



# GRAIN LOGIX™

## GRAIN BAG STORAGE SYSTEMS

### Grain Bag Loader

Owner's Manual and Parts Book  
(Originating w/Serial Number 52-1395)



Model Number: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
Date of Purchase: \_\_\_\_\_



# LOFTNESS SPECIALIZED EQUIPMENT, INC.

## LIMITED WARRANTY POLICY

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







## 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.



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## Owner Information

Thank you for your decision to purchase a Grain Bag Loader (GBL) 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.

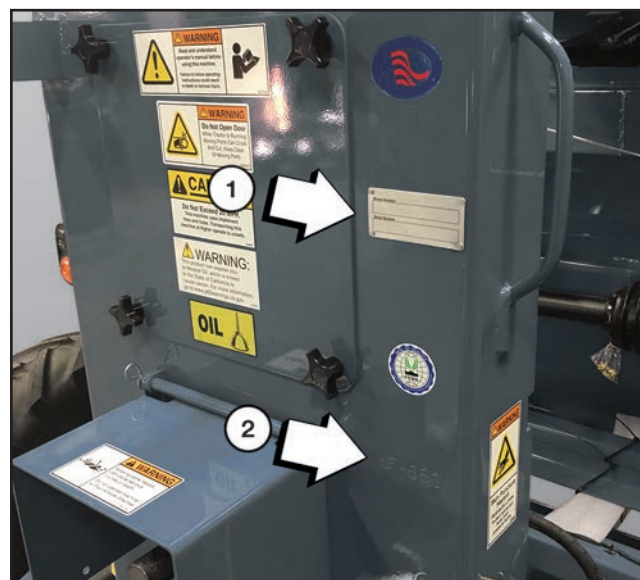
Continuous improvement and advancement of Loftness products may result in changes to your equipment that may not be reflected in this publication. Loftness reserves the right to make product improvements to the machine at any time. Although great care has been taken to ensure the accuracy of this publication,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





## 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.

|   |  |
|---|--|
|  | <h3>Safety Alert Symbol</h3> <p>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.</p> |
|---|--|

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 Instructions

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## 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, 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 the transport position 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.
- 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.

# Safety Instructions

## Maintenance Safety (Cont'd)

- 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](http://www.p65warnings.ca.gov).

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

# Safety Instructions

## Safety Decal Locations

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



Part No. N22763



Part No. N23505



Part No. N23931



Part No. 203264



Part No. 4189



Part No. N23906



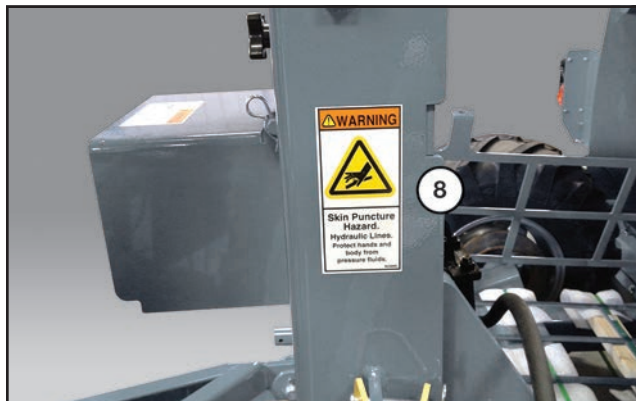
## Safety Decal Locations (Cont'd)



Part No. N23907



Part No. N22764



Part No. N23899



Part No. N23607

# Safety Instructions

## Machine Decals and Signs

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

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

Part No. N68487

Important Brake Operation!

Read before operating or moving the machine

Before Moving Machine

Release all brake pressure by turning the brake wheel fully to the left until it contacts the mechanical stop

DO NOT EXCEED 20 MPH when towing

Check calipers after moving a short distance to ensure no heating of pads is occurring

Before Bagging Material

Read and understand the operators manual

Bag uphill to reduce brake pressure requirements

DO NOT EXCEED 1000 PSI

Over-pressure damages calipers and master cylinder

Lower pressures minimize grain damage

Common bagging pressures are 200 to 500 PSI

N68487

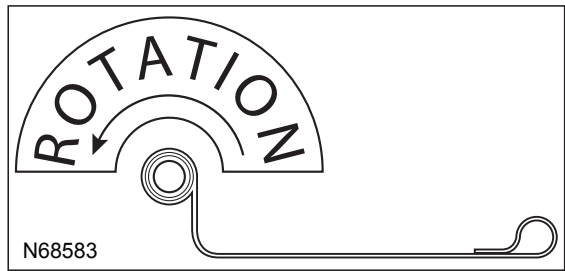
Part No. N68531

Disengage  
brakes before  
transport

Failure to do so will cause severe damage to the braking system and void the equipment warranty.

N68531

Part No. N68583



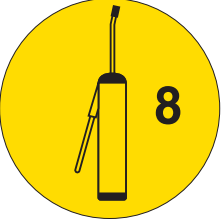
Part No. 4132



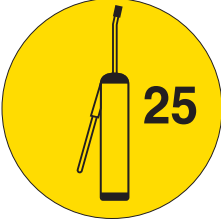
Part No. 4136



Part No. N28010



Part No. N28011



Part No. N28012



### Machine Decals and Signs (Cont'd)

Part No. 4138



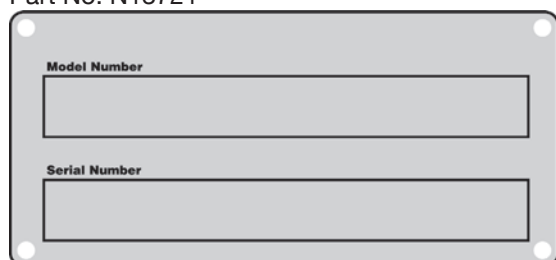
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Part No. N26972



Part No. N13721



Part No. N33102



Part No. N33107



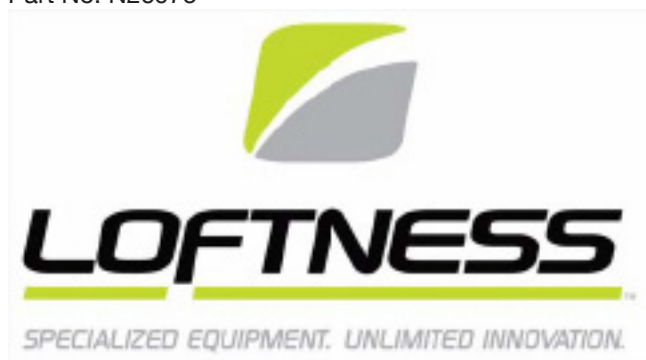
Part No. N26971



Part No. N26967



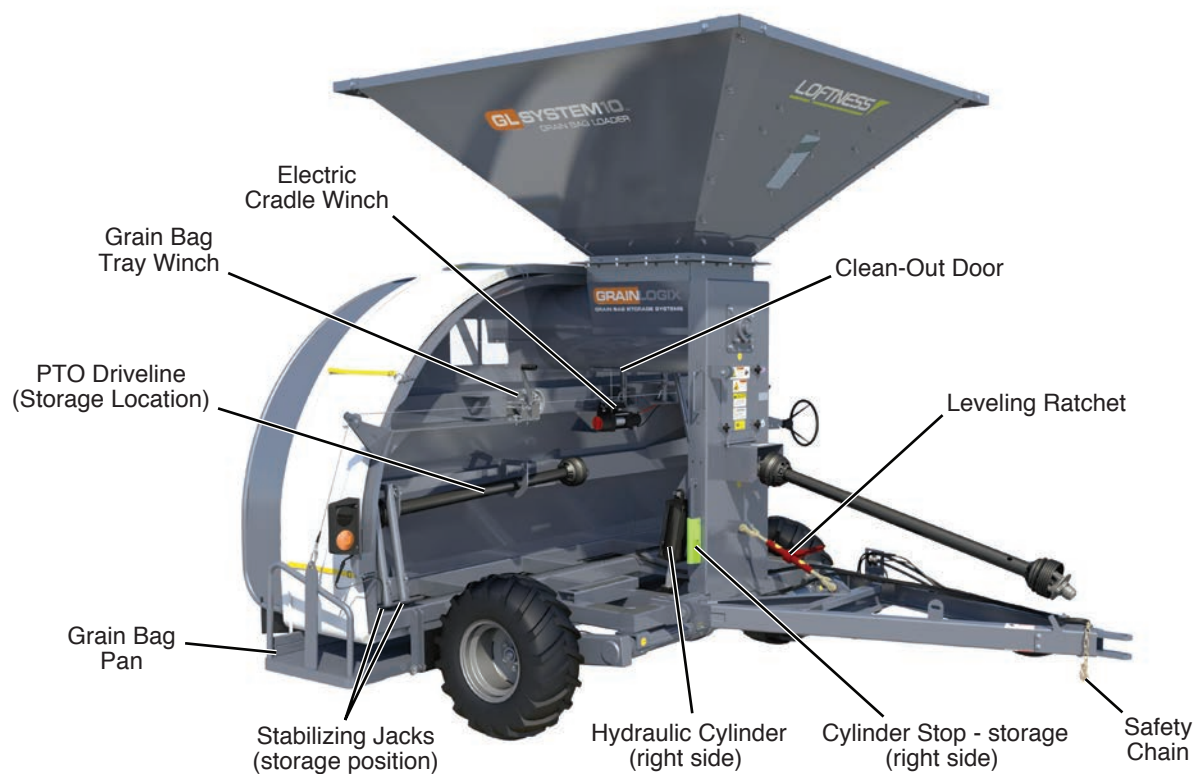
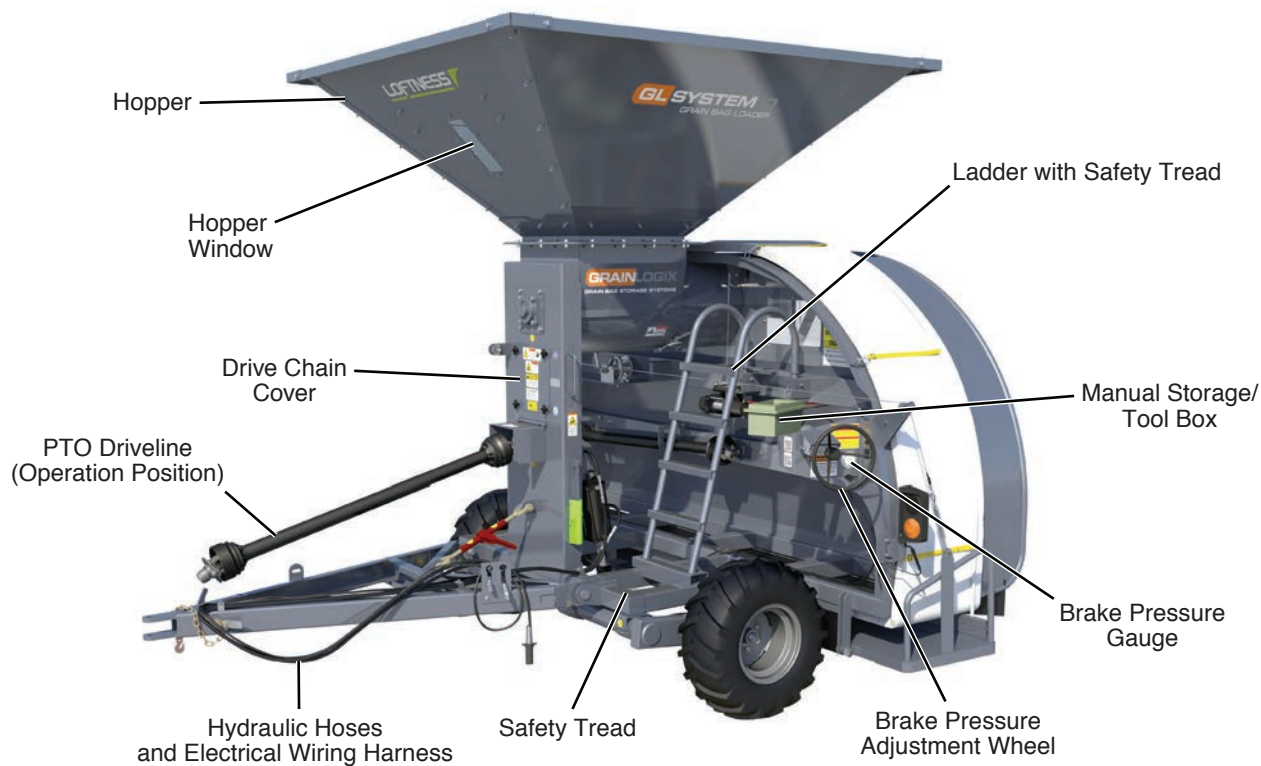
Part No. N26975



# Safety Instructions

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## Grain Bag Loader Identification





### Grain Bag Loader Identification (Cont'd)





# Set-up Instructions

## 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.

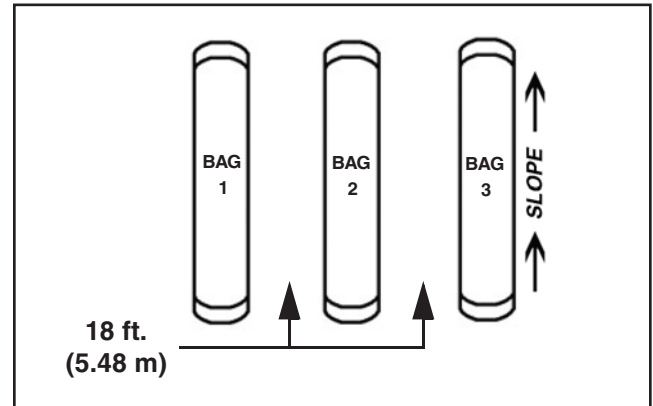
**NOTE:** If the grain bags are positioned East - West, the South side of the grain bags will be exposed to the sun the entire day and may lead to overstretching and damage to the grain bags.

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.

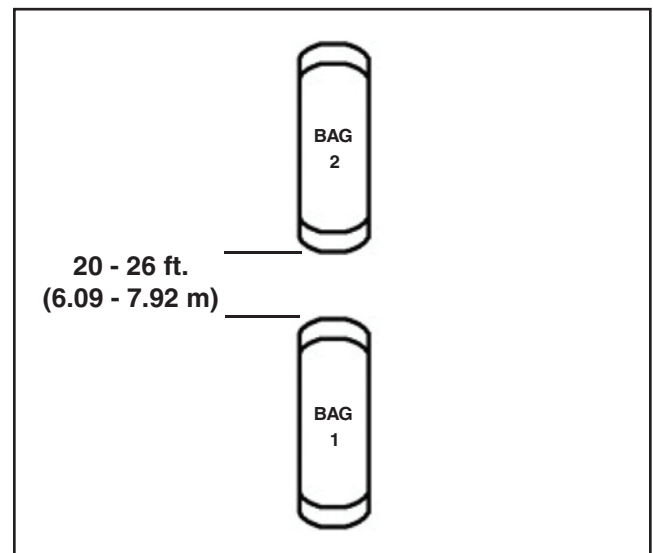
## Grain Bag Spacing

### 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.

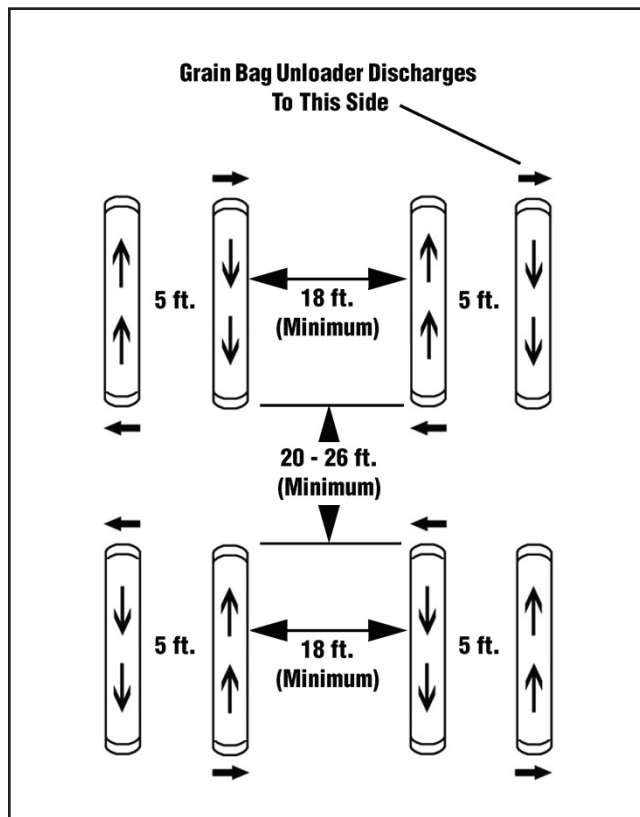
**NOTE:** Maintain adequate space (20-26 ft. (6.09-7.92 m) is recommended) between the grain bags for the unloading equipment and transport vehicles to travel between the bags.

# Set-up Instructions

## Grain Bag Placement (Cont'd)

### Grain Bag Spacing (Cont'd)

#### In Depots



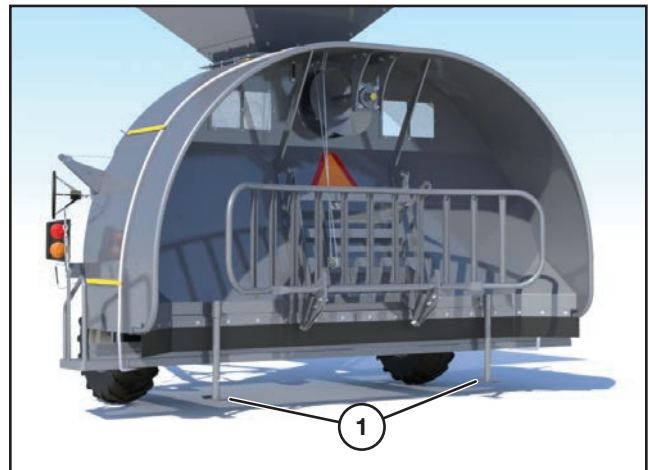
When storing grain bags in depots, position the bags in pairs approximately 5 ft. (1.5 m) apart and a minimum of 18 ft. (5.5 m) between pairs. 5 feet (1.5 m) is adequate space for the unloader to operate without damaging the adjacent grain bag. Maintaining an 18 foot (5.5 m) spacing between pairs will 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.

## Initial Set-up

The PTO driveline is shipped in the storage position. The 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:** Leave the jacks (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.

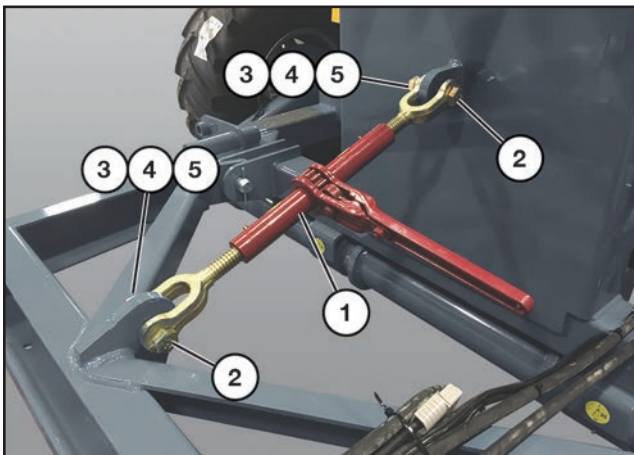
# Set-up Instructions

## Initial Set-up (Cont'd)



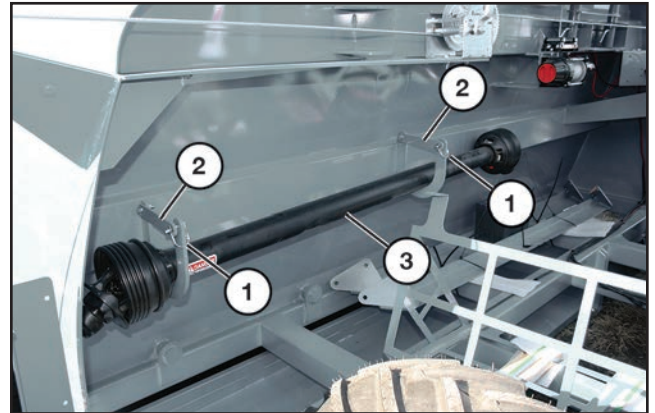
**WARNING:** The grain bag loader hitch is heavy. Always use two people to lower and raise the hitch.

Remove the retaining clip and pin securing the hitch to the frame (at the gearbox) and lower the hitch. Replace the pin and clip back into position on the frame.



Install the leveling ratchet (1) between the 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.

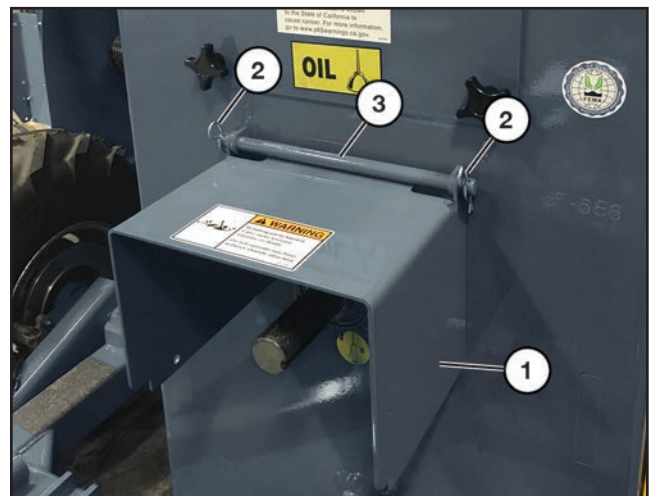


Remove the retaining pins (1) and lift the holder bars (2) from both PTO driveline storage cradles. Remove the driveline (3).

Return the holder bars back to the storage position on the cradles and secure with the retaining pins.



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

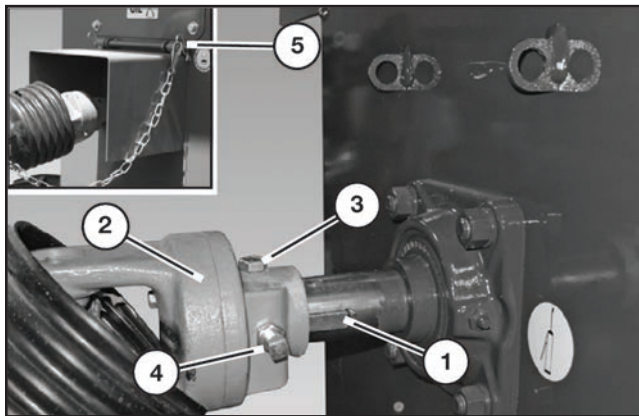


Raise or remove the PTO driveline guard (1). Remove the guard by removing the two retaining clips (2) and pin (3).



# Set-up Instructions

## Initial Set-up (Cont'd)



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).

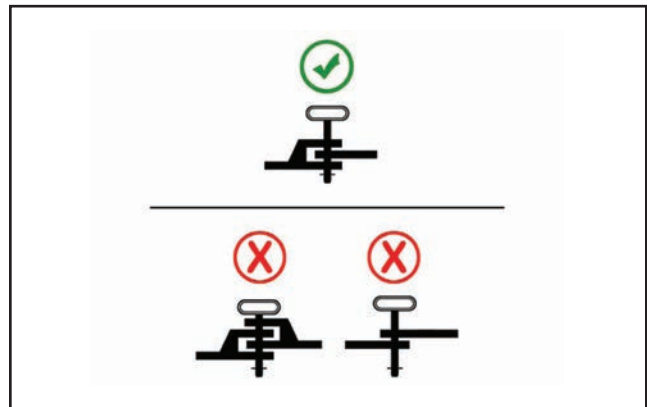
Tighten set screw (4) securing the PTO driveline to the grain bag loader shaft.

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

Lower or install the PTO driveline guard.

Attach the safety chain from the PTO driveline shield to the retaining clip (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.

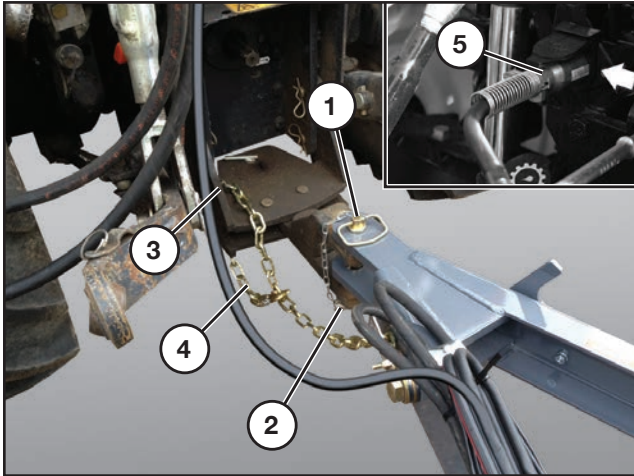


### Safety Chain Requirements:

- 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 the Grain Bag Loader (Cont'd)

### Connecting to Tractor



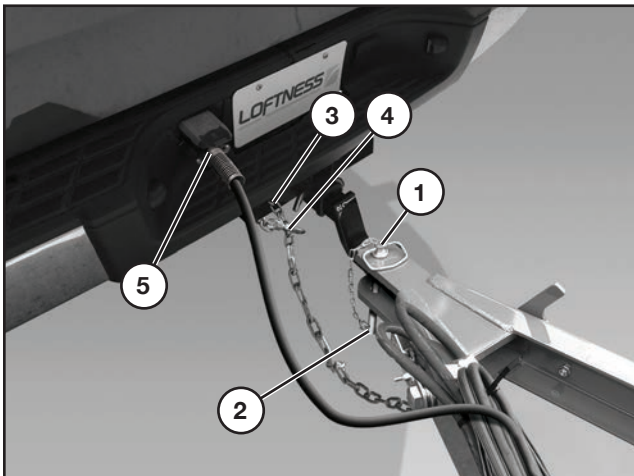
Back the tractor up to the hitch of the loader.

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.

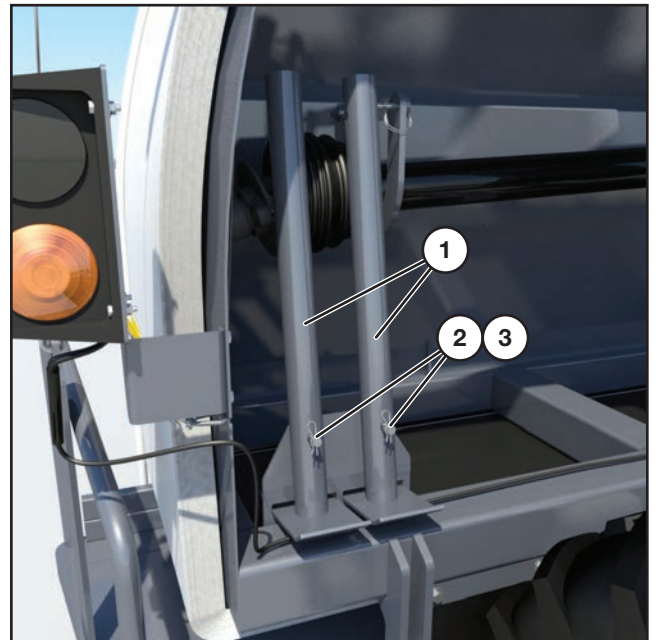
Insert pin (1) (1-1/8 in. to 1-1/4 in. pin) and secure with retaining clip (2).

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.

### Storing Jack Stands

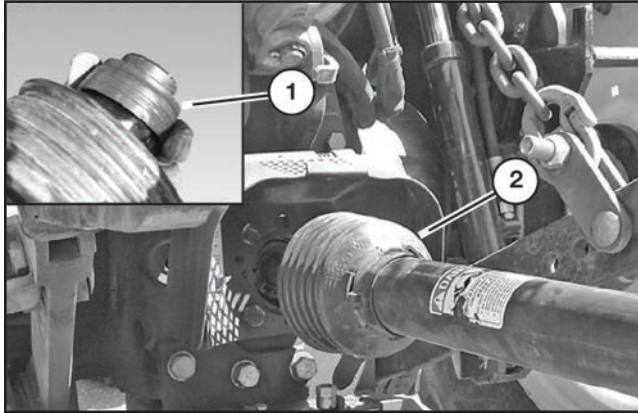
Once the grain bag loader has been connected to the towing vehicle, the jack stands should be removed from the back of the machine and placed in their storage location.



Place both jack stands (1) in the storage position and secure with pins (2) and hairpin clips (3) before transporting.

## Set-up Instructions

### Installing The Grain Bag Loader On The Tractor



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.



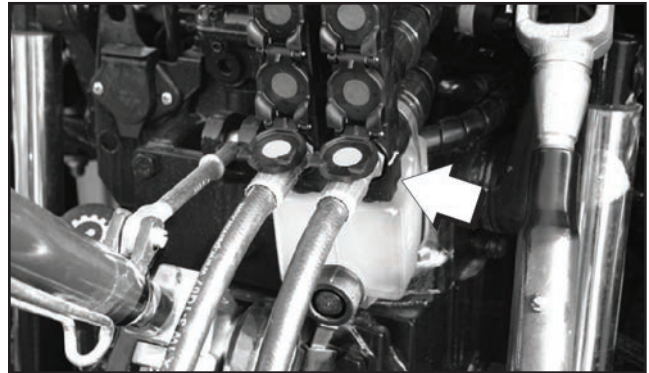
**CAUTION:** *Never use a steel hammer when connecting or disconnecting a PTO shaft.*



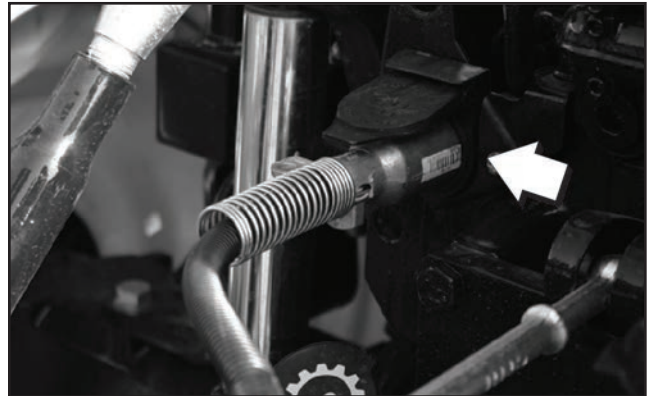
**CAUTION:** *DO NOT USE PTO ADAPTERS OF ANY KIND.*



**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.*



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.

