



GRAIN BAG STORAGE SYSTEMS

Grain Bag Truck Unloading Auger



Owner's Manual and Parts Book
(TUA Originating w/Serial Number 68-321)
(XLB10 Originating w/Serial Number 74-372)

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



LOFTNESS SPECIALIZED EQUIPMENT, INC.

LIMITED WARRANTY POLICY

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

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

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

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

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

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

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

WARRANTY REQUIREMENTS

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

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

LIMITATIONS OF WARRANTY

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

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

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

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

EXCLUSIONS OF WARRANTY

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

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





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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Warranty

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Owner Information

Thank you for your decision to purchase a Truck Unloading Auger 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.

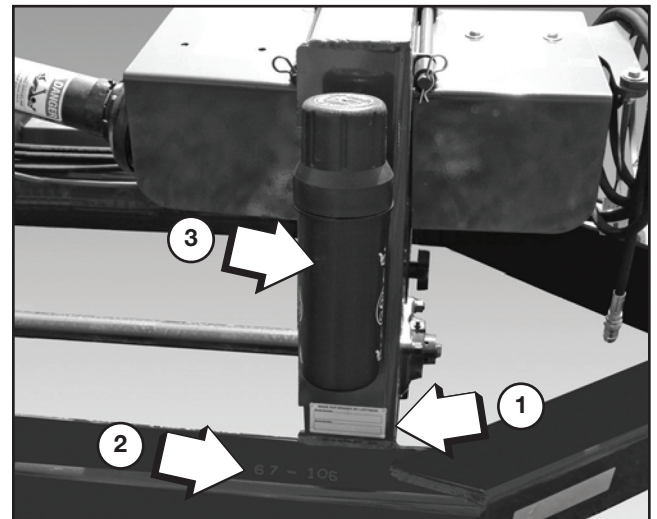
Continuous improvement and advancement of Loftness products may result in changes to your equipment that may not be reflected in this publication. Loftness reserves the right to make product improvements to the machine at any time. Although great care has been taken to ensure the accuracy of this publication, 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 (Item 3 in photo above) provided on your truck unloading auger. The owner's manual must be available for all operators.

Features

- PTO Driven Augers
- 14 in. into 13 in. (35.6 cm into 33.0 cm) Main Augers
- Augers are Reversible for Clean-out
- 11,900 Bushels Per Hour Capacity
- 1000 RPM PTO 1-3/8" or 1-3/4"
- 120 HP/5 GPM (18.93 L/min) Tractor Requirements
- Hydraulic Hopper Positioning
- Low Profile, Oversized Hopper
- Self-Leveling Hopper
- 12 in. (30.5 cm) Hopper Height
- 19 in. (48.3 cm) Hopper Height w/Extension
- Hopper Width - 40 in. (101.6 cm)
- Hopper Length - 82 in. (208.3 cm)
- Twin 7 in. (17.8 cm) Hopper Augers
- Traction Tires on Hopper Drive
- Adjustable Hopper Guide Wheels
- Two (2) Easy Access Clean-Out Doors
- Chain-Type Drive Coupler
- Easy Transporting System
- Easily Converts from Trucks to Carts
- Designed for Easy Set-up
- Weight - 4,675 pounds (2121 kg) (Truck Auger Kit Only)

Safety First

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



Safety Alert Symbol

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

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

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



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

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

IMPORTANT: Highlights information that must be heeded.

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

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

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

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

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

Owner's Responsibility

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

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

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

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

Safety Instructions

Safety Rules

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

Operating Safety

- Do not allow anyone to operate the machine until he or she has read the owner's manual and is completely familiar with all safety precautions.
- Do not allow inexperienced persons unfamiliar with the machine, or unfamiliar with safe operating and maintenance procedures, to operate or maintain the machine.
- Do not allow persons under the influence of alcohol, medications, or other drugs that can impair judgment or cause drowsiness to operate or maintain the machine.
- Keep children, bystanders and other workers away from the machine while it is operating. No riders allowed.
- The machine requires an operator at all times. Never leave the machine running and unattended.
- Do not wear loose hanging clothes, neckties or jewelry. Long hair is to be placed under a cap or hat. These precautions will help prevent you from becoming caught in any moving parts on the machine.
- Do wear safety glasses, ear protection, respirators, gloves, hard hats, safety shoes and other protective clothing when required.
- The auger should not be used to handle materials other than those which were specified as part of its design. It is the operator's responsibility to be aware of the specifications and operate the auger accordingly.
- It is the operator's responsibility to be aware of machine operation and work area hazards at all times.
- Operators are responsible to know the location and function of all guards and shields including but not limited to PTO drivelines, gearboxes, chain drives, augers and are responsible to make certain that all guards are in place when operating the machine.
- Operators are responsible to be aware of safety hazard areas and follow instructions on warning, caution, or danger decals applied to the machine.
- Know the area before operating the machine. Be aware of power lines or other equipment. Watch for adequate overhead clearance.
- Always have an operator in the tractor while the machine is in operation.
- Remove from the area of operation all foreign objects such as sticks, wire, rocks, etc., that might become tangled in the augers. These articles can damage the machine or might be thrown and strike other objects.
- Disengage PTO, clutch hydraulic valve and shift tractor into neutral or park before starting engine.
- Never operate the machine with a 540 RPM tractor.

Transporting Safety

- Be sure the machine is in the transport position before transporting on a roadway.
- Do not exceed speed rating (20 mph [32 km/h]) on the factory provided tires.
- Disengage PTO, clutch hydraulic valve and shift tractor into neutral or park before starting engine

Safety Instructions

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.
- Periodically check all hoses, hose connections and electrical wiring. Replace or repair anything that could cause a potential hazard.
- Do not replace components or parts with other than factory-recommended service parts. To do so may decrease the effectiveness of the machine.
- Do not lubricate parts while the machine is running.
- Do not smoke while servicing the machine.
- Never attempt to make any adjustments while the tractor engine is running or the key is in the "ON" position in the tractor. Before leaving the operator's position, disengage power to the machine and remove ignition key.

Hydraulic Safety

- The hydraulic system is under high pressure. Make sure all lines and fittings are tight and in good condition. These fluids escaping under high pressure can have sufficient force to penetrate skin and cause serious injury.
- Never check for leaks by using any part of your body to feel for escaping fluid.
- Always use a piece of wood to check for leaks.

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 1000 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 the PTO slowly at idle speed to prevent unnecessary stress to the driveline.
- DO NOT USE PTO ADAPTERS OF ANY KIND.
- Use only recommended shear-bolts.
- Maintain proper hitching dimensions
1 - 3/8" - 21 Spline - PTO end to pin of draw bar 16".
1 - 3/4" - 20 Spline - PTO end to pin of draw bar 20".

Safety Instructions

Safety Decal Locations

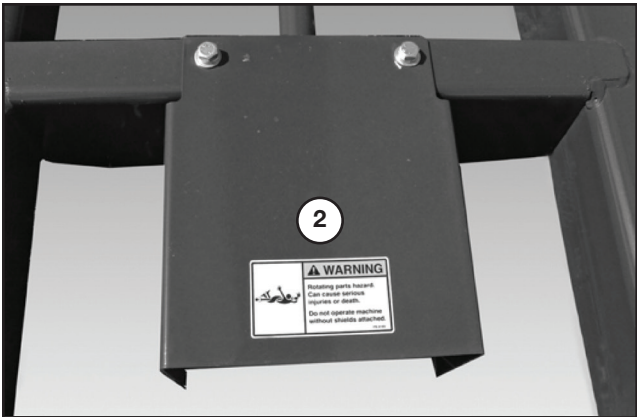
Check and replace any worn, torn, hard to read or missing safety decals on your machine.



