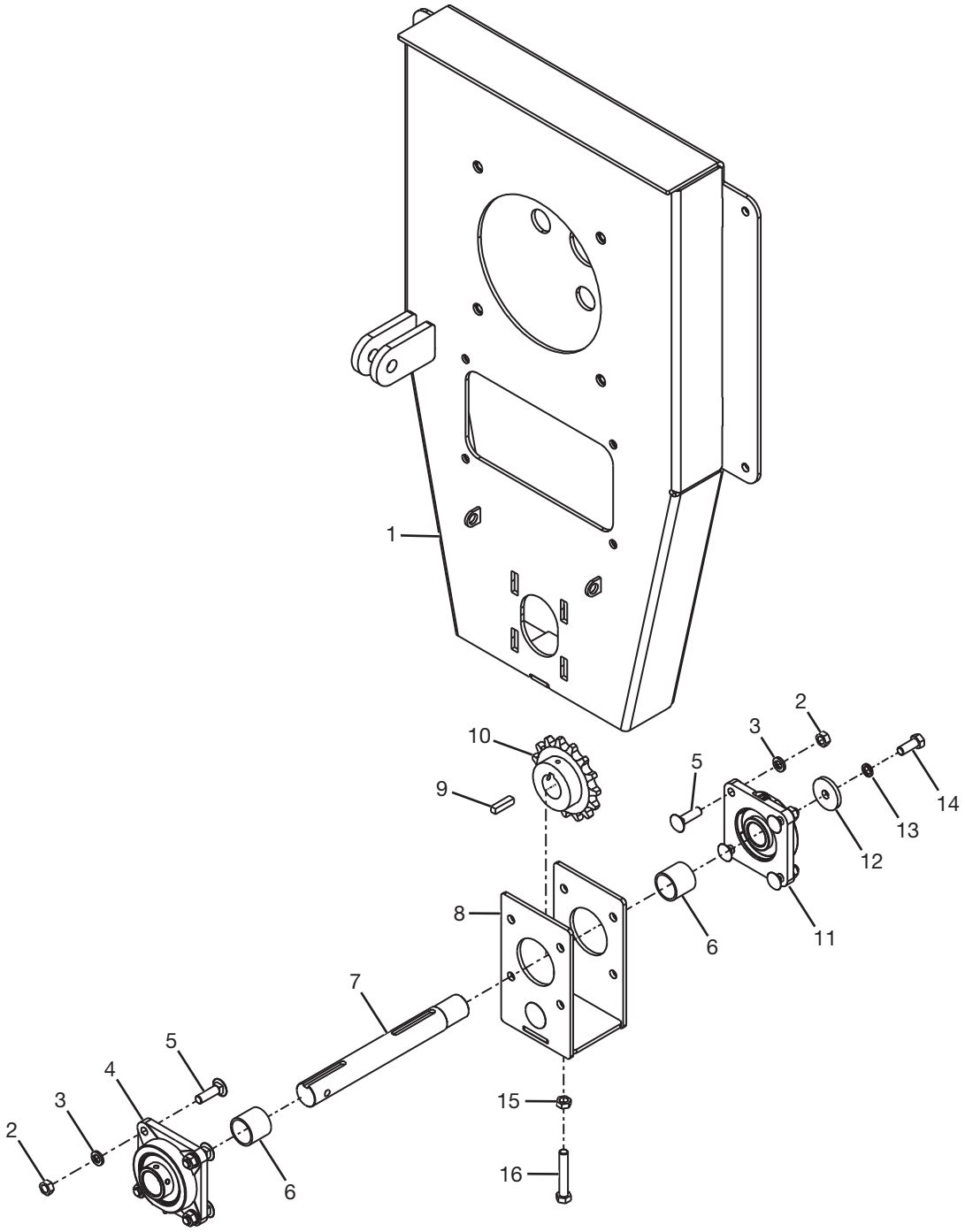
Drive Assembly (Cont'd)



*** See page 72 for parts breakdown of Item 9 (202746).**

#	QTY.	PART #	DESCRIPTION
1	1	N39011	COVER, XLB10 FRONT HOUSING TOP
2	4	N26748	BOLT, 1/2" X 1" SER FLG
3	1	N68840	COVER, XLB FT HOUSE BOT W/DEC
4	4	N23873	KNOB, 3/8" X 1-1/2 FOUR PRONG
5	2	4336	CLIP, HAIRPIN 1/8" X 2-1/4"
6	1	N22553	PIN, GBU PTO SHIELD
7	1	N68848	SHIELD, GBL10CE PTO W/DECAL
8	2	201012	GROUP, GBL/XLB PTO BOLT
9	1	202746	PTO, 1-3/8-6 SPLINE 1-1/2 RB

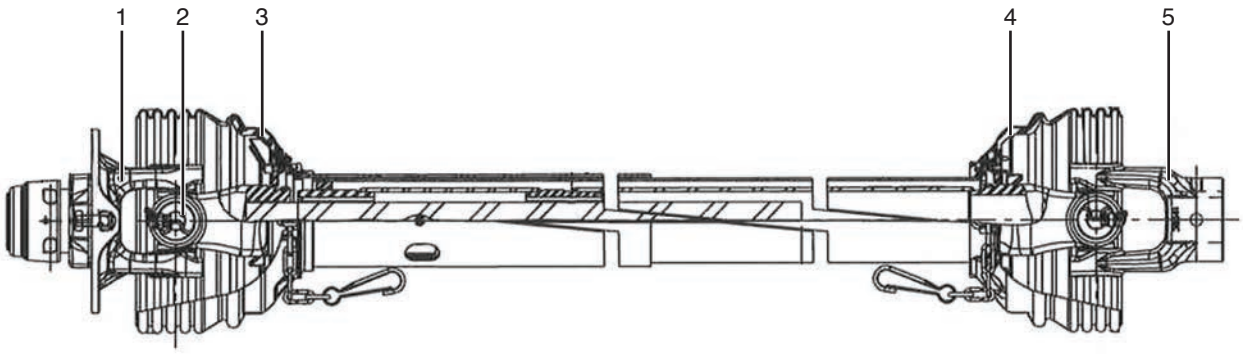
Gearbox (N37990)



Gearbox (N37990)

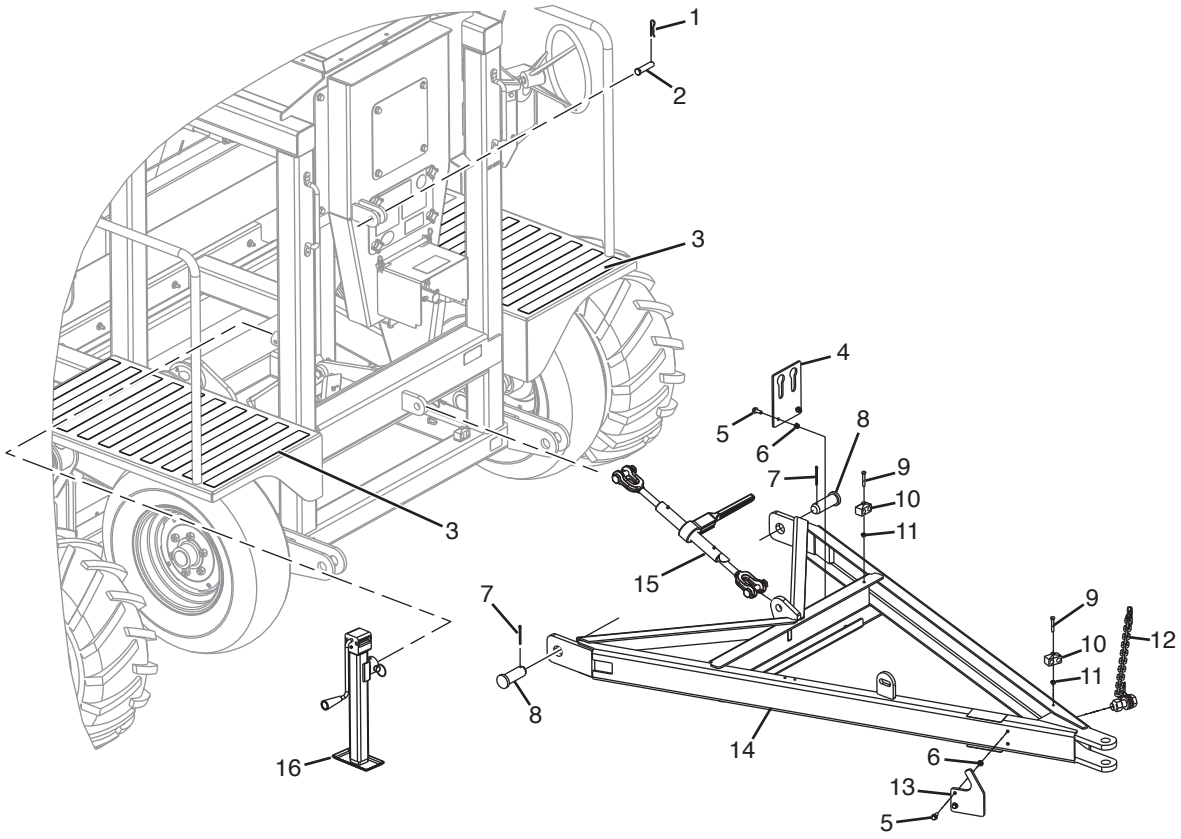
#	QTY.	PART #	DESCRIPTION
1	1	N37986	HOUSING, XLB10 FRONT
2	8	4250	NUT, STANDARD 1/2
3	8	4155	WASHER, LOCK 1/2"
4	1	N30229	BEARING, 1-1/2" DODGE 4-BLT FLG
5	8	4477	BOLT, CARRIAGE 1/2" X 1-3/4"
6	2	202126	SPACER, GBL SPROCKET
7	1	N33268	SHAFT, GBL10 BOTTOM DRIVE
8	1	N69025	BRACKET, XLB BRG MNT W/DECALS
9	1	7121-01	KEY, 3/8" X 1-1/2"
10	1	N22468	SPROCKET, 80B15 - 1-1/2" RB
11	1	N30228	BEARING, 1-7/16" DODGE 4-BLT FL
12	1	4074	WASHER, 2" OD X 1/2" ID X 1/4"
13	1	N16472	WASHER, 1/2 NORDLOCK
14	1	4535	BOLT,1/2-20 X 1-1/4 GR 8
15	1	4317	NUT, 1/2" JAM
16	1	4151	BOLT, 1/2" X 3" FULL THREAD GR 5

PTO (202746)



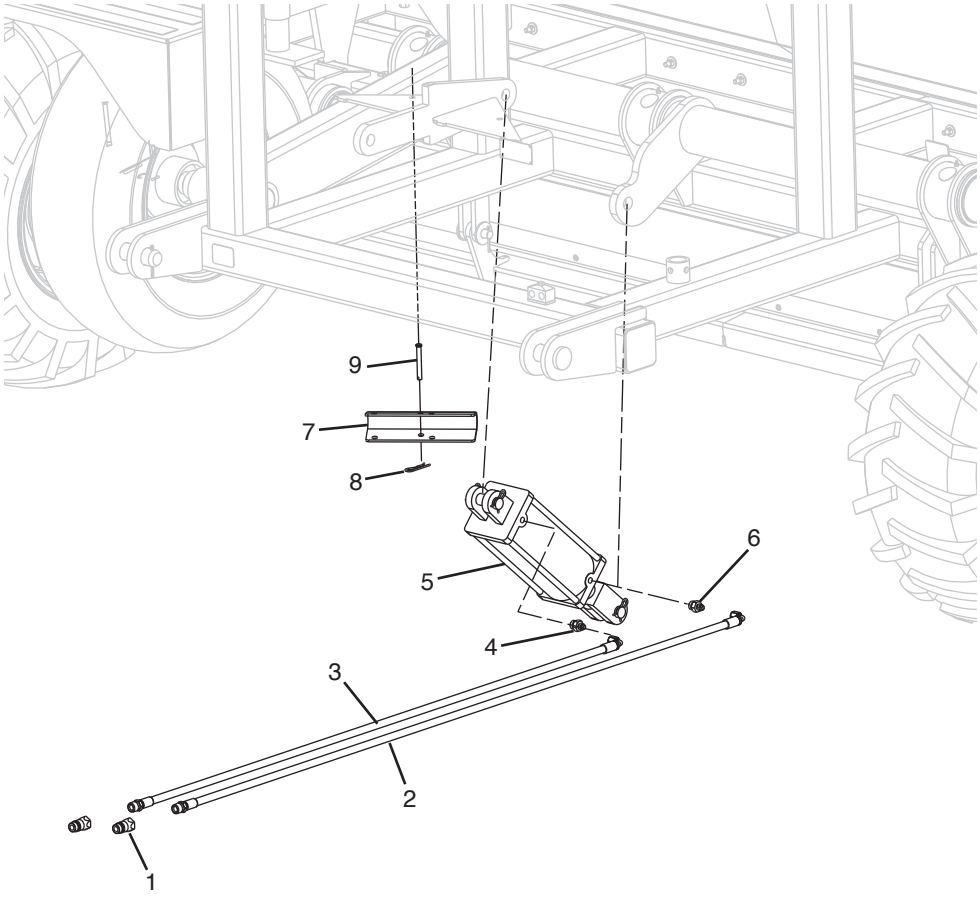
#	QTY.	PART #	DESCRIPTION
1	1	202749	ASM, BALL SHEAR 35
2	2	N153460	CROSS KIT, 35R
3	1	N153465	OUTER GUARD
4	1	N153466	INNER GUARD
5	1	8209-08	YOKE, 35