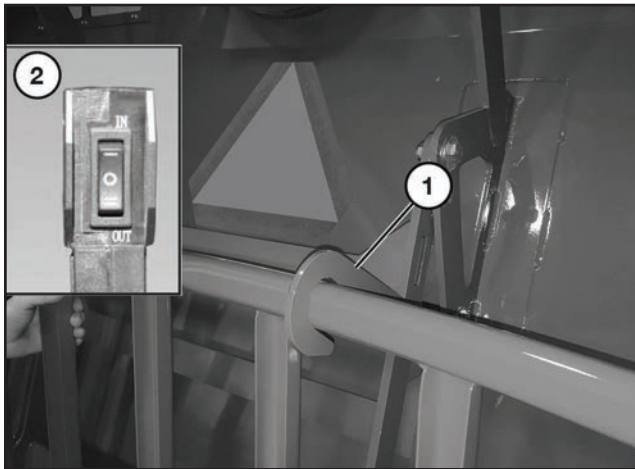


## Set-up Instructions

### Installing The Grain Bag Loader On The Tractor (Cont'd)

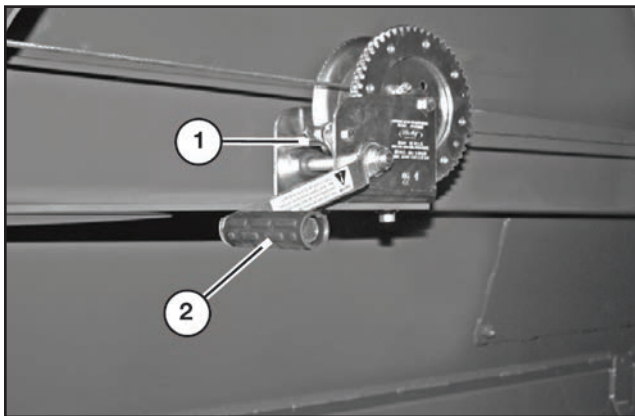
#### Installing The Grain Bag

**NOTE:** Installing the grain bag requires two people.



Release the latch (1) and lower the grain bag lift.

Press the bottom (OUT) of the switch (2) to lower the grain bag lift, and press the top (IN) the switch to raise the lift.



Release the latch (1) and rotate handle (2) counterclockwise to lower the tray.

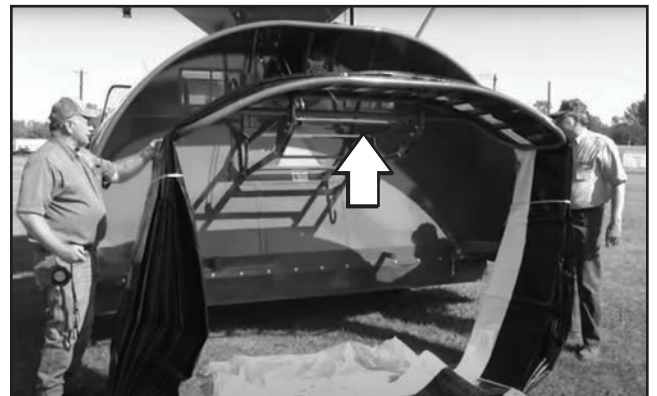
To raise the bag tray, engage the latch (1) and rotate the handle clockwise to raise the tray.



**WARNING:** The grain bag is heavy. Always use two people to place the grain bag on the tray.

Unfold the grain bag.

**NOTE:** The bag stretch indicator markings of grain bag should be positioned approximately 48 inches (121.92 cm) up on the side of the tunnel for better visibility by the operator.



Place the grain bag on the lift. Raise the lift to the top of grain bag loader housing.

# Set-up Instructions

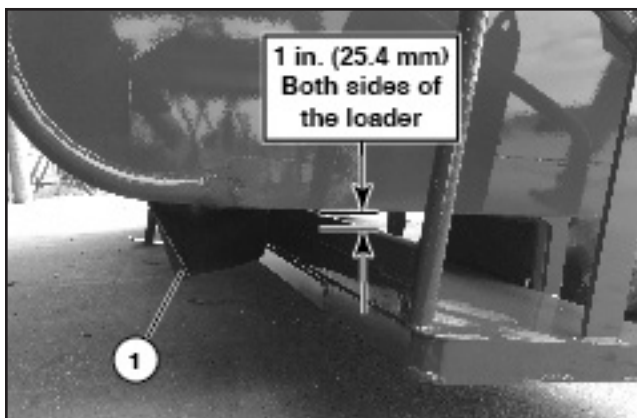
## Installing The Grain Bag Loader On The Tractor (Cont'd)

### Installing The Grain Bag (Cont'd)



Place the bottom of the grain bag into the tray.

Slide the grain bag into the tray until it contacts the back of the tray.

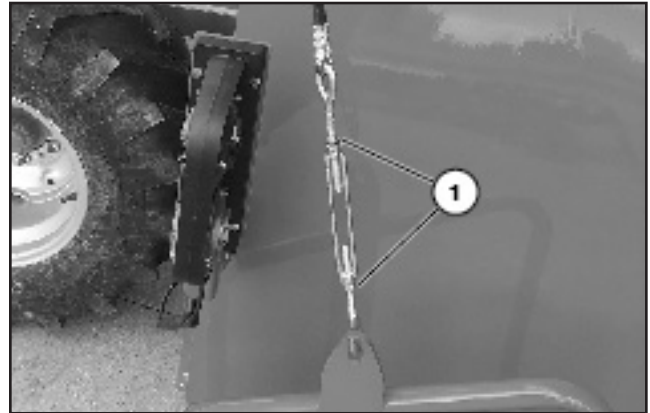


Raise the bag pan until there is approximately 1 in. (25.4 mm) of space between the bag pan and bottom side of the grain bag loader housing on both sides of the grain bag loader.

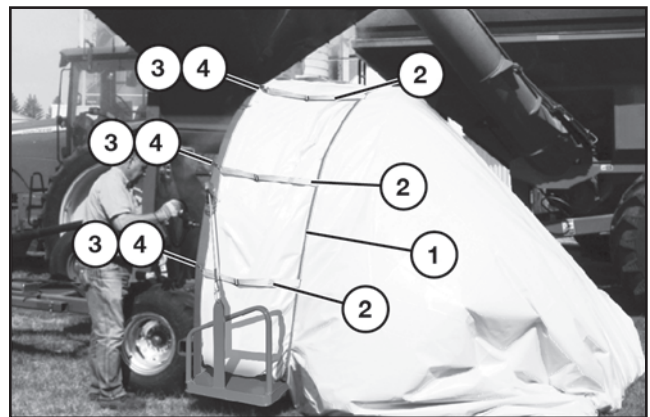
**NOTE:** The space between the bag pan and the grain bag loader housing must be even from side to side for the grain bag to unfold correctly during the bagging operation. Adjust the bag pan if needed.

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.



If the space is not the same as the winch side of the bag pan, loosen the two jam nuts (1) and adjust the turn-buckle until the space is equal from side to side. Tighten the jam nuts.



Secure the grain bag to the grain bag loader with the cord. Position the cord so that the folds from the bag are 3 inches (7.62 cm) behind the bag. Make sure one layer of the bag is underneath the cord. Pull the bag from the outside folds (1).

Place the 1 in. (2.54 cm) straps (2) into position over the bag.

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

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

## Installing The Grain Bag Loader On The Tractor (Cont'd)

### 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.



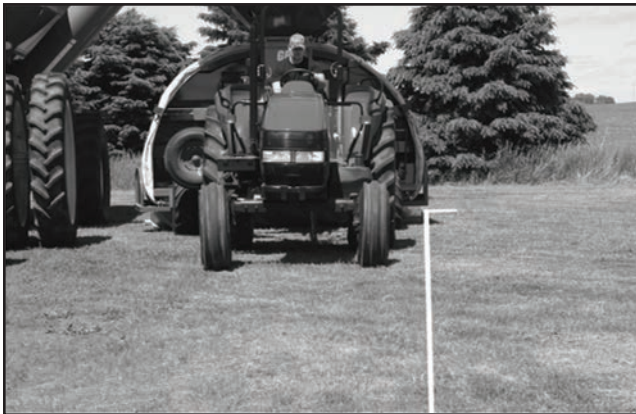
**WARNING:** Do not allow anyone to operate the machine until he or she has read the owner's manual and is completely familiar with all safety precautions.



**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.

**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 23 for instructions on operating the grain bag loader.



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.



## 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.

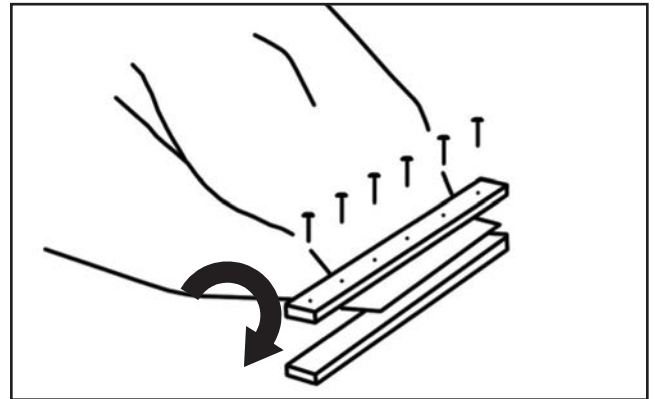


**WARNING:** The machine requires an operator at all times. Never leave the machine running and unattended.

Install the grain bag loader on the tractor. Be sure to read through and follow the instructions "Installing The Grain Bag Loader On The Tractor" beginning on page 18.

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.

- 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.



# Operating Instructions

## Getting Started (Cont'd)

### 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 6 to 8 inches (15.2-20.3 cm) above the ground.

## 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.

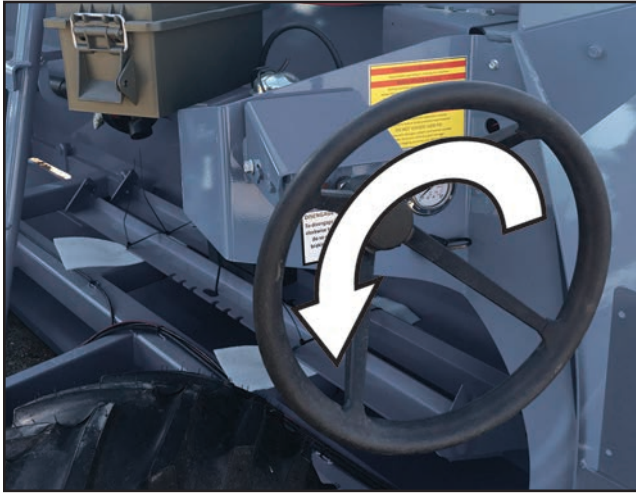
**NOTE:** DO NOT exceed 1000 PSI!

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.

# Operating Instructions

## Getting Started (Cont'd)

### Releasing Brake Pressure



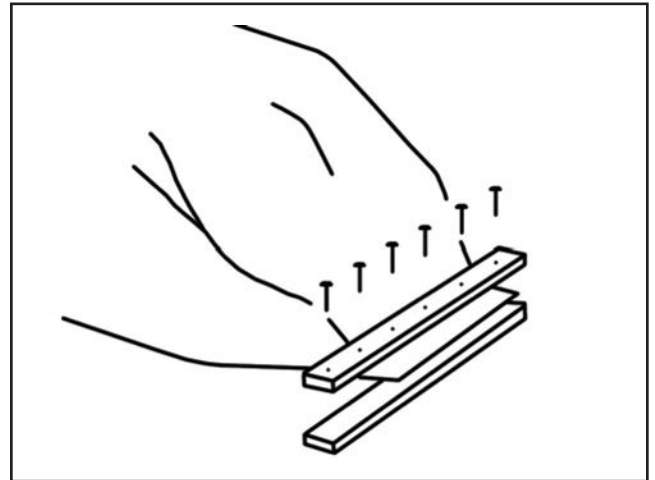
Turn the wheel counterclockwise to decrease the brake pressure.

|   |
|---|
| <b>Important Brake Operation!</b>   |
| Read before operating or moving the machine   |
| <b>Before Moving Machine</b>  |
| Release all brake pressure by turning the brake wheel fully to the left until it contacts the mechanical stop |
| <b>DO NOT EXCEED 20 MPH when towing</b>   |
| Check calipers after moving a short distance to ensure no heating of pads is occurring                        |
| <b>Before Bagging Material</b>  |
| Read and understand the operators manual  |
| Bag uphill to reduce brake pressure requirements  |
| <b>DO NOT EXCEED 1000 PSI</b>   |
| Over-pressure damages calipers and master cylinder  |
| Lower pressures minimize grain damage   |
| Common bagging pressures are 200 to 500 PSI   |
| N68487  |

|   |
|---|
| <b>⚠ WARNING</b>  |
| <b>DISENGAGE BRAKES BEFORE TOWING</b>   |
| To disengage brakes turn the wheel counter clockwise to the mechanical stop. Failure to do so will cause severe damage to the braking system and void the equipment warranty. |
| N23607  |

## 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 23.

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.

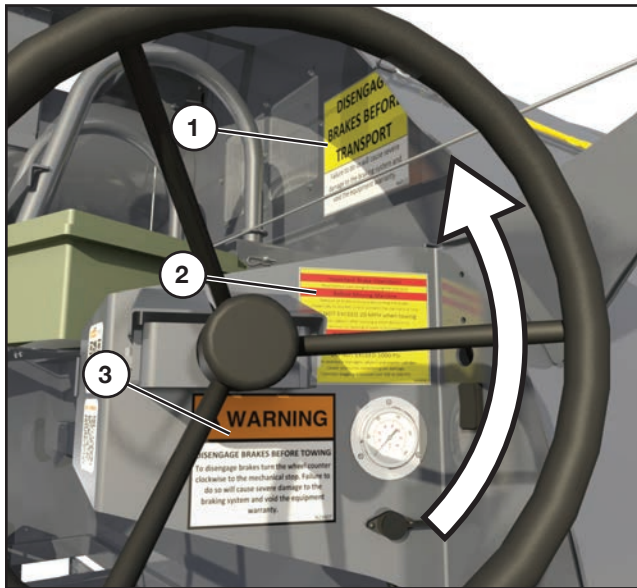
# Operating Instructions

## 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 decals called out in the image above (1, 2, 3), and shown in the following column, when preparing the grain bag loader for transporting.

1

**DISENGAGE  
BRAKES BEFORE  
TRANSPORT**

Failure to do so will cause severe damage to the braking system and void the equipment warranty.

N68531

2

**Important Brake Operation!**

Read before operating or moving the machine

**Before Moving Machine**

Release all brake pressure by turning the brake wheel fully to the left until it contacts the mechanical stop

**DO NOT EXCEED 20 MPH when towing**

Check calipers after moving a short distance to ensure no heating of pads is occurring

**Before Bagging Material**

Read and understand the operators manual

Bag uphill to reduce brake pressure requirements

**DO NOT EXCEED 1000 PSI**

Over-pressure damages calipers and master cylinder

Lower pressures minimize grain damage

Common bagging pressures are 200 to 500 PSI

N68487

3

 **WARNING**

**DISENGAGE BRAKES BEFORE TOWING**

To disengage brakes turn the wheel counter clockwise to the mechanical stop. Failure to do so will cause severe damage to the braking system and void the equipment warranty.

N23607


## Transporting with 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 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.



## Switching to Transport Position (Cont'd)

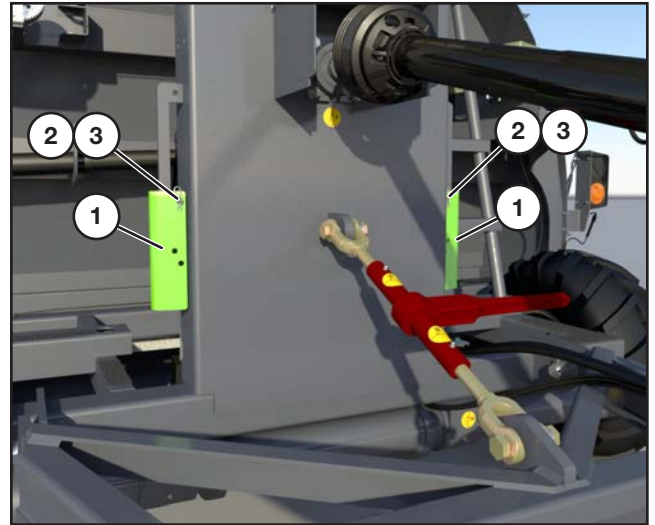
### Transporting with a Truck after Operation



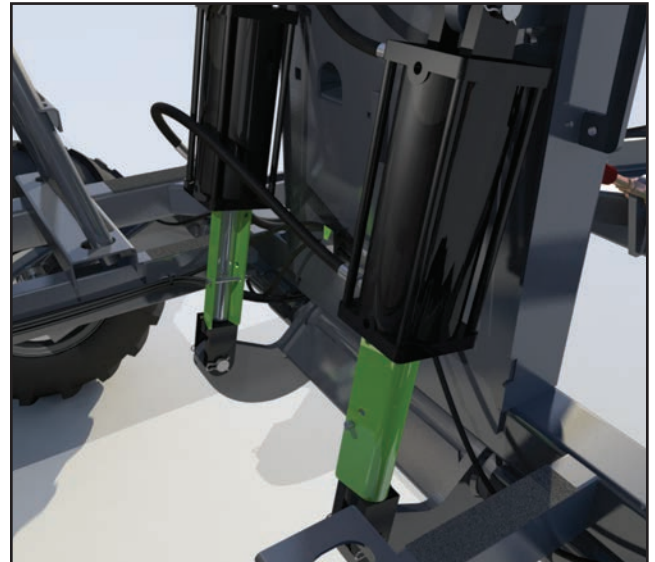
**WARNING:** Always position the grain bag loader on a flat surface or level terrain before disconnecting from the tractor. Failure to do so could cause the unit to roll when unhitched, creating a crushing hazard which could result in severe injury or death.



Using the tractor's hydraulics, lower the wheels (1) fully to raise the machine to the highest position.



Remove the left and right cylinder stops (1), hairpin clip (2) and pin (3) from the storage location.

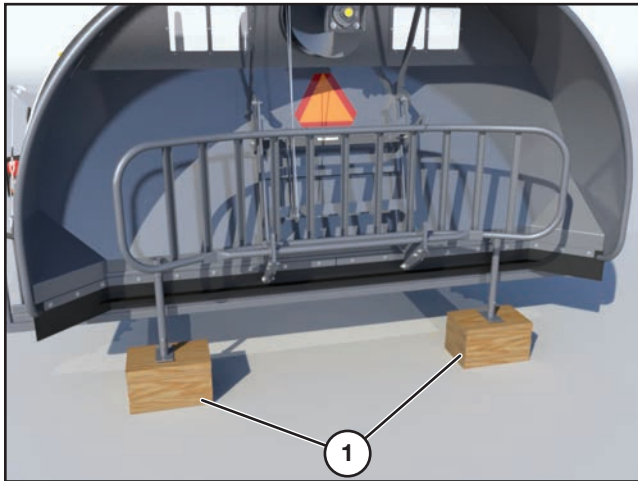


Reinstall the cylinder stops, pins and hairpin clips over the cylinder rods. Raise the axle until cylinders contact the cylinder stops.

# Operating Instructions

## Switching to Transport Position (Cont'd)

### Transporting with a Truck after Operation (Cont'd)



**IMPORTANT:** Always place blocks or boards (1) between the jack stands 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 jacks 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.

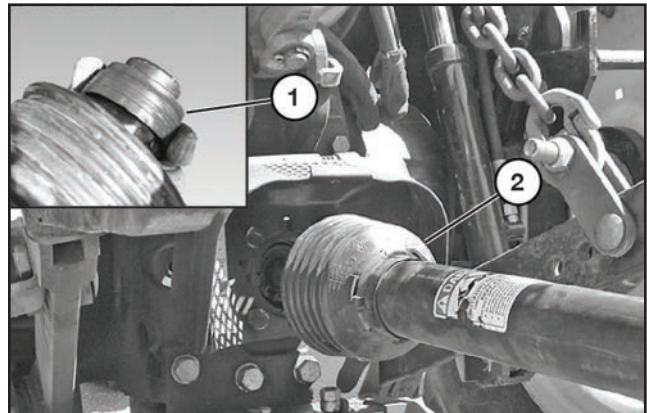


Adjust the leveling ratchet (1) so that the main frame and hitch are parallel with the ground and the jack stands are supported by the blocks.

Turn the tractor off.



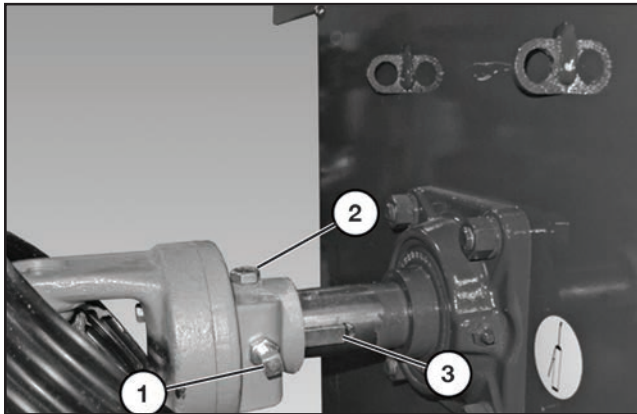
**WARNING:** Shut down and lock out power from the tractor before proceeding with the following steps. Failure to do so could result in serious injury or death.



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

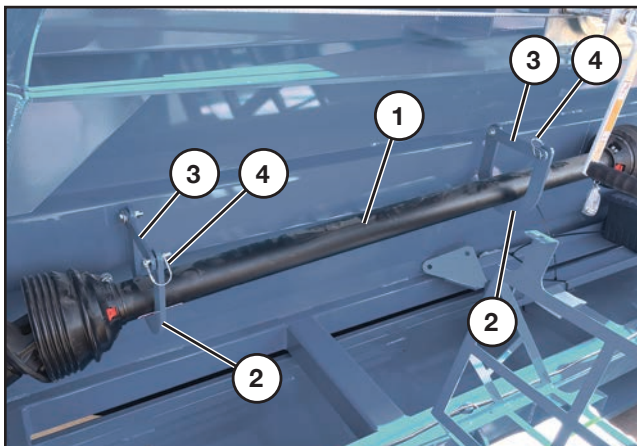
### Switching to Transport Position (Cont'd)

#### Transporting with a Truck after Operation (Cont'd)



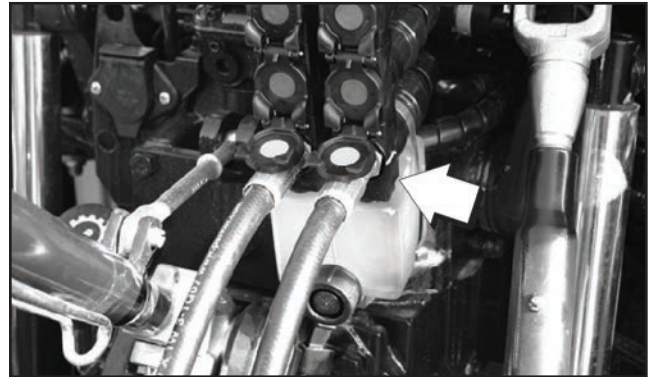
Loosen set screw (1), remove the cross bolt (2) and slide the driveline off the shaft.

**NOTE:** Be careful not to lose the key (3).

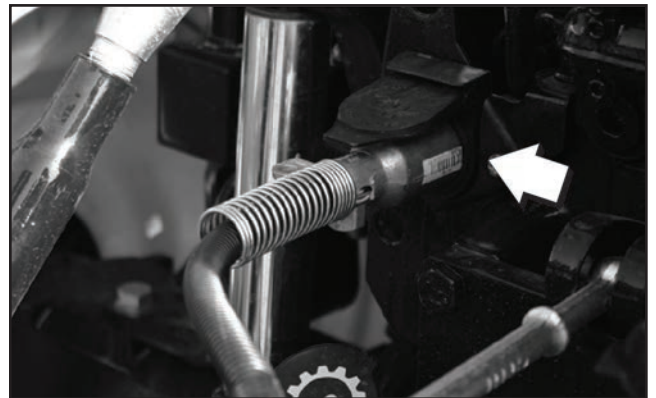


Install the PTO driveline in the storage location (inside the tunnel).

Place the PTO driveline (1) into the cradles (2), fold down the holder bars (3), and secure with the retaining pins (4).



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.



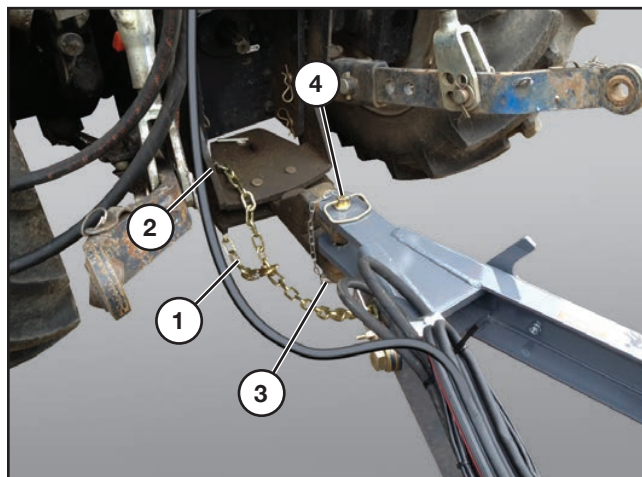
# Operating Instructions

## Switching to Transport Position (Cont'd)

### Transporting with a Truck after Operation (Cont'd)



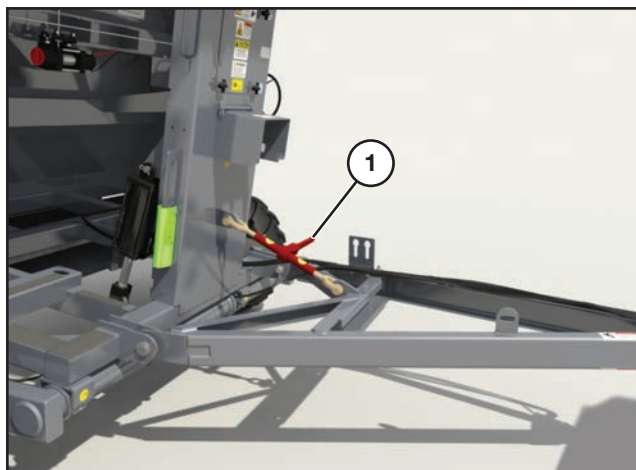
**WARNING:** Always hook up lights and safety chains when transporting the grain bag loader.



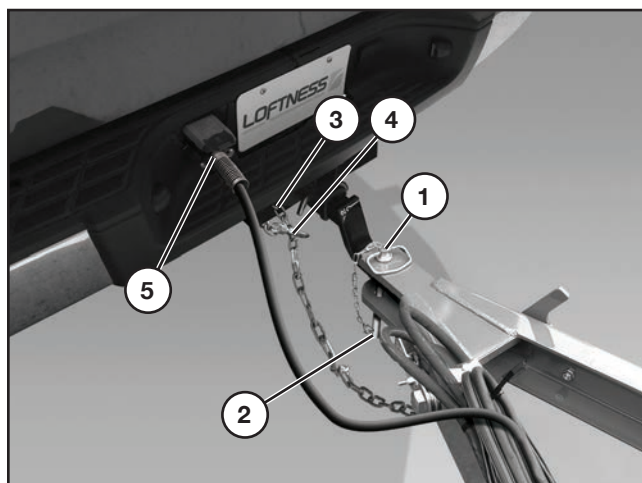
Remove safety chain (1) from tractor drawbar (2).

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

Start tractor and drive away from the grain bag loader.



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

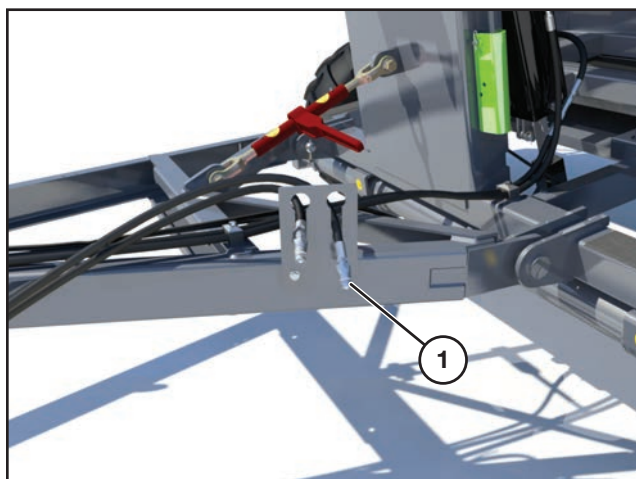


Back the truck up to the hitch of the loader.

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.



Place the hose ends into the hose holder (1).