1



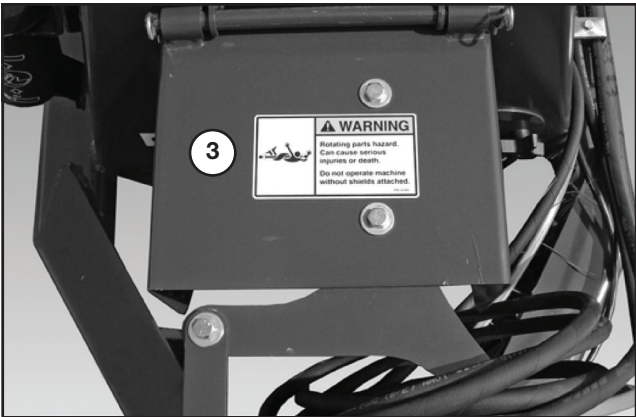
Part No. 4189



2



Part No. 4189



3



Part No. 4189



4



Part No. N26682

Safety Decal Locations (Cont'd)



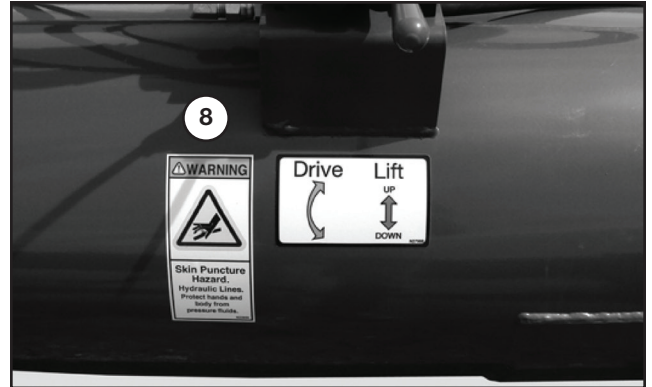
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Part No. N26796



Part No. N26682



Part No. N23899



Part No. N23505

Safety Instructions

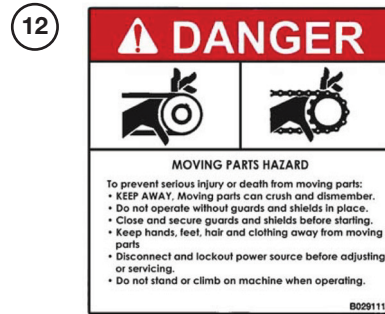
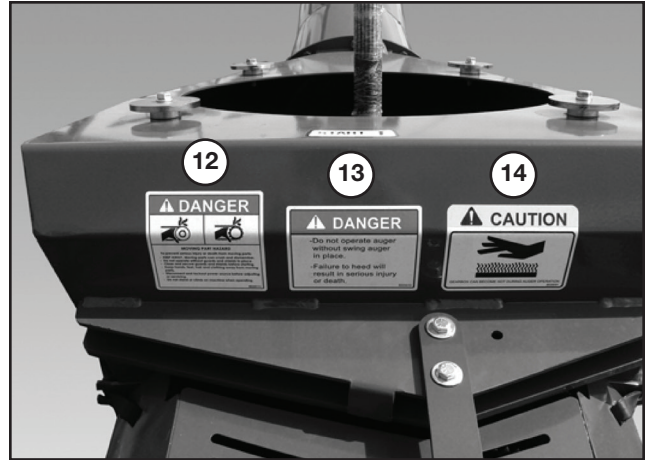
Safety Decal Locations (Cont'd)



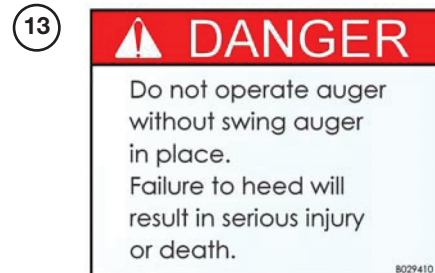
Part No. N23507



Part No. N26681



Part No. N26682



Part No. N26680



Part No. N26683

Safety Decal Locations (Cont'd)



15

⚠ DANGER



To Prevent Serious Injury Or Death:

- Keep hands, feet and clothing away from auger intake.

⚠ CAUTION

WINCH OPERATION

1. After lowering the auger always turn the winch handle clockwise at least two clicks to tighten the brake lock.
2. Maintain control of the winch handle at all times.
3. Maintain tight cable tension when in the towing position.
4. Do not put lubrication of any kind on the brake disc.
5. Check cable before each use. Replace if frayed or damaged.


⚠ DANGER

UPENDING HAZARD

1. The intake end of the auger must always have downward weight.
2. Always test it before releasing it from the vehicle or hold-down.
3. Lift the intake slowly and keep it no higher than the tractor tow bar when attaching or releasing it.
4. Don't push the undercarriage.
5. Immediately lower the auger to transport position before moving.

FAILURE TO DO SO WILL CAUSE UPENDING, WHICH WILL RESULT IN SERIOUS INJURY OR DEATH.

⚠ DANGER



ELECTROCUTION HAZARD

To prevent serious injury or death from electrocution:

- Stay away from overhead power lines when transporting or raising auger. This machine is not grounded. Electrocution can occur without direct contact.

⚠ CAUTION

1. Read and understand the operator's manual before operating.
2. Keep all safety shields and devices in place.
3. Make certain everyone is clear before operating or moving the machine.
4. Keep hands, feet and clothing away from all moving parts.
5. Shut off power to adjust, service or clean the auger.
6. Support discharge end or anchor intake to prevent upending. (See Operator's Manual)
7. Disconnect power before resetting motor overload. (electric Motor Drive)
8. Empty auger before moving to prevent upending.
9. Lower auger to transport position before moving or transporting.
10. Make certain electric motors are grounded.
11. Use only genuine Brandt replacement parts, especially shear pins and bolts.
12. Do not run this auger empty except at idling speed.

8029100

Part No. N26792

Safety Instructions

Safety Decal Locations (Cont'd)



Part No. N23931

Machine Decals and Signs

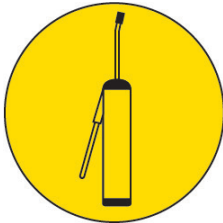
NOTE: All safety related decals are also shown in the *Safety Instructions* Section along with their location on the machine. See “Safety Decal Locations” starting on page 6.

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

Part No. 4136



Part No. 4137



Part No. 4138



Part No. N26969



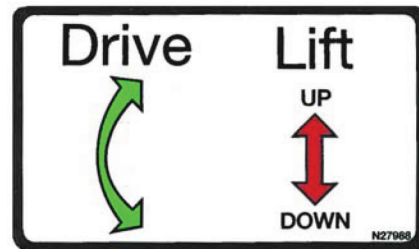
Part No. N26970



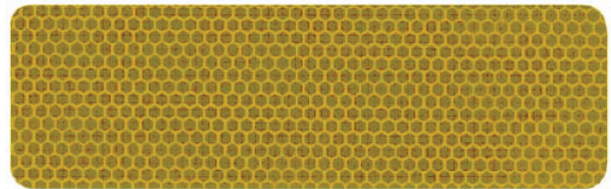
Part No. N26972



Part No. N27988



Part No. 4140



Part No. N13517



Part No. N27995



Part No. N27996



Safety Instructions

Machine Decals and Signs (Cont'd)