Hitch Assembly and Jack



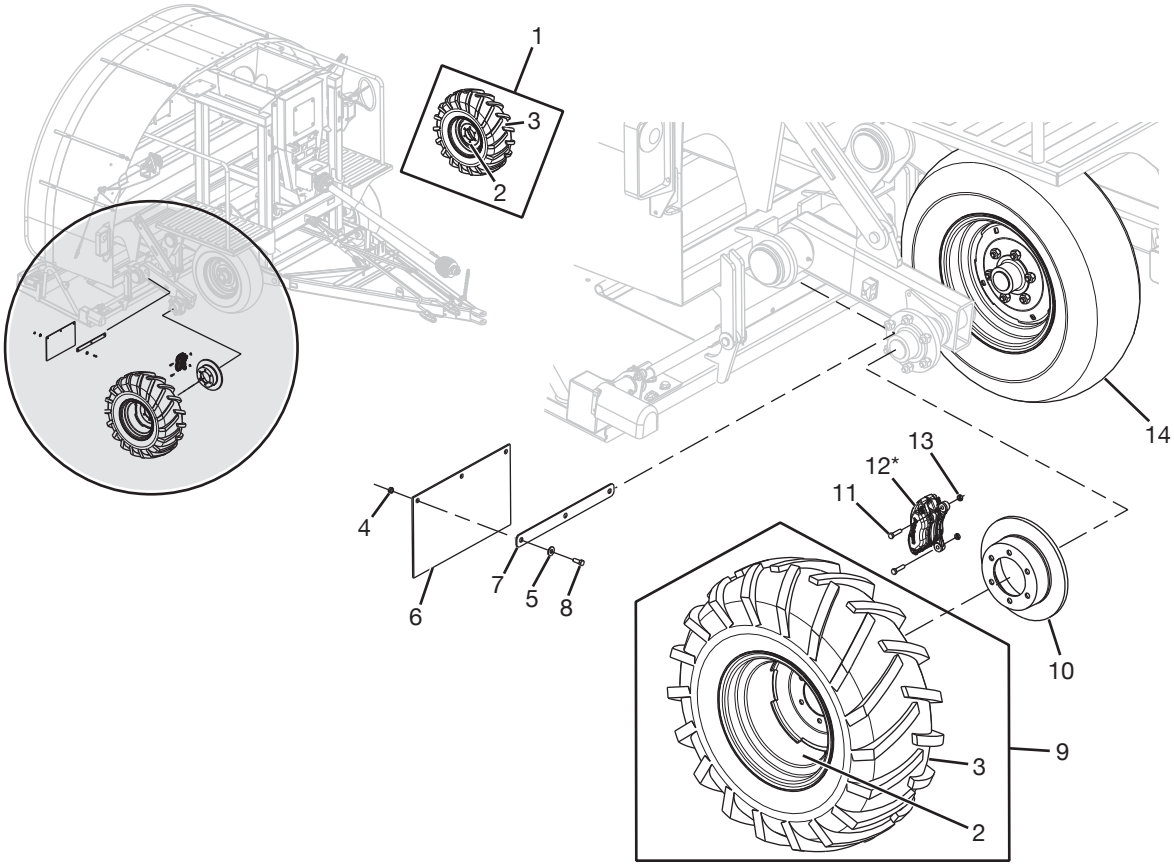
#	QTY.	PART #	DESCRIPTION
1	1	4336	CLIP, HAIRPIN 1/8" X 2-1/4"
2	1	N23728	PIN, 3/4" X 2-3/4" PLATED
3	20	N35193	TAPE, XLB10 ANTISLIP PLATFORM
4	1	N37365	HOLDER, GBL10 HYD HOSE
5	4	N26743	BOLT, 3/8" X 1" SER FLG
6	4	4979	NUT, LOCK 3/8" SER FLG
7	2	4329	PIN, COTTER 7/32" X 2-1/2"
8	2	N29197	PIN, 1-1/2" X 3-1/5" TAPERED HITCH
9	2	4227	BOLT, 5/16" X 2" GRADE 5
10	3	N21365	CLAMP, 3/8" DOUBLE HOSE
11	2	N26742	NUT, LOCK 5/16" SER FLG
12	1	N24248	CHAIN, SAFETY W/MOUNT HARDWARE
13	1	N30863	HOLDER, GBL10 PTO END
14	1	202140	HITCH, XLB WITH DECALS
15	1	202145	TURNBUCKLE, RATCHET 18.5-28.5
16	1	206356	JACK, NORTHFIELD 5000 LB SQ

Hydraulic Cylinder



#	QTY.	PART #	DESCRIPTION
1	2	N11825	COUPLER, 1/2" MALE PIONEER
2	1	N35263	HOSE, 3/8" X 186" - 6 FJIC -8MP
3	1	N35262	HOSE, 3/8" X 177" - 6 FJIC -8MP
4	1	N25421	RESTRICTOR, 6MJIC - 8MOR - .062
5	1	N25166	CYLINDER, HYD 4" X 8" - 3000 PSI
6	1	N17022	ADAPTER, 6MJIC - 8MOR
7	1	N19768	CYLINDER STOP 9.5" - UNIVERSAL
8	1	4089	CLIP, HAIRPIN .093 X 1-5/8"
9	1	4093	PIN, 3/8" X 3" (2.75" USEABLE)

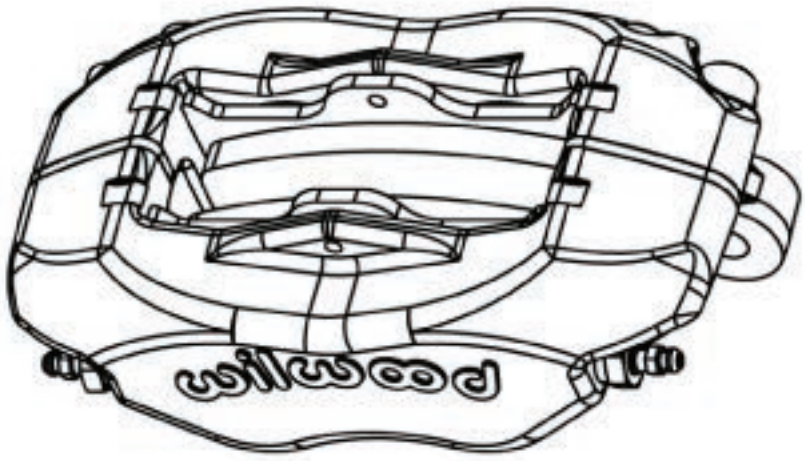
Wheel Assembly



*** See page 76 for parts breakdown of Item 12 (N22794).**

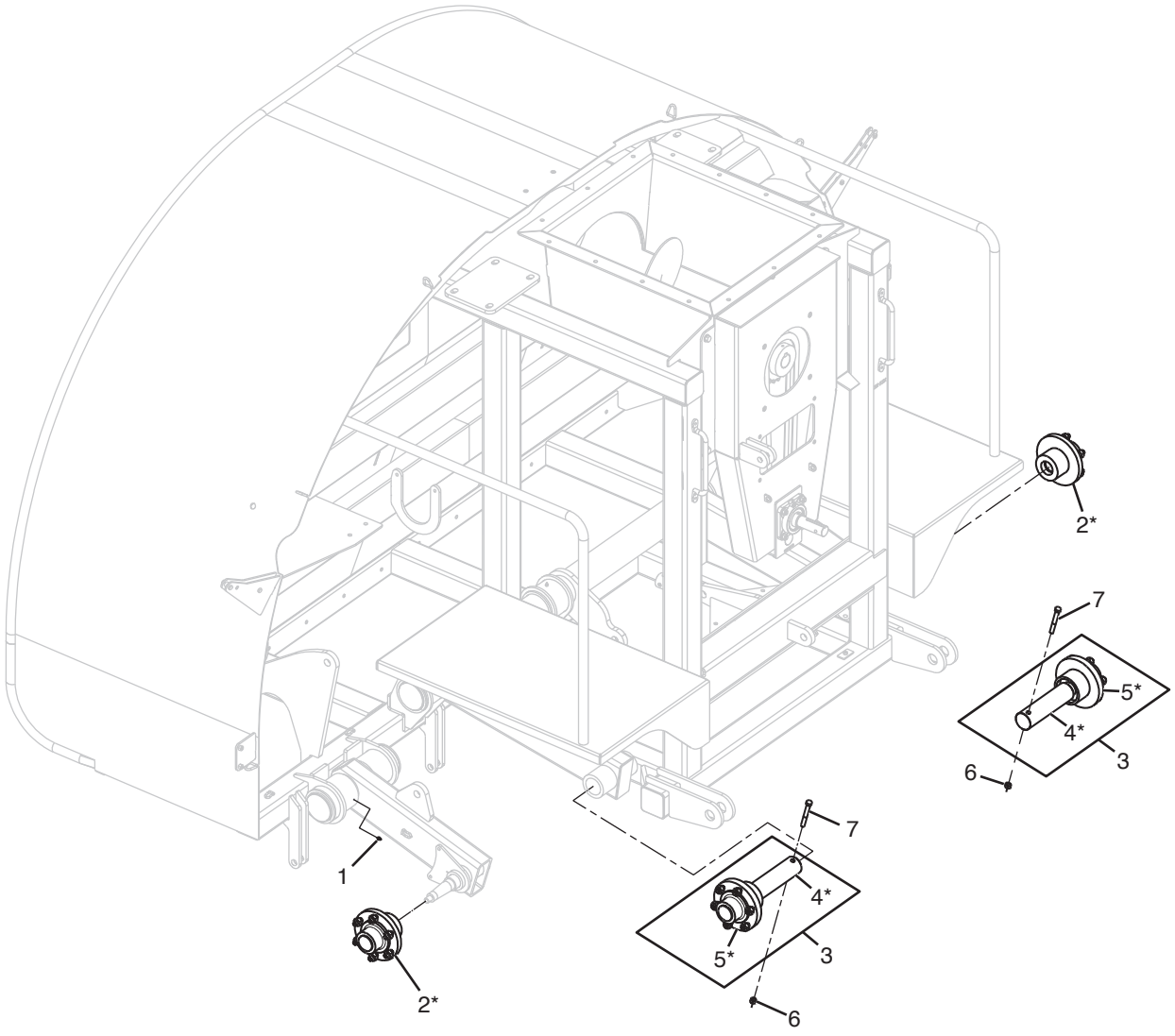
#	QTY.	PART #	DESCRIPTION
1	1	N22851	WHEEL, 12.5L-15 SURE GRIP LEFT (INCLUDES ITEMS 2 & 3)
2	2	N22396	RIM, 10" OFFSET GBL
3	2	N25114	TIRE, 12.5L - 15 SURE GRIP
4	6	4979	NUT, LOCK 3/8" SER FLANGE
5	6	4064	WASHER, FLAT 3/8"
6	2	N23839	FLAP, GBL RUBBER MUD
7	2	N23840	STRIP, GBL MUD FLAP BACKING
8	6	4195	BOLT, 3/8" X 1" GRADE 5
9	1	N22849	WHEEL, 12.5L-15 SURE GRIP RGHT (INCLUDES ITEMS 2 & 3)
10	2	N27108	ROTOR, GBL BRAKE CAST
11	4	4006	BOLT, 3/8" X 1-1/2" GRADE 5
12	2	N22794	CALIPER, WILLWOOD BRAKE
13	4	4052	NUT, LOCK 3/8"
14	2	N29027	WHEEL, 11L-15 HIWAY F RATING

Brake Caliper (N22794)