## Unhitching Grain Bag Loader after Transport (for storage)

### Unhitching from Tractor

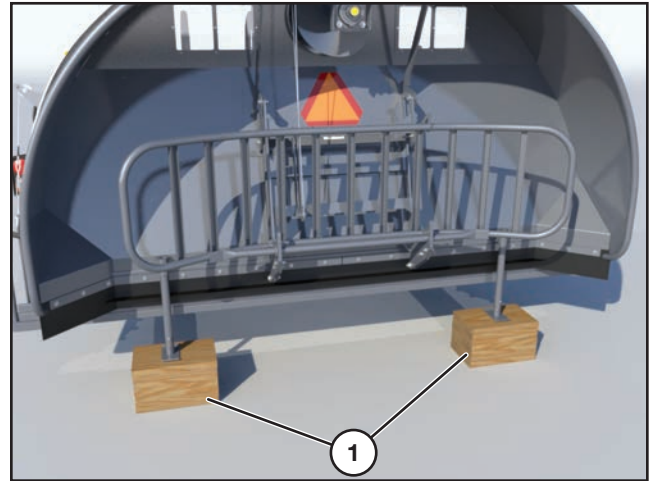


**WARNING:** Always position the grain bag loader on a flat surface or level terrain before disconnecting from the tractor. Failure to do so could cause the unit to roll when unhitched, creating a crushing hazard which could result in severe injury or death.



If the cylinder stops are not installed on the lift cylinder rods, use the tractor's hydraulics to raise the wheels to lower the main frame until the jack stands are 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 stops are 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 stands and the ground before unhitching the grain bag loader!

The number of boards will vary depending on ground/floor conditions and if the cylinder stops are installed

**NOTE:** Blocks do not need to be added if the grain bag loader will be parked on a concrete surface.

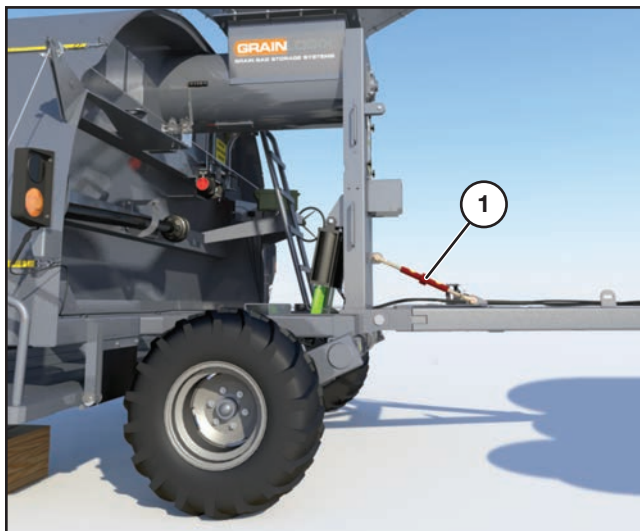


**WARNING:** The grain bag loader has negative tongue weight. Failure to place the jacks in the position shown above when unhitching the grain bag loader will cause the front hitch to raise rapidly and may result in serious injury.

# Operating Instructions

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

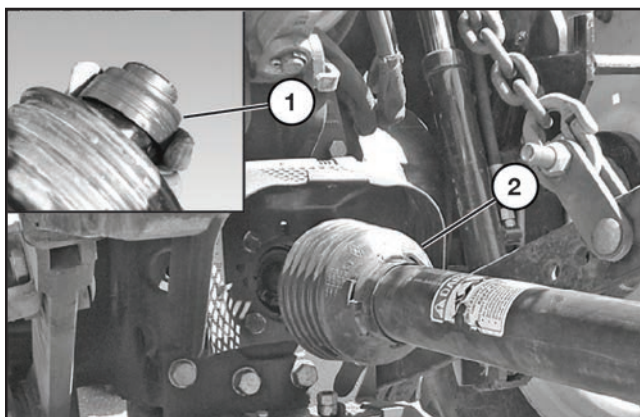
### Unhitching from Tractor (Cont'd)



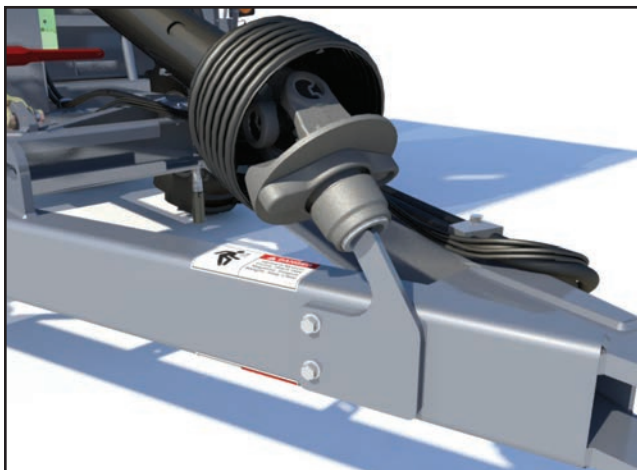
Adjust the leveling ratchet (1) so that the main frame and hitch are parallel with the ground and the jack stands are supported by the blocks.



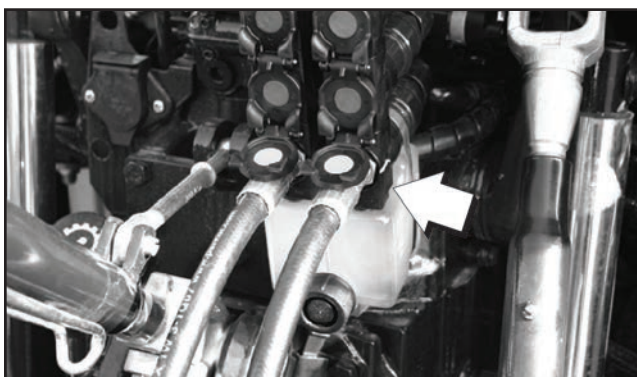
**WARNING:** Shut down and lock out power from the tractor before proceeding with the following steps. Failure to do so could result in serious injury or death.



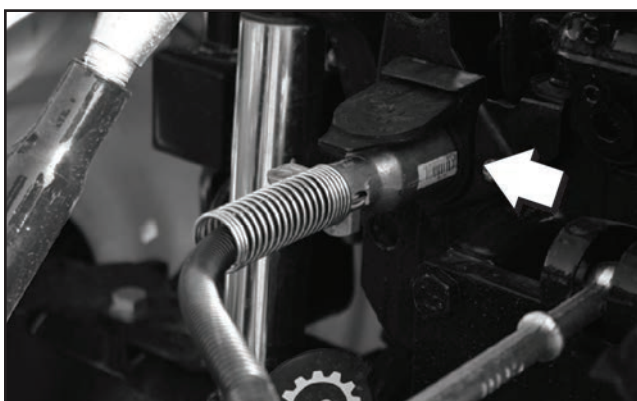
Retract sleeve (1), slide the PTO driveline (2) off the tractor PTO shaft.



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.

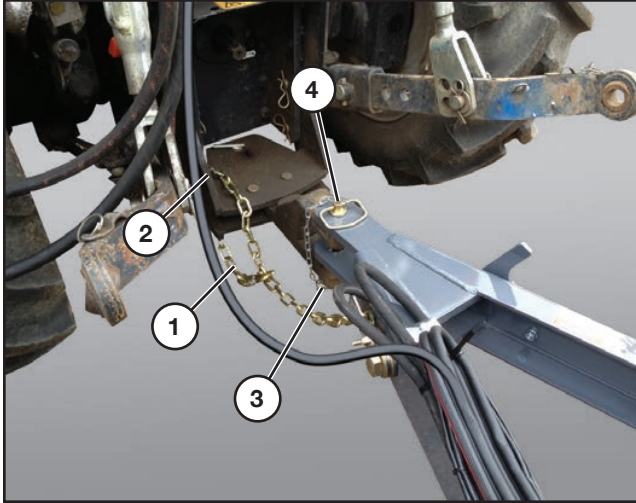


Disconnect the 7-pin electrical harness from the tractor's electrical connector, and the electric winch cable connections from the tractor battery.



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

### Unhitching from Tractor (Cont'd)



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

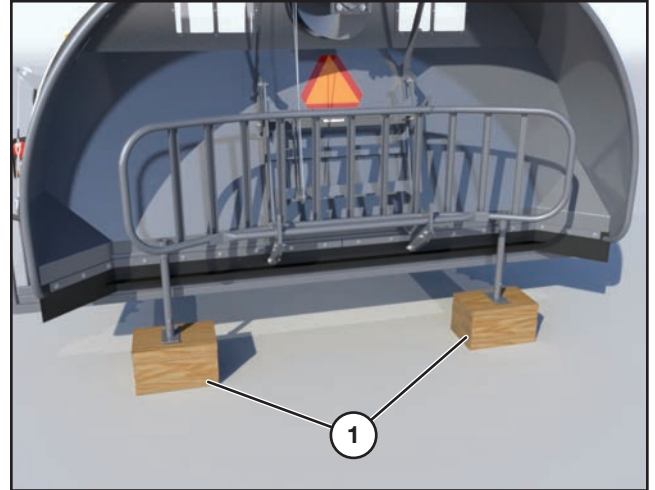
Remove retaining clip (3) from pin (4) and pull pin out.

Start tractor and drive away from the grain bag loader.

### 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 stands and the ground before unhitching the grain bag loader!

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



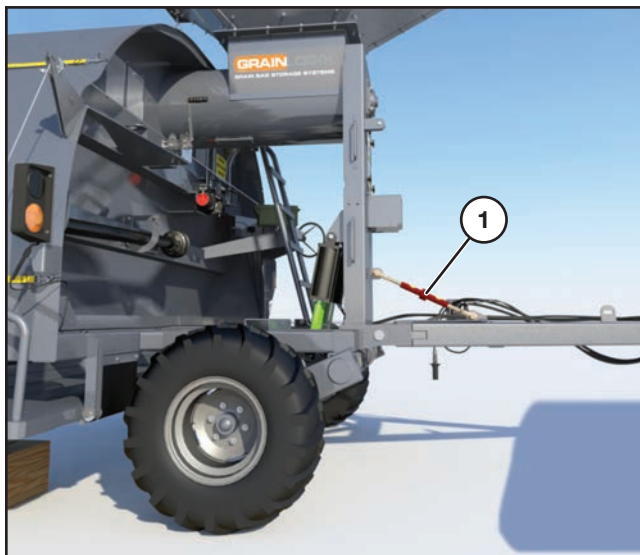
**WARNING:** The grain bag loader has negative tongue weight. Failure to place the jacks in the position shown above when unhitching the grain bag loader will cause the front hitch to raise rapidly and may result in serious injury.

# Operating Instructions

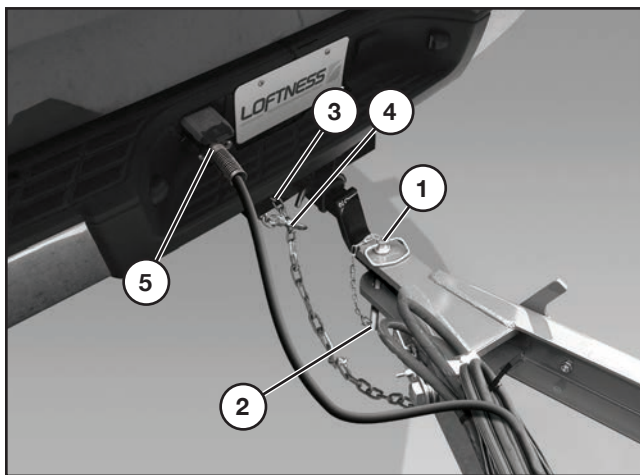
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## Unhitching Grain Bag Loader after Transport (for storage) (Cont'd)

### Unhitching from Truck (Cont'd)



Adjust the leveling ratchet (1) so that the main frame and hitch are parallel with the ground and the jack stands are supported by the blocks.



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 from the connector on the truck.

## 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         | X                | 33     |
| Every 50  | Bearing Set Screws  | X                | 36     |
|           | Sprocket Set Screws | X                | 33     |
|           | Brake Pads          | X                | 44     |
|           | 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.

# Maintenance

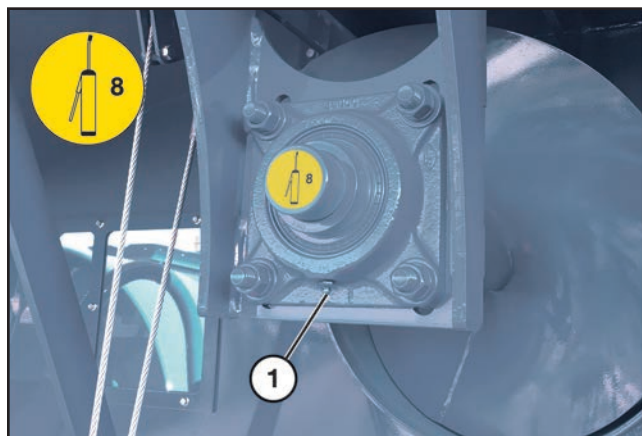
## Lubrication

### Grease Points

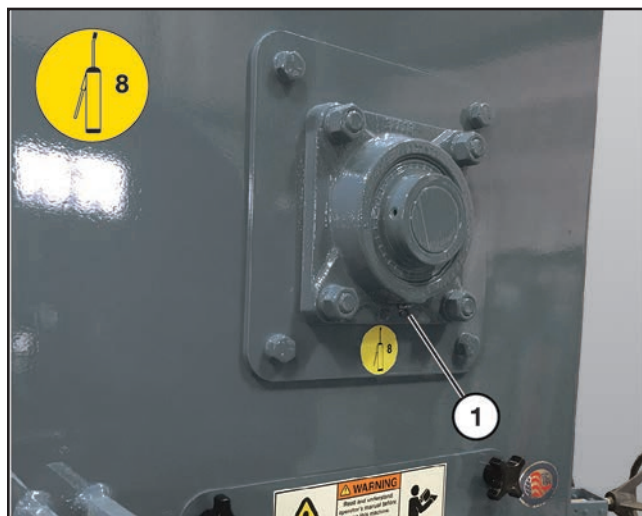
Use a SAE or #2 general purpose lithium based grease unless noted otherwise.

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

**NOTE:** See "Grain Bag Loader Identification" on page 10 and 11 for component location and identification.



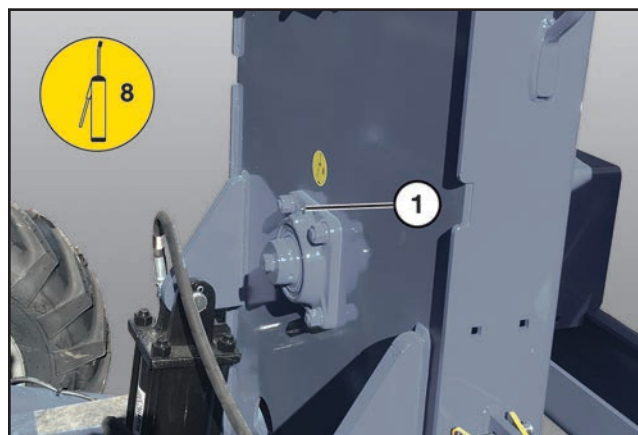
**Location:** Open end bearing of the discharge auger (1).  
**Interval:** Every 8 hours of operation.



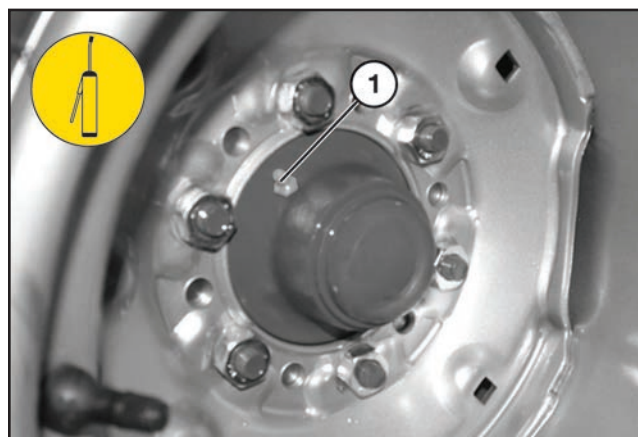
**Location:** Base end bearing of the discharge auger (1).  
**Interval:** Every 8 hours of operation.



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



**Location:** PTO lower back drive bearing (1).  
**Interval:** Every 8 hours of operation.

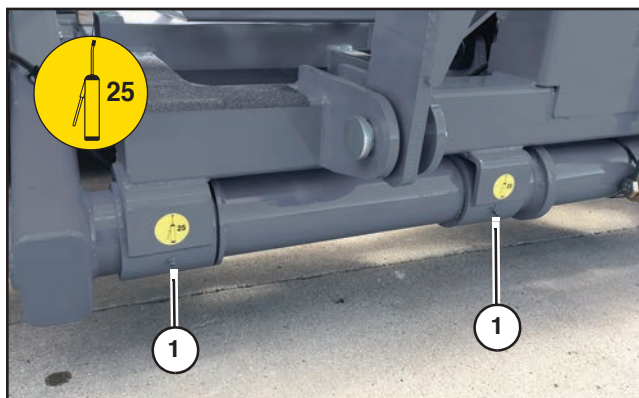


**Location:** Wheel bearings (1).  
**Interval:** Every 8 hours of operation.

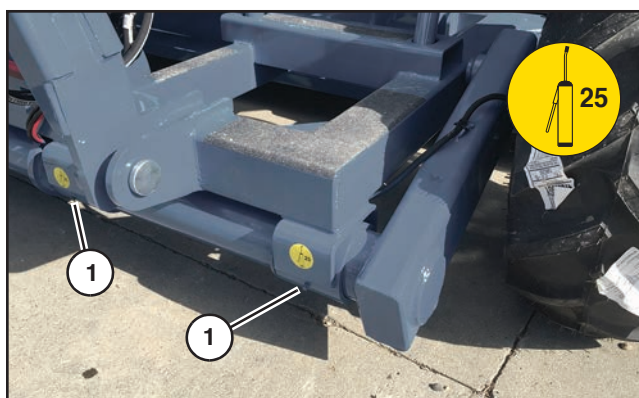


## Lubrication (Cont'd)

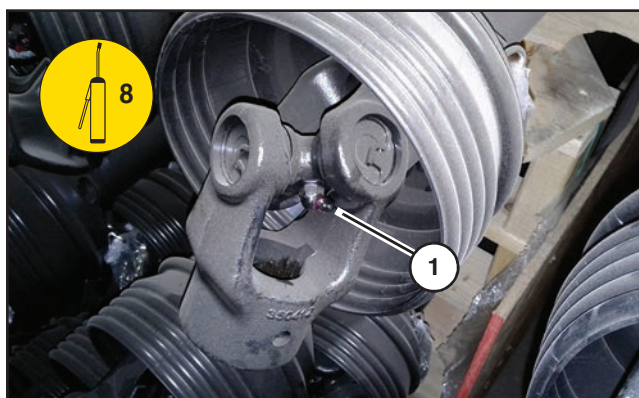
### Grease Points (Cont'd)



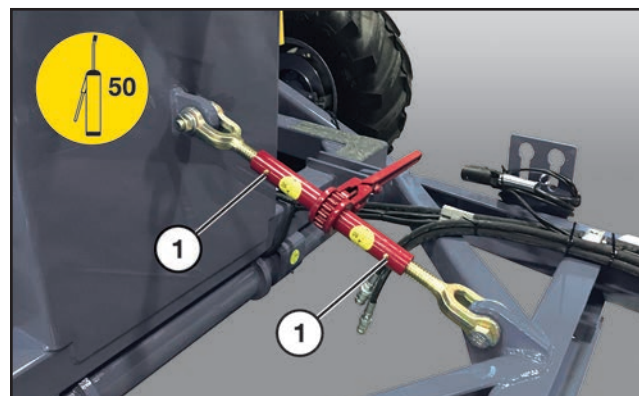
**Location:** Right side of axle (1) (front and back).  
**Interval:** Every 25 hours of operation.



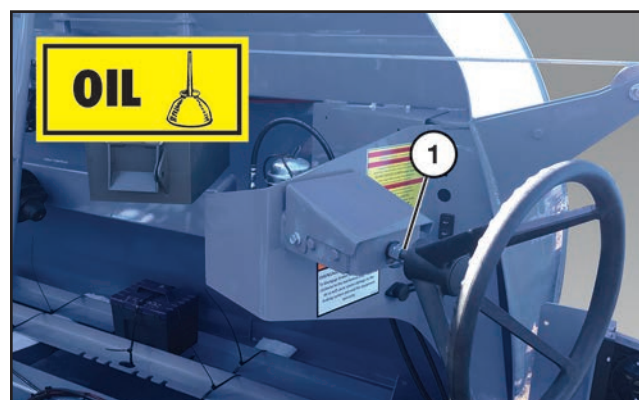
**Location:** Left side of axle (1) (front and back).  
**Interval:** Every 25 hours of operation.



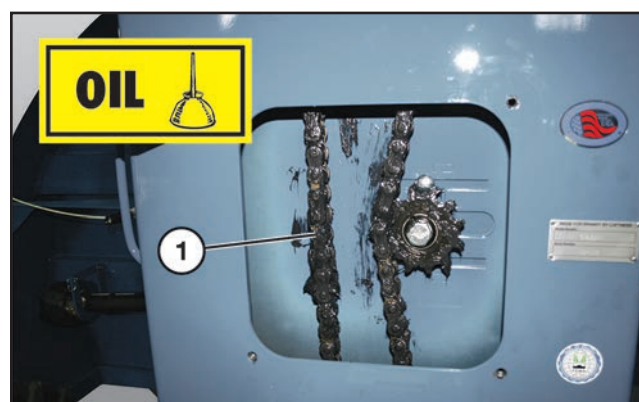
**Location:** Drive-line u-joints (1) (Both ends of PTO).  
**Interval:** Every 8 hours of operation.



**Location:** Height adjustment ratchet (1).  
**Interval:** Every 50 hours of operation.



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



**Location:** Drive chain (1). 30W oil or chain lubricant. (Remove 4 knobs (3) on gear box for access.)  
**Interval:** Every 8 hours of operation.

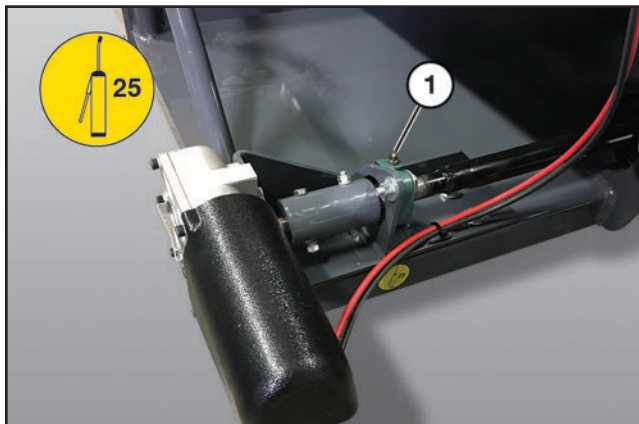


# Maintenance

## Lubrication (Cont'd)

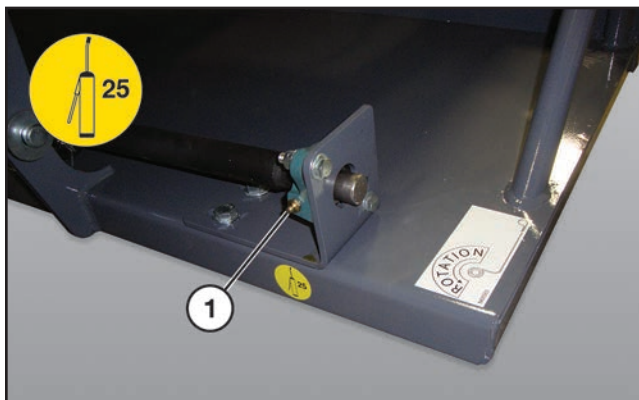
### Grease Points (Cont'd)

#### Apron Bearings (If Equipped)



**Location:** Right side bag pan tarp bearing (1).

**Interval:** Every 25 hours of operation.

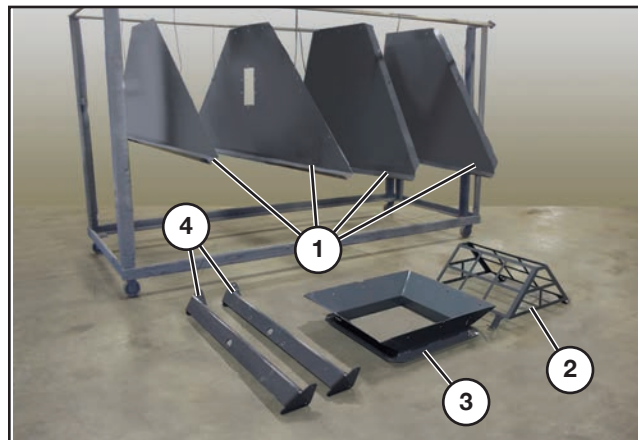


**Location:** Left side bag pan tarp bearing (1).

**Interval:** Every 25 hours of operation.

## Hopper

### 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 box.

The box should contain the following:

1. Four corner braces
2. One bag of 1/2" x 1-1/4" bolts (hopper base and braces)
3. One bag of 1/2" nuts (hopper, hopper base, and braces)

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

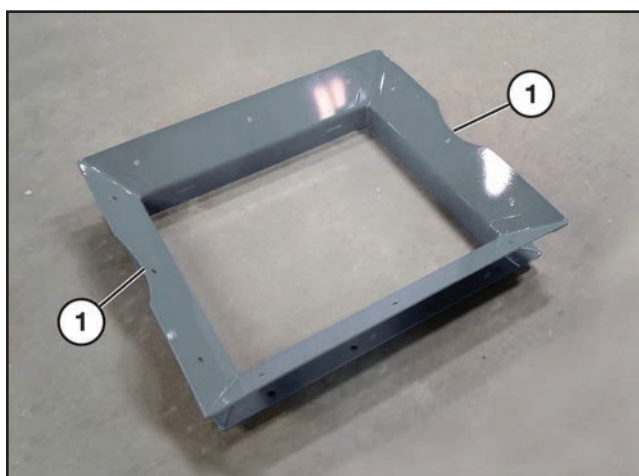
## Hopper (Cont'd)

### Main Hopper Assembly (Cont'd)

#### Assembly Notes:

- 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.

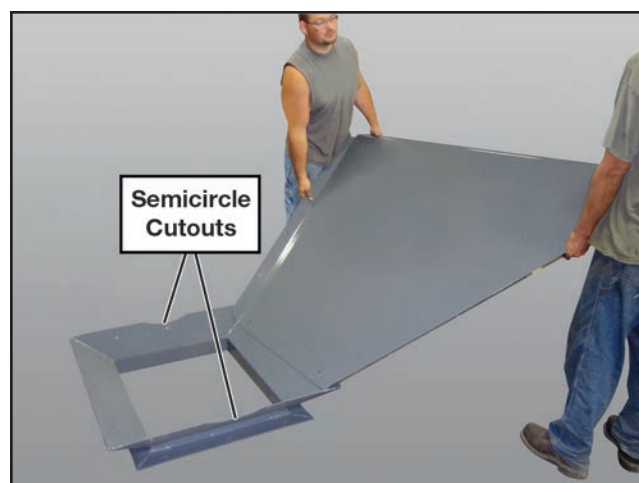
**NOTE:** See page 79 for hopper parts breakdown and identification.



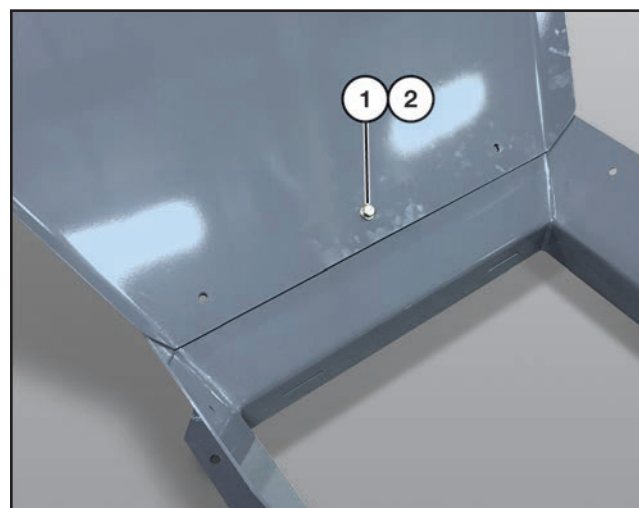
Place the hopper base on the ground.

The semicircle cutouts (1) will be the front and back of the hopper.

#### Left Side Panel



Using two people, place the left side panel into position inside the hopper base.



Insert a 1/2" x 1-1/4" 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.

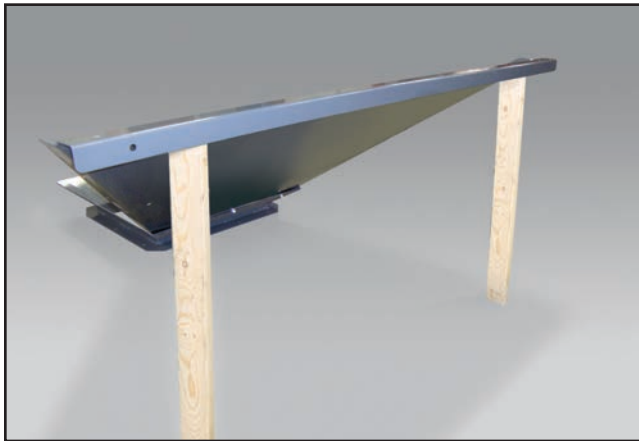
**NOTE:** Do not tighten bolt and nut at this time.