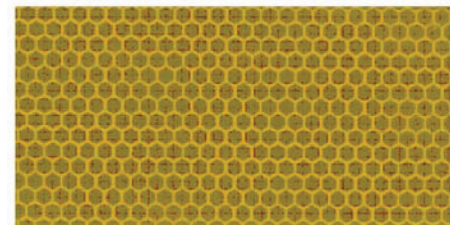
Part No. N26679



Part No. N13721



Part No. N26686



Part No. N33102



Part No. N26850



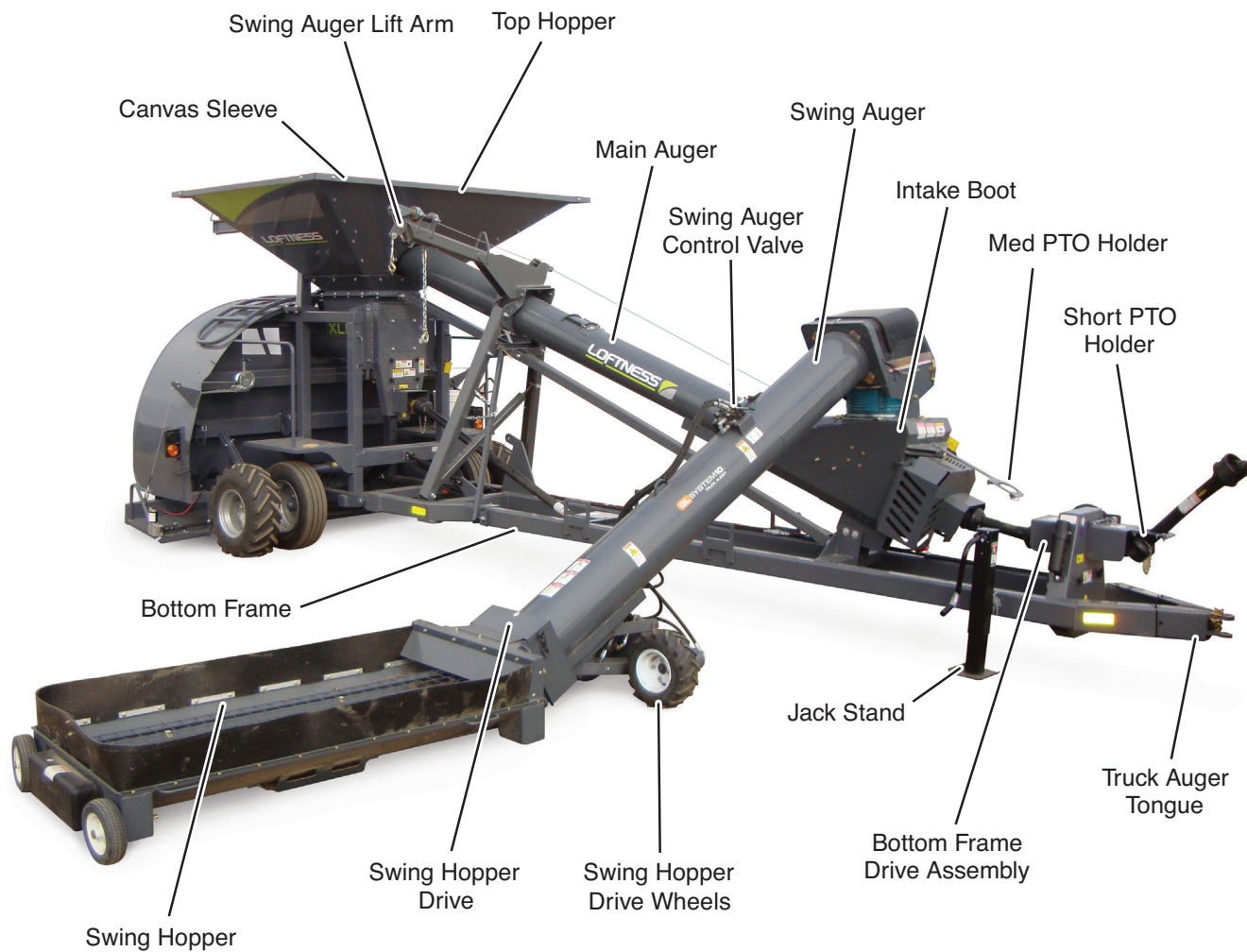
Part No. N26851



Part No. N26852



Truck Unloading Auger Identification





Set-up Instructions

Assembly Instructions

Tongue Removal

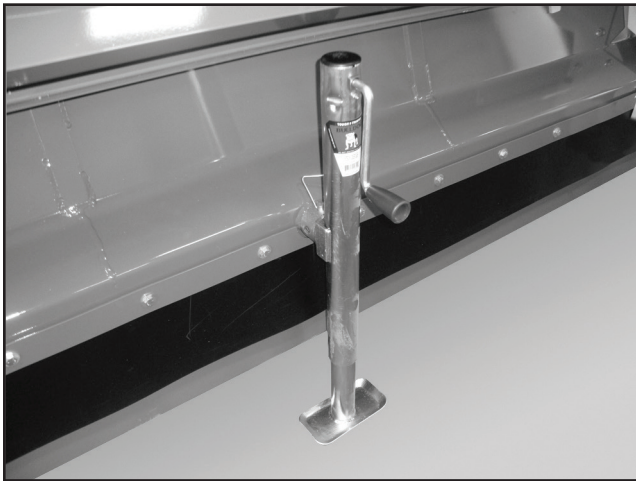


WARNING: Ensure area is clear of bystanders before moving the Grain Bag Loader.

Move the machine to an open area where you can access the machine from both sides and the rear.

Connect the hydraulic hoses to the machine. Lower the Grain Bag Loader wheels to the lowest setting.

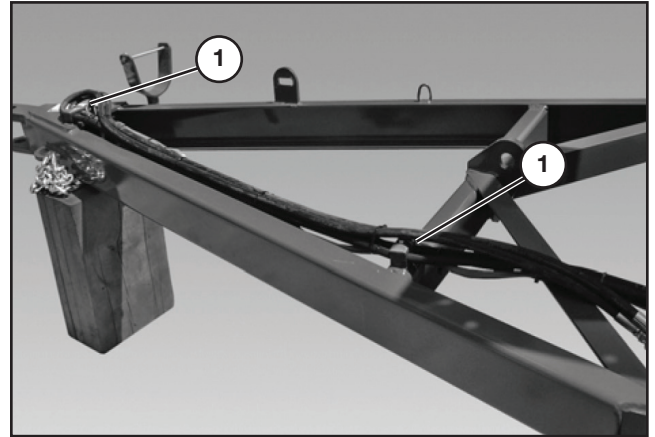
Set brake pressure to 500 PSI.



IMPORTANT: Always position and secure the jack in the rear before unhitching the grain bag loader!

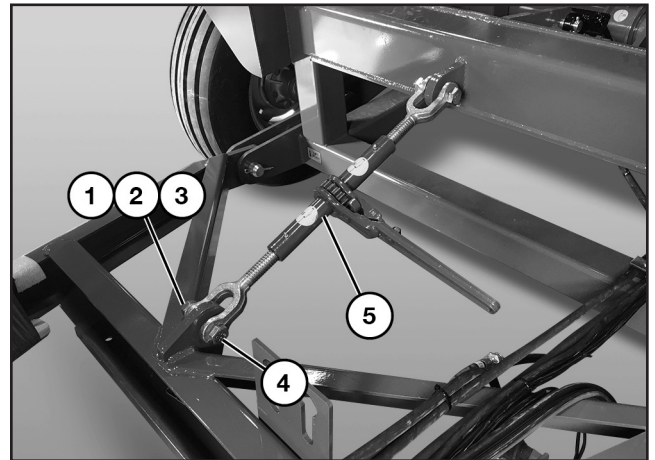


WARNING: The grain bag loader has negative tongue weight. Failure to place the jack in the position shown above when unhitching the grain bag loader will cause the front hitch to raise rapidly and may result in serious injury.



Remove the cable ties and clamps (1) securing the hydraulic hoses and wire harness to the grain bag loader tongue. Move the hydraulic hoses and wire harness away from the tongue.

NOTE: Leave the hydraulic hoses and wire harness connected to the machine.