WILWOOD BRAKE CALIPER SERVICE PARTS			
DESCRIPTION	**WILWOOD P/N**	**LOFTNESS P/N**	**QTY**
Cotter Pins 1/8" x 3" (Forged Billet Dynalite Caliper)	WIL - 180 - 0055	N26517	Set of 10
Caliper Body Seal (Sold Separately)	WIL - 210 - 2582	N26518	2 Per Brake
Brake Bleeder Screws 1/8" - 27 NPT	WIL - 220 - 0627	N26519	Set of 4
Brake Caliper O-Ring Seals, Fits 1.75" Dia. Pistons (Rebuild Kit Rubber)	WIL - 130 -2655	N26520	1 Set
Caliper Piston (Stainless Steel) 1.75" Dia.	WIL - 200 - 7528	N26521	Each

Wheel Hubs and Spindles



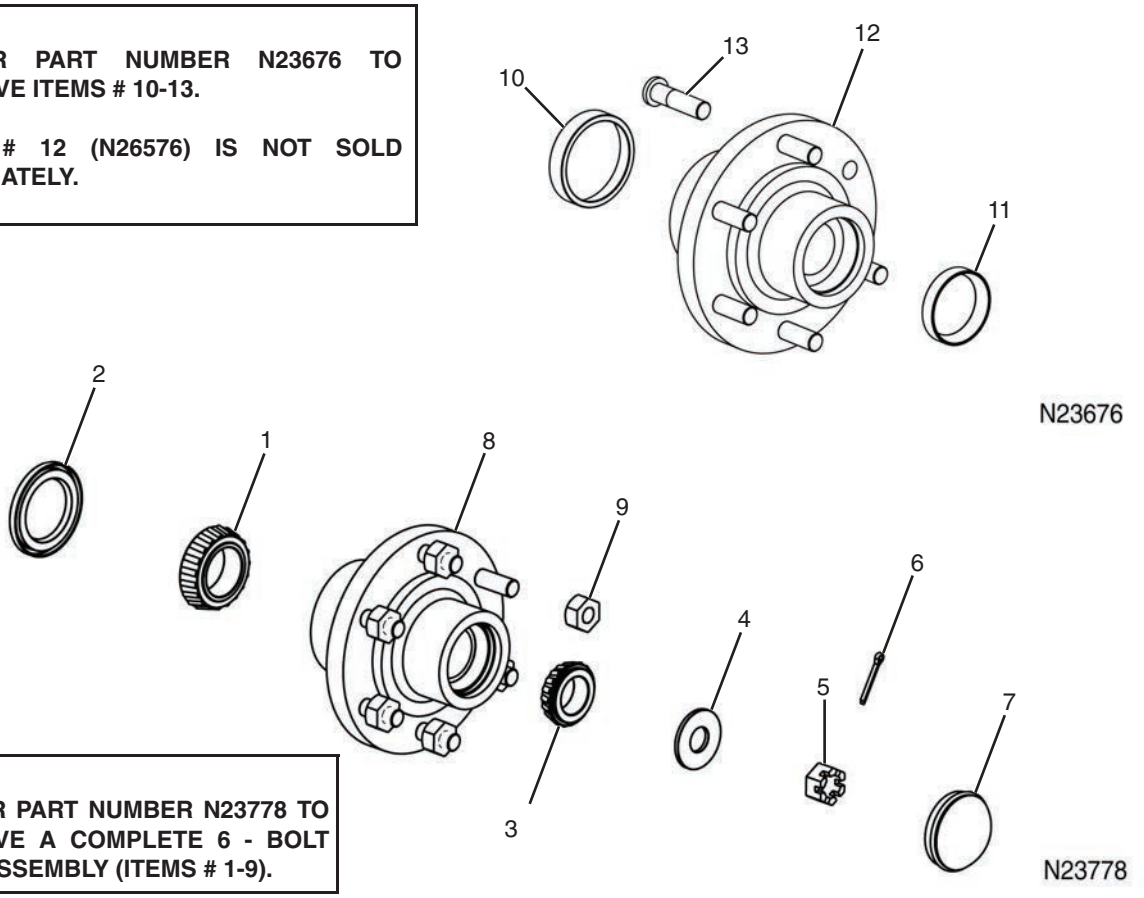
*** See page 78 for parts breakdown of Item 2 (N23778).**
See page 79 for parts breakdown of Item 5 (N29054).
See page 79 for parts breakdown of Item 4 (N67437).

#	QTY.	PART #	DESCRIPTION
1	7	4105	GREASE-ZERK, 1/4" SCREW-IN
2	2	N23778	HUB, 6 BOLT 6" PAT W/STUDS
3	2	N67434	ASM, XLB10 TRANS HUB & SPDL
4	2	N67437	SPINDLE, XLB10 TRANSPORT SH
5	2	N29054	HUB, 6 BOLT 6" PAT 4900 LB HD
6	2	4436	NUT, 1/2" LOCK FN TD GRADE 8
7	2	4975	BOLT, 1/2" X 4" FN TH GR 8

6-Bolt Hub

NOTE:

1. **ORDER PART NUMBER N23676 TO RECEIVE ITEMS # 10-13.**
2. **ITEM # 12 (N26576) IS NOT SOLD SEPARATELY.**

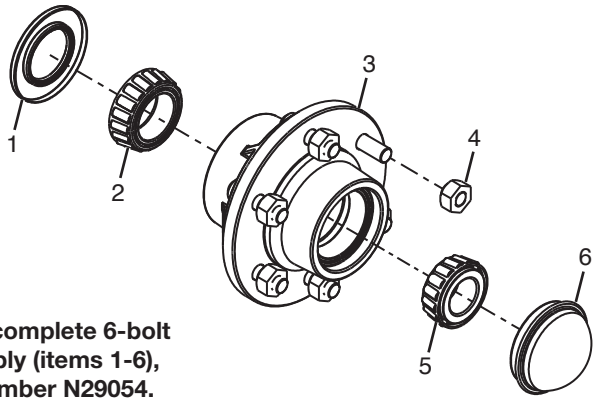


NOTE:

1. **ORDER PART NUMBER N23778 TO RECEIVE A COMPLETE 6 - BOLT HUB ASSEMBLY (ITEMS # 1-9).**

#	QTY.	PART #	DESCRIPTION
1	1	8082 - 03	CONE, BRG. (LARGE) 6 BOLT HUB LM67048
2	1	8082 - 04	SEAL, 6 BOLT HUB GREASE
3	1	8082 - 06	CONE, BRG. (SMALL) 6 BOLT HUB LM501349
4	1	8082 - 07	WASHER, 6 BOLT HUB
5	1	8082 - 08	NUT, CASTLE P251701 - SPINDLE
6	1	8082 - 09	PIN, COTTER (6 BOLT HUB)
7	1	8082 - 10	CAP, END (6 BOLT HUB)
8	1	N23676	HUB, 6 BOLT STUD (N23778 SERVC)
9	6	N23764	NUT, LUG 9/16 - 18UNF (N23778)
10	1	8082 - 02	CUP, BEARING (LARGE) 6BLT. HUB LM501310
11	1	8082 - 05	CUP, BEARING (SMALL) 6BLT. HUB LM67010
12	1	N26576	CASTING, HUB 6 BOLT (NO PARTS)
13	6	N27304	STUD, HUB 9/16 - 18UNF

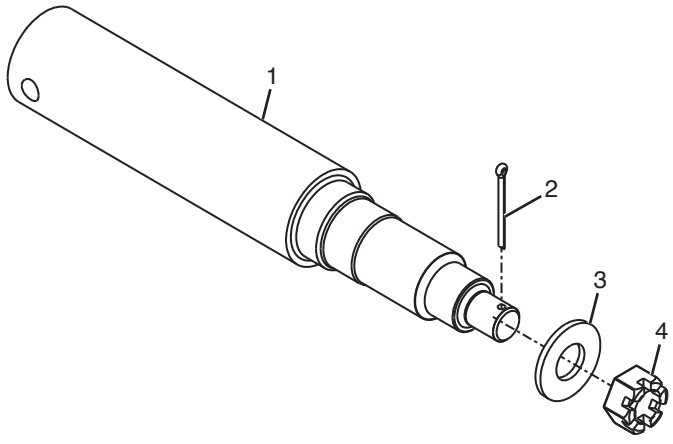
Hub (N29054)



To order a complete 6-bolt hub assembly (items 1-6), use part number N29054.

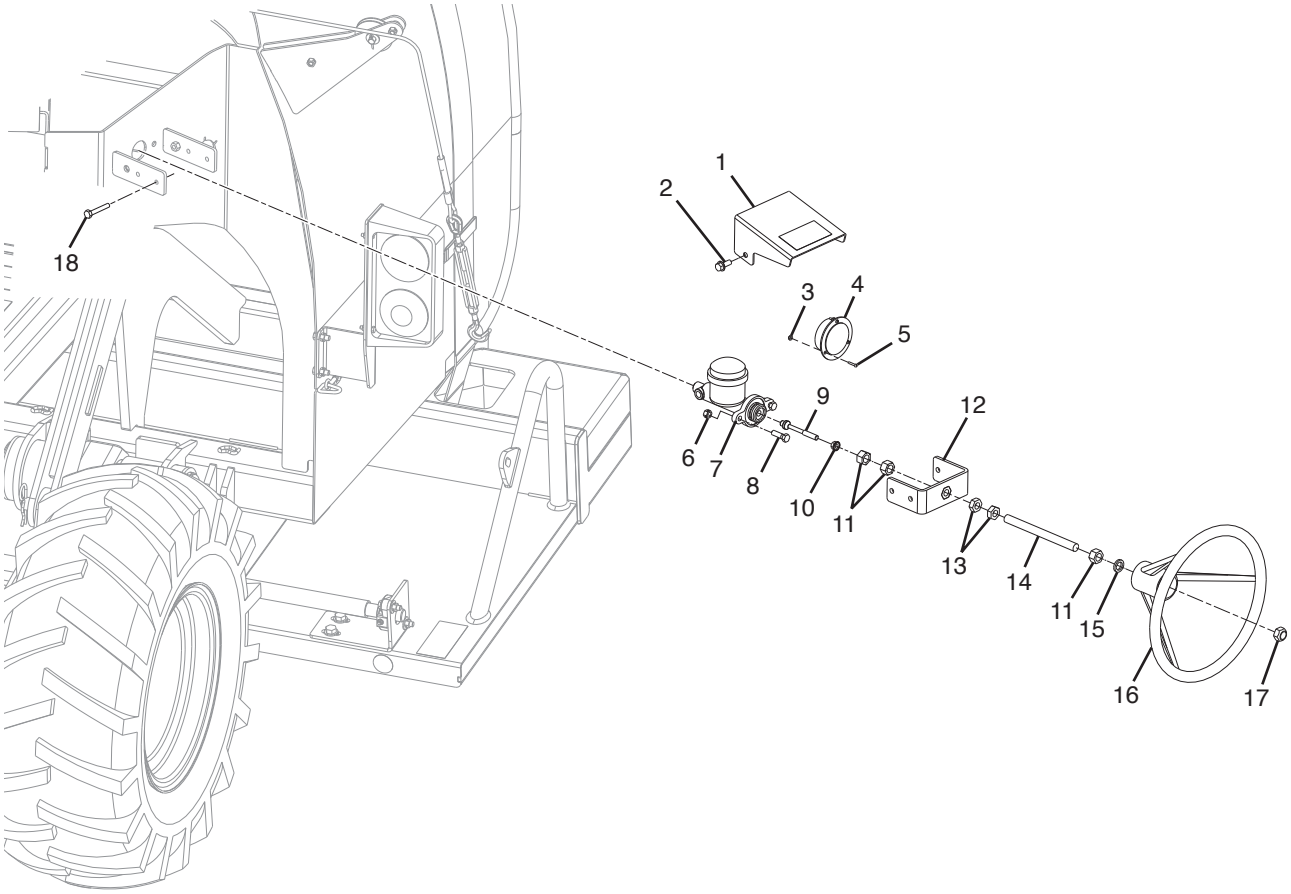
#	QTY.	PART #	DESCRIPTION
1	1	N89176	SEAL, 6-BOLT HUB N29054
2	1	N89172	BEARING, TAPERED ROLLER 1.796
3	1	N89170	HUB, 6-BOLT W/STUD & CUPS
4	6	N23764	NUT, LUG 9/16-18UNF (N23778)
5	1	N89174	BEARING, TAPERED ROLLER 1.375
6	1	N89178	CAP, 6-BOLT HUB N29054

Spindle (N67437)



#	QTY.	PART #	DESCRIPTION
1	1	N67437	SPINDLE, GBA PVTG TRANSPORT
2	1	4092	PIN, COTTER 5/32" X 2"
3	1	N89461	WASHER, 2 X 15/16 X .164 PLAIN
4	1	N89489	NUT, CASTLE 7/8"-14