# Maintenance

## Hopper (Cont'd)

### Main Hopper Assembly (Cont'd)

#### Left Side Panel (Cont'd)



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

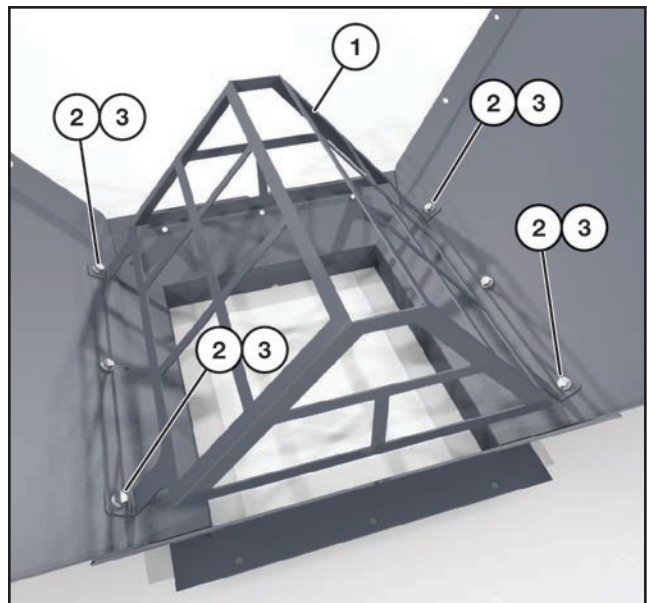
#### Right Side Panel



Assemble the right side panel to the hopper base. 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 1-1/4" 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.

## Hopper (Cont'd)

### Main Hopper Assembly (Cont'd)

#### Front Panel

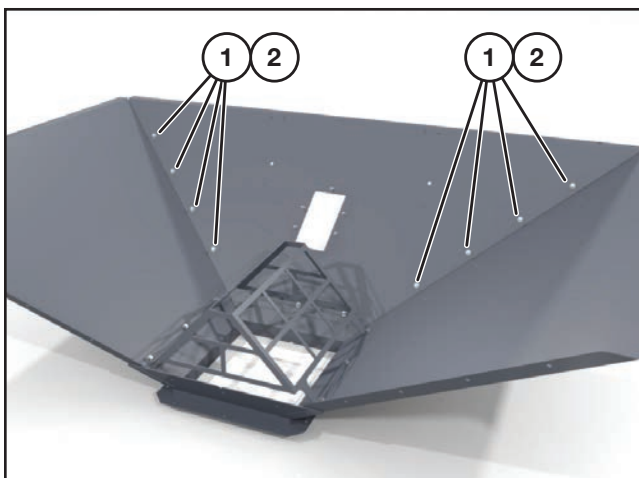


Position the front panel INSIDE the two hopper side panels and the hopper base.

Support the panel with a brace.

Secure the front panel to the hopper base using three 1/2" x 1-1/4" 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 1-1/4" 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.

#### Rear Panel

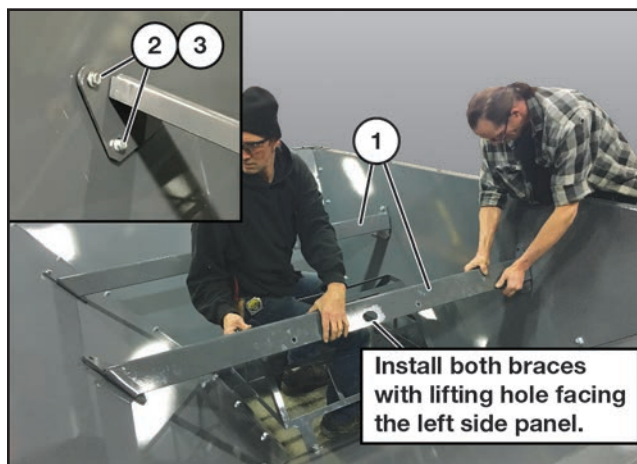


With one person inside the hopper, position the rear panel INSIDE the hopper base and side panels following the same procedure as the front panel.

**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 (this will be the brake wheel side when the hopper is mounted on the machine).

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.

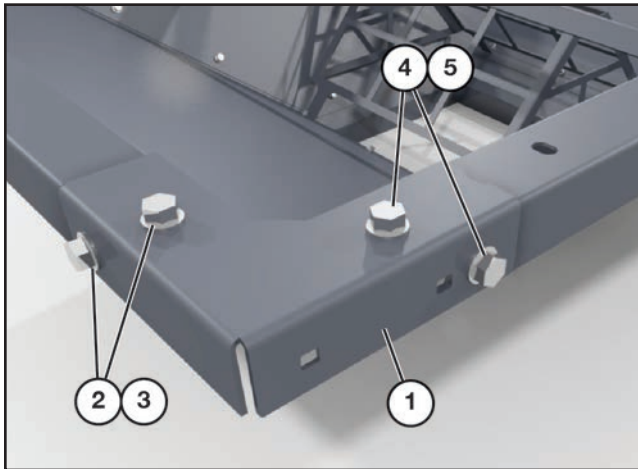


# Maintenance

## Hopper (Cont'd)

### Main Hopper Assembly (Cont'd)

#### Corner Brackets



Install one corner bracket (1) and align with holes in the hopper panels. Insert one 1/2" x 1-1/4" bolt (2) from the top and secure on the underside with a 1/2" nut (3). Insert one 1/2" x 1-1/4" bolt (2) in the opposite bracket hole and secure with a 1/2" 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.

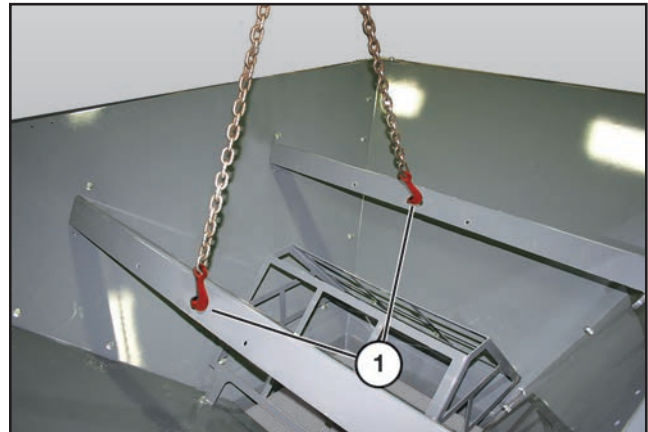
#### Tightening Hardware

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.

## Installing the Hopper



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.

Raise and move the hopper into position over the discharge auger housing.



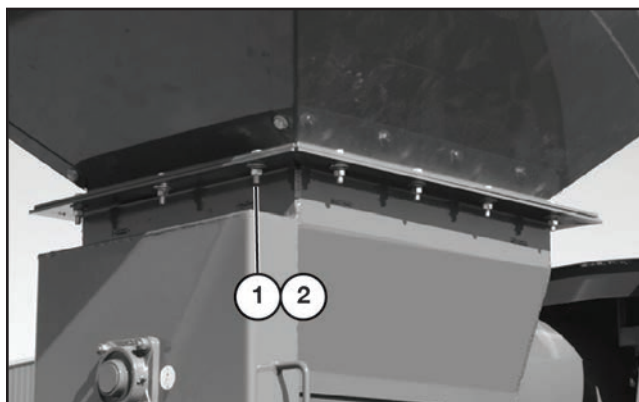
**NOTE:** When installing the hopper, make sure that the cross braces (1) are orientated as shown above.

Align and lower the hopper into position.



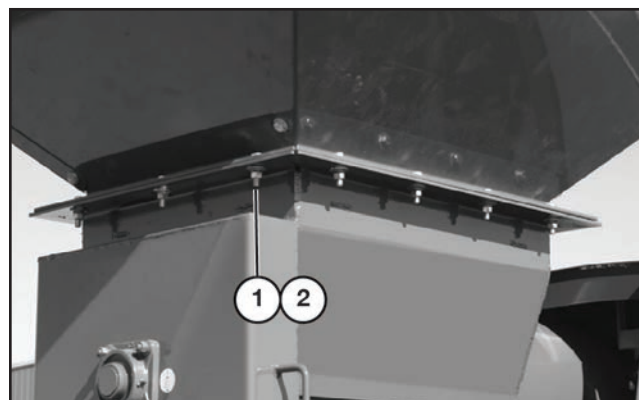
### Hopper (Cont'd)

#### Installing the Hopper (Cont'd)



Install the fourteen 1/2 in. bolts (1) and nuts (2).

Tighten 1/2 in. bolts and nuts. (See "Torque Specifications" on page 84.)



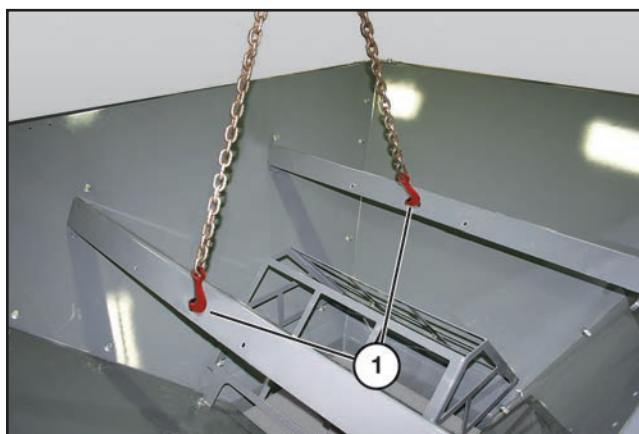
Remove the fourteen 1/2 in. bolts (1) and nuts (2).

Remove the hopper.



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

#### Removing the Hopper



Install chains (1) and an approved lifting device to the cross braces in the hopper.

Raise the lifting device until the chains are tight.

# Maintenance

## Disc Brakes

### Removing The Brake Pads And Calipers



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

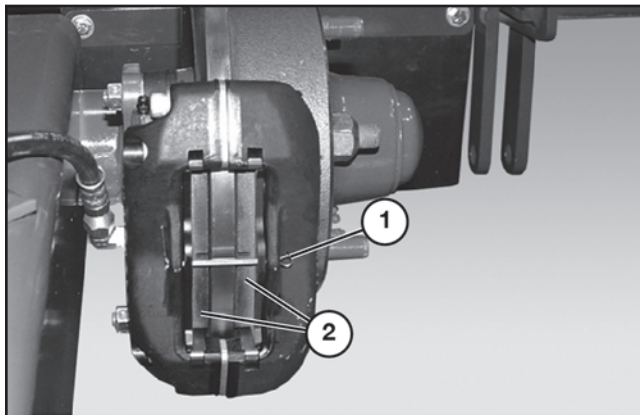
Install a jack or an approved lifting device to the grain bag loader.



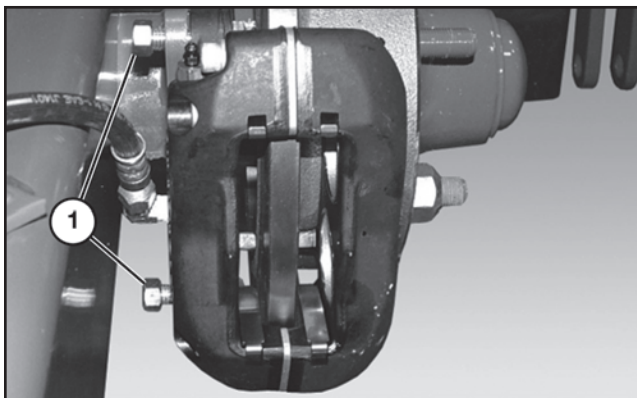
Loosen the six bolts or lug nuts (1).

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

Remove the bolts or lug nuts and wheel.

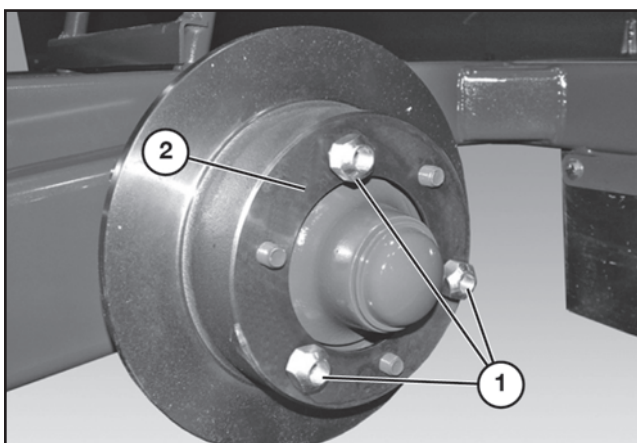


Remove the cotter pin (1) and brake shoes (2).

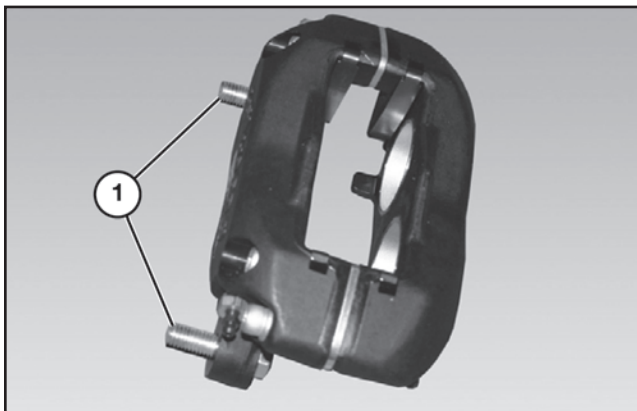


Remove the two nuts (1) and remove the calipers from the disc.

### Installing The Calipers And Brake Shoes



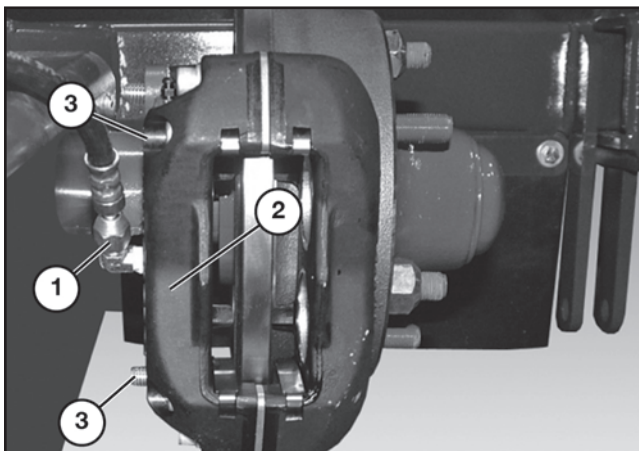
Install three lug nuts (1) to hold the brake drum (2) on the hub. Leave nuts loose.



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

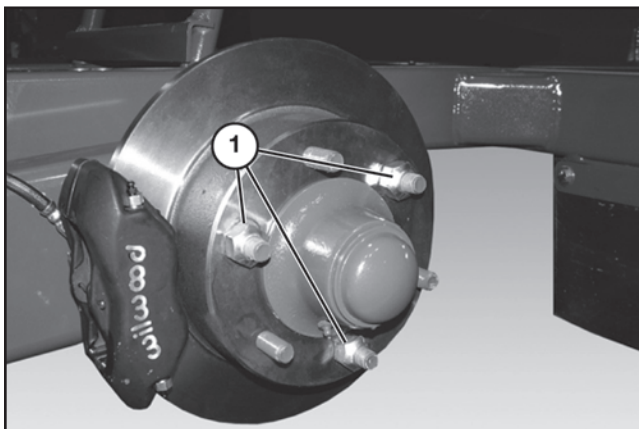
### Disc Brakes (Cont'd)

#### Installing The Calipers And Brake Shoes (Cont'd)

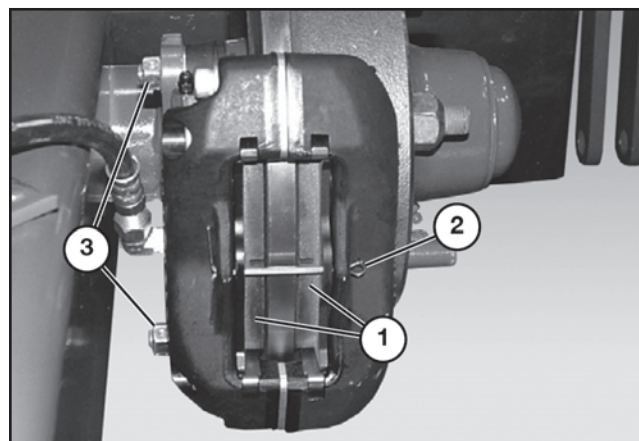


Attach brake hose (1) to brake caliper (2).

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

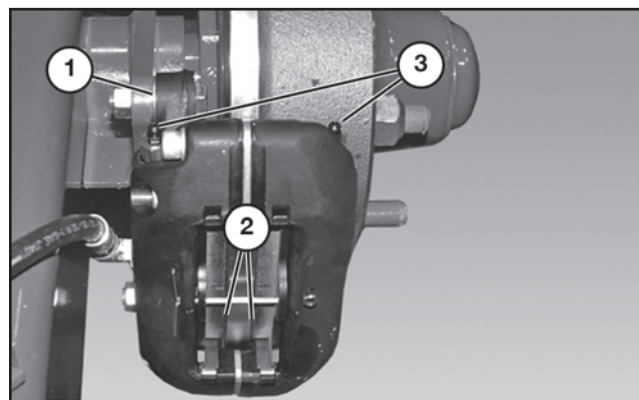


Tighten the lug nuts (1).



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

Tighten the two bolts (3) to the proper torque. (See "Torque Specifications" on page 85.)



**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.

# Maintenance

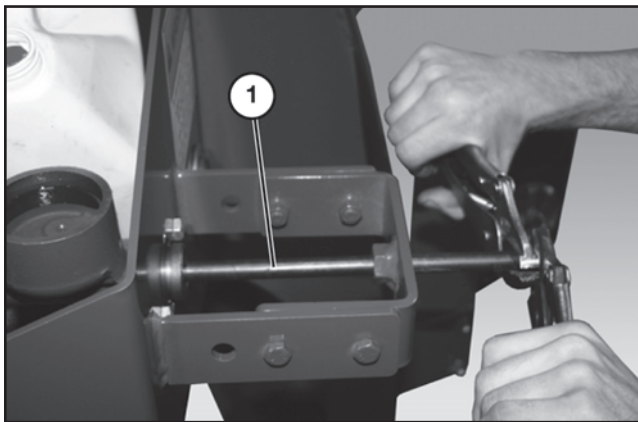
## Disc Brakes (Cont'd)

### Bleeding The Brake System

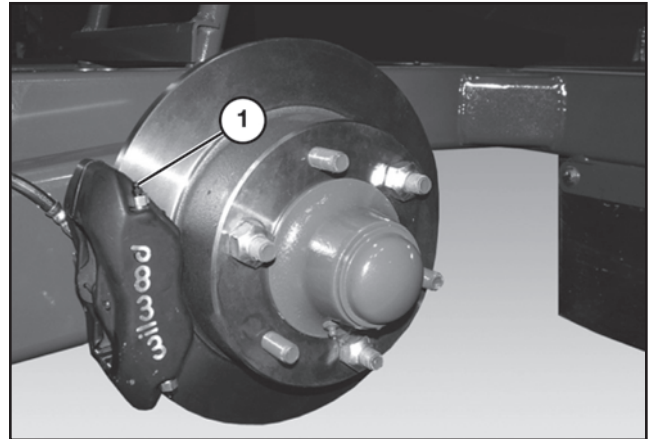
Park the Grain Bag Loader on level ground and turn tractor engine off.



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.



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.



## Disc Brakes (Cont'd)

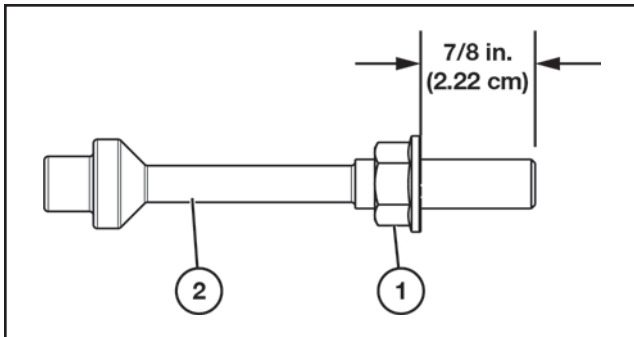
### Bleeding The Brake System (Cont'd)

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.

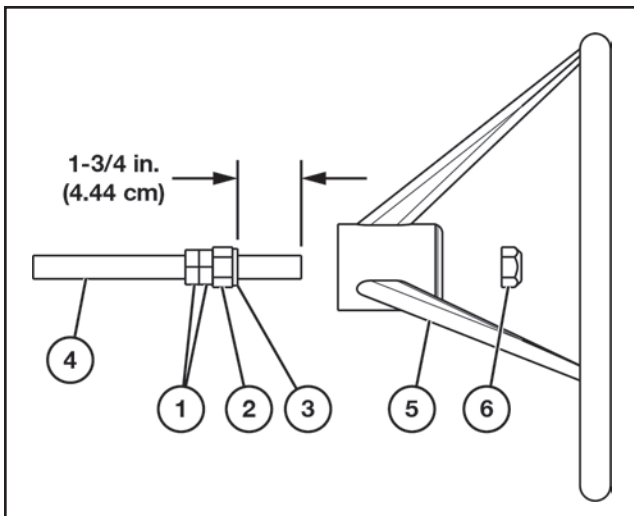
Repeat the above procedure on the LH Brake Caliper.

Reinstall the brake steering wheel. See "Steering Wheel Assembly" following this sub-section for instructions.

### Steering Wheel Assembly



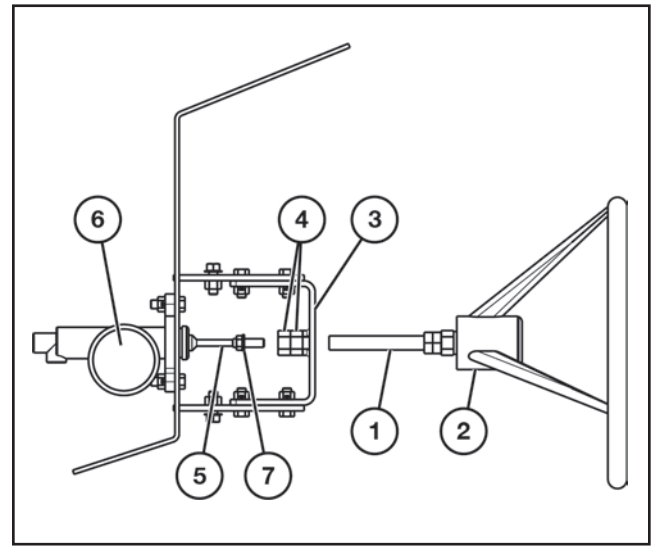
Install a 3/8" serrated flange nut (1) onto the piston rod (2). Leave approximately 7/8 in. (2.22 cm) of exposed threads.



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.)

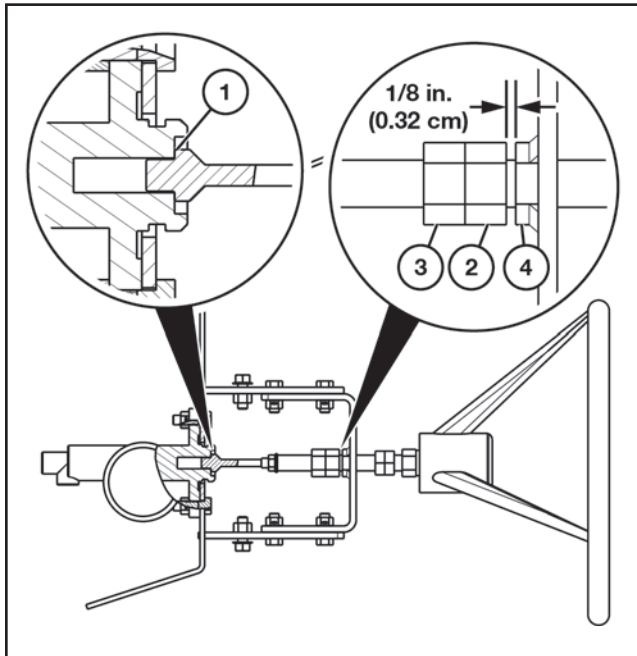


# Maintenance

## Disc Brakes (Cont'd)

### Bleeding The Brake System (Cont'd)

#### Steering Wheel Assembly (Cont'd)



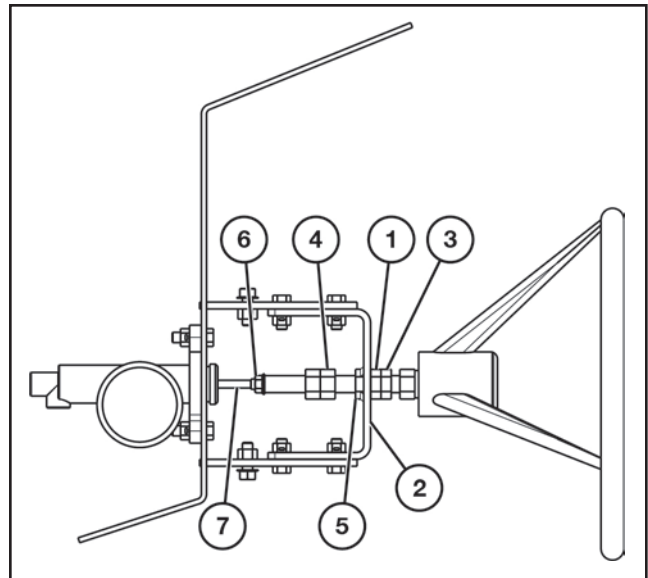
After attaching the piston rod to the brake actuator rod verify that the end of the piston rod just makes contact with the face of the master cylinder (1).

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).

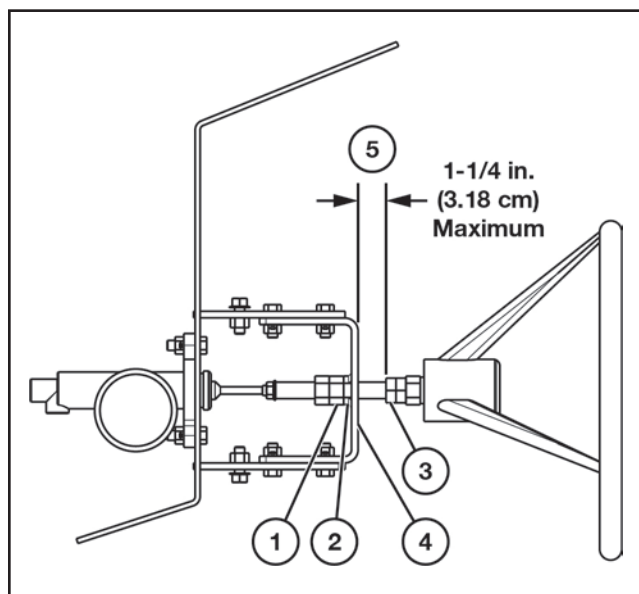
Repeat above procedure until 1000 psi is attained.

*(Procedure continued on following page.)*

## Disc Brakes (Cont'd)

### Bleeding The Brake System (Cont'd)

#### Setting The Brake Pressure (Cont'd)

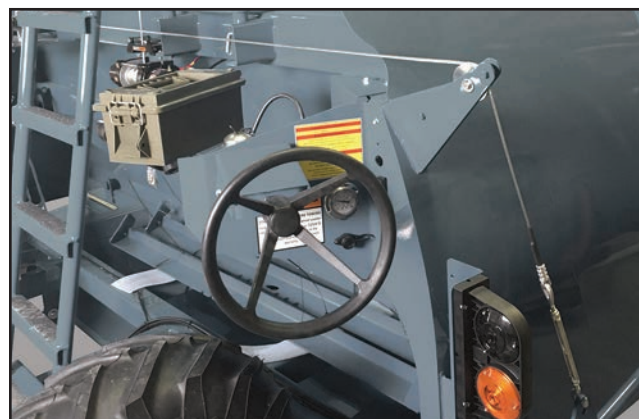


Turn the steering wheel all the way out until the 5/8" nut (1) contacts the mechanical stop (2).