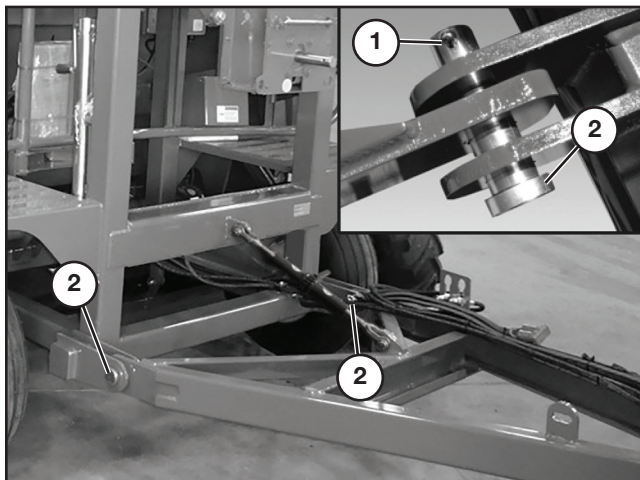
Remove nut (1), lock washer (2), flat washer (3), and bolt (4) to disconnect the adjustable link (5) from the grain bag loader tongue.

(Procedure continued on following page.)

Set-up Instructions

Assembly Instructions (Cont'd)

Tongue Removal (Cont'd)



Remove the cotter pin (1) and pin (2). Remove the grain bag loader tongue.



WARNING: *The grain bag loader tongue is heavy. Always use two people when removing the tongue.*

NOTE: *Store the grain bag loader tongue away from work area.*

Tongue Installation

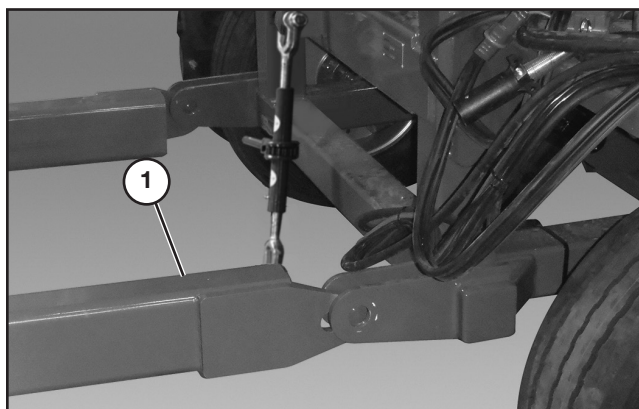
Position the truck auger close to the grain bag loader.

Remove the yellow shipping brackets that hold the swing hopper in place during shipping.

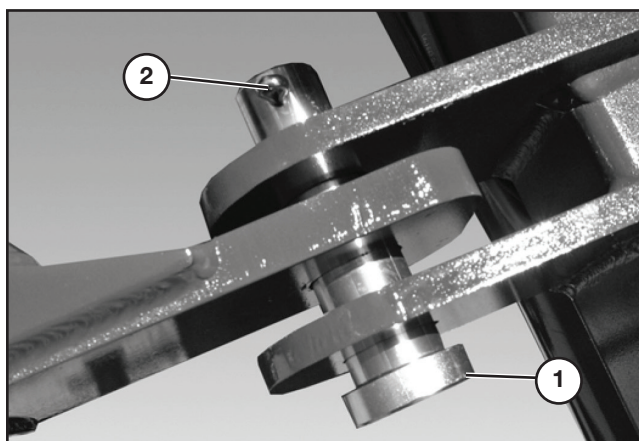


WARNING: *TIPPING HAZARD. DO NOT remove the shipping stand until the hitch is installed to the tunnel body with the connecting pins.*

Lower the swing hopper to the ground.



Move the truck auger (1) into position in front of the grain bag loader.



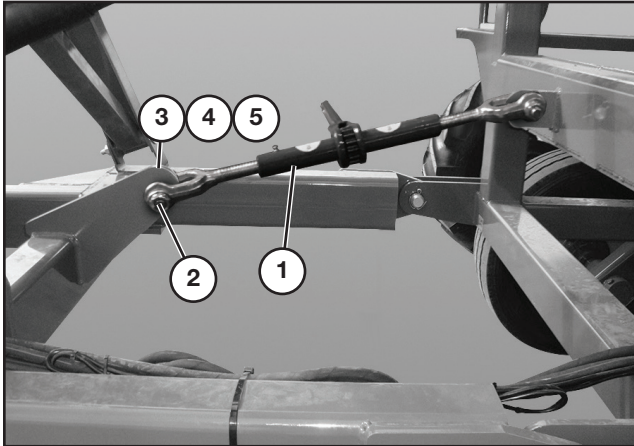
Align the truck unloader auger tongue with the tongue mounts on the grain bag loader.

Install the lower pin(s) (1) through the tongue mounts on the grain bag loader and truck auger tongue. Install cotter pin(s) (2).

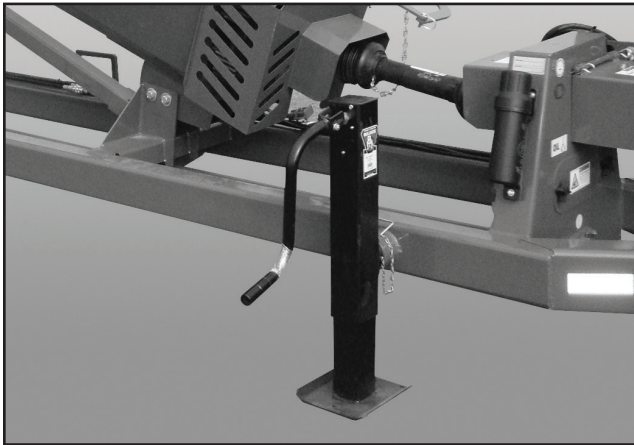
The yellow shipping stand should now be removed.

Assembly Instructions (Cont'd)

Tongue Installation (Cont'd)



Align the adjustable link (1) with the mount on the truck auger tongue. Install using the bolt (2), flat washer (3), lock washer (4) and nut (5) provided.

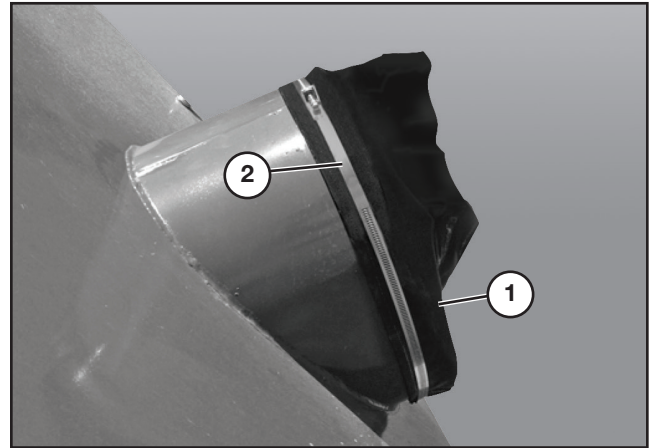


Lower the front jack on the truck auger.

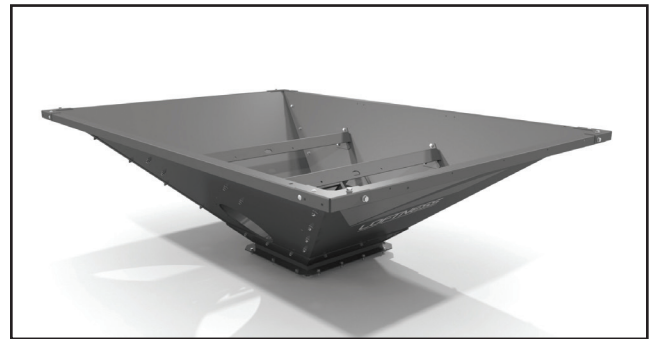
Hopper Assembly

See the Grain Bag Loader Owner's Manual for the correct procedure for assembling the hopper.