Brake Control Assembly

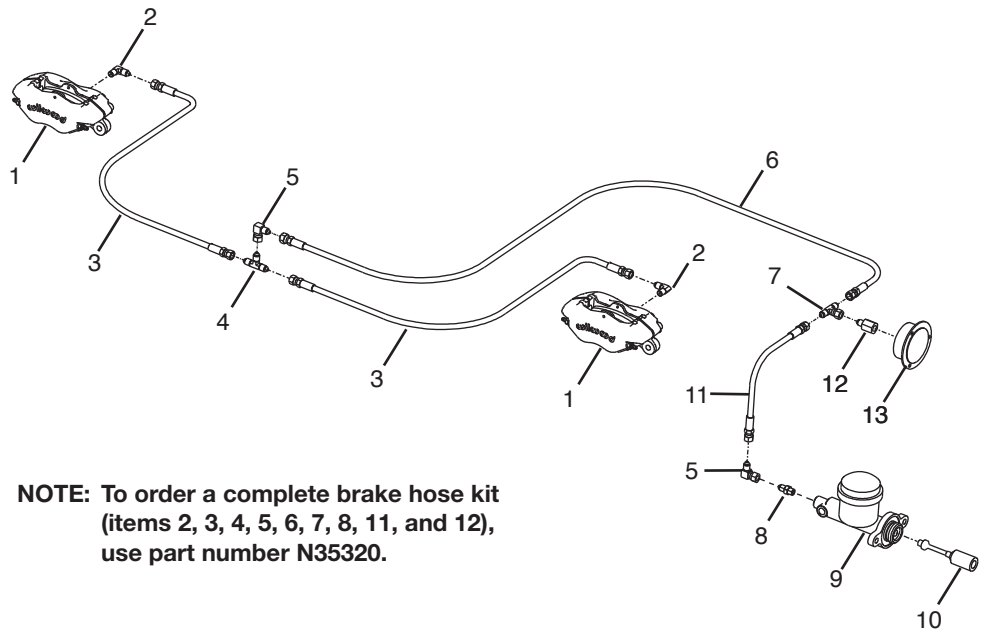


NOTE: See “Brake Diagram (N47939)” on page 82 for hose routing details.

Brake Control Assembly

#	QTY.	PART #	DESCRIPTION
1	1	N69051	COVER, BRAKE WHEEL W/DECALS
2	2	N26743	BOLT, 3/8" X 1" SER FLG
3	3	4977	NUT, LOCK #6-32UNC
4	1	N22377	GUAGE, 2000 PSI HYD PRESSURE
5	3	4976	SCREW, BHCS #6-32UNC X 3/4"
6	2	4052	NUT, LOCK 3/8"
7	1	N33231	CYLINDER, CARDONE MODIFIED
8	2	4005	BOLT, 3/8" X 1-1/4" GRADE 5
9	1	N25813	ROD, CARD 2-PC CON
10	1	4979	NUT, LOCK 3/8" SER FLG
11	3	4438	NUT, 5/8" STANDARD GRADE 8
12	1	206380	MOUNT, GBL BRAKING WHEEL UNC
13	2	4282	NUT, 5/8" JAM
14	1	209320	ROD, 5/8-11UNC X 7.375
15	1	N16473	WASHER, 5/8 NORDLOCK
16	1	N33112	WHEEL, STEERING DEEP PLASTIC
17	1	4055	NUT, LOCK 5/8" TOP
18	4	4195	BOLT, 3/8" X 1" GRADE 5

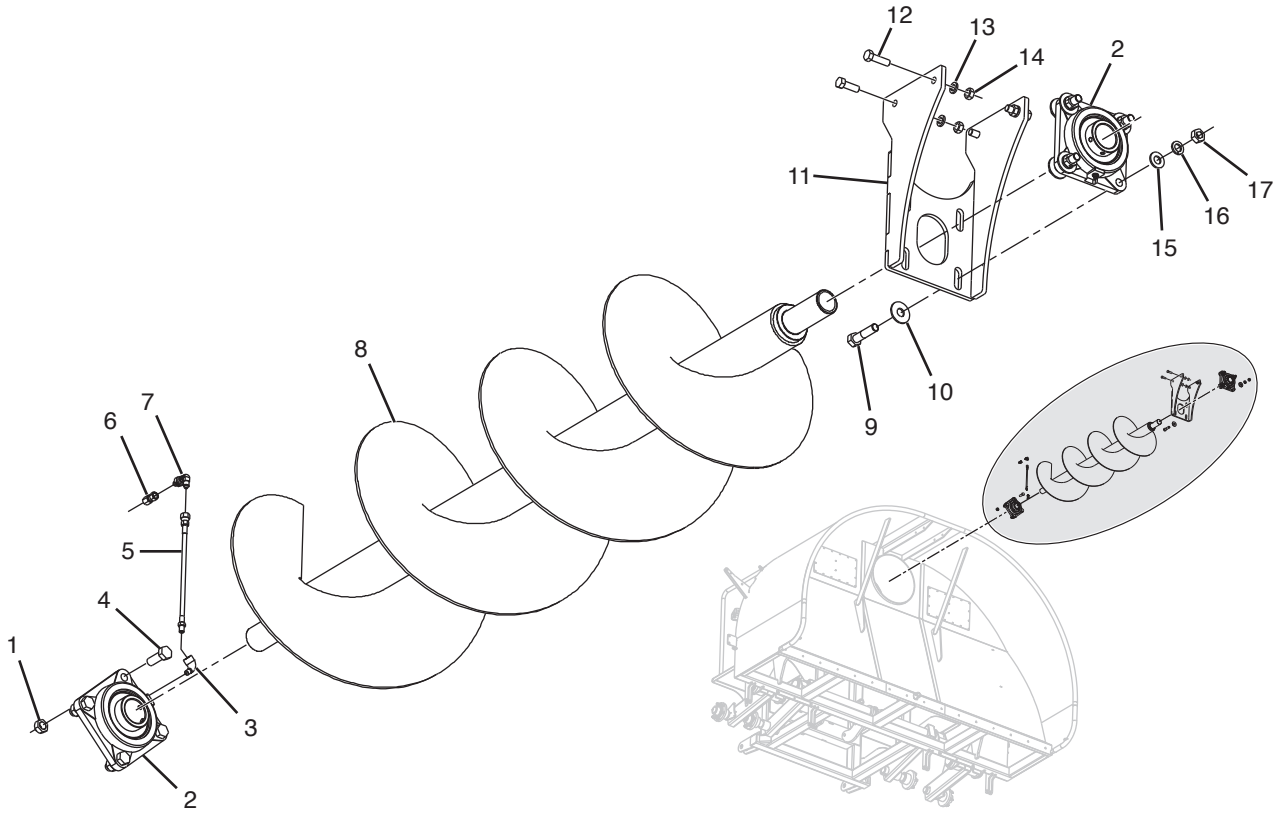
Brake Diagram (N47939)



NOTE: To order a complete brake hose kit (items 2, 3, 4, 5, 6, 7, 8, 11, and 12), use part number N35320.

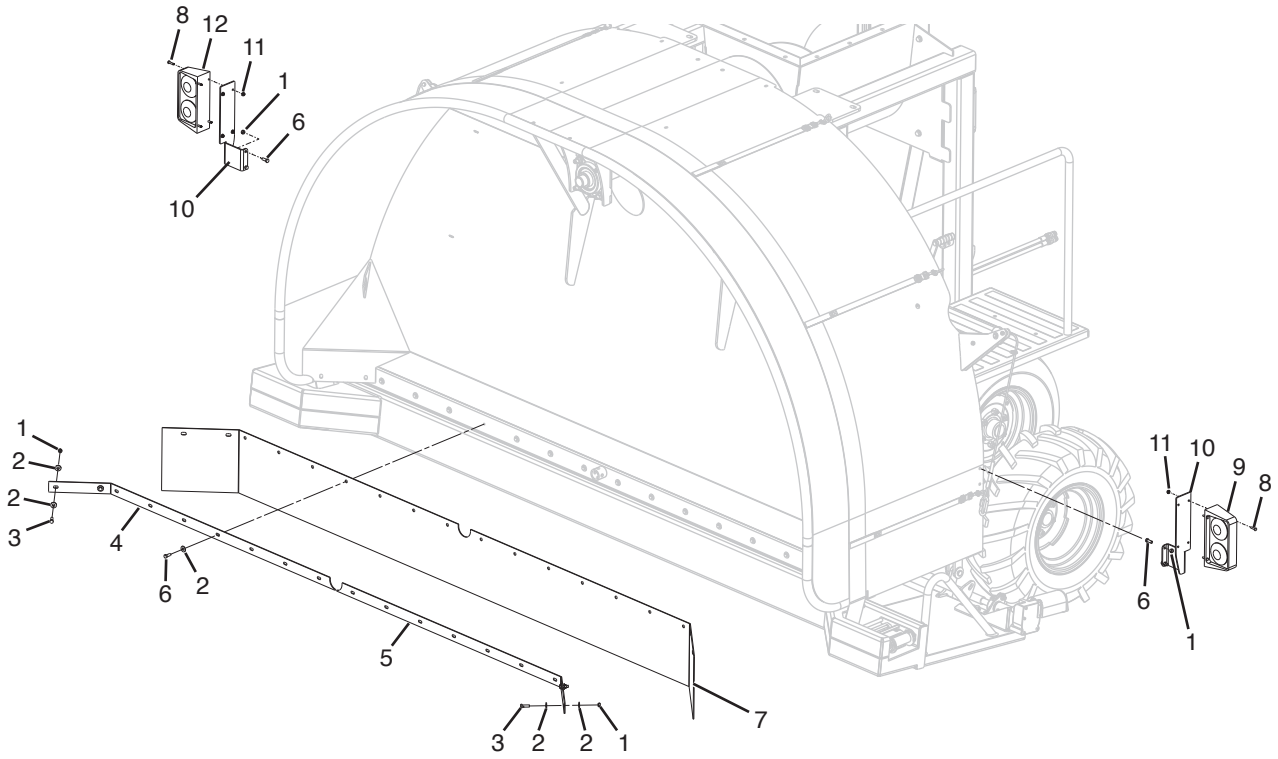
#	QTY.	PART #	DESCRIPTION
1	2	N22794	CALIPER, WILWOOD BRAKE
2	2	N23939	ELBOW, 90 DEG - 4MJIC - 2NPT
3	2	N35319	HOSE, 1/8" X 73" -4FJX -4FJX
4	1	N23940	TEE, 4MJIC - 4MJIC - 4MJIC
5	2	N25125	ELBOW, 90 DEG - 4FJIC - 4MJIC
6	1	N35318	HOSE, 1/8" X 85" -4FJX -4FJX
7	1	N25186	TEE, 4MJIC - 4MJIC - 4FJIC BRANCH
8	1	N25182	ADAPTER, 4MJIC - 4 INV FLARE
9	1	N33231	CYLINDER, MASTER BRAKE CARDONE
10	1	N25811	CONNECTOR, CARDONE TWO PIECE
11	1	N25220	HOSE, 1/8" X 15" -4FJX -4FJX
12	1	N25126	ADAPTER, 4MJIC - 4FP
13	1	N22377	GAUGE, 2000 PSI HYD PRESSURE
NOT SHOWN		N23995	BRAKE PADS