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" 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 85)

# Maintenance

## 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.   |
| 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.   |
| 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.  |
| Brake discs are hot after towing.        | Brake valve is not backed all the way out.     | Move wheel counterclockwise until it hits the mechanical stop.          |
| 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 winch not working.                | Switch on hand control not installed properly. | Verify keyed plug on the wire to winch is in the right position.        |
|  | Switch is bad.                                 | Replace switch.   |
|  | Damaged wire at switch.                        | Repair or replace wire.   |
| Cradle winch does not have enough power. | Poor electrical connection at the tractor.     | Tighten or clean battery connections.                                   |
| Hydraulic height wheels not holding.     | Hydraulic cylinders worn.                      | Replace seals or cylinders.   |
|  |  | Tighten all hydraulic connections.                                      |
|  | Tractor valve leaking.                         | Repair tractor hydraulics.  |



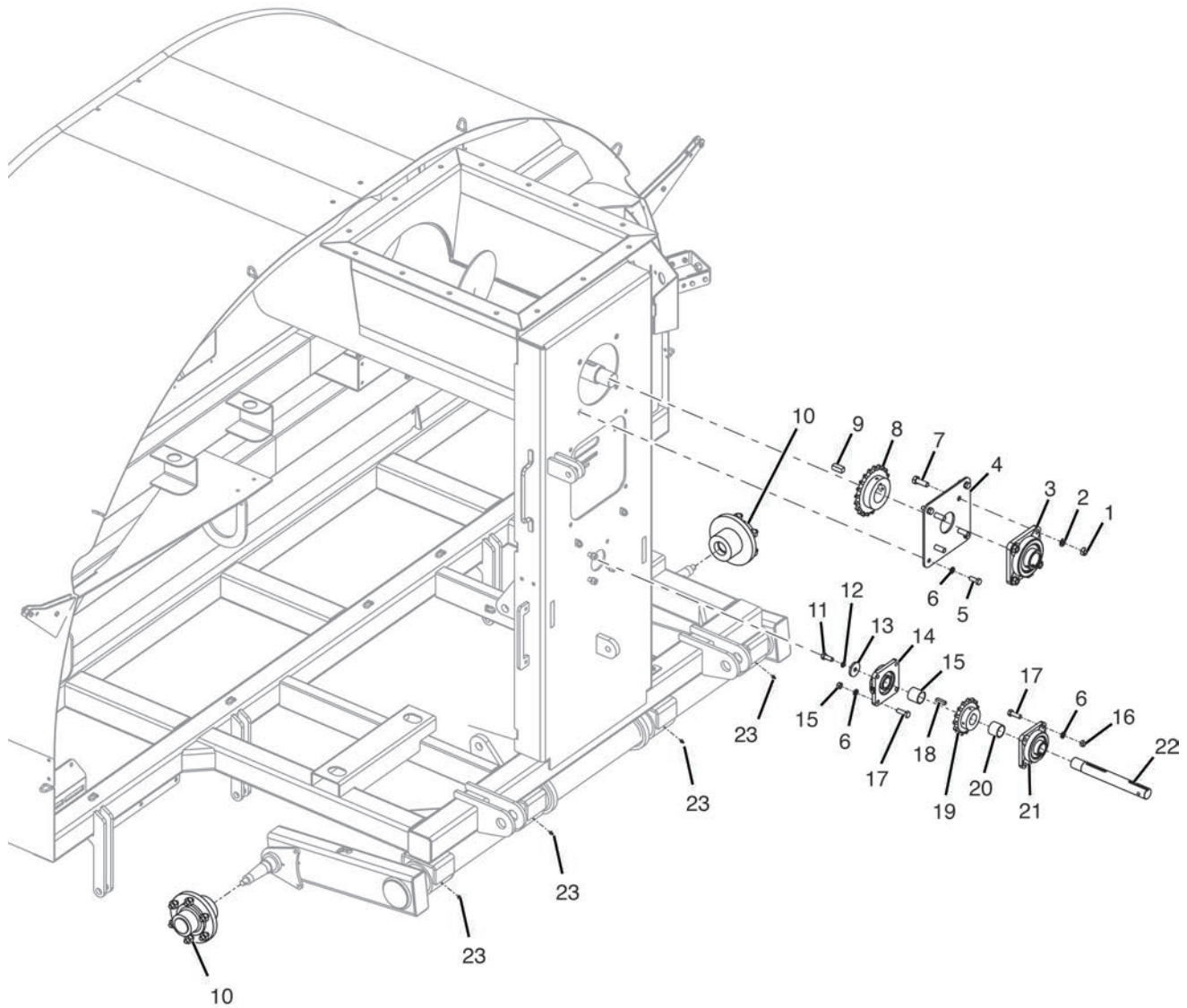
## PARTS IDENTIFICATION



## Parts Identification

---

### Bearing and Sprocket Assembly

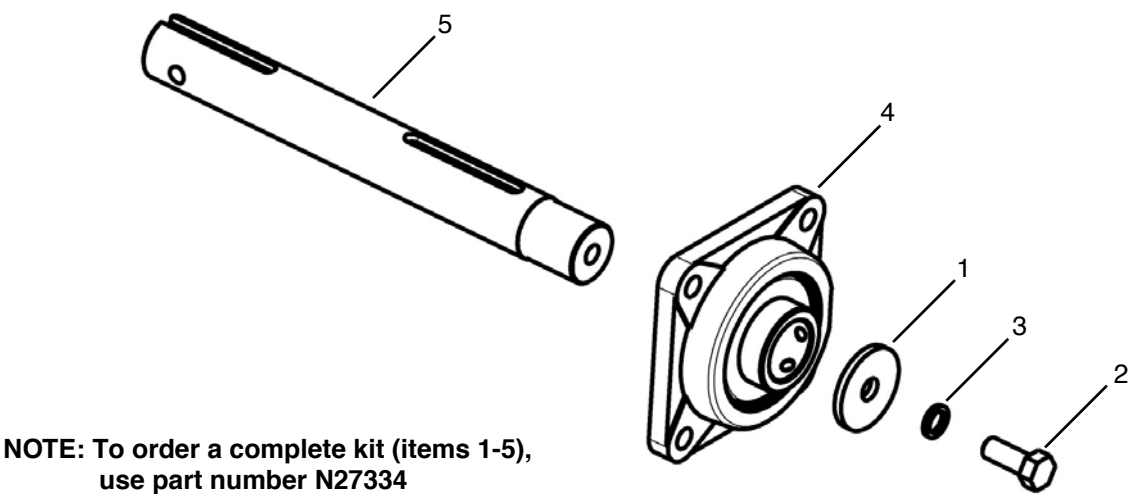


### Bearing and Sprocket Assembly

| #  | QTY. | PART #  | DESCRIPTION                     |
|----|------|---------|---------------------------------|
| 1  | 4    | 4058    | NUT, STANDARD 5/8"              |
| 2  | 4    | 4070    | WASHER, LOCK 5/8"               |
| 3  | 1    | N30235  | BEARING, 2" DODGE 4-BLT FLG     |
| 4  | 1    | N23679  | PLATE, GBL AUGER END MOUNT      |
| 5  | 4    | 4012    | BOLT, 1/2" X 1-1/4" GRADE 5     |
| 6  | 12   | 4155    | WASHER, LOCK 1/2"               |
| 7  | 4    | 4021    | BOLT, 5/8 X 1-3/4 GRADE 5       |
| 8  | 1    | N23704  | SPROCKET, 80B21 - 2-1/2" RB     |
| 9  | 1    | N23708  | KEY, 5/8" X 1-5/8"              |
| 10 | 2    | N23778  | HUB, 6 BOLT 6" PAT W/STUDS      |
| 11 | 1    | 4535    | BOLT, 1/2-20 X 1-1/4 GR 8       |
| 12 | 1    | N16472  | WASHER, 1/2 NORDLOCK            |
| 13 | 1    | 4074    | WASHER, 2" OD X 1/2" ID X 1/4"  |
| 14 | 1    | N30228  | BEARING, 1-7/16" DODGE 4-BLT FL |
| 15 | 1    | 202161  | SPACER, GBL DRIVE SPROCKET A    |
| 16 | 8    | 4250    | NUT, STANDARD 1/2               |
| 17 | 8    | 4013    | BOLT, 1/2" X 1-1/2" GRADE 5     |
| 18 | 1    | 7121-01 | KEY, 3/8" X 1-1/2"              |
| 19 | 1    | N22468  | SPROCKET, 80B15 - 1-1/2" RB     |
| 20 | 4    | 202162  | SPACER, GBL DRIVE SPROCKET B    |
| 21 | 2    | N30229  | BEARING, 1-1/2" DODGE 4-BLT FLG |
| 22 | 1    | N33268  | SHAFT, GBL10 BOTTOM DRIVE       |
|    | 1    | N27334  | GBL LOCKING FRONT SHAFT KIT     |
| 23 | 4    | 4105    | GREASE-ZERK, 1/4" SCREW-IN      |

# Parts Identification

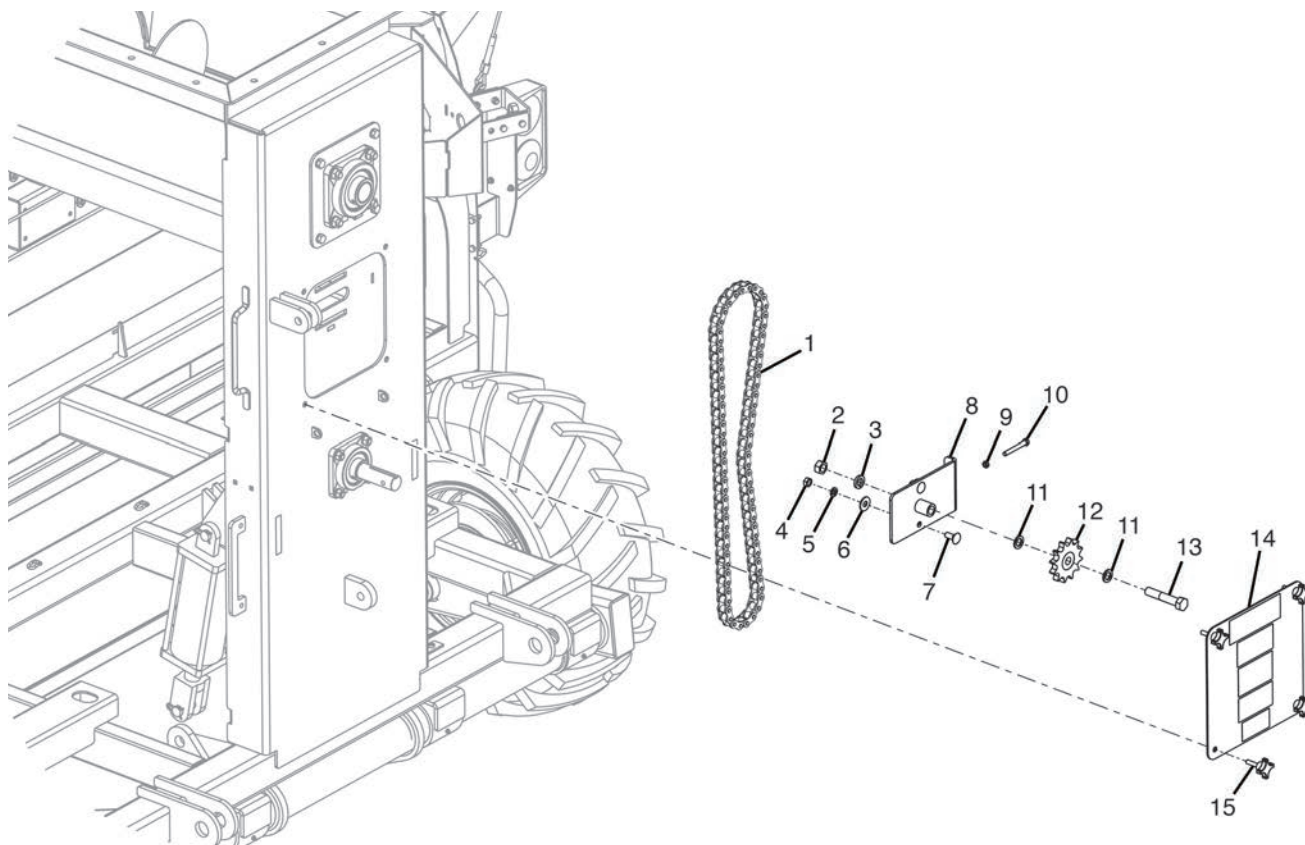
## Locking Front Shaft Kit (N27334)



NOTE: To order a complete kit (items 1-5),  
use part number N27334

| # | QTY. | PART # | DESCRIPTION                          |
|---|------|--------|--------------------------------------|
| 1 | 1    | 4074   | WASHER, 2" OD x 1/2" ID x 1/4"       |
| 2 | 1    | 4535   | BOLT, 1/2" x 1 - 1/4" GR 8 FINE THRD |
| 3 | 1    | N16472 | WASHER, 1/2" NORDLOCK                |
| 4 | 1    | N30228 | BEARING, 1 - 7/16" DODGE 4 BOLT      |
| 5 | 1    | N33268 | SHAFT, GBL FRONT DRIVE LOCKED        |

## Drive Assembly

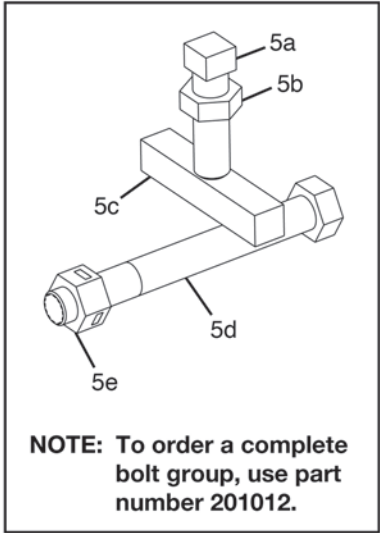
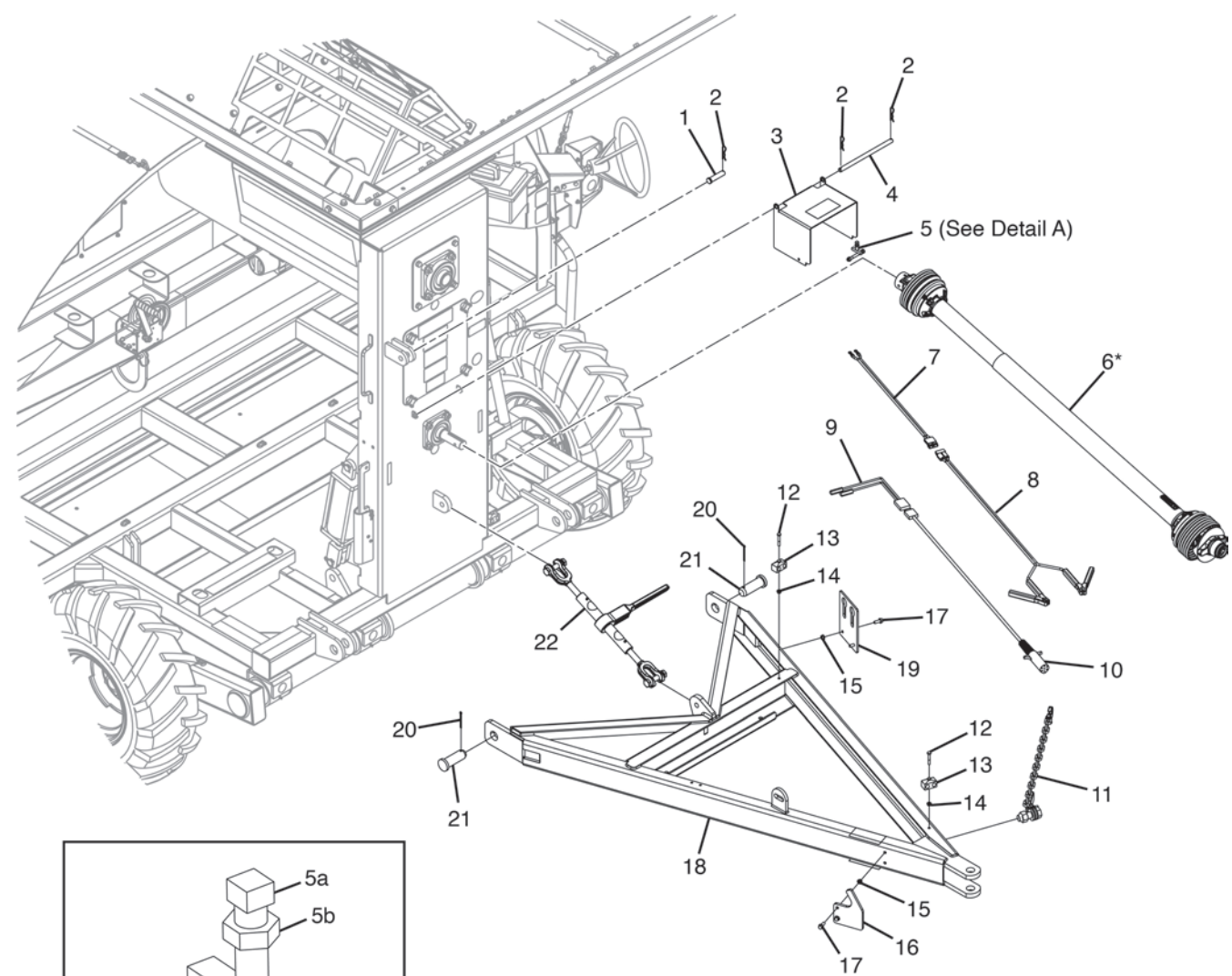


| #  | QTY. | PART # | DESCRIPTION                        |
|----|------|--------|------------------------------------|
| 1  | 1    | N22865 | CHAIN, #80 ROLLER 78 PITCH         |
| 2  | 1    | 4288   | NUT, 3/4" STANDARD                 |
| 3  | 1    | 4287   | WASHER, 3/4" LOCK                  |
| 4  | 2    | 4250   | NUT, STANDARD 1/2                  |
| 5  | 2    | 4155   | WASHER, LOCK 1/2"                  |
| 6  | 2    | 4486   | WASHER, 1/2" FLAT                  |
| 7  | 2    | 4038   | BOLT, CARRIAGE 1/2" X 1-1/4"       |
| 8  | 1    | N25272 | TIGHTENER, GBL CHAIN LONG          |
| 9  | 1    | 4061   | NUT, 3/8" JAM                      |
| 10 | 1    | 4478   | BOLT, 3/8" X 3" GR 5 FULL THRD     |
| 11 | 2    | 4505   | WASHER, 3/4" ID X 1-1/4" OD X 10GA |
| 12 | 1    | 8230   | SPROCKET, IDLER G1-80 CHAIN        |
| 13 | 1    | 4169   | BOLT, 3/4" X 4" BOLT GR 5          |
| 14 | 1    | 202163 | COVER, GBL FRT HOUSING W/DECALS    |
| 15 | 4    | N23873 | KNOB, 3/8" X 1-1/2" FOUR PRONG     |



# Parts Identification

## Hitch Assembly



Detail A

\* See page 58 for a complete part breakdown of item 6, 202746.

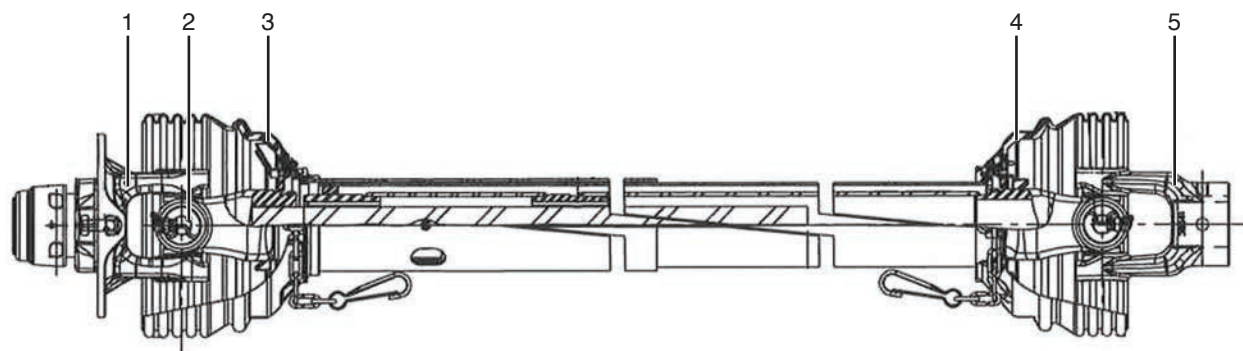
### Hitch Assembly

| #   | QTY. | PART #  | DESCRIPTION                        |
|-----|------|---------|------------------------------------|
| 1   | 1    | N23728  | PIN, 3/4" X 2-3/4" PLATED          |
| 2   | 3    | 4336    | CLIP, HAIRPIN 1/8" X 2-1/4"        |
| 3   | 1    | N68848  | SHIELD, GBL10CE PTO W/DECAL        |
| 4   | 1    | N22553  | PIN, GBU PTO SHIELD                |
| 5   | 1    | 201012  | GROUP, GBL/XLB PTO BOLT            |
| 5a* | 1    | 4082    | SCREW, SQ HEAD SET 3/8 X 1-1/4     |
| 5b* | 1    | 4061    | NUT, 3/8" JAM                      |
| 5c* | 1    | 7121-03 | KEY, 3/8" X 2"                     |
| 5d* | 1    | 4978    | BOLT, 3/8" X 3-1/4" GRADE 5        |
| 5e* | 1    | 4052    | NUT, LOCK 3/8                      |
| 6   | 1    | 202746  | PTO, 1-3/8-6 SPLINE 1-1/2 RB       |
| 7   | 1    | N30833  | CABLE, GBL10 6 GA WINCH IMP        |
| 8   | 1    | N30834  | CABLE, GBL10 6 GA WINCH TRCT       |
| 9   | 1    | N16288  | HARNESS, 25' REAR WISHBONE         |
| 10  | 1    | N22784  | HARNESS, GBU 4' BRAIDED TOUNGE     |
| 11  | 1    | N24248  | CHAIN, SAFETY W/MOUNT HARDWARE     |
| 12  | 2    | 4227    | BOLT, 5/16" X 2" GRADE 5           |
| 13  | 2    | N21365  | CLAMP, 3/8" DOUBLE HOSE            |
| 14  | 2    | N26742  | NUT, LOCK 5/16" SER FLG            |
| 15  | 4    | 4979    | NUT, LOCK 3/8" SER FLG             |
| 16  | 1    | N30863  | HOLDER, GBL10 PTO END              |
| 17  | 4    | N26743  | BOLT, 3/8" X 1" SER FLG            |
| 18  | 1    | 202140  | HITCH, XLB WITH DECALS             |
| 19  | 1    | N37365  | HOLDER, GBL10 HYD HOSE             |
| 20  | 2    | 4329    | PIN, COTTER 7/32" X 2-1/2"         |
| 21  | 2    | N29197  | PIN, 1-1/2" X 3-1/5" TAPERED HITCH |
| 22  | 1    | 202145  | TURNBUCKLE, RATCHET 18.5-28.5      |

\* To order a complete PTO Bolt Group, use part number 201012.

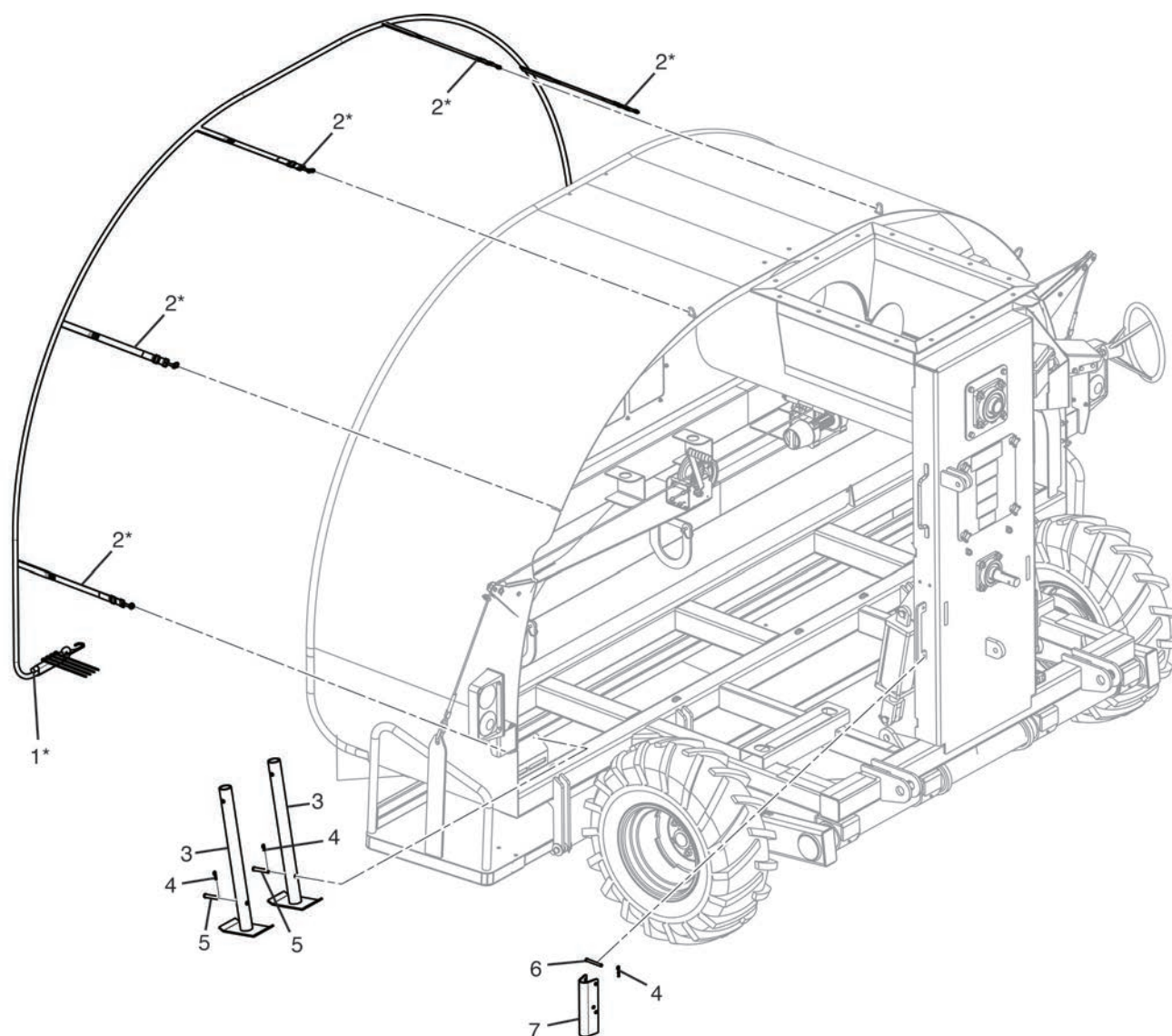
# Parts Identification

## 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           |

## GBL10 Gen 2 Base Assembly



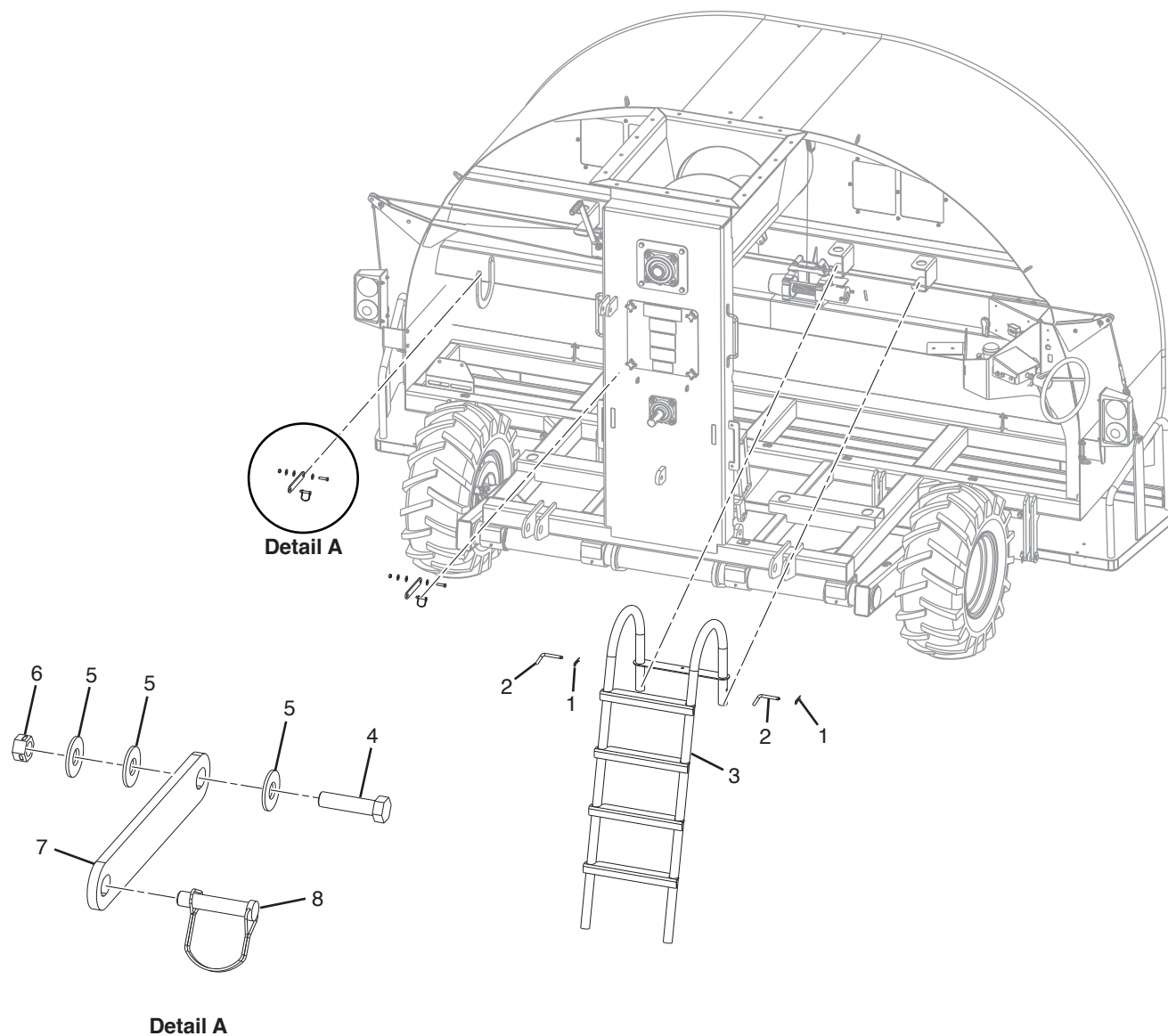
\* To order a complete bungy kit, which includes item 1 - N23879, and item 2 (6x) - 202148, use part number N30998.

| # | QTY. | PART # | DESCRIPTION                     |
|---|------|--------|---------------------------------|
| 1 | 1    | N23879 | CORD, GBL BUNGY WITH HOOKS      |
| 2 | 6    | 202148 | STRAP, 1" W/SWIVEL SNAP & SLIDE |
| 3 | 2    | N23963 | STAND, GBL BACK JACK            |
| 4 | 4    | 4089   | CLIP, HAIRPIN .093 X 1-5/8"     |
| 5 | 2    | 4088   | PIN, DEFLECTOR 1/2" X 3" TOP    |
| 6 | 2    | 4093   | PIN, 3/8" X 3" (2.75" USEABLE)  |
| 7 | 2    | N19768 | STOP, CYLINDER 9.5" SAFETY      |