NOTE: *Three panels of the original grain bag loader will be used when assembling the hopper. The front panel with the small semicircle cutout on the lower part of the panel and the hopper screen will be replaced.*



Install the canvas sleeve (1) to the inside of the hopper panel. Secure the canvas sleeve with clamp (2).

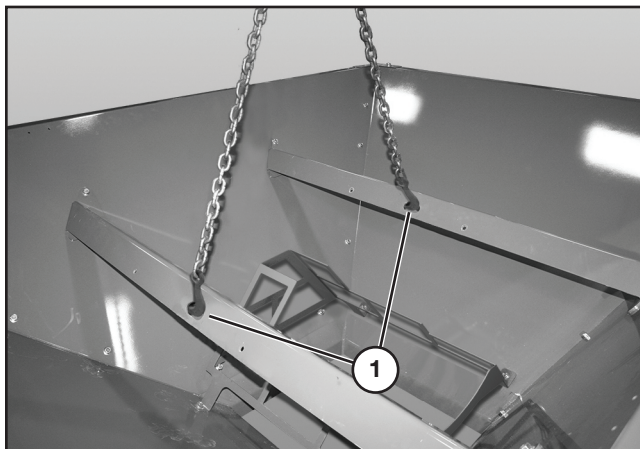


Install the hopper panel and screen provided with the truck auger. Reference the main hopper assembly section of the Grain Bag Loader Owner's manual for the correct hopper assembly sequence and procedure.

Set-up Instructions

Assembly Instructions (Cont'd)

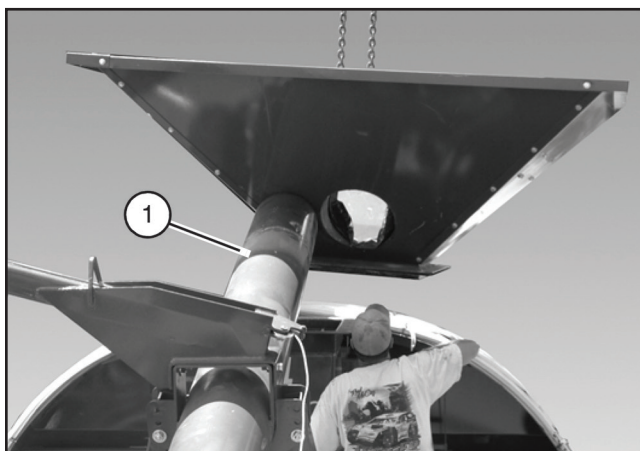
Hopper Installation



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

NOTE: Always use chains that are in good condition and of adequate size to lift the hopper.

Attach chains to a lifting device.



Raise the hopper and align with the auger (1).



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



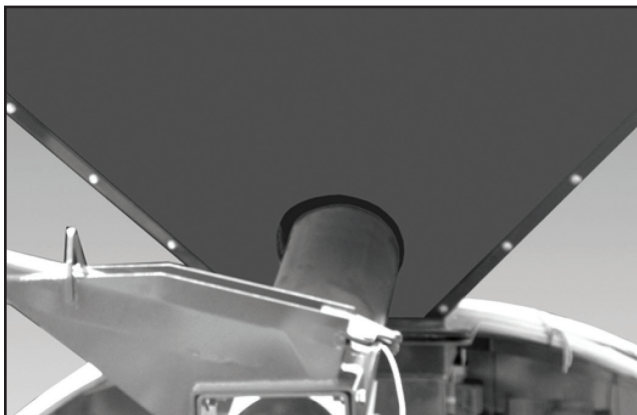
WARNING: Pinch points present. Keep hands away.



Move the hopper toward the auger, lowering the hopper as the auger is inserted into the hopper and canvas sleeve.



WARNING: Pinch points present. Keep hands away.

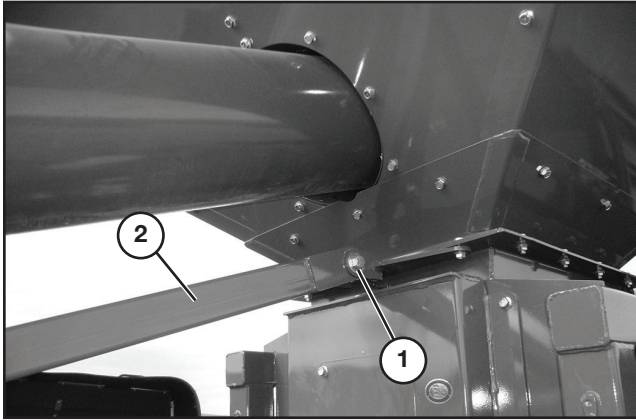


Align and lower the hopper into position.

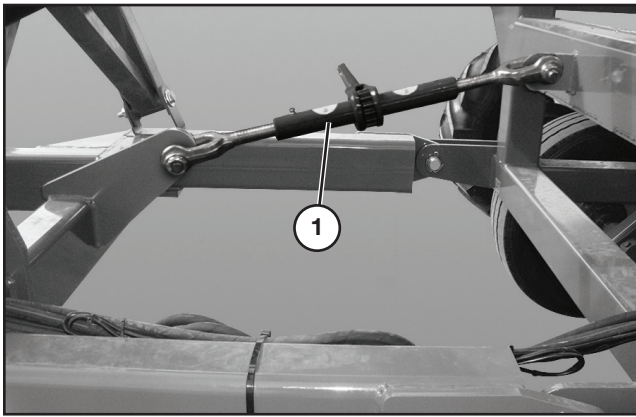
(Procedure continued on following page.)

Assembly Instructions (Cont'd)

Hopper Installation (Cont'd)

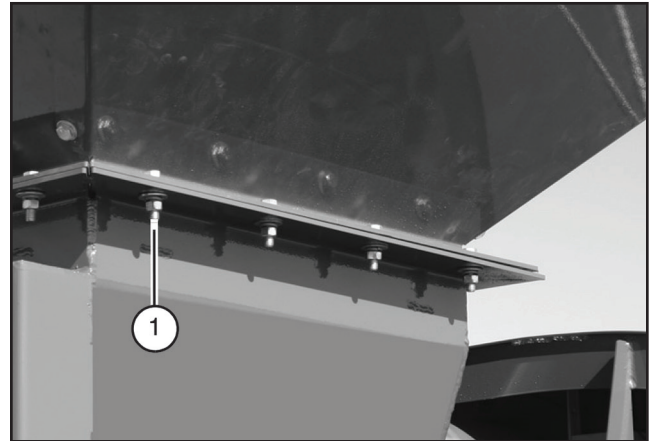


Install the mounting bracket (1) and top brace (2).



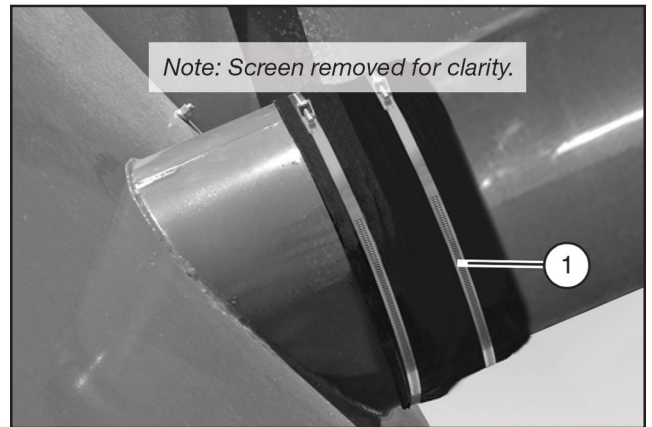
Use the adjustable link (1) to align the top brace and mounting bracket.

NOTE: *The front jack stand may need to be adjusted to allow for movement during top brace installation.*



Install the remaining 1/2" bolts, washers and nuts (1).

Tighten 1/2" bolts and nuts. See "Torque Specifications" on page 85.