Discharge Auger Assembly



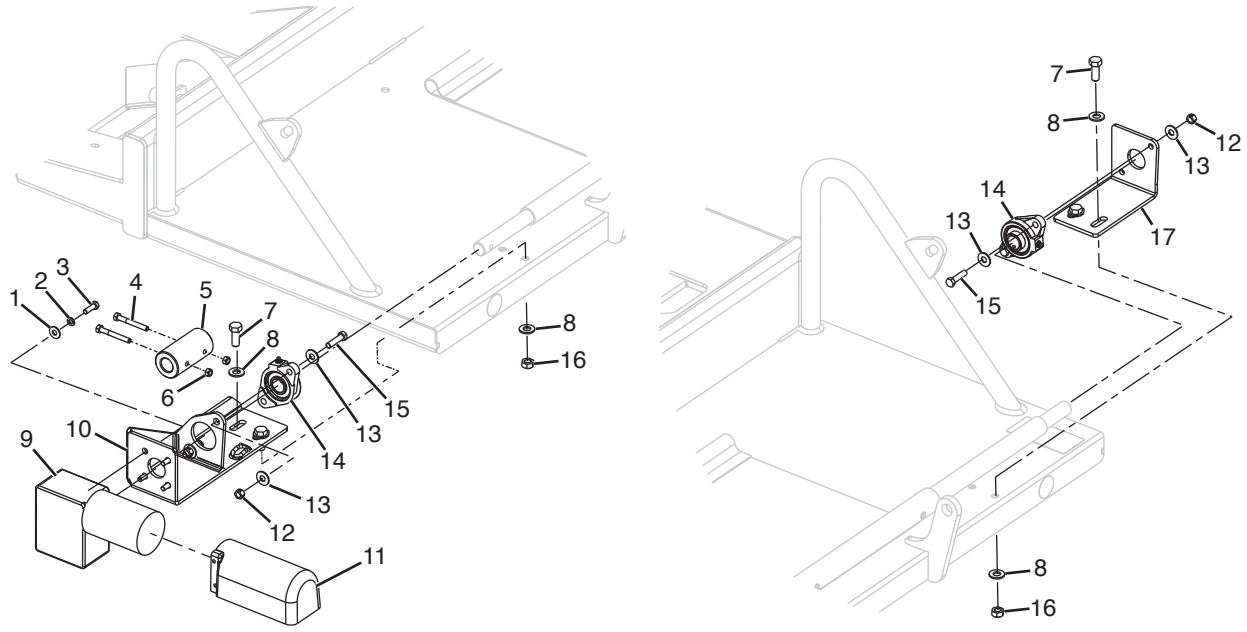
#	QTY.	PART #	DESCRIPTION
1	4	4055	NUT, LOCK 5/8" TOP
2	2	N30235	BEARING, 2" DODGE 4-BLT FLG
3	1	4472	ELBOW, 1/8" 90 DEG. STREET
4	4	4021	BOLT, 5/8 X 1-3/4 GRADE 5
5	1	N35364	HOSE, GREASE 2MP-4FJX 10-3/8"
6	1	N35329	ADAPTER, 4FJIC - 2FP SWIVEL
7	1	N35328	BULKHEAD, 90 DEG 4MJIC - 4MJIC
8	1	N76566	AUGER, XLB 20" AUG W/DECAL
9	4	4023	BOLT, 5/8" X 2-1/2" GRADE 5
10	4	4069	WASHER, FLAT 5/8"
11	1	N39020	MOUNT, GBL L5 INNER AUGER BRG
12	4	4013	BOLT, 1/2" X 1-1/2" GRADE 5
13	4	4155	WASHER, LOCK 1/2"
14	4	4250	NUT, STANDARD 1/2
15	4	4997	WASHER, FLAT 5/8" SAE
16	4	4070	WASHER, LOCK 5/8"
17	4	4058	NUT, STANDARD 5/8"

Rear Flap and Lights



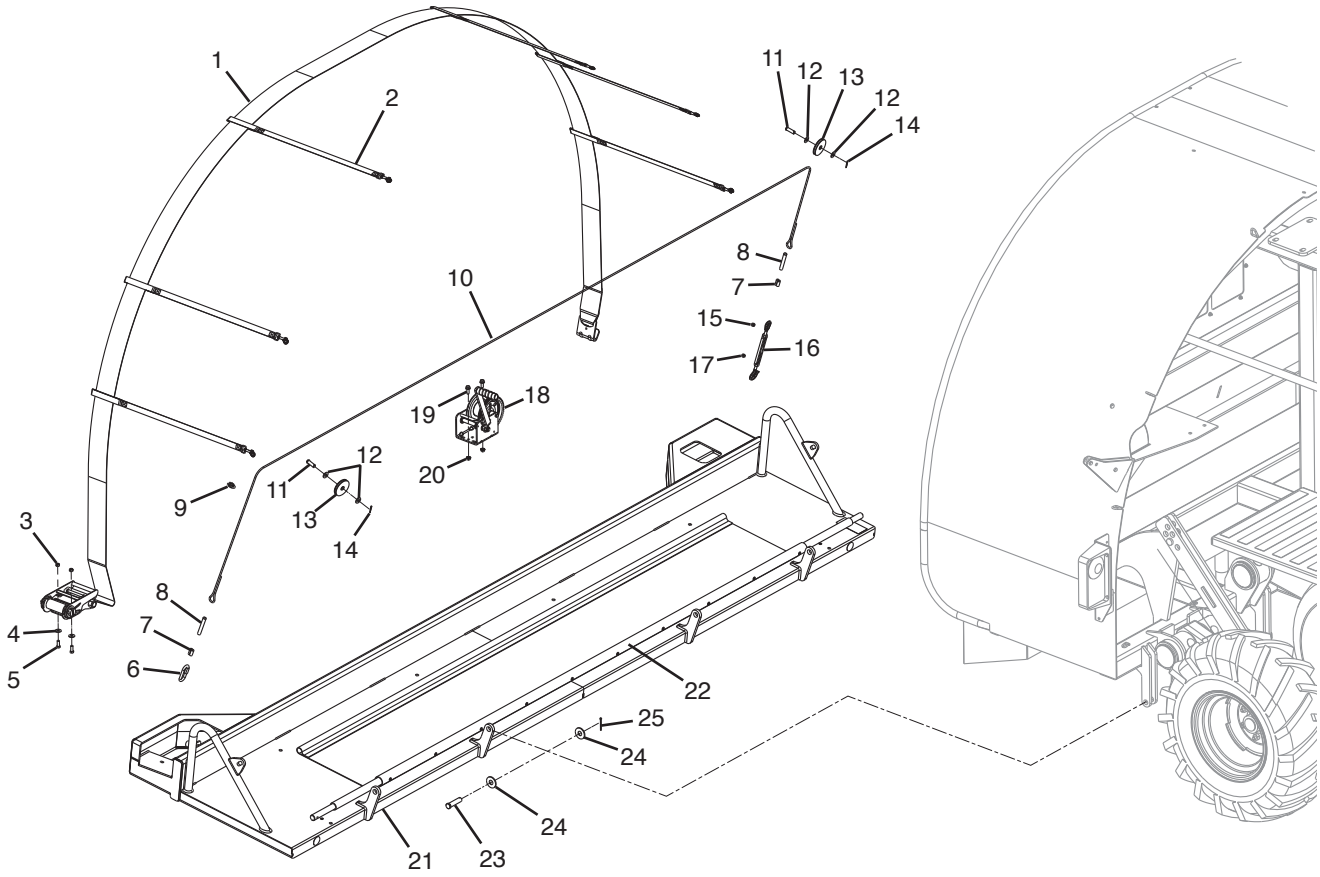
#	QTY.	PART #	DESCRIPTION
1	8	4052	NUT, LOCK 3/8"
2	22	4064	WASHER, FLAT 3/8"
3	4	4005	BOLT, 3/8" X 1-1/4" GR 5
4	1	201958	STRIP, XLB10 RUBBER SKIRT L2
5	1	201959	STRIP, XLB10 RUBBER SKIRT R2
6	18	4195	BOLT, 3/8" X 1" GR 5
7	1	201957	FLAP, XLB10 BOTTOM RUBBER 2
8	8	4000	BOLT, 1/4" X 1" GRADE 5
9	1	N16290	LIGHT, RIGHT
10	2	202662	PLATE, LIGHT MOUNT
11	8	N105230	NUT, LOCK 1/4" SER FLANGE
12	1	N16289	LIGHT, LEFT

Pan Apron Drive



#	QTY.	PART #	DESCRIPTION
1	4	4369	WASHER, 5/16" FLAT
2	4	4228	WASHER, 5/16" LOCK
3	4	4203	BOLT, 5/16" X 1" GRADE 5
4	2	4204	BOLT, 5/16" X 2-1/2" GRADE 5
5	1	N27683	COUPLER, GBL12 PAN TARP ROLLER
6	2	4414	NUT, NYLOCK 5/16"
7	4	4012	BOLT, 1/2" X 1-1/4" GRADE 5
8	8	4068	WASHER, 1/2" SAE FLAT
9	1	N27660	MOTOR, ELECTRIC 1/2 HP
10	1	N35189	BRACKET, XLB10 BAG PAN TARP LEFT
11	1	204090	COVER, MOTOR RAIN
12	4	4052	NUT, LOCK 3/8"
13	10	4064	WASHER, FLAT 3/8"
14	2	N30247	BEARING, 1" DODGE 2BLT FLG
15	4	4006	BOLT, 3/8" X 1-1/2" GRADE 5
16	4	4054	NUT, LOCK 1/2" TOP
17	1	N35191	MOUNT, XLB10 PAN TARP BKT MTR