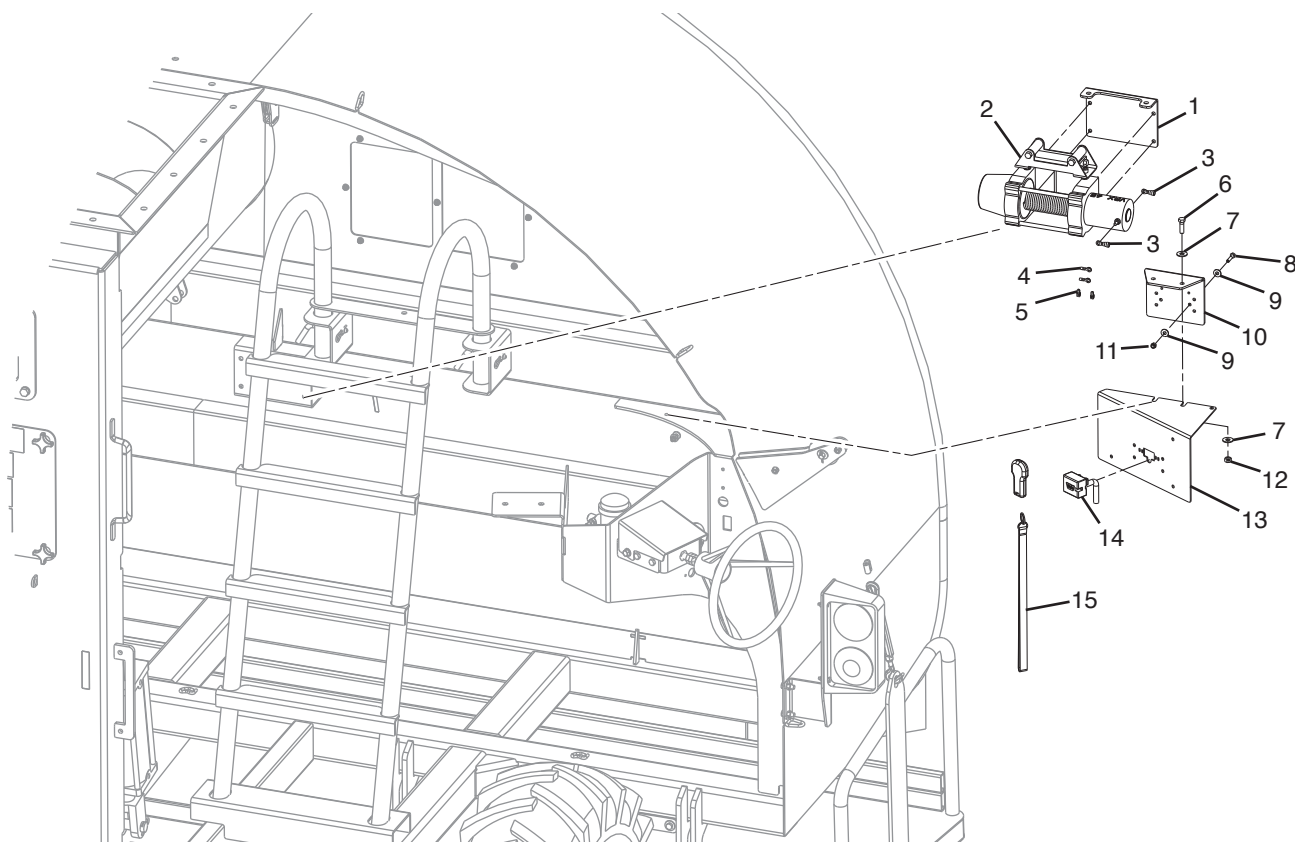
# Parts Identification

## Ladder Assembly



| # | QTY. | PART # | DESCRIPTION                   |
|---|------|--------|-------------------------------|
| 1 | 2    | 4336   | CLIP, HAIRPIN 1/8" X 2-1/4"   |
| 2 | 2    | N30804 | PIN, 1/2" X 3" BENT HITCH     |
| 3 | 1    | N30880 | LADDER, GBL PIPE FRAME        |
| 4 | 2    | 4006   | BOLT, 3/8" X 1-1/2" GRADE 5   |
| 5 | 6    | 4064   | WASHER, FLAT 3/8"             |
| 6 | 2    | 4052   | NUT, LOCK 3/8"                |
| 7 | 2    | N27990 | BAR, GBL SWING AUG PTO HOLDER |
| 8 | 2    | N27991 | PIN, 3/8" X 1-3/8" RETAINER   |

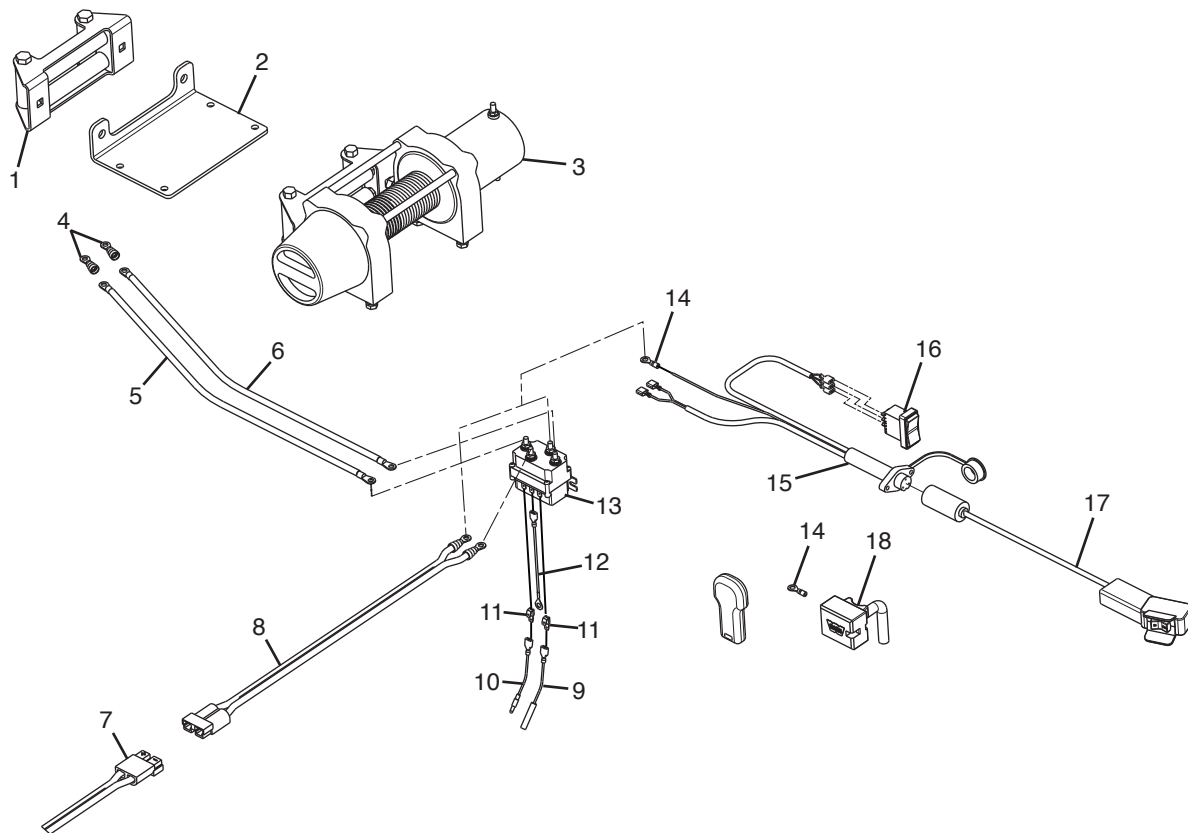
## Winch Assembly



| #  | QTY. | PART # | DESCRIPTION                   |
|----|------|--------|-------------------------------|
| 1  | 1    | N30172 | MOUNT, WARN RT40 FAIRLEAD     |
| 2  | 1    | 201933 | WINCH, WARN VRX 45            |
| 3  | 2    | N30835 | TERMINAL, 6 GA 1/4" RING INS  |
| 4  | 2    | N26656 | TERMINAL, 1/4" RING 16/14 AWG |
| 5  | 2    | N33577 | SPLITTER, FEM TO DBL ML SPADE |
| 6  | 2    | 4005   | BOLT, 3/8" X 1-1/4" GRADE 5   |
| 7  | 4    | 4064   | WASHER, FLAT 3/8"             |
| 8  | 2    | N19337 | BOLT, 1/4" X 1-1/4" GRADE 8   |
| 9  | 4    | 3183   | WASHER, FLAT 1/4"             |
| 10 | 1    | N30806 | BRACKET, GBL10 WINCH RELAY    |
| 11 | 2    | 4996   | NUT, LOCK 1/4" NYLOCK         |
| 12 | 2    | 4052   | NUT, LOCK 3/8"                |
| 13 | 1    | N33117 | COVER, GBL10 WINCH WIRING     |
| 14 | 1    | N37340 | REMOTE, WARN WIRELESS GEN 2   |
| 15 | 1    | N33024 | LANYARD, LOFTNESS KEYCHAIN    |

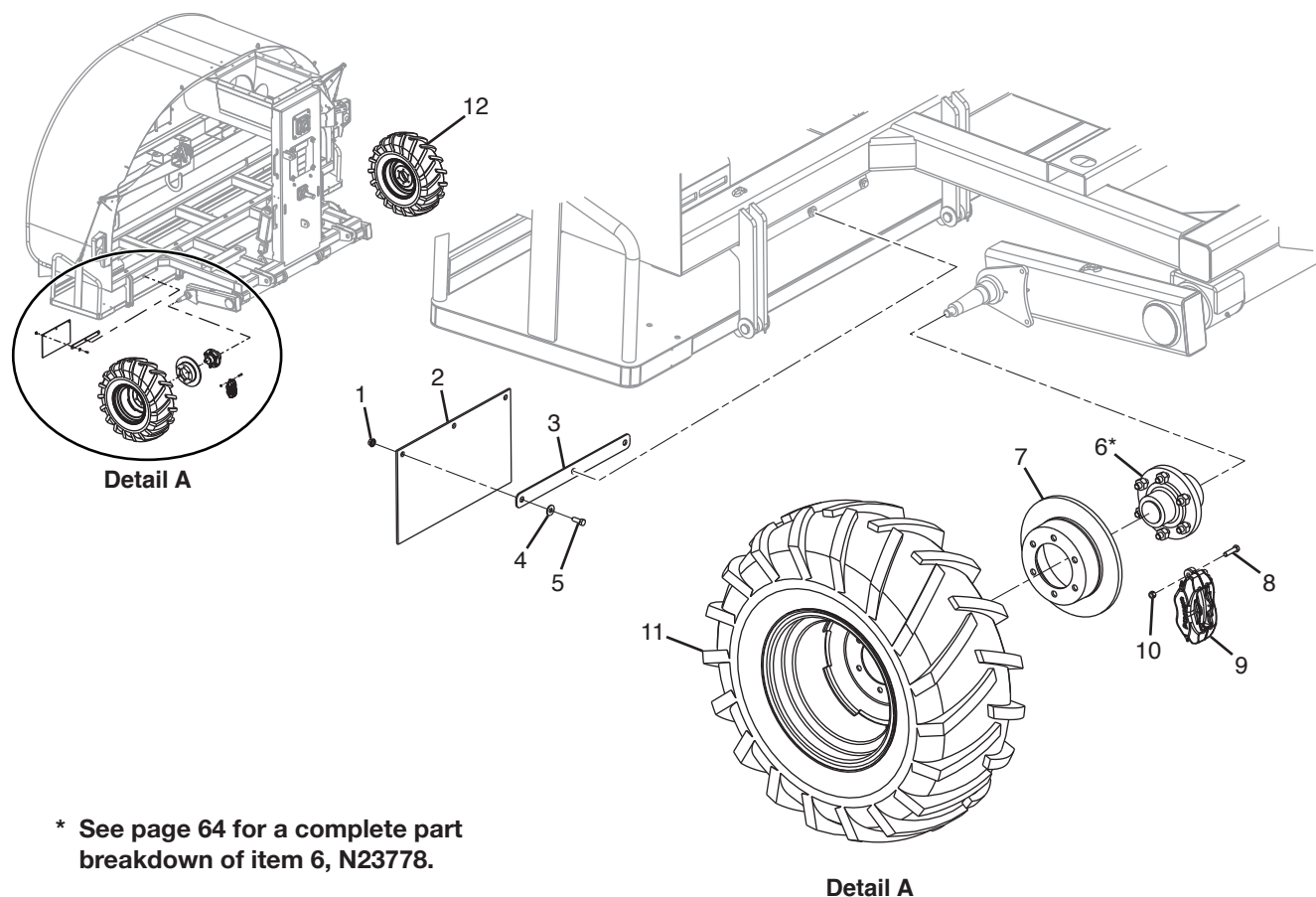
## Parts Identification

### GBL10 RT Wiring Schematic



| #  | 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    | N30835 | TERMINAL, 6 GA 1/4" RING INS    |
| 5  | 1    | 201940 | WIRE, WARN VRX 45 RED 8'        |
| 6  | 1    | 201939 | WIRE, WARN VRX 45 BLACK 8'      |
| 7  | 1    | N30834 | CABLE, GBL10 6 GA WINCH TRCT    |
| 8  | 1    | N30833 | CABLE, GBL10 6 GA WINCH IMP     |
| 9  | 1    | N30862 | WIRE, WARN RT40 SOL BLACK       |
| 10 | 1    | N30855 | WIRE, WARN RT40 SOL GREEN       |
| 11 | 2    | N33577 | SPLITTER, FEM TO DBL ML SPADE   |
| 12 | 1    | 201938 | WIRE, WARN VRX 45 SOL BROWN     |
| 13 | 1    | 201934 | SOLENOID, WARN VRX45            |
| 14 | 2    | N26656 | TERMINAL, 1/4" RING 16/14 AWG   |
| 15 | 1    | 201936 | HARNESS, WARN REMOTE AND SWITCH |
| 16 | 1    | 201937 | SWITCH, WARN VRX 45 ROCKER      |
| 17 | 1    | N30853 | REMOTE, WARN RT40 WIRED         |
| 18 | 1    | N37340 | REMOTE, WARN WIRELESS GEN 2     |

## Wheel Assembly



\* See page 64 for a complete part breakdown of item 6, N23778.

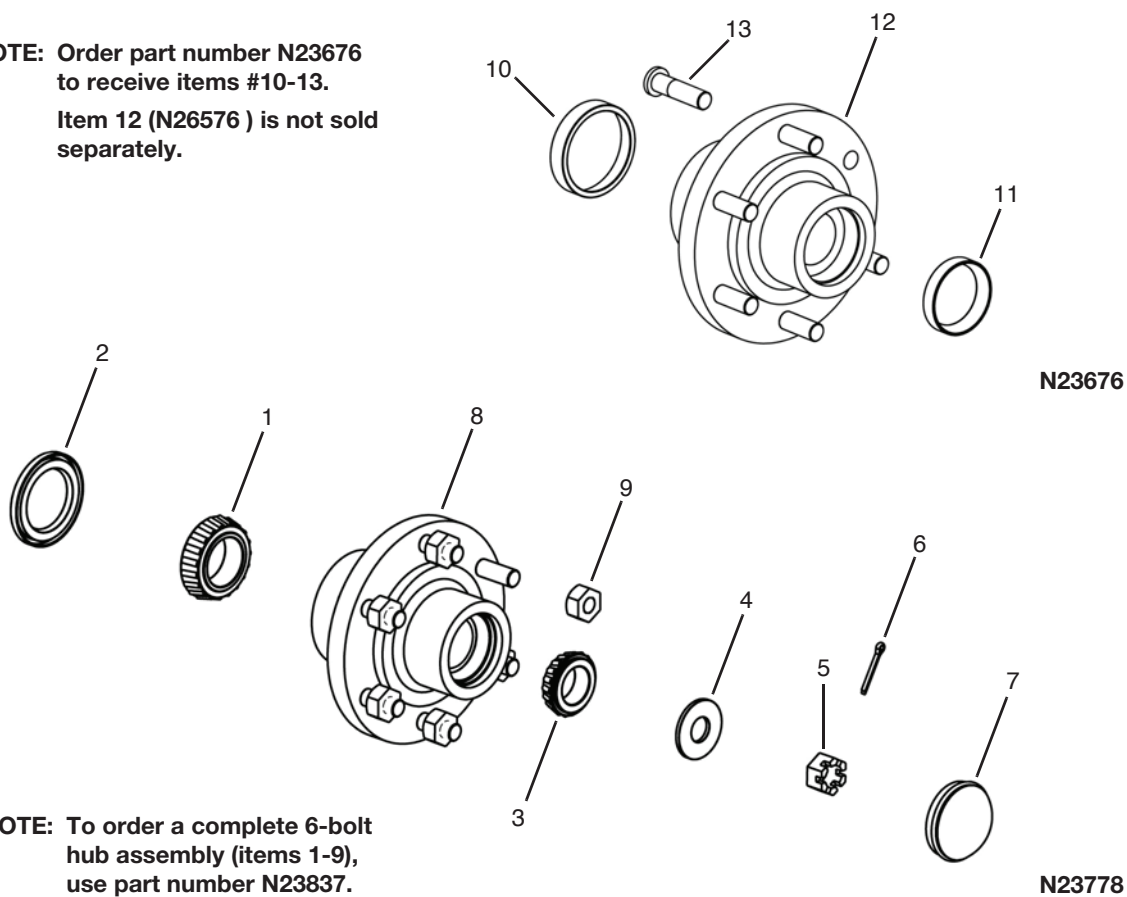
| #         | QTY.  | PART # | DESCRIPTION                    |
|-----------|-------|--------|--------------------------------|
| 1         | 6     | 4979   | NUT, LOCK 3/8" SER FLG         |
| 2         | 2     | N23839 | FLAP, GBL RUBBER MUD           |
| 3         | 2     | N23840 | STRIP, GBL MUD FLAP BACKING    |
| 4         | 6     | 4064   | WASHER, FLAT 3/8"              |
| 5         | 6     | 4195   | BOLT, 3/8" X 1" GRADE 5        |
| 6         | 2     | N23778 | HUB, SIX BOLT (COMPLETE)       |
| 7         | 2     | N27108 | ROTOR, GBL BRAKE CAST          |
| 8         | 4     | 4006   | BOLT, 3/8" X 1-1/2" GRADE 5    |
| 9         | 2     | N22794 | CALIPER, WILLWOOD BRAKE        |
| 10        | 4     | 4052   | NUT, LOCK 3/8"                 |
| 11        | 1     | N22849 | WHEEL, 12.5L-15 SURE GRIP RGHT |
|           | 2     | N22396 | RIM, 10" OFFSET GBL            |
|           | 2     | N25114 | TIRE, 12.5L - 15 SURE GRIP     |
| 12        | 1     | N22851 | WHEEL, 12.5L-15 SURE GRIP LEFT |
| Not Shown | 1 Set | N23995 | BRAKE PADS                     |



## Parts Identification

### 6-Bolt Hub

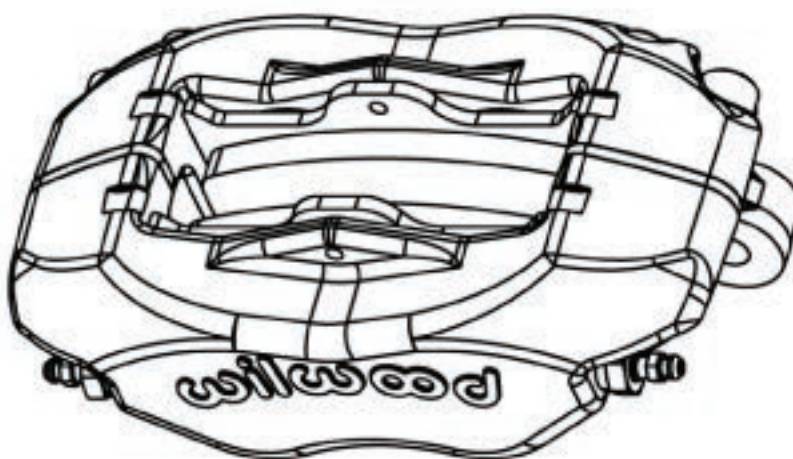
**NOTE:** Order part number N23676 to receive items #10-13.  
Item 12 (N26576 ) is not sold separately.



**NOTE:** To order a complete 6-bolt hub assembly (items 1-9), use part number N23837.

| #  | 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                  |

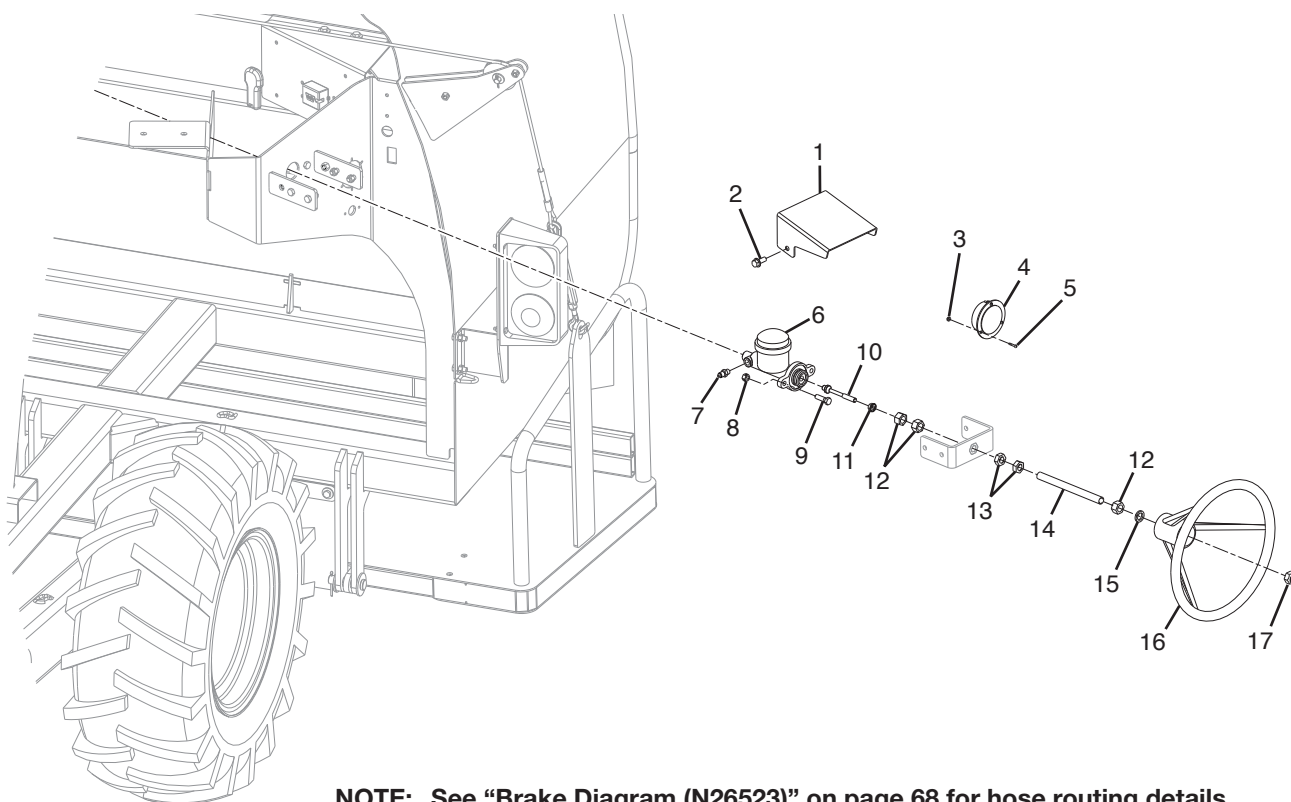
### Brake Caliper (N22794)



| 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        |

## Parts Identification

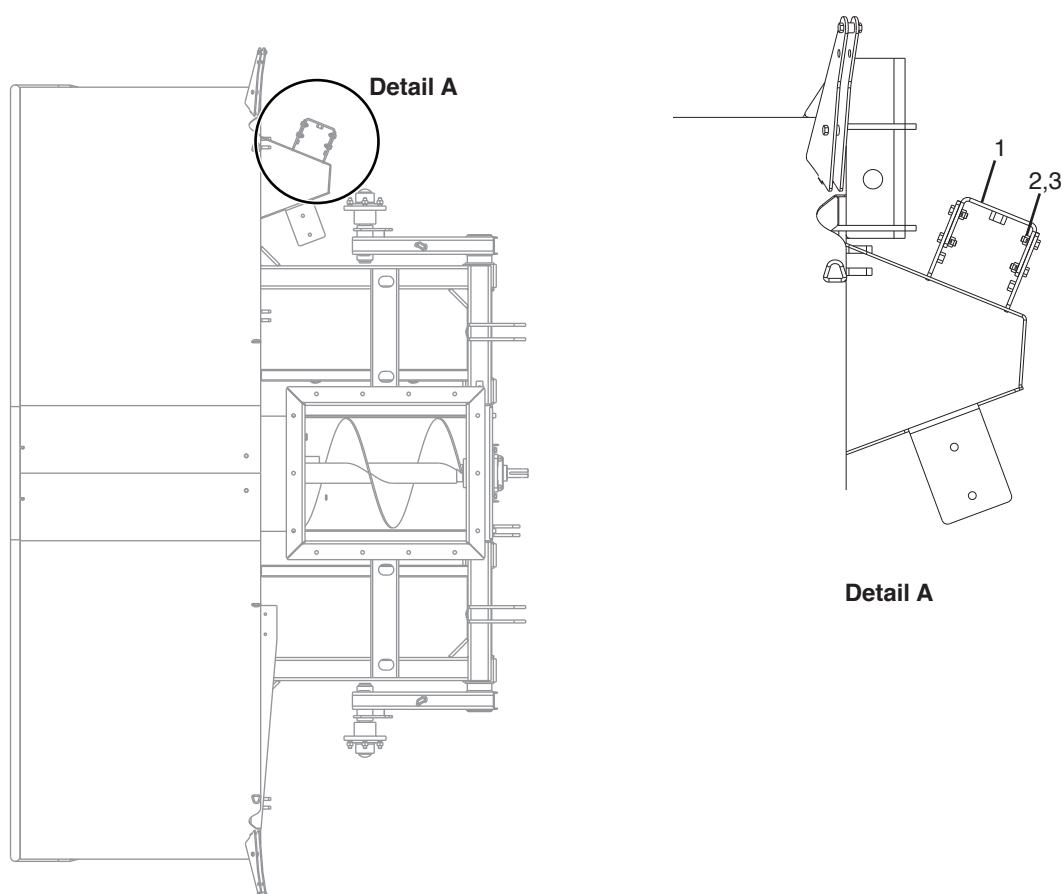
### Brake Control Assembly



**NOTE:** See "Brake Diagram (N26523)" on page 68 for hose routing details.

| #  | QTY. | PART # | DESCRIPTION                  |
|----|------|--------|------------------------------|
| 1  | 1    | N23949 | COVER, GBL BRAKE WHEEL       |
| 2  | 4    | 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  | 1    | N33231 | CYLINDER, CARDONE MODIFIED   |
| 7  | 1    | N25182 | ADAPTER, 4MJIC - 4 INV FLARE |
| 8  | 6    | 4052   | NUT, LOCK 3/8"               |
| 9  | 4    | 4005   | BOLT, 3/8" X 1-1/4" GRADE 5  |
| 10 | 1    | N25813 | ROD, CARD 2-PC CON           |
| 11 | 1    | 4979   | NUT, LOCK 3/8" SER FLG       |
| 12 | 3    | 4438   | NUT, 5/8" STANDARD GRADE 8   |
| 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 | 9    | 4055   | NUT, LOCK 5/8" TOP           |

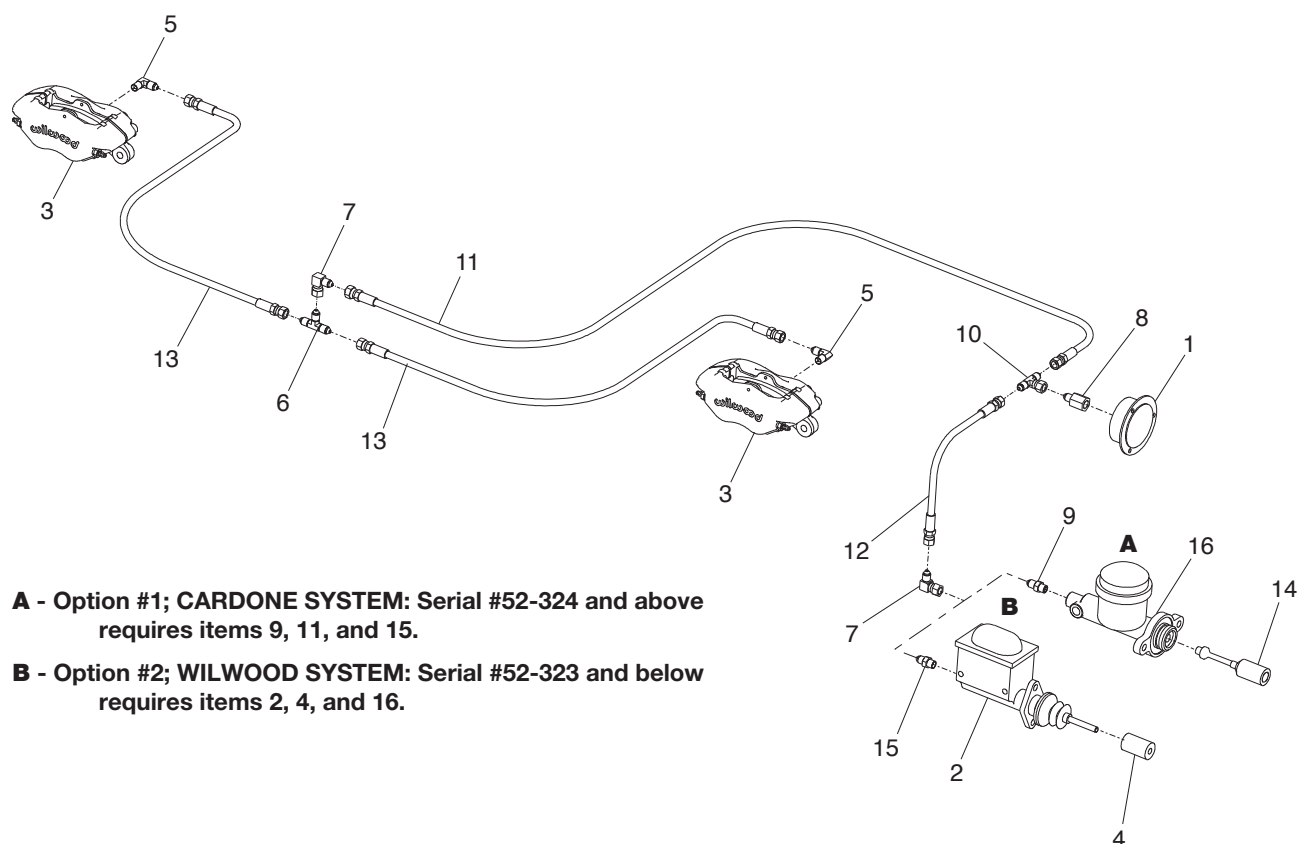
## Braking Wheel Mount



| # | QTY. | PART # | DESCRIPTION                  |
|---|------|--------|------------------------------|
| 1 | 1    | 206380 | MOUNT, GBL BRAKING WHEEL UNC |
| 2 | 4    | 4195   | BOLT, 3/8" x 1" GRADE 5      |
| 3 | 4    | 4052   | NUT, LOCK 3/8"               |