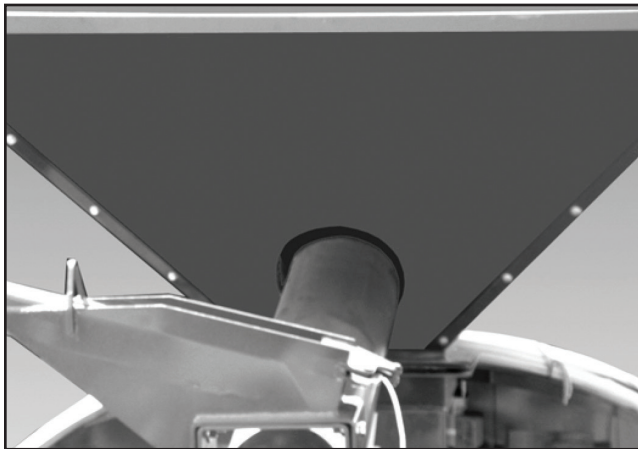
Remove the chains from the braces.

Install a second clamp (1) around the canvas sleeve and auger.

Set-up Instructions

Assembly Instructions (Cont'd)

Positioning Auger

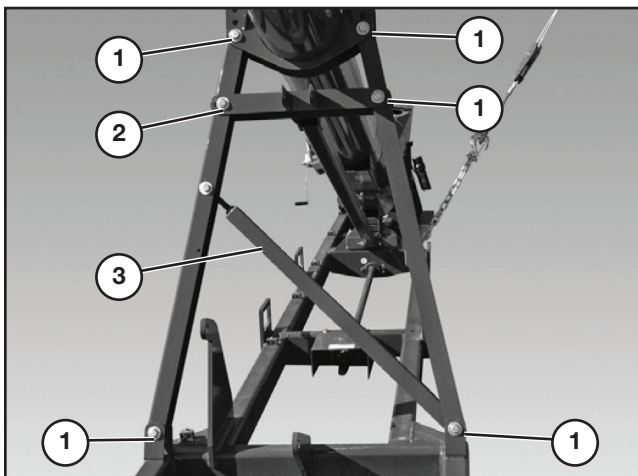


It is recommended that the auger be positioned to the side as shown above.

NOTE: *If the fit is too tight, then the frame will need to be adjusted left or right.*

Horizontal Auger Adjustment

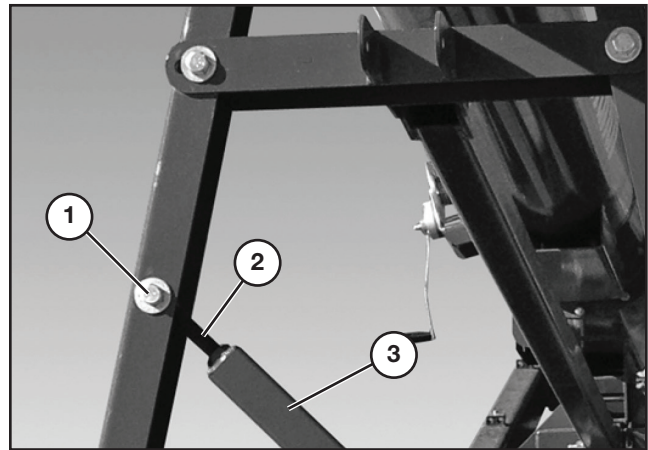
Side To Side



Loosen the five bolts (1) when adjusting the auger left or right.

Remove bolt (2), nut and washer.

Remove angle support (3).



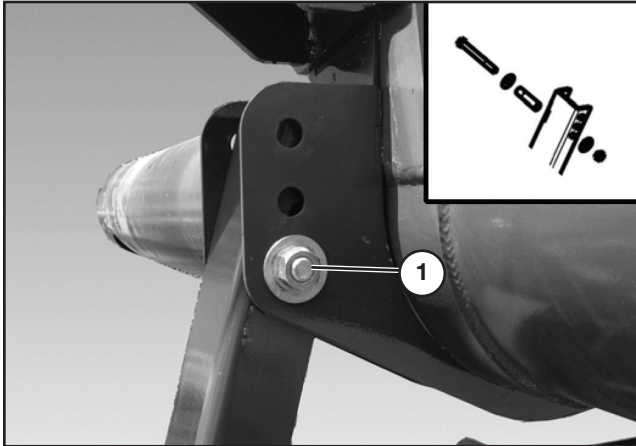
Turn the adjustment rod (2) in or out to the desired length. Align and install the angle support (3). Install bolt (1), washer and nut. Tighten nut.

NOTE: *Repeat procedure if additional adjustment is necessary.*

Tighten the remaining five bolts on the frame.

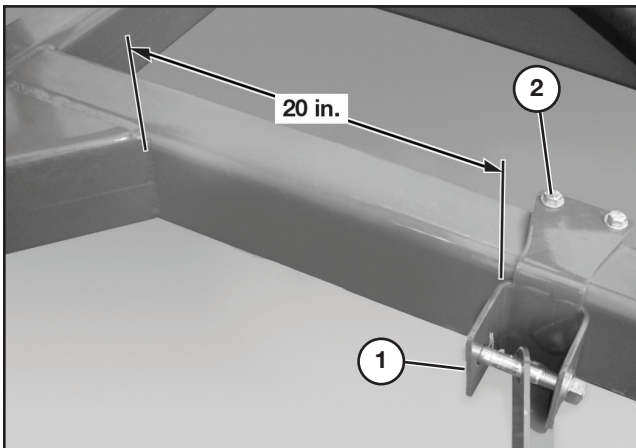
Assembly Instructions (Cont'd)

Vertical Auger Adjustment

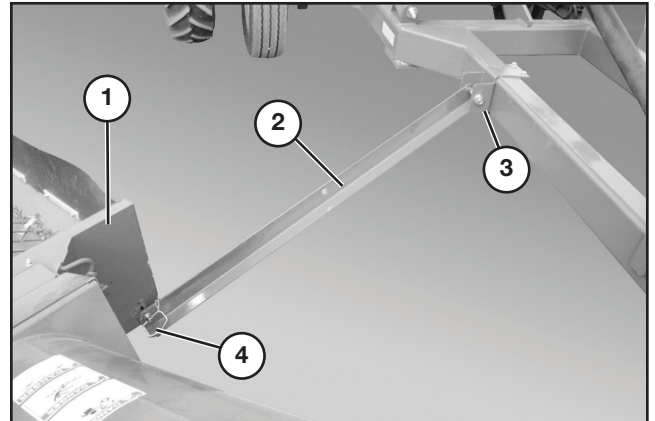


Remove nut (1) and washer. Then remove bolt, washer and bushing (from both braces). Move the auger to the desired height. Install bolt, washer and bushing (on both braces). Install washer and nut. Tighten nut.

Swing Auger Brace Installation



Mount bracket (1) 20 in. (50.8 cm) from the weldment on the frame as shown. Secure with bolts, washers, and nuts (2).



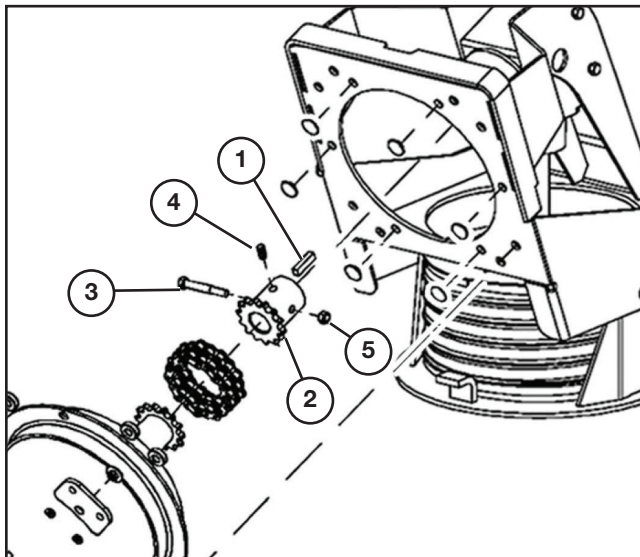
Move the swing hopper (1) towards the rear of the machine. Ensure the brace (2) is secured into the bracket with bolt and lock nut (3).