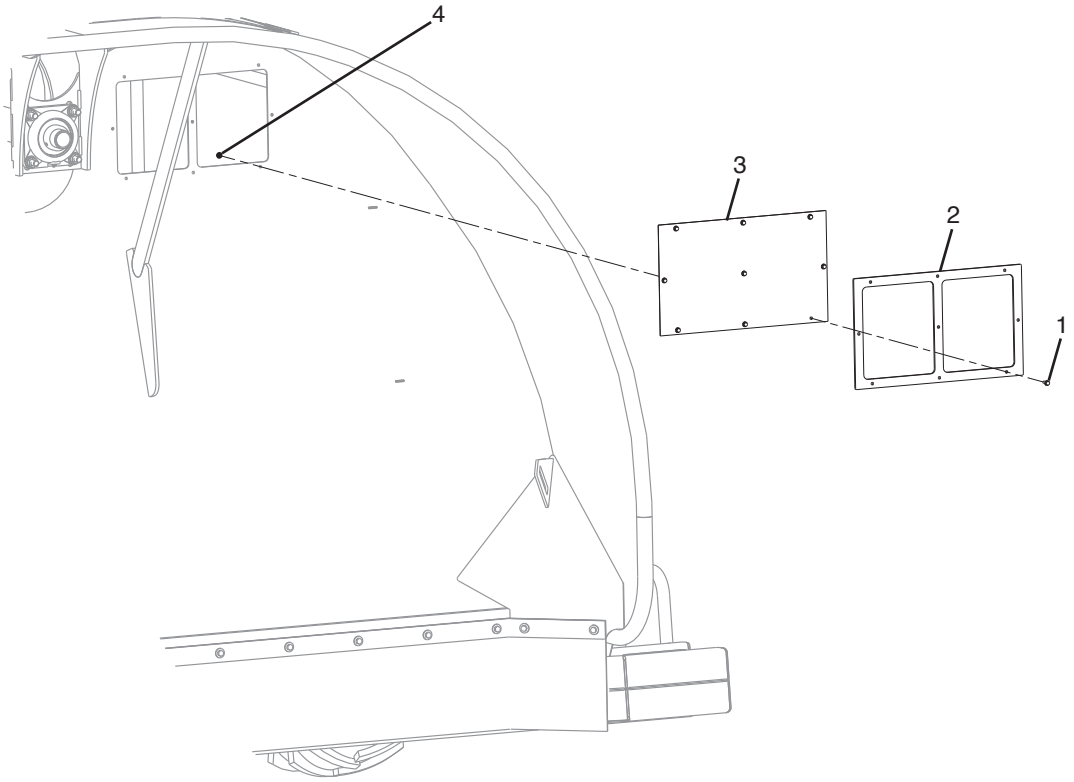
Bag Pan Winch Assembly



Bag Pan Winch Assembly

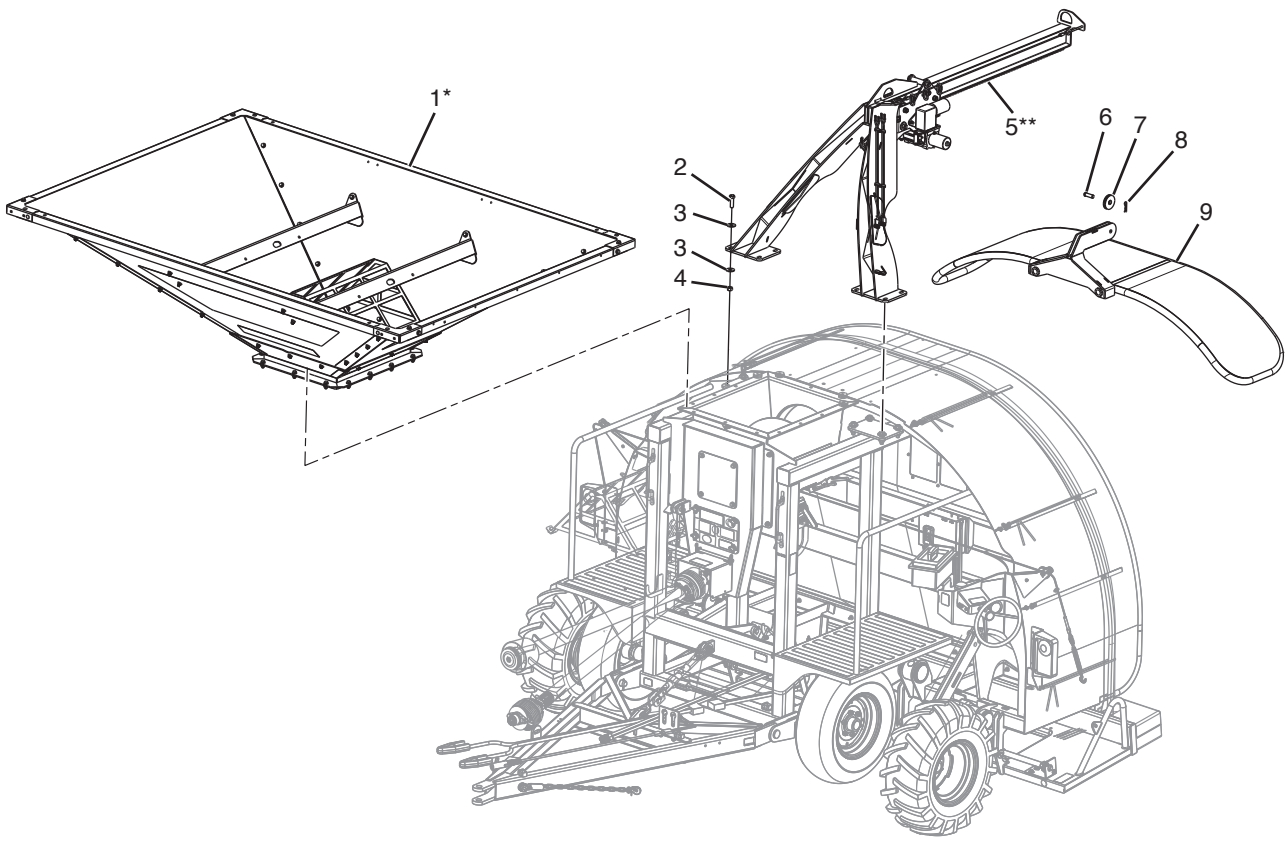
#	QTY.	PART #	DESCRIPTION
1	1	202150	STRAP. RATCHET 4" W/HOOK
2	6	202148	SLING, 1" X 3' W/SWIVEL SNAP
3	2	4052	NUT, LOCK 3/8"
4	2	4064	WASHER, FLAT 3/8"
5	2	4195	BOLT, 3/8" X 1" GRADE 5
6	1	N10177	LINK, 3/8" CHAIN CONNECTOR
7	2	N29079	FERRULE, 1/4IN CABLE DOUBLE
8	2	N33747	TUBING, 1/2" SHRINK CUT TO 3.50"
9	1	N25265	CLAMP, WIRE CABLE 3/16"
10	1	N37400	CABLE, GBL10 BAG 23' PAN 1 PC
11	2	4392	PIN, 1/2" X 1-1/4"
12	4	4068	WASHER, 1/2" SAE FLAT
13	2	N22913	PULLEY, 3/16" CABLE 2-1/2" DIA
14	2	4098	PIN, COTTER 1/8" X 1-1/2"
15	2	4061	NUT, 3/8" JAM
16	1	N22914	TURNBUCKLE, HOOK AND EYE 3/8
17	1	N23763	NUT, JAM 3/8"LEFT HANDED THD
18	1	201805	WINCH, CABLE 1800# DL
19	2	N26743	BOLT, 3/8" X 1" SER FLG
20	2	4979	NUT, LOCK 3/8" SER FLG
21	1	202127	PAN, XLB10 W/DECALS G3
22	1	N39025	KIT, XLB10 BAG PAN TARP
23	4	N23728	PIN, 3/4" X 2-3/4" PLATED
24	8	4071	WASHER, 3/4" FLAT
25	4	4092	PIN COTTER 5/32" X 2"

Bolt-in Screens



#	QTY.	PART #	DESCRIPTION
1	18	4573	BOLT, 1/4" X 3/4" SER FLANGE
2	2	201922	PLATE, GBL10 SCREEN HOLDER
3	2	201921	SCREEN, GBL10 GEN 2 TUNNEL
4	18	N105230	NUT, LOCK 1/4" SER FLANGE

XLB10 Base Assembly

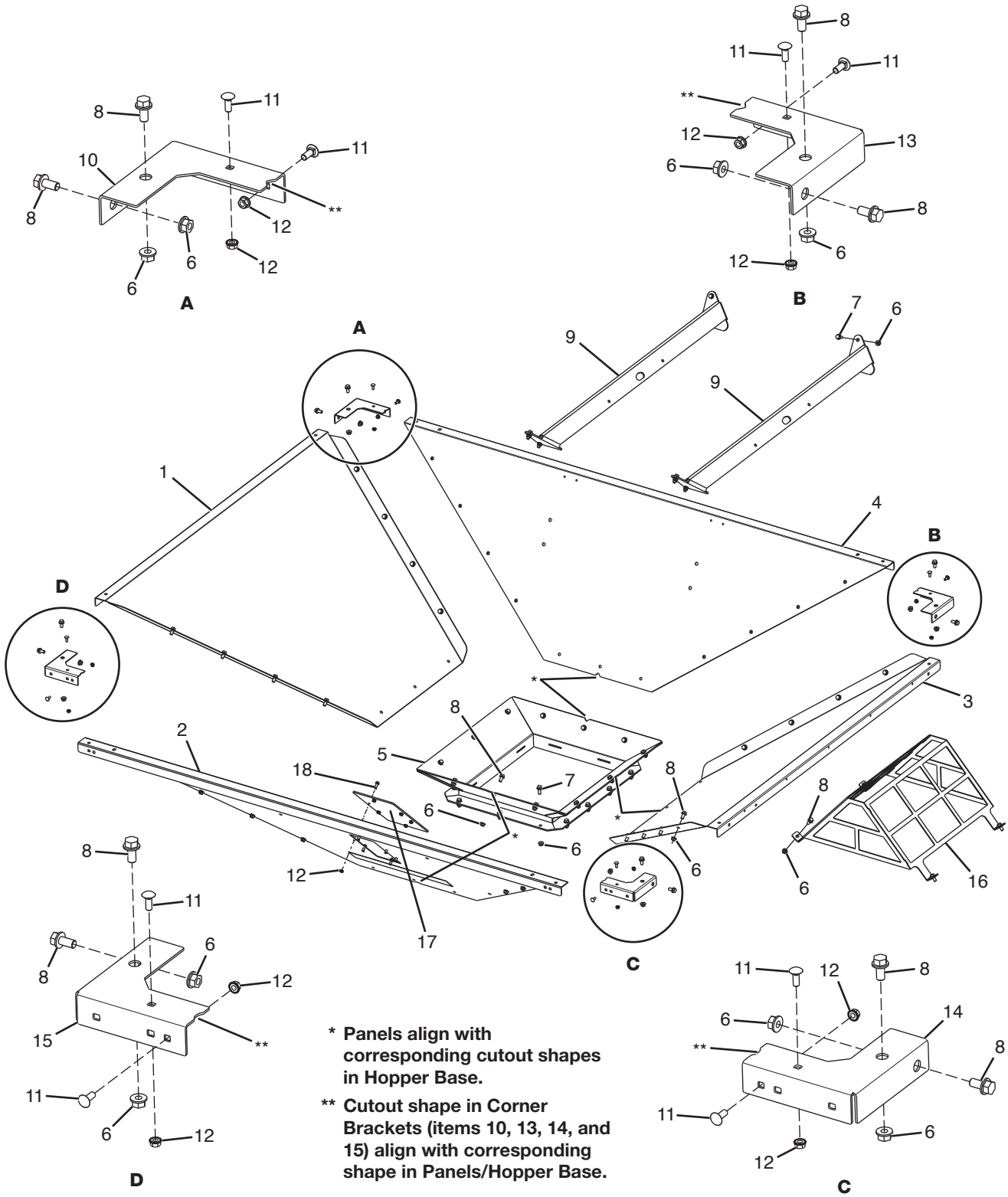


*** See page 90 for parts breakdown of Item 1 (202114).**

**** See page 92 for parts breakdown of Item 5 (N68025).**

#	QTY.	PART #	DESCRIPTION
1	1	202114	HOPPER, XLB10
2	8	N16349	BOLT, 3/4 X 2-1/2 FN TH GR 8
3	16	4071	WASHER, 3/4" FLAT
4	8	N16352	NUT, LOCK 3/4" GRADE 8 FINE
5	1	N68025	BOOM, XLB10 WITH TROLLEY 2
6	1	4521	PIN, 3/4IN X 1-3/4IN CLEVIS
7	1	N37812	PULLEY, 1/4" CABLE 3-1/2" OD 1500 LB
8	1	4393	CLIP, HAIRPIN 5/32" X 2-1/2"
9	1	N35296	CRADLE, XLB10 L5 BAG LIFT

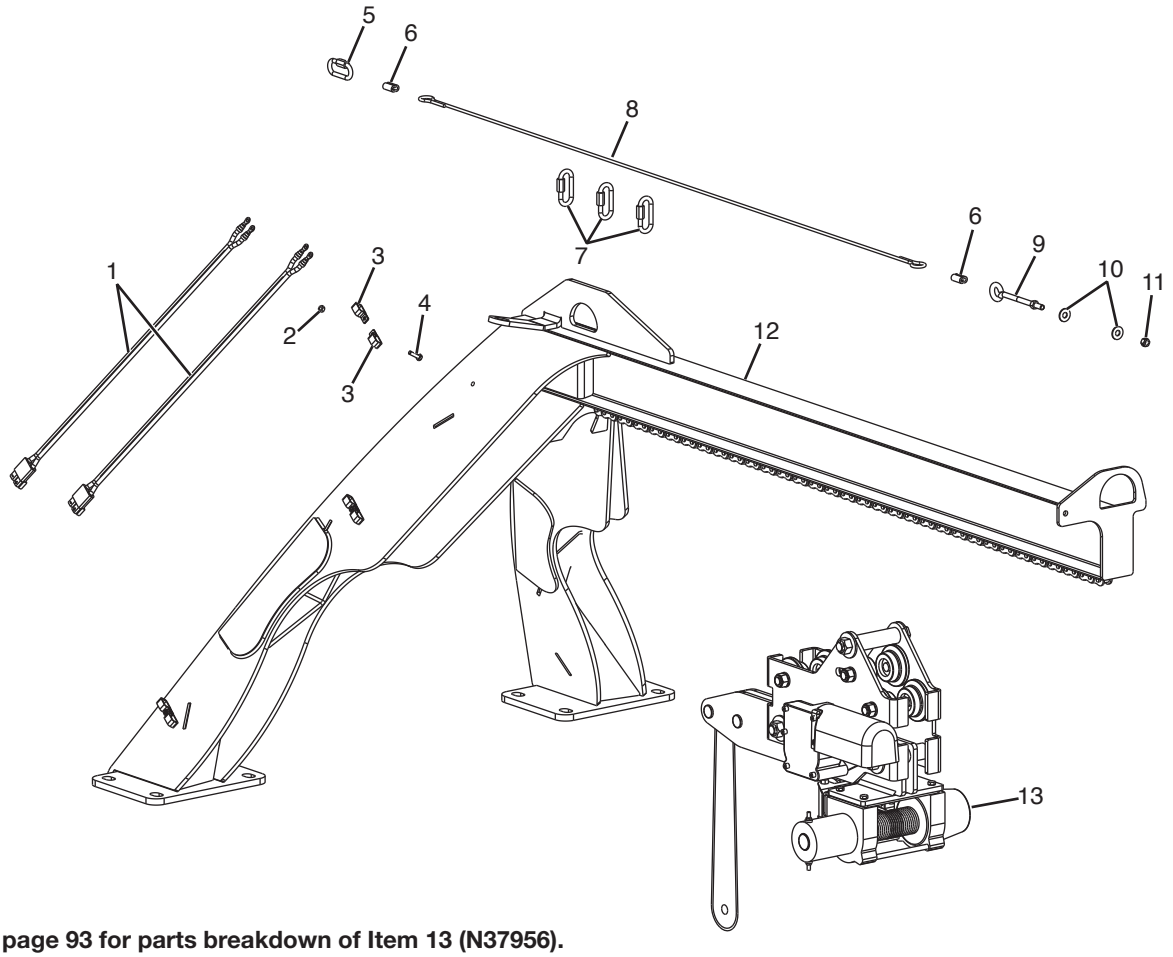
Hopper Assembly (202114)



Hopper Assembly (202114)