## Parts Identification

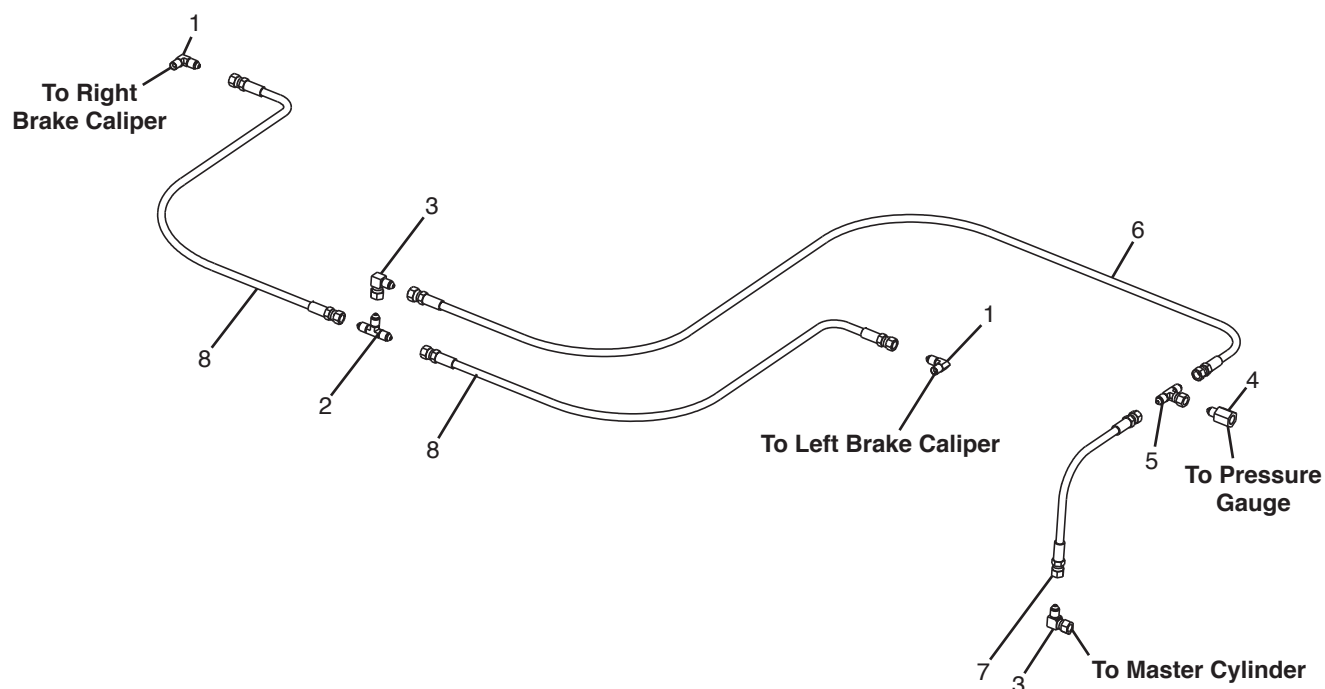
### Brake Diagram (N26523)



| #         | QTY. | PART # | DESCRIPTION                       |
|-----------|------|--------|-----------------------------------|
| 1         | 1    | N22377 | GAUGE, 2000 PSI HYD PRESSURE      |
| 2         | 1    | N22793 | MASTER CYLINDER, WILWOOD          |
| 3         | 2    | N22794 | CALIPER, WILWOOD BRAKE            |
| 4         | 1    | N23916 | CONNECTOR, GBL BRAKE WHEEL        |
| 5         | 2    | N23939 | ELBOW, 90 DEG - 4MJIC - 2NPT      |
| 6         | 1    | N23940 | TEE, 4MJIC - 4MJIC - 4MJIC        |
| 7         | 2    | N25125 | ELBOW, 90 DEG - 4MJIC - 4MJIC     |
| 8         | 1    | N25126 | ADAPTER, 4MJIC - 4FP              |
| 9         | 1    | N25182 | ADAPTER, 4MJIC - 4 INV FLARE      |
| 10        | 1    | N25186 | TEE, 4MJIC - 4MJIC - 4FJIC BRANCH |
| 11        | 1    | N25219 | HOSE, 1/8" BRAKE 123" - 4FJX      |
| 12        | 1    | N25220 | HOSE, 1/8" BRAKE 15" - 4FJX       |
| 13        | 2    | N25221 | HOSE, 1/8" BRAKE 53" - 4FJX       |
| 14        | 1    | N25811 | CONNECTOR, CARDONE TWO PIECE      |
| 15        | 1    | N25837 | ADAPTER, 4MJIC - 2NPT             |
| 16        | 1    | N33231 | CYLINDER, MASTER BRAKE CARDONE    |
| NOT SHOWN |      | N23995 | BRAKE PADS                        |



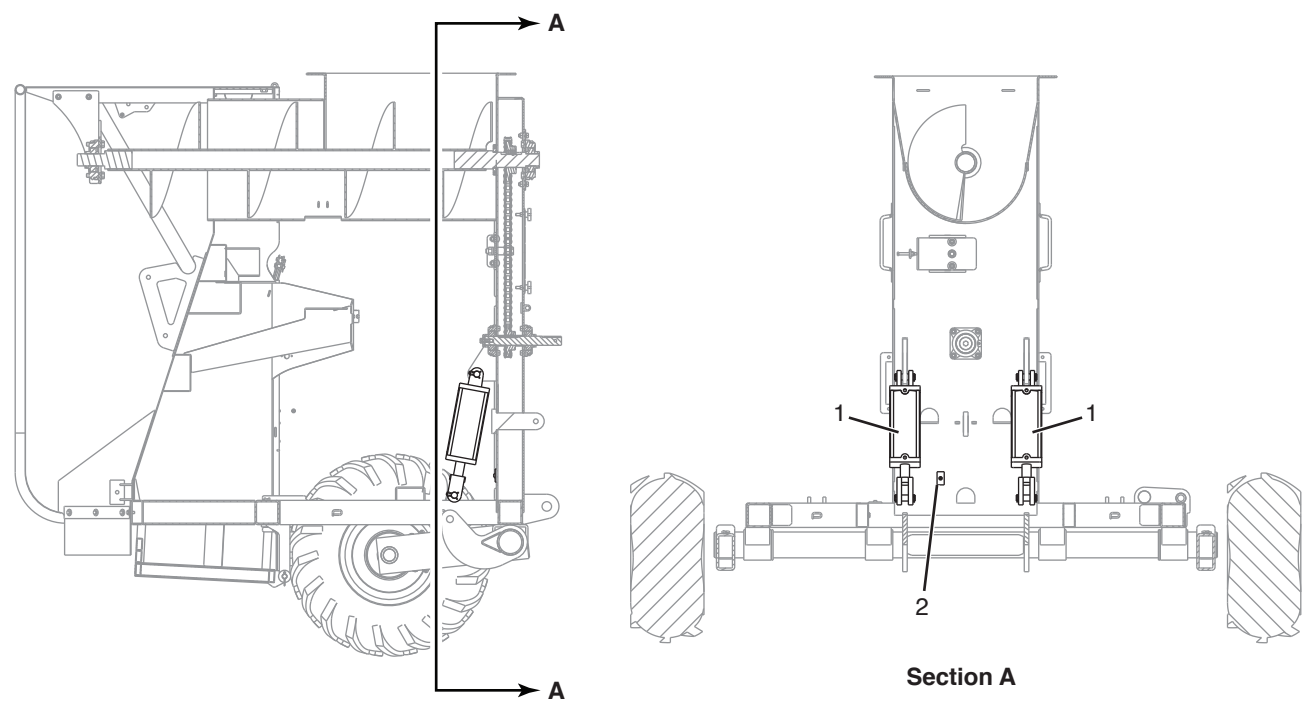
## Brake Hose Kit (N25264)



| # | QTY. | PART # | DESCRIPTION                       |
|---|------|--------|-----------------------------------|
| 1 | 2    | N23939 | ELBOW, 90 DEG - 4MJIC - 2NPT      |
| 2 | 1    | N23940 | TEE, 4MJIC - 4MJIC - 4MJIC        |
| 3 | 2    | N25125 | ELBOW, 90 DEG - 4MJIC - 4MJIC     |
| 4 | 1    | N25126 | ADAPTER, 4MJIC - 4FP              |
| 5 | 1    | N25186 | TEE, 4MJIC - 4MJIC - 4FJIC BRANCH |
| 6 | 1    | N25219 | HOSE, 1/8" BRAKE 123" - 4FJX      |
| 7 | 1    | N25220 | HOSE, 1/8" BRAKE 15" - 4FJX       |
| 8 | 2    | N25221 | HOSE, 1/8" BRAKE 53" - 4FJX       |

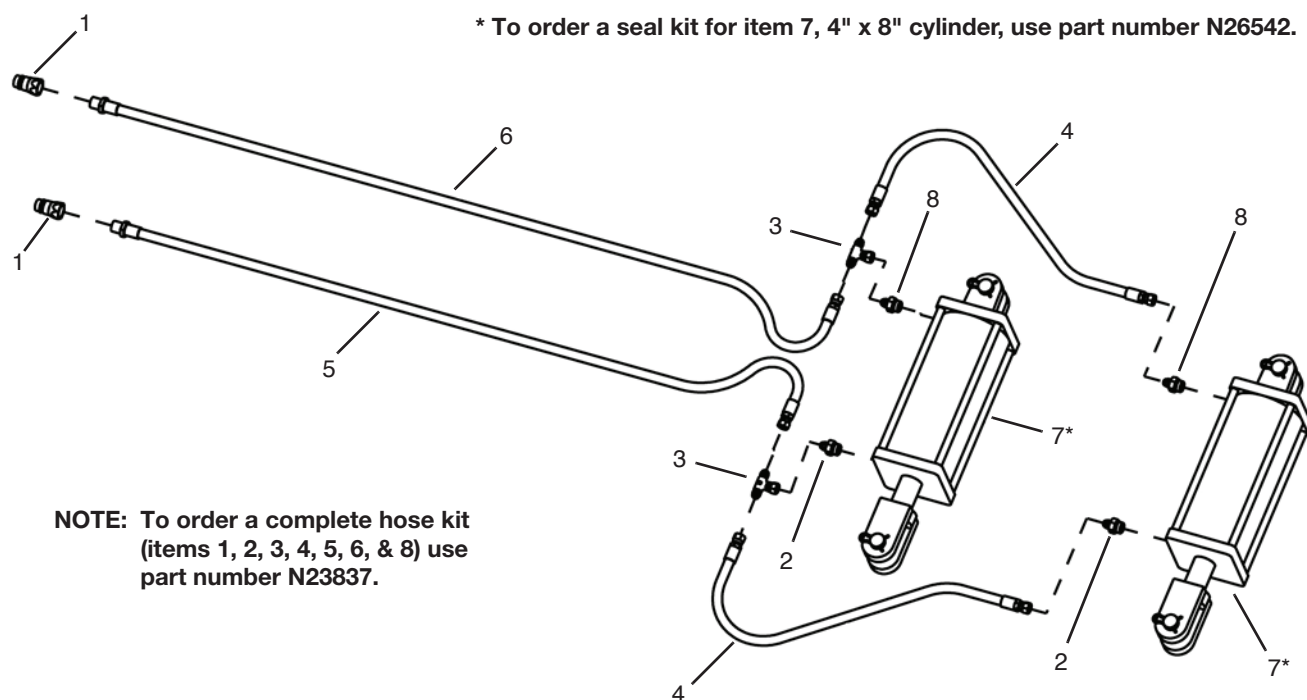
# Parts Identification

## Hydraulic Cylinder



| #         | QTY. | PART # | DESCRIPTION                      |
|-----------|------|--------|----------------------------------|
| 1         | 2    | N25166 | CYLINDER, HYD 4" x 8" - 3000 PSI |
|           | 1    | N26542 | SEAL KIT, CYLINDER               |
| 2         | 1    | N21365 | CLAMP, 3/8" DOUBLE HOSE          |
| Not Shown | 1    | N23837 | KIT, GBL, HOSE CYLINDER          |

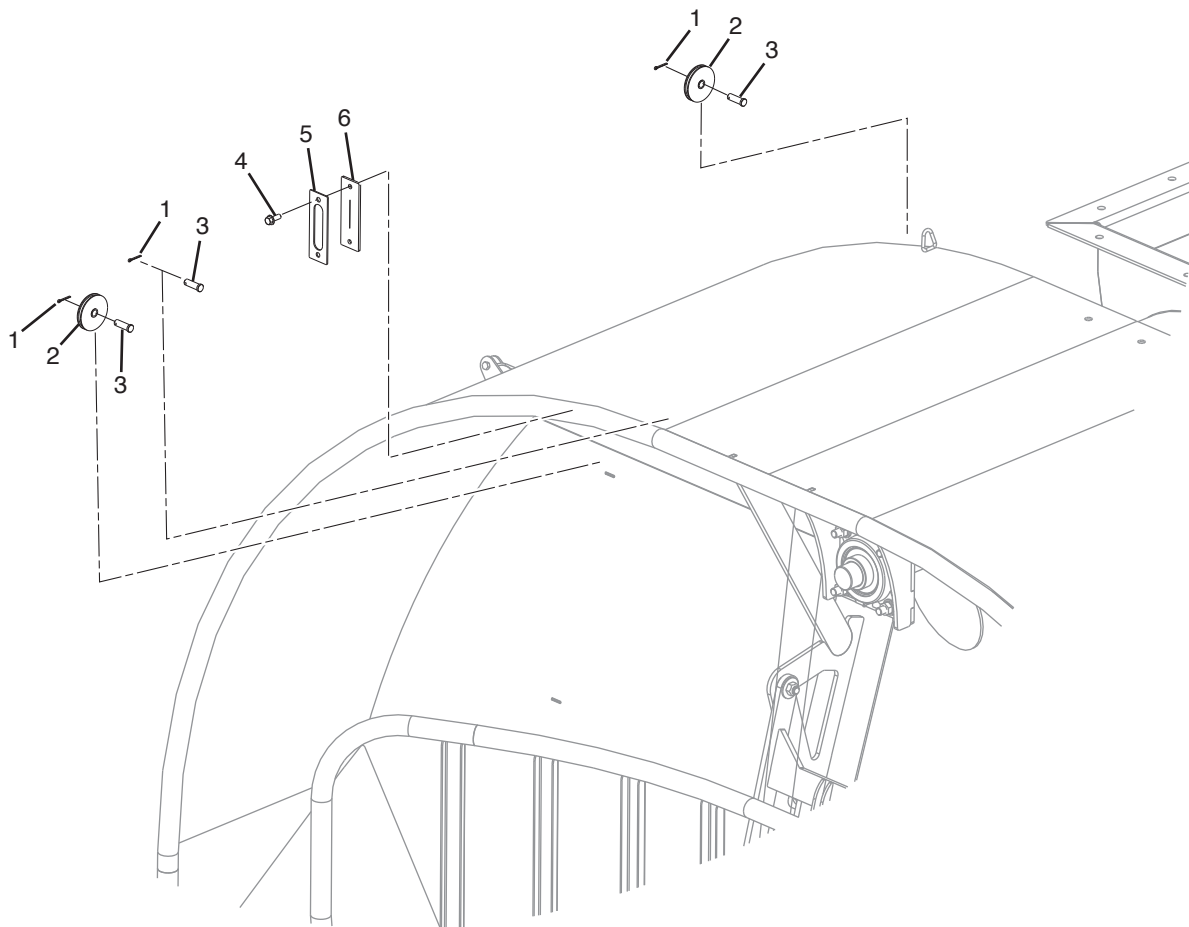
## Hydraulic Diagram (N26524)



| # | QTY. | PART # | DESCRIPTION                      |
|---|------|--------|----------------------------------|
| 1 | 2    | N11825 | COUPLER, 1/2" MALE PIONEER       |
| 2 | 2    | N17022 | ADAPTER, 6MJIC - 8MOR            |
| 3 | 2    | N23832 | TEE, 6MJIC - 6MJIC - 6FJX SWIVEL |
| 4 | 2    | N23834 | HOSE, 3/8" x 28" - 6FJX - 6FJX   |
| 5 | 1    | N23835 | HOSE, 3/8" HYD 156" - 6FJX - 8MP |
| 6 | 1    | N23836 | HOSE, 3/8" HYD 168" - 6FJX - 8MP |
| 7 | 2    | N25166 | CYLINDER, HYD 4" x 8" - 3000 PSI |
| 8 | 2    | N25421 | RESTRICTOR, 6MJIC - 8MOR - 0.062 |

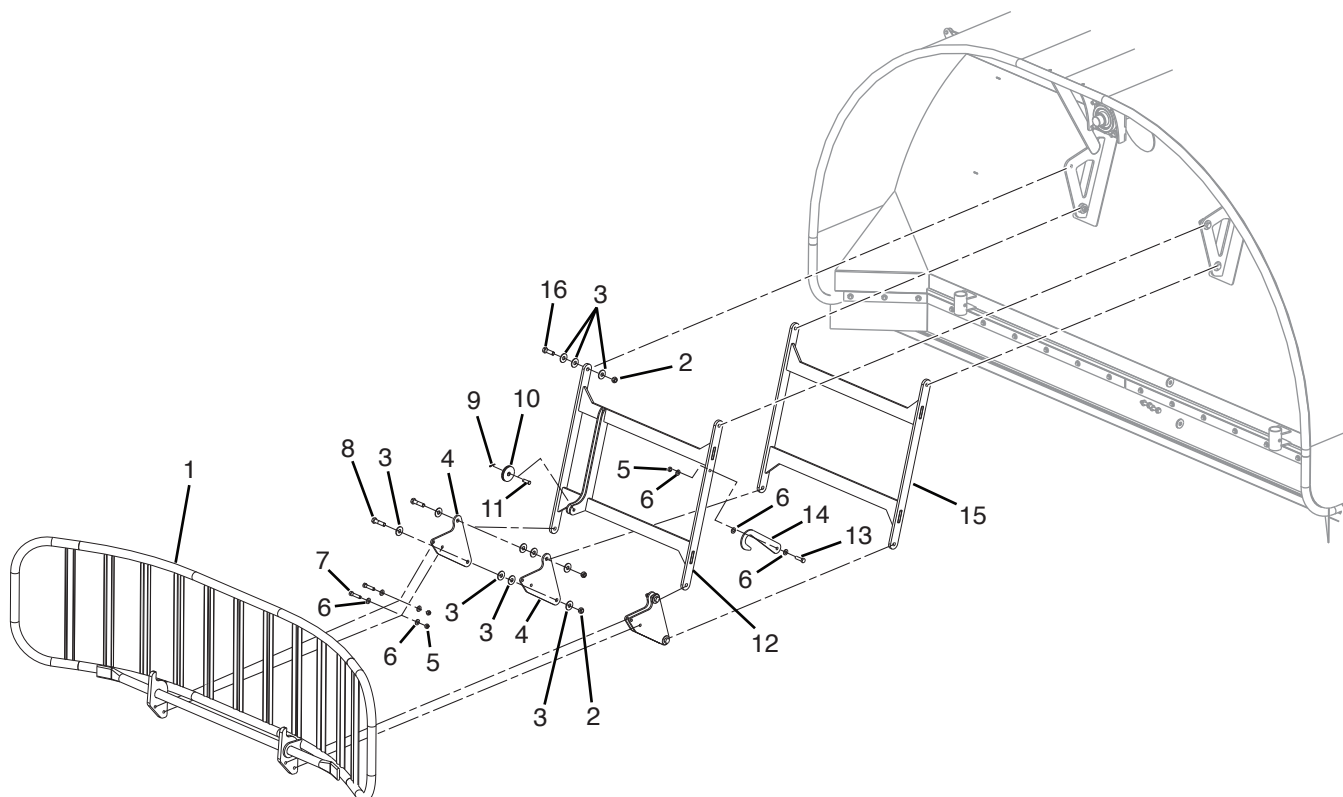
## Parts Identification

### Cradle Assembly



| # | QTY. | PART # | DESCRIPTION                    |
|---|------|--------|--------------------------------|
| 1 | 4    | 4098   | PIN, COTTER 1/8" X 1-1/2"      |
| 2 | 2    | N22913 | PULLEY, 3/16" CABLE 2-1/2" DIA |
| 3 | 2    | 4392   | PIN, 1/2" X 1-1/4"             |
| 4 | 2    | N26743 | BOLT, 3/8" X 1" SER FLG        |
| 5 | 1    | N30137 | COVER, GBL CABLE RBR FLAP      |
| 6 | 1    | N23913 | FILLER, GBL WINCH RUBBER       |

## Cradle Assembly (Cont'd)

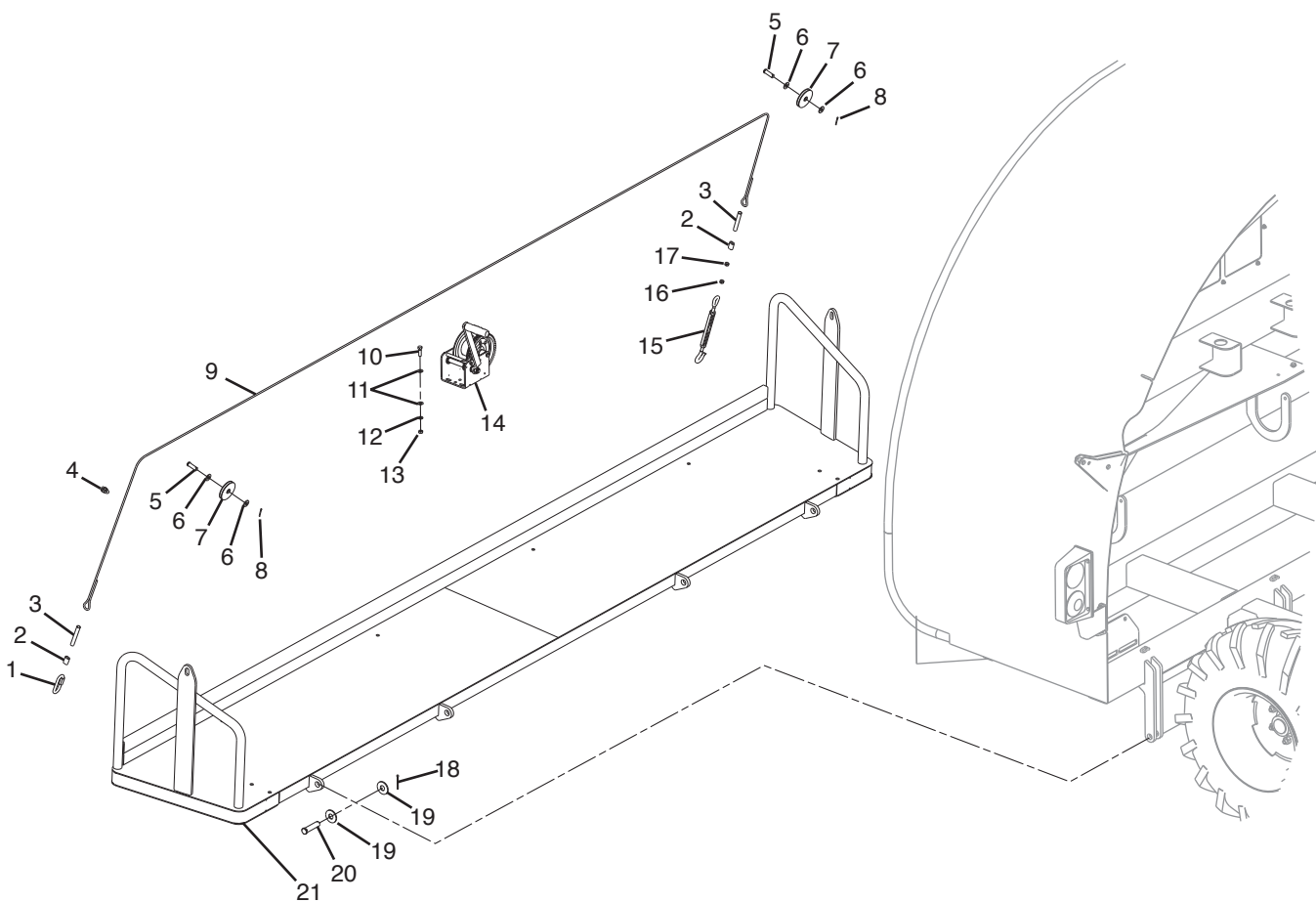


| #  | QTY. | PART # | DESCRIPTION                    |
|----|------|--------|--------------------------------|
| 1  | 1    | N30778 | CRADLE, GBL10 GEN 2            |
| 2  | 8    | 4055   | NUT, LOCK 5/8" TOP             |
| 3  | 28   | 4069   | WASHER, FLAT 5/8"              |
| 4  | 4    | N22903 | BRACKET, GBL CRADLE PARALLEL   |
| 5  | 5    | 4054   | NUT, LOCK 1/2" TOP             |
| 6  | 11   | 4068   | WASHER, 1/2" SAE FLAT          |
| 7  | 4    | N30387 | BOLT, 1/2" X 2-1/4" GRADE 5    |
| 8  | 4    | 4023   | BOLT, 5/8" X 2-1/2" GRADE 5    |
| 9  | 1    | 4098   | PIN, COTTER 1/8" X 1-1/2"      |
| 10 | 1    | N22913 | PULLEY, 3/16" CABLE 2-1/2" DIA |
| 11 | 4    | 4392   | PIN, 1/2" X 1-1/4"             |
| 12 | 1    | N26908 | LINK, GBL CRADLE TOP           |
| 13 | 1    | 4014   | BOLT, 1/2" X 1-3/4" GRADE 5    |
| 14 | 1    | N22948 | HOOK, GBL CRADLE STORAGE       |
| 15 | 1    | N26903 | LINK, GBL CRADLE BOTTOM        |
| 16 | 4    | 4022   | BOLT, 5/8" X 2" GRADE 5        |



# Parts Identification

## Bag Pan Winch Assembly

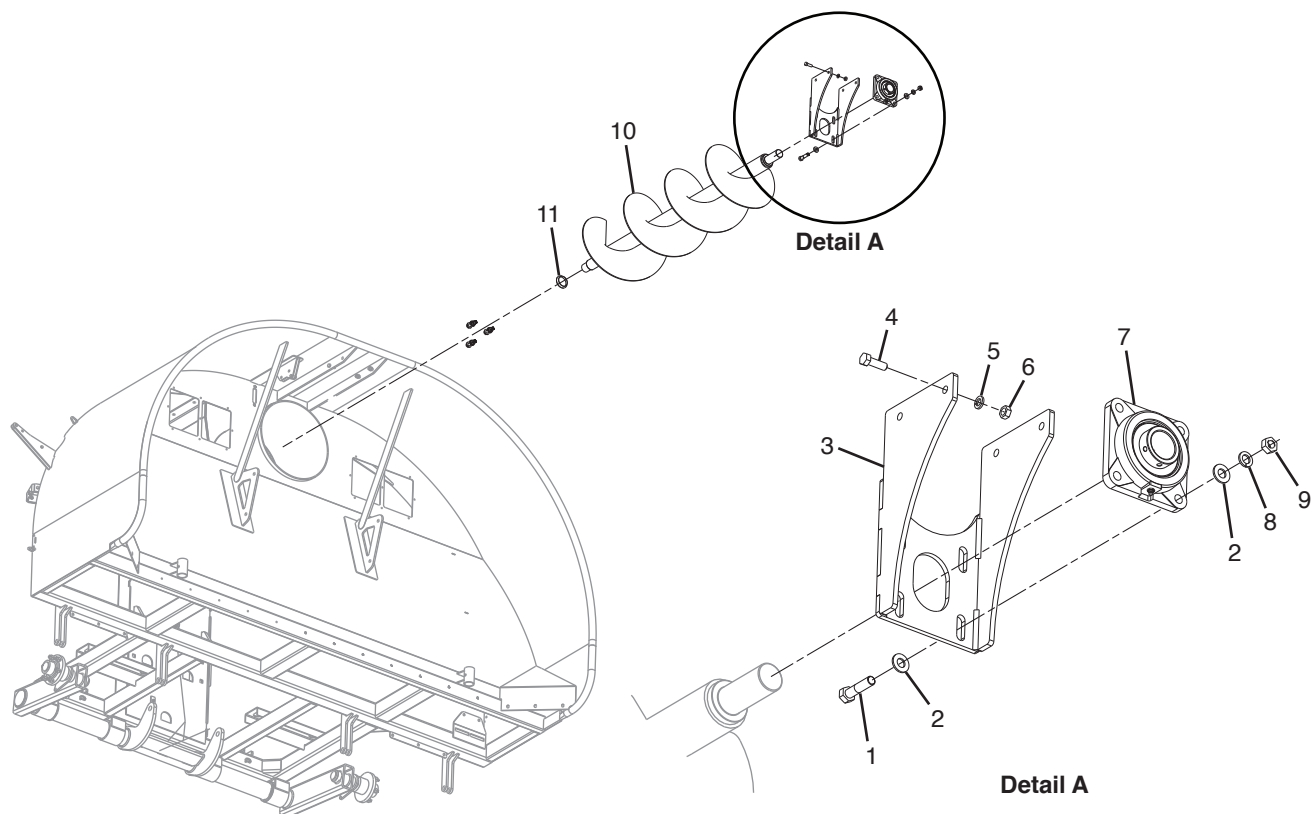


### Bag Pan Winch Assembly

| #  | QTY. | PART # | DESCRIPTION                      |
|----|------|--------|----------------------------------|
| 1  | 1    | N10177 | LINK, 3/8" CHAIN CONNECTOR       |
| 2  | 2    | N29079 | FERRULE, 1/4IN CABLE DOUBLE      |
| 3  | 2    | N33747 | TUBING, 1/2" SHRINK CUT TO 3.50" |
| 4  | 1    | N25265 | CLAMP, WIRE CABLE 3/16"          |
| 5  | 2    | 4392   | PIN, 1/2" X 1-1/4"               |
| 6  | 4    | 4068   | WASHER, 1/2" SAE FLAT            |
| 7  | 2    | N22913 | PULLEY, 3/16" CABLE 2-1/2" DIA   |
| 8  | 2    | 4098   | PIN, COTTER 1/8" X 1-1/2"        |
| 9  | 1    | N37400 | CABLE, GBL10 BAG 23' PAN 1 PC    |
| 10 | 2    | 4005   | BOLT, 3/8" X 1-1/4" GRADE 5      |
| 11 | 4    | N31741 | WASHER, FLAT 3/8" SAE            |
| 12 | 2    | 4065   | WASHER, 3/8 LOCK                 |
| 13 | 2    | 4233   | NUT, STANDARD 3/8"               |
| 14 | 1    | 201805 | WINCH, CABLE 1800# DL            |
| 15 | 1    | N22914 | TURNBUCKLE, HOOK AND EYE 3/8     |
| 16 | 1    | N23763 | NUT, JAM 3/8"LEFT HANDED THD     |
| 17 | 1    | 4061   | NUT, 3/8" JAM                    |
| 18 | 4    | 4092   | PIN COTTER 5/32" X 2"            |
| 19 | 8    | 4071   | WASHER, 3/4" FLAT                |
| 20 | 4    | N23728 | PIN, 3/4" X 2-3/4" PLATED        |
| 21 | 1    | N30764 | PAN, GBL10 GEN 2                 |