Bring the opposite end of the brace to the bottom hole in the swing hopper. Secure with the pin and clip (4).

Refer to "Switching to Transport Position" on page 37 for instructions on how to put the swing auger into the transport position.

Set-up Instructions

Swing Tube/Spout Assembly

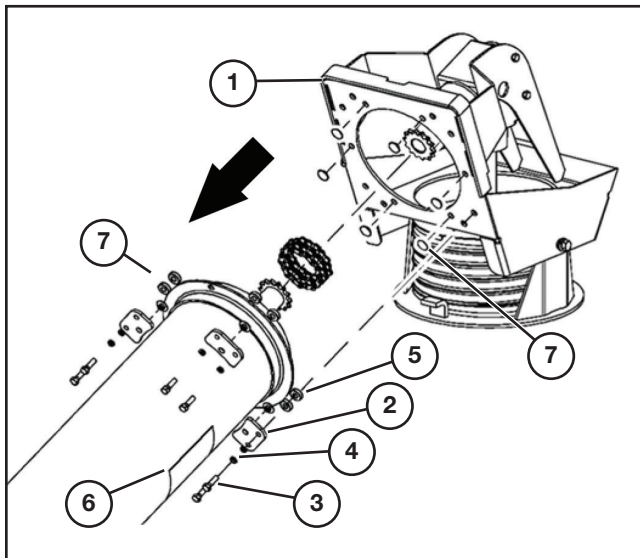


Remove the plastic cover from over the swing tube spout for easier access to the gearbox.

Install the 5/16" key (1) on the gearbox output shaft.

Align and install the gearbox sprocket (2) onto the gearbox output shaft. Secure the gearbox sprocket using a 3/8" x 3" Grade 8 bolt (3) and lock nut (5).

Install the 3/8" set screw (4).

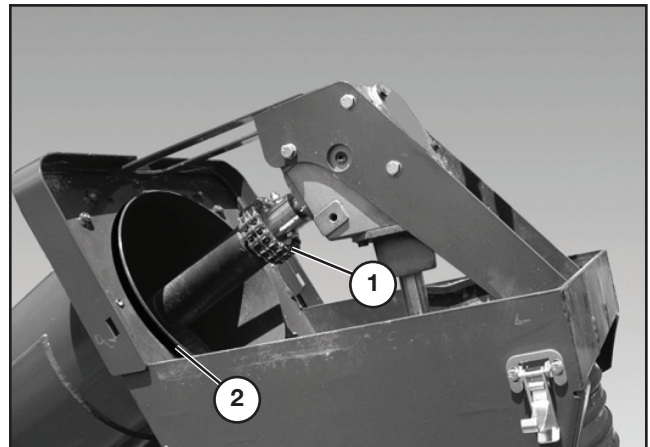


Install six slider bushings (7). Slide the spout assembly (1) onto the swing tube until it is against the angle flange.

Fasten the spout to the tube using the four retainer plates (2) using two 3/8" x 1-1/4" bolts (3), lock washers (4), and plastic spacer bushings (5) and one slider bushing (7).

NOTE: Do not over tighten these bolts. The spout must be able to rotate on the tube.

The tube wrap (6) welded to the swing tube must be oriented to the bottom as shown.

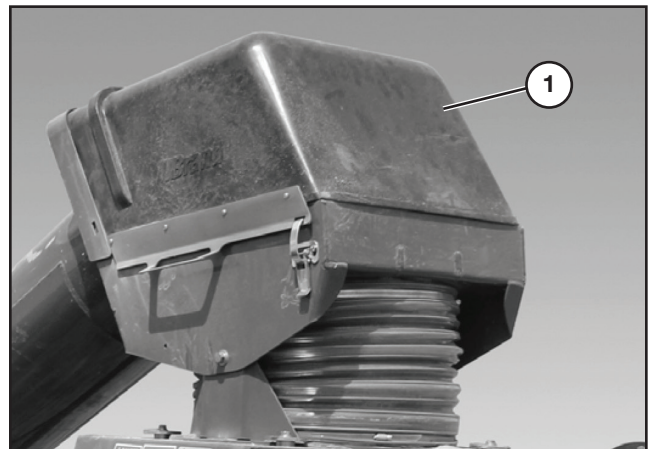


Install the 50-2 x 18 pitch roller chain (1) around the coupler sprockets as shown.

Remove the backing paper from the 42 in. (106.7 cm) foam strip.

Wrap the foam strip (2) around the lip of the swing tube which is inside the swing tube spout.

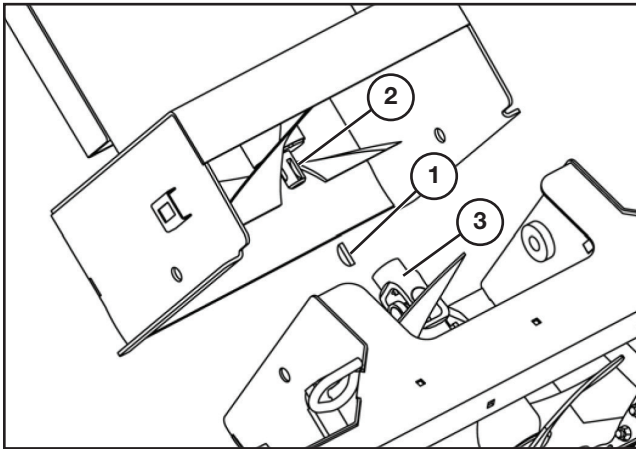
NOTE: Make sure the foam is tight against the inside of the spout plate.



Reinstall the plastic spout cover removed earlier.

Set-up Instructions

Hopper/Tube Assembly

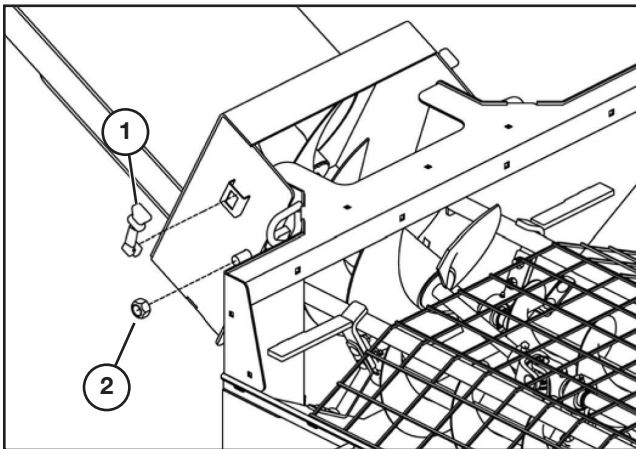


Install a woodruff key (1) and apply a thin coating of anti-seize compound on the swing flight shaft (2).

Move the hopper toward the swing tube and slide the u-joint onto the swing flight shaft (2).

NOTE: Do not install a set screw at (3).

NOTE: The u-joint must slide on easily. Buff the shaft and inside the u-joint if necessary.