#	QTY.	PART #	DESCRIPTION
1	1	202119	PANEL, XLB10 RIGHT W/DECALS
	1	N35229	DECAL, LOFTNESS RIGHT SWOOSH
	1	N35231	DECAL, LOFTNESS LG NO SWOOSH
2	1	202844	PANEL, XLB10 FRONT W/DECALS
	1	N35225	DECAL, GL SYSTEM 10XL
	1	N35230	DECAL, LOFTNESS SM NO SWOOSH
3	1	202121	PANEL, XLB10 LEFT W/DECALS
	1	N35228	DECAL, LOFTNESS LEFT SWOOSH
	1	N35231	DECAL, LOFTNESS LG NO SWOOSH
4	1	202117	PANEL, XLB10 BACK W/DECALS
	2	N35230	DECAL, LOFTNESS SM NO SWOOSH
5	1	N37933	BASE, GBL10 L5 HOPPER
6	58	N29075	NUT, LOCK 1/2" SERATED FLANGE
7	22	N18360	BOLT,1/2-13 X 1-1/4 SER FLG
8	36	N26748	BOLT, 1/2" X 1" SER FLG
9	2	202103	PLATE, XBL HOPPER BRACE
10	1	N115210	CORNER, XLB HOPPER TOP FRONT L
11	8	4034	BOLT, CARRIAGE 3/8" X 1" GR. 5
12	14	4979	NUT, LOCK 3/8" SER FLG
13	1	N115212	CORNER, XLB HOPPER TOP FRONT R
14	1	N115145	CORNER, XLB HOPPER TOP BACK R
15	1	N115140	CORNER, XLB HOPPER TOP BACK L
16	1	201963	SCREEN, XLB HOPPER TRAPEZOID A
17	1	N37022	WINDOW, SPREADER FRONT
18	6	N26743	BOLT, 3/8" X 1" SER FLG

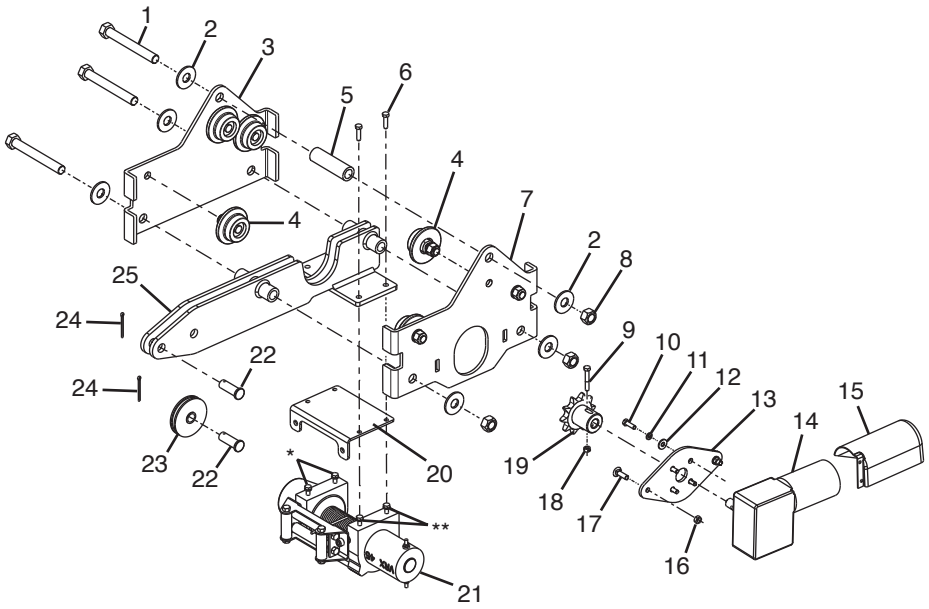
Boom, with Trolley (N68025)



*** See page 93 for parts breakdown of Item 13 (N37956).**

#	QTY.	PART #	DESCRIPTION
1	2	N47900	CABLE, XLB10 6 GA WINCH IMP
2	3	N105230	NUT, LOCK 1/4" SER FLG
3	6	N25234	CLAMP, LOOP 1/2" X 1-3/4 VINYL
4	3	4000	BOLT, 1/4" X 1" GRADE 5
5	1	N10177	LINK, 3/8" CHAIN CONNECTOR
6	2	N23881	FERRULE, 3/16" CABLE DOUBLE
7	3	N23776	LINK, 5/16" CHAIN CONNECTOR
8	1	N69015	CABLE, XLB10 TROLLEY LG
9	1	N35268	BOLT, EYE 3/8" X 3"
10	2	4064	WASHER, FLAT 3/8"
11	1	4052	NUT, LOCK 3/8"
12	1	N68000	BOOM, XLB10 TROLLEY BLANK 2
13	1	N37956	LIFT, XLB10 TROLLEY

Lift, Trolley (N37956)

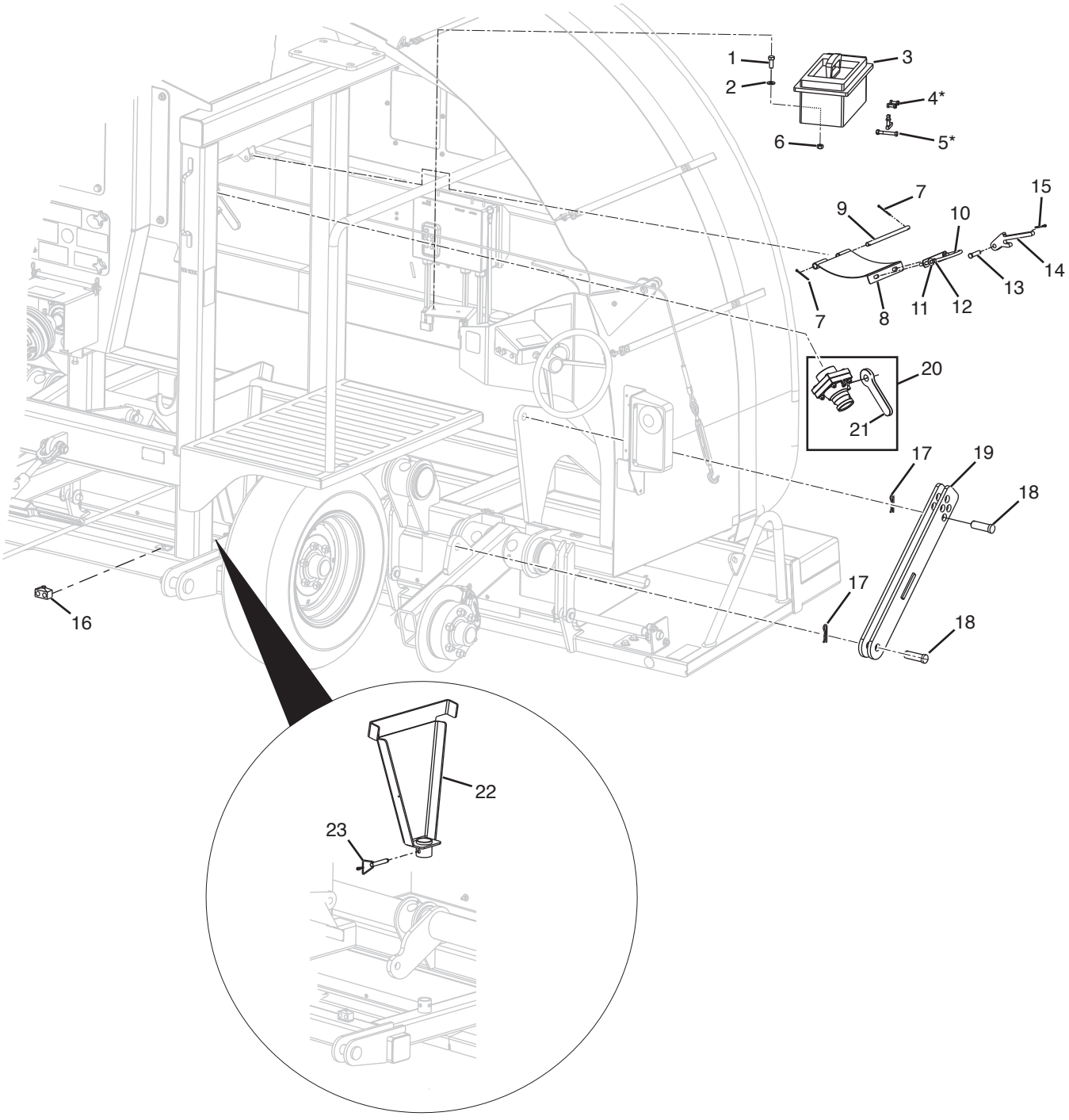


*** Use washer and bolt supplied with winch.**

**** Use washer supplied with winch.**

#	QTY.	PART #	DESCRIPTION
1	3	N16752	BOLT, 3/4" X 6" FINE THREAD GRADE 8
2	6	4071	WASHER, 3/4" FLAT
3	1	N37957	BRACKET, GBL10 WINCH TROL LT
4	6	N27695	ROLLER, TROLLEY 2000#
5	1	N37963	BUSHING, GBL10 TROLLEY SPACER
6	2	N35220	BOLT, M8 X 30 GR 8.8
7	1	N37958	BRACKET, GBL10 WINCH TROL RT
8	3	N16352	NUT, LOCK 3/4" GRADE 8 FINE
9	1	N28436	BOLT, 5/16" X 2 1/4" GRADE 5
10	4	4203	BOLT, 5/16" X 1" GRADE 5
11	4	4228	WASHER, 5/16" LOCK
12	4	4369	WASHER, 5/16" FLAT
13	1	N27704	PLATE, GBL12 TROLLEY MTR MNT
14	1	N27660	MOTOR, ELECTRIC 1/2 HP
15	1	204090	COVER, MOTOR RAIN
16	2	4979	NUT, LOCK 3/8" SER FLG
17	2	4390	BOLT , 3/8" X 1-1/4" CARRIAGE
18	1	4051	NUT, LOCK 5/16"
19	1	N27702	SPROCKET , TROLLEY DRIVE
20	1	N30172	MOUNT, WARN RT40 FAIRLEAD
21	1	201933	WINCH, WARN VRX 45
22	2	4521	PIN, 3/4IN X 1-3/4IN CLEVIS
23	1	N37812	PULLEY, 1/4" CABLE 3-1/2" OD 1500 LB
24	2	4092	PIN, COTTER 5/32IN X 2IN
25	1	N35217	MOUNT, XLB10 WINCH RT40