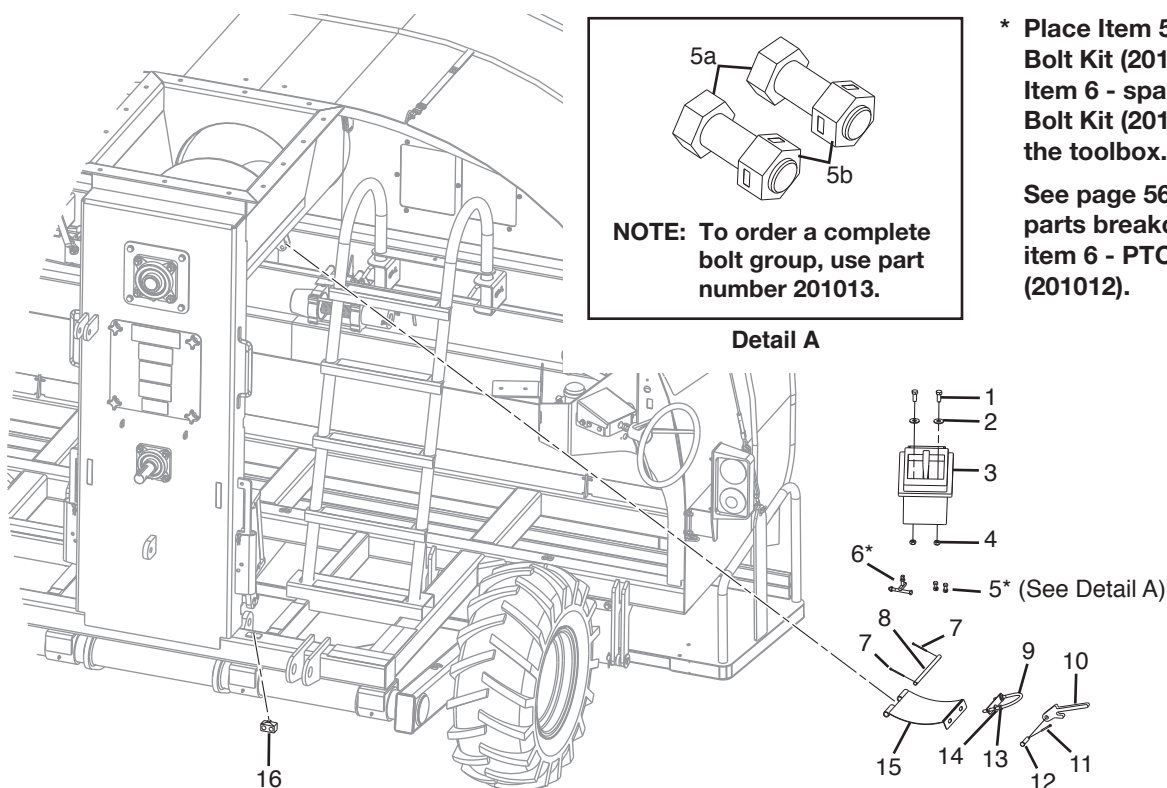
## Parts Identification

### Discharge Auger Assembly



| #  | QTY. | PART # | DESCRIPTION                   |
|----|------|--------|-------------------------------|
| 1  | 4    | 4023   | BOLT, 5/8" X 2-1/2" GRADE 5   |
| 2  | 8    | 4997   | WASHER, FLAT 5/8" SAE         |
| 3  | 1    | N23705 | MOUNT, GBL INNER AUGER BRG    |
| 4  | 4    | 4013   | BOLT, 1/2" X 1-1/2" GRADE 5   |
| 5  | 4    | 4155   | WASHER, LOCK 1/2"             |
| 6  | 4    | 4250   | NUT, STANDARD 1/2             |
| 7  | 1    | N30235 | BEARING, 2" DODGE 4-BLT FLG   |
| 8  | 4    | 4070   | WASHER, LOCK 5/8"             |
| 9  | 4    | 4058   | NUT, STANDARD 5/8"            |
| 10 | 1    | N30761 | AUGER, GBL10 20" AUG W/SHAFTS |
| 11 | 1    | N23707 | SEAL, 2-1/2" SHAFT RUBBER     |

## Miscellaneous Components



\* Place Item 5 - Shear Bolt Kit (201013), and Item 6 - spare PTO Bolt Kit (201012) in the toolbox.

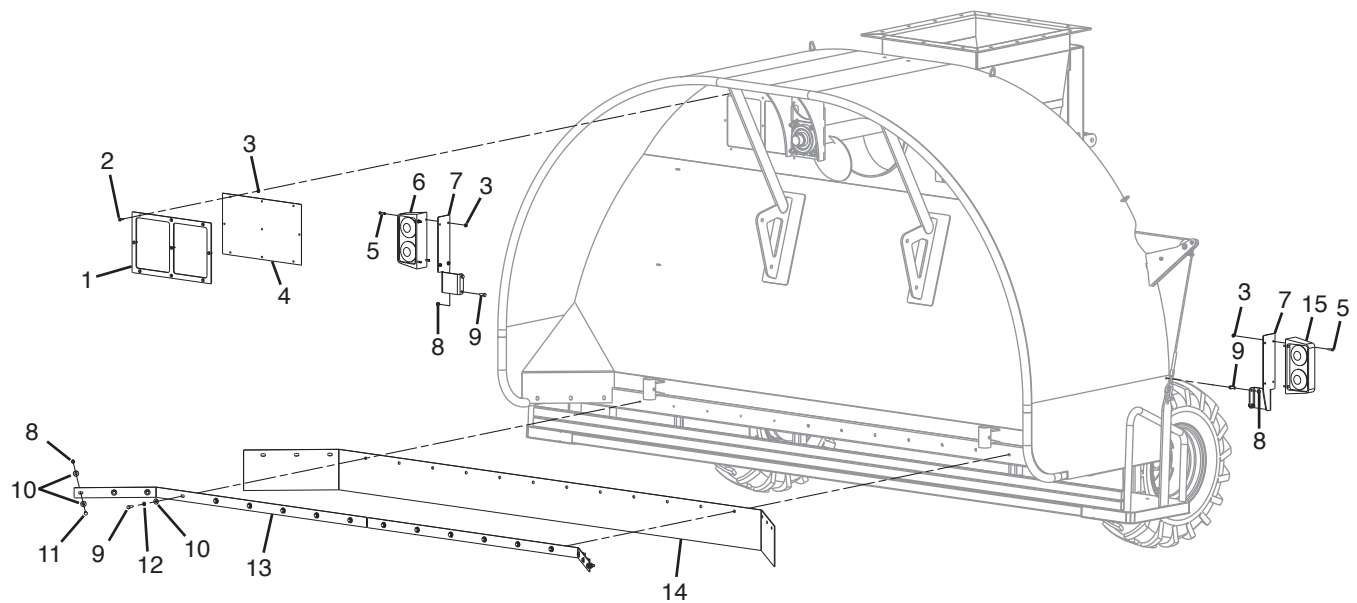
See page 56 for a parts breakdown of item 6 - PTO Bolt Kit (201012).

| #   | QTY. | PART # | DESCRIPTION                       |
|-----|------|--------|-----------------------------------|
| 1   | 2    | 4012   | BOLT, 1/2" X 1-1/4" GRADE 5       |
| 2   | 2    | 4486   | WASHER, 1/2" FLAT                 |
| 3   | 1    | N25105 | TOOLBOX, WINCH STORAGE            |
| 4   | 2    | 4054   | NUT, LOCK 1/2" TOP                |
| 5   | 1    | 201013 | GROUP, GBL/XLB PTO SHEAR BOLT     |
| 5a* | 2    | 4195   | BOLT, 3/8" X 1" GRADE 5           |
| 5b* | 2    | 4052   | NUT, LOCK 3/8"                    |
| 6   | 1    | 201012 | GROUP, GBL/XLB PTO BOLT           |
| 7   | 2    | 4092   | PIN COTTER 5/32" X 2"             |
| 8   | 1    | N23789 | PIN, GBL AUGER BOTTOM DOOR SHIELD |
| 9   | 1    | N23775 | U-BOLT, 3/8" X 3-1/2" X 5"        |
| 10  | 1    | N23773 | LATCH, GBL TRAP DOOR              |
| 11  | 1    | 4325   | PIN, COTTER 3/16" X 1-1/2"        |
| 12  | 1    | 4432   | PIN, 1/2" X 1-3/4" (2" OVERALL)   |
| 13  | 2    | 4233   | NUT, STANDARD 3/8"                |
| 14  | 2    | 4064   | WASHER, FLAT 3/8"                 |
| 15  | 1    | N27979 | DOOR, GBL12 AUGER CLEAN OUT       |
| 16  | 1    | N21365 | CLAMP, 3/8" DOUBLE HOSE           |

\* To order a complete PTO Shear Bolt Group, use part number 201013.

## Parts Identification

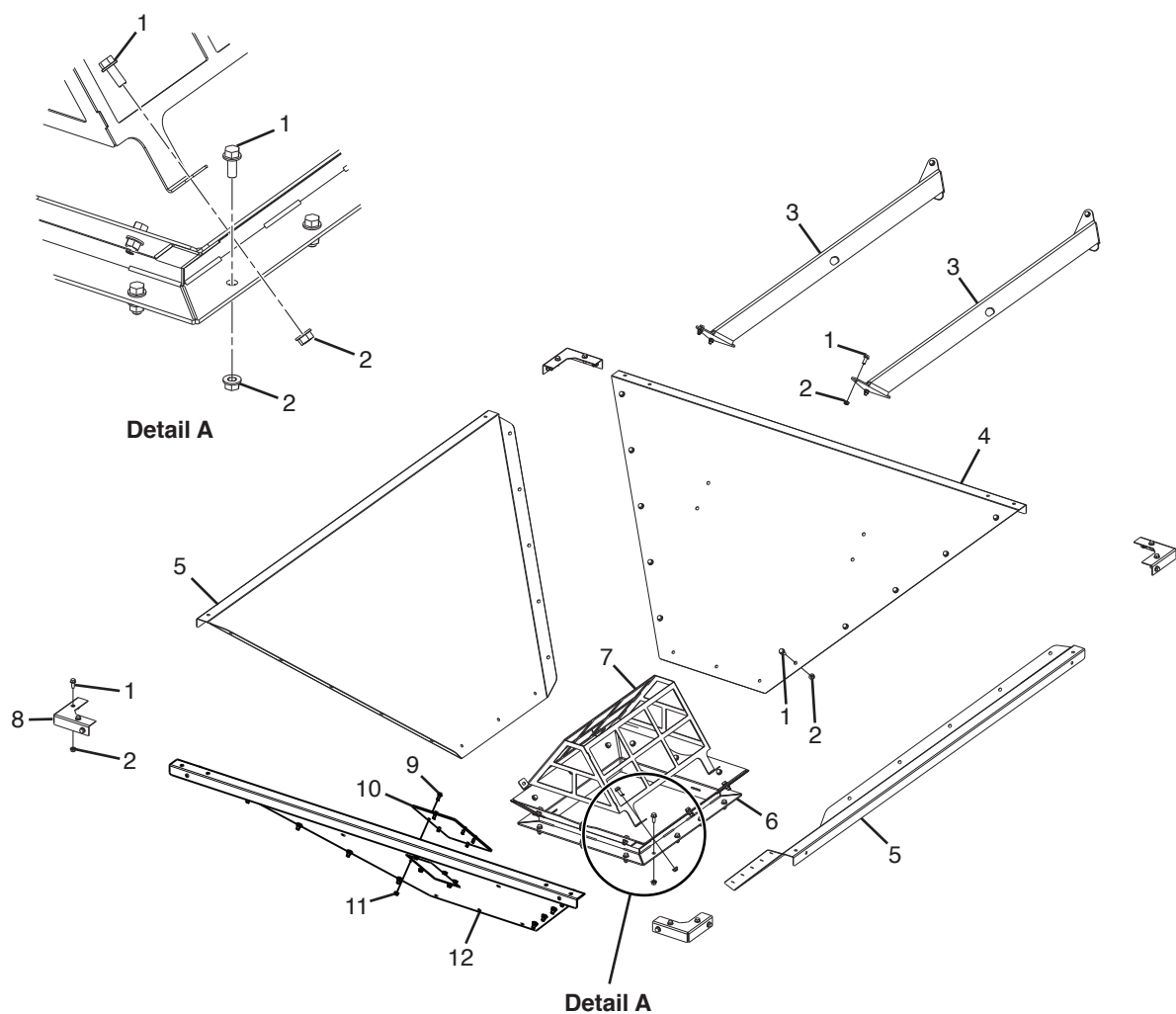
### Rear Skirt and Tail Light Assembly



| #  | QTY. | PART #  | DESCRIPTION                   |
|----|------|---------|-------------------------------|
| 1  | 2    | 201922  | PLATE, GBL10 SCREEN HOLDER    |
| 2  | 18   | 4573    | BOLT, 1/4" X 3/4" SER FLANGE  |
| 3  | 26   | N105230 | NUT, LOCK 1/4" SER FLANGE     |
| 4  | 2    | 201921  | SCREEN, GBL10 GEN 2 TUNNEL    |
| 5  | 8    | 4000    | BOLT, 1/4" X 1" GRADE 5       |
| 6  | 1    | N16289  | LIGHT, LEFT                   |
| 7  | 2    | 202662  | PLATE, LIGHT MOUNT            |
| 8  | 10   | 4052    | NUT, LOCK 3/8"                |
| 9  | 16   | 4195    | BOLT, 3/8" X 1" GRADE 5       |
| 10 | 24   | 4064    | WASHER, FLAT 3/8"             |
| 11 | 6    | 4005    | BOLT, 3/8" X 1-1/4" GRADE 5   |
| 12 | 12   | 4065    | WASHER, 3/8 LOCK              |
| 13 | 2    | 201917  | STRIP, GBL10 GEN 2 RBR FLAP 3 |
| 14 | 1    | 201916  | FLAP, GBL BOTTOM RUBBER 3     |
| 15 | 1    | N16290  | LIGHT, RIGHT                  |



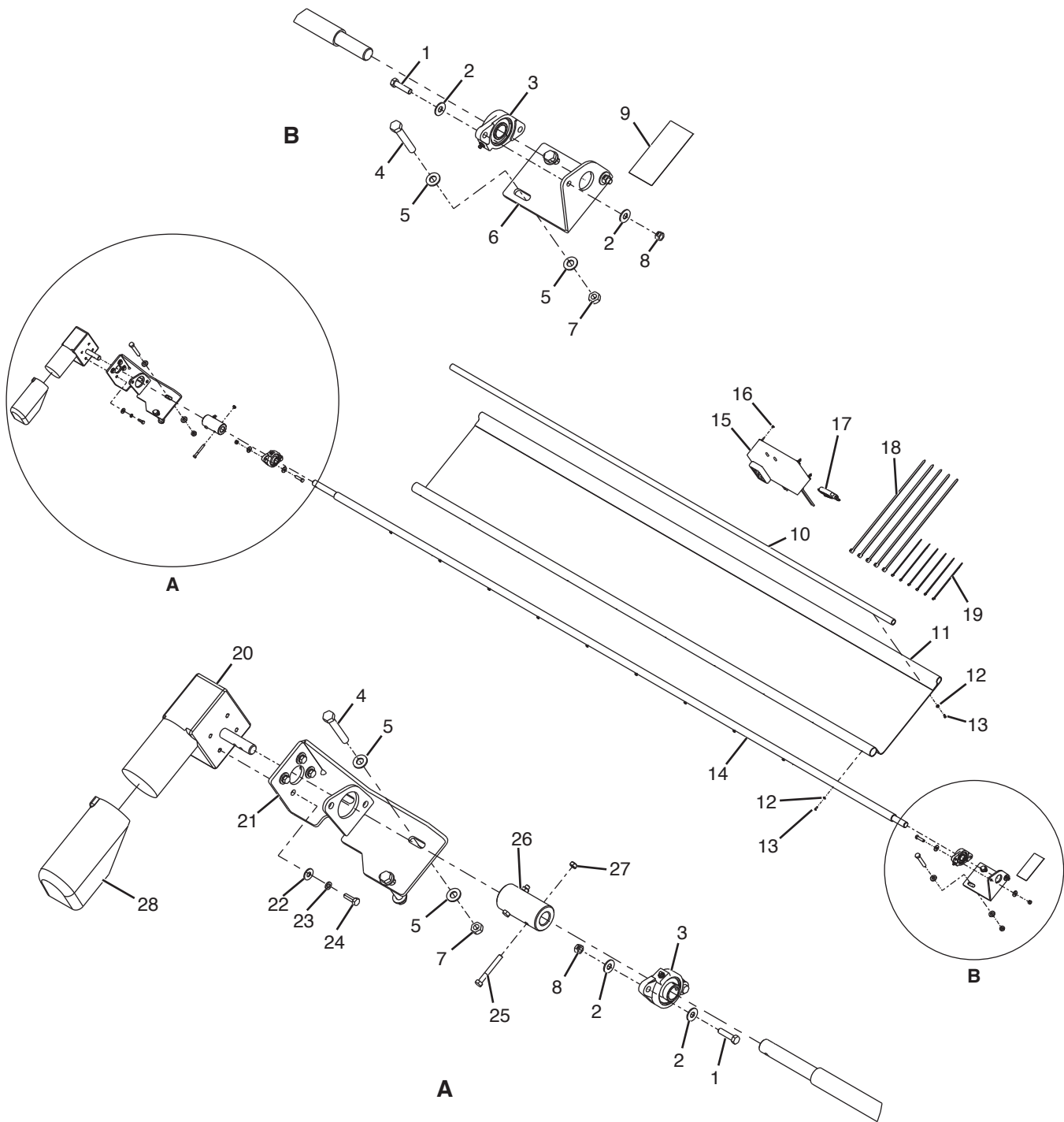
## Hopper



| #  | QTY. | PART # | DESCRIPTION                    |
|----|------|--------|--------------------------------|
| 1  | 70   | N18360 | BOLT, 1/2-13 X 1-1/4 SER FLG   |
| 2  | 70   | N29075 | NUT, LOCK 1/2" SERRATED FLANGE |
| 3  | 2    | 202164 | PLATE, XBL HOPPER BRACE        |
| 4  | 1    | 202165 | PANEL, GBL10 GEN 2 BACK        |
| 5  | 2    | N30796 | PANEL, GBL10 GEN 2 SIDE        |
| 6  | 1    | N30784 | BASE, GBL10 GEN 2 HOPPER       |
| 7  | 1    | 202169 | SCREEN, GBL HOPPER TRAPEZOID   |
| 8  | 4    | N22909 | CORNER, GBL HOPPER TOP         |
| 9  | 6    | N26743 | BOLT, 3/8" X 1" SER FLG        |
| 10 | 1    | N37022 | WINDOW, SPREADER FRONT         |
| 11 | 6    | 4979   | NUT, LOCK 3/8" SER FLANGE      |
| 12 | 1    | 202842 | PANEL, GBL10 GEN 2 FRONT       |

# Parts Identification

## Bag Pan Apron Kit (N100186) - Optional



### Bag Pan Apron Kit (N100186) - Optional

| #  | QTY. | PART # | DESCRIPTION                      |
|----|------|--------|----------------------------------|
| 1  | 4    | 4006   | BOLT, 3/8" X 1-1/2" GRADE 5      |
| 2  | 8    | 4064   | WASHER, FLAT 3/8"                |
| 3  | 2    | N30247 | BEARING, 1" DODGE 2BLT FLG       |
| 4  | 4    | 4467   | BOLT, 1/2" X 3-1/4" GRADE 5      |
| 5  | 8    | 4068   | WASHER, 1/2" SAE FLAT            |
| 6  | 1    | N37347 | MOUNT, GBL10 PAN TARP BKT MTR    |
| 7  | 4    | 4054   | NUT, LOCK 1/2" TOP               |
| 8  | 4    | 4052   | NUT, LOCK 3/8"                   |
| 9  | 1    | N68583 | DECAL, APRON WRAP ROTATION       |
| 10 | 1    | N33446 | PIPE, GBL10 BAG PAN TARP END     |
| 11 | 1    | N33445 | TARP, GBL10 BAG PAN              |
| 12 | 17   | 4555   | WASHER, FLAT #10                 |
| 13 | 17   | 4156   | RIVET, 3/16 X 1/2"               |
| 14 | 1    | N37377 | ROD, GBL10 BAG PAN TARP          |
| 15 | 1    | N39053 | RECEIVER, 2 CONTACT              |
| 16 | 4    | N16133 | NUT, NYLON INSERT #8             |
| 17 | 1    | N39055 | CHARGER, CAR MICRO USB           |
| 18 | 5    | N91908 | TIE, 175# BLACK ZIP 21"          |
| 19 | 6    | N23724 | TIE, #40 BLACK 8.5 CABLE         |
| 20 | 1    | N27660 | MOTOR, ELECTRIC 1/2 HP           |
| 21 | 1    | N37345 | BRACKET, GBL10 BAG PAN TARP LEFT |
| 22 | 4    | 4369   | WASHER, 5/16" FLAT               |
| 23 | 4    | 4228   | WASHER, 5/16" LOCK               |
| 24 | 4    | 4203   | BOLT, 5/16" X 1" GRADE 5         |
| 25 | 2    | 4204   | BOLT, 5/16" X 2-1/2" GRADE 5     |
| 26 | 1    | N27683 | COUPLER, GBL12 PAN TARP ROLLER   |
| 27 | 2    | 4414   | NUT, NYLOCK 5/16"                |
| 28 | 1    | 204090 | COVER, MOTOR RAIN                |



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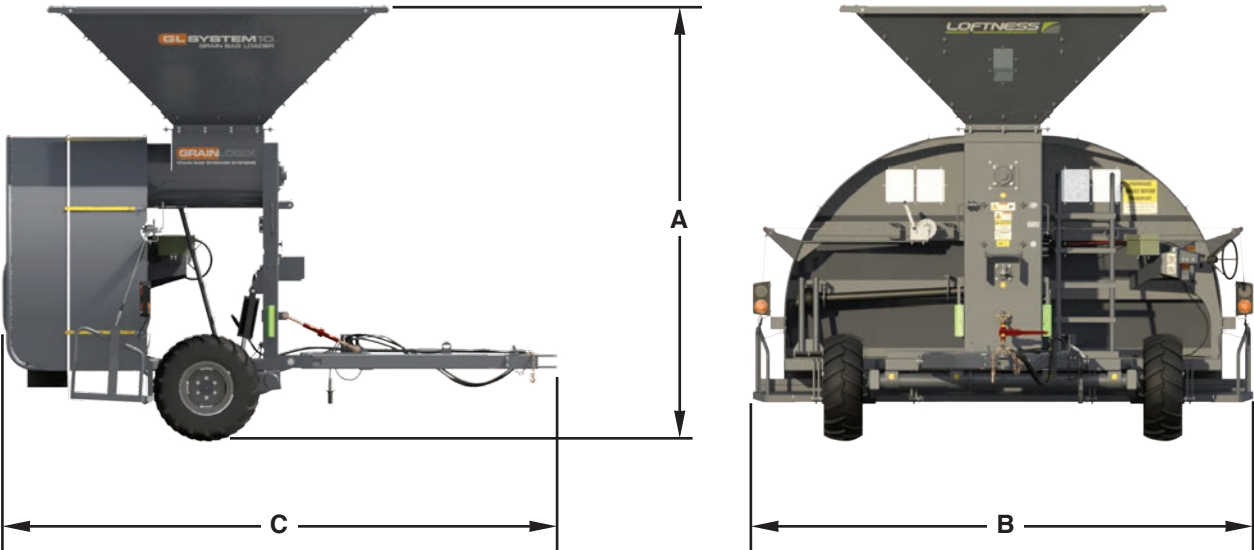
**Specifications**

| DESCRIPTION                | GRAIN BAG LOADER                |
|----------------------------|---------------------------------|
| Operating Capacity         | 30,000 Bushels/hr               |
| Operating Weight           | 4,080 lbs. (1,850.6 kg)         |
| Minimum Tractor Horsepower | 50 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                     | 12.5L - 15 Suregrip Traction    |
| PTO Driveline              | Weasler 35R Series              |
| Pressure Gauge             | 2000 PSI HYDRAULIC              |
| Brakes                     | Dual Disc Brakes                |
| Wheel Cylinders            | 4 x 8                           |
| Hopper Size (GBL 10)       | 8 ft. x 8 ft. (2.44 m x 2.44 m) |



# Appendix

## Dimensions (Operation)



| DESCRIPTION          | GRAIN BAG LOADER       |
|----------------------|------------------------|
| Operating Height (A) | 129.43 in. (328.75 cm) |
| Operating Width (B)  | 153.83 in. (390.7 cm)  |
| Operating Length (C) | 170.84 in. (433.93 cm) |

## Torque Specifications

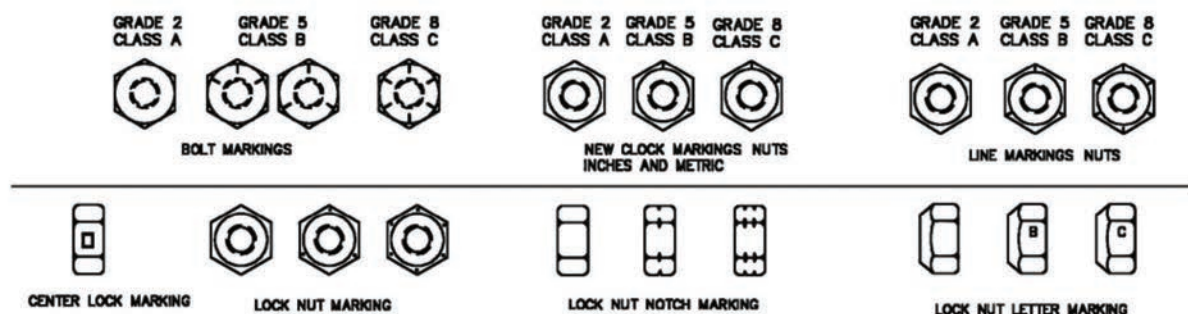
### Inches Hardware and Lock Nuts

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



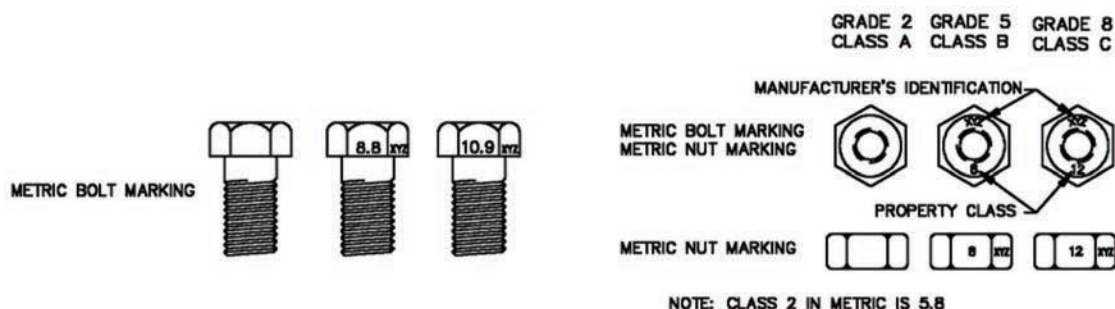
# Appendix

## Torque Specifications (Cont'd)

### Metric Hardware and Lock Nuts

**TORQUE CHARTS**  
Minimum Hardware Tightening Torques  
Normal Assembly Applications  
(Metric Hardware and Lock Nuts)

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







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