Auger Bottom Shield and Valve, Stabilizer, Toolbox, and Axle Link

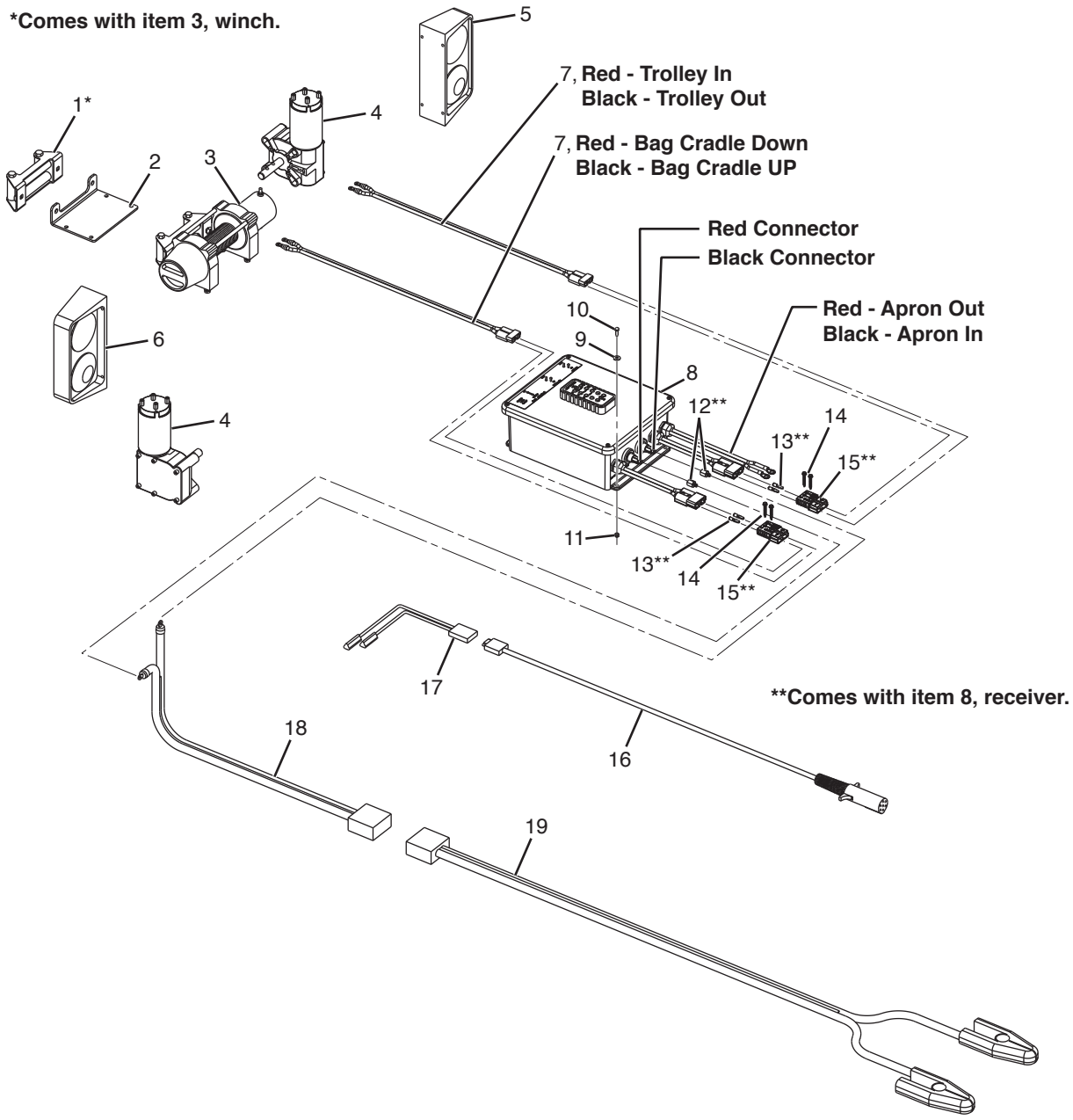


***Place Item 4 Shear Bolt Kit (201013) and Item 5 spare PTO Bolt Kit (201012) in the toolbox.**

Auger Bottom Shield and Valve, Stabilizer, Toolbox, and Axle Link

#	QTY.	PART #	DESCRIPTION
1	2	4012	BOLT, 1/2" X 1-1/4" GRADE 5
2	2	4486	WASHER, FLAT 1/2" USS
3	1	N25105	TOOLBOX, WINCH STORAGE
4	1	201013	GROUP, GBL/XLB PTO SHEAR BOLT
5	1	201012	GROUP, GBL/XLB PTO BOLT
6	2	4054	NUT, LOCK 1/2" TOP
7	2	4092	PIN COTTER 5/32" X 2"
8	1	N27979	DOOR, GBL12 AUGER CLEAN OUT
9	1	N23789	PIN, GBL AUGER BOTTOM DOOR SHIELD
10	1	N23775	U-BOLT, 3/8" X 3-1/2" X 5-1/4"
11	2	4064	WASHER, FLAT 3/8"
12	2	4233	NUT, STANDARD 3/8"
13	1	4432	PIN, 1/2" X 1-3/4" (2" OVERALL)
14	1	N23773	LATCH, GBL TRAP DOOR
15	1	4325	PIN, COTTER 3/16" X 1-1/2"
16	7	N21365	CLAMP, 3/8" DOUBLE HOSE
17	4	4389	CLIP, HAIRPIN 3/16" X 3"
18	4	4315	PIN, 1" X 2-1/2"
19	2	N68466	LINK, XLB10 AXLE 2
20	1	N35294	VALVE, 2" FEMALE STUBBY 2" X 2"
21	1	206899	HANDLE, 2IN FP STUBBY
22	1	N67274	STABILIZER, XLB10 CRADLE
23	1	8047-10	PIN, 9/16" BULLDOG JACK QUICK

Electrical


*Comes with item 3, winch.
1*
2
3
4
5
6
7, Red - Trolley In
Black - Trolley Out
7, Red - Bag Cradle Down
Black - Bag Cradle UP
Red Connector
Black Connector
Red - Apron Out
Black - Apron In
8
9
10
11
12**
13**
14
15**
16
17
18
19
**Comes with item 8, receiver.

Electrical

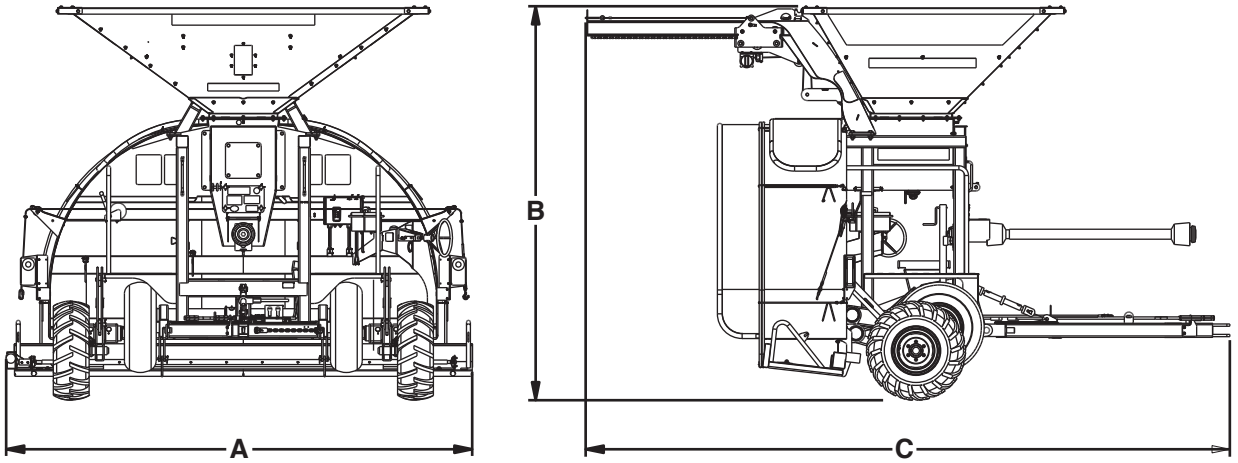
#	QTY.	PART #	DESCRIPTION
1	1	N29688	FAIRLEAD, WARN RT40 WINCH
2	1	N30172	MOUNT, WARN RT40 FAIRLEAD
3	1	201933	WINCH, WARN VRX 45
4	2	N27660	MOTOR, ELECTRIC 1/2 HP
5	1	N16289	LIGHT, LEFT
6	1	N16290	LIGHT, RIGHT
7	2	N47900	CABLE, XLB10 6 GA WINCH IMP
8	1	200439	RECEIVER, 3 FUNCTION SMART SYS
9	4	3183	WASHER, FLAT 1/4"
10	4	4000	BOLT, 1/4" X 1" GRADE 5
11	4	4996	NUT, LOCK 1/4" NYLOCK
12	2	N35325	ADAPTER, 1/4M X 3/8F BRASS
13	4	N23769	LEAD, HEAVE WIRE CONNECTOR (N23822)
14	4	N35334	SCREW, #10 X 1-1/2" SELF-TAPPING
15	2	N23770	CONNECTOR, ANDERSON SB120
16	1	N22784	HARNESS, GBU 4' BRAIDED TOUNGE
17	1	N16288	HARNESS,25' REAR WISHBONE
18	1	N26639	HARNESS, GBL12 MAIN POWER
19	1	N68231	HARNESS, XLB10 TRAC BAT 19'


LOFTNESS

Specifications

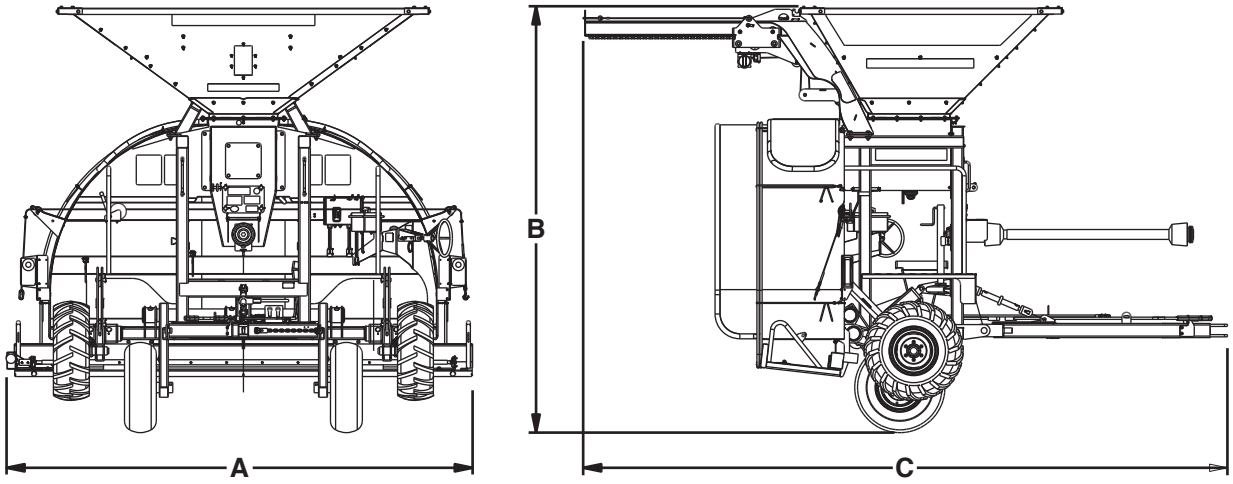
DESCRIPTION	XLB10 GRAIN BAG LOADER
Operating Capacity	30,000 Bushels/hr
Operating Weight	4,800 lbs. (2,177.2 kg)
Minimum Tractor Horsepower	85 HP
Maximum Rear-PTO RPM	540 RPM
Hydraulic Flow	6 GPM
Main Discharge Auger	20 in. (508 mm)
Main Auger Drive	Keyed Shaft
Main Auger Drive Chain	#80
Wheels (Operation)	12.5L - 15 Suregrip Traction
Wheels (Transport)	11L15 - 8" - 10 PLY
PTO Driveline	Weasler 35R Series
Pressure Gauge	2000 PSI Hydraulic
Brakes	Dual Disc Brakes
Wheel Cylinder	4 x 8
Hopper Size (XLB10)	7 ft. x 10 ft. (2.13 m x 3.05 m)

Dimensions (Operation)



DESCRIPTION	XLB10 GRAIN BAG LOADER
Operating Width (A)	156.7 in. (398.02 cm)
Operating Height (B)	132.2 in. (335.79 cm)
Operating Length (C)	216.5 in. (549.91 cm)

Dimensions (Transport)



DESCRIPTION	XLB10 GRAIN BAG LOADER
Transport Width (A)	156.7 in. (398.02 cm)
Transport Height (B)	140 in. (355.6 cm)
Transport Length (C)	216.5 in. (549.91 cm)

Appendix

Torque Specifications

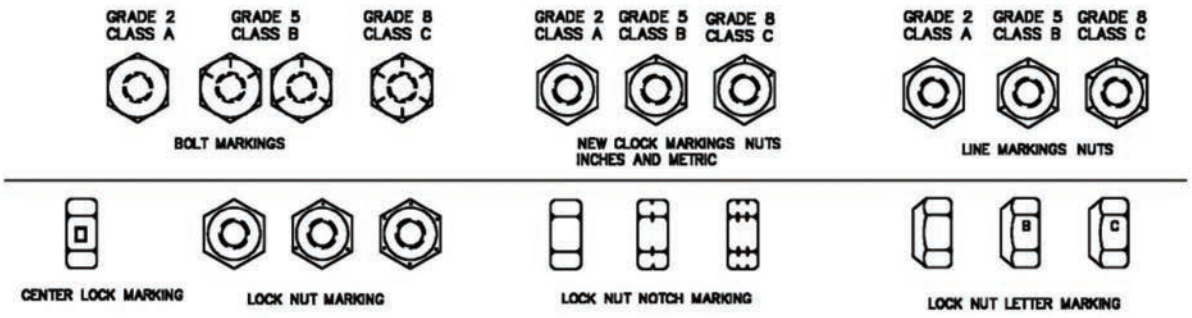
Inches Hardware and Lock Nuts

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)



Torque Specifications (Cont'd)

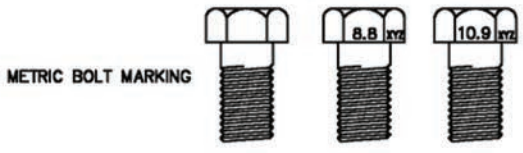
Metric Hardware and Lock Nuts

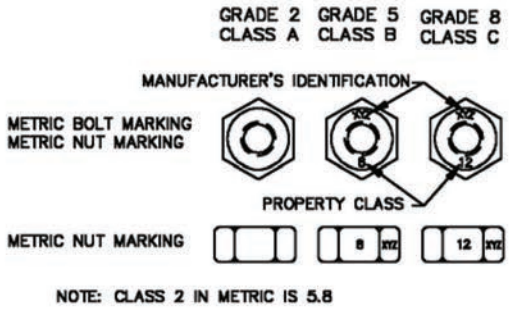
TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications
(Metric Hardware and Lock Nuts)

	Class 5,8		Class 8,8		Class 10,9		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	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.)	131N•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.)







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