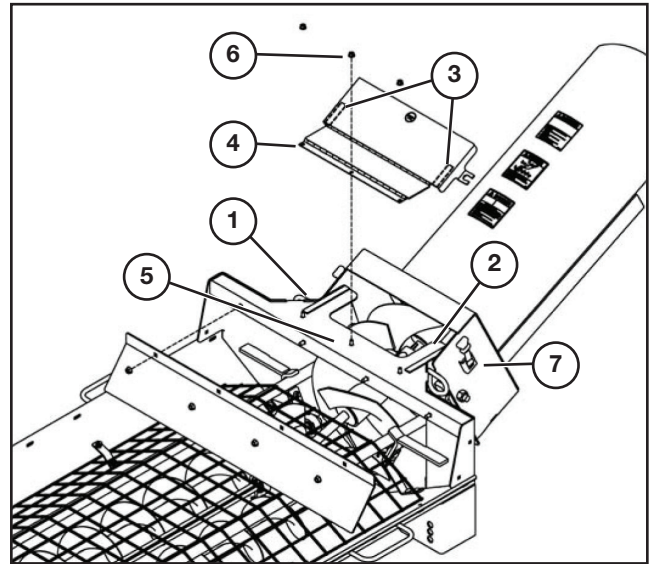


Install the two rubber latches (1) in the small brackets on the sides of the transition section.

Secure the 13" (33.0 cm) hopper transition to the hopper using two 3/4" x 2" bolts (installed from the inside out) and 3/4" stover locknuts (2).

NOTE: Do not over tighten the nuts. The transition must be able to rotate on the hopper.

Transition Cover Installation



NOTE: Clean the surface of the hopper before applying the foam strips.

Remove the backing from one of the 3/4" x 6-3/4" (1.9 cm x 17.1 cm) foam strips (1) and install on the hopper. Install the second foam strip (2).

Attach the 3/4" x 3" (1.9 cm x 7.6 cm) foam strips (3) to the underside of the transition cover.

Mount the transition cover (4) to the hopper using three 5/16" x 3/4" carriage bolts (5) and locking flange nuts (6).

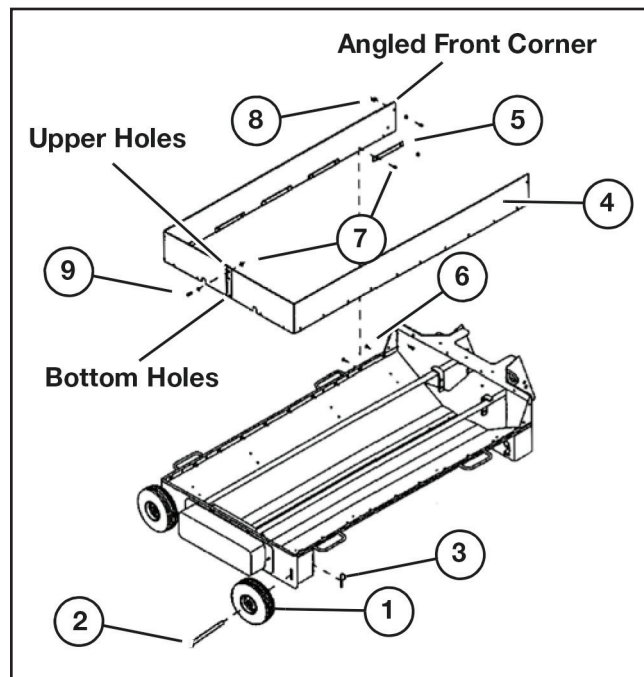
Stretch the rubber latches (7) over the receivers on the transition cover.

(Procedure continued on following page.)

Set-up Instructions

Hopper/Tube Assembly (Cont'd)

Swing Hopper Assembly



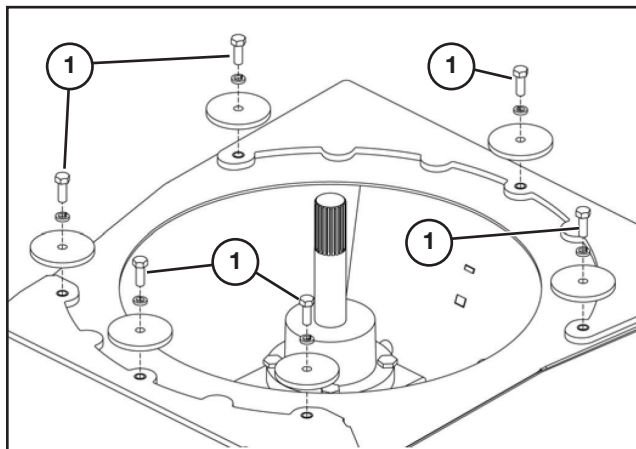
Install the hopper wheels (1) on the hopper using a plated wheel pin (2) (3/4" diameter pin with two holes) and a 3/16" hair pin clip (3) on both sides.

Install the rubber hopper extensions (4) on the inside of the hopper lip using the following bolts:

- All twelve aluminum straps (5) - 5/16" x 1" carriage bolts (6) and flange nuts (7).
- Bottom hole of the rear end of the hopper - 5/16" x 1" carriage bolt and a 5/16" flat washer (8) and 5/16" flange nut on the rubber side.
- Upper holes of the rear end of the hopper - 5/16" x 1" bolt (9), a 5/16" flat washer on both sides of the rubber and 5/16" flange nut.
- Angled front corners of the hopper - 5/16" x 1" carriage bolt and a 5/16" flat washer and 5/16" flange nut on the rubber side.

Mounting The Swing Auger

Clean the 21-spline shaft on the gearbox in the boot as well as the u-joint in the spout of the swing auger. Apply anti-seize compound to the splined shaft.



Remove the six bolts (1), lock washers and washers.

Using a lifting device and a sling, pick up the swing auger and hang the spout over the intake boot opening.

Remove the inspection cover on the side of the main auger boot.

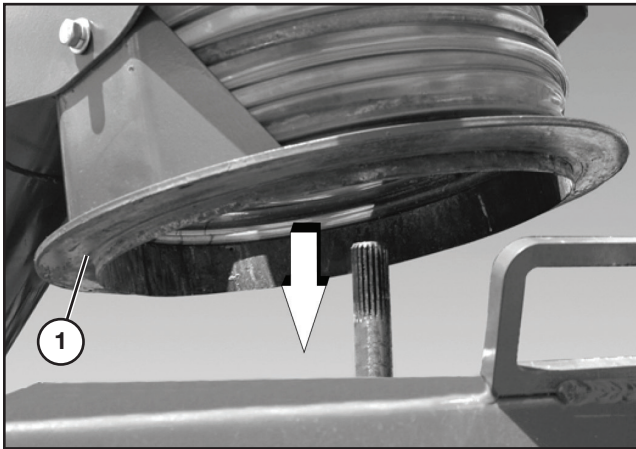
Using a stick or a piece of metal, guide the u-joint onto the boot gearbox while slowly lowering the swing auger.



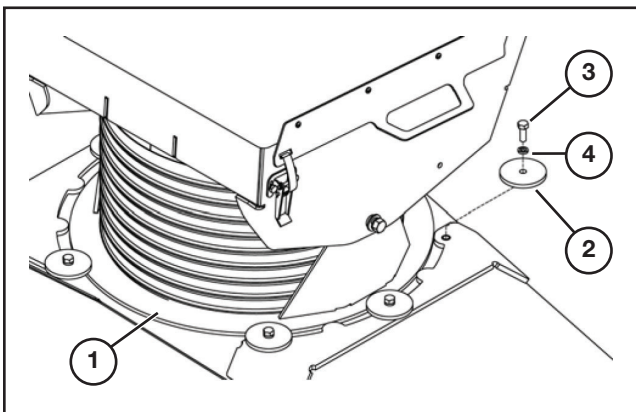
WARNING: Do not place hands in the intake boot while performing this operation. Severe injury will result!

(Procedure continued on following page.)

Mounting The Swing Auger (Cont'd)



Align and install the swivel auger (1).



When the auger is seated properly, the flange (1) on the end of the spout should lay flat onto the boot.

Secure in place using a 2-13/16" steel washer (2), 3/8" x 1" bolt (3) and lock washer (4). The nut is welded to the inside of the boot. Repeat procedure on the remaining five locations around the flange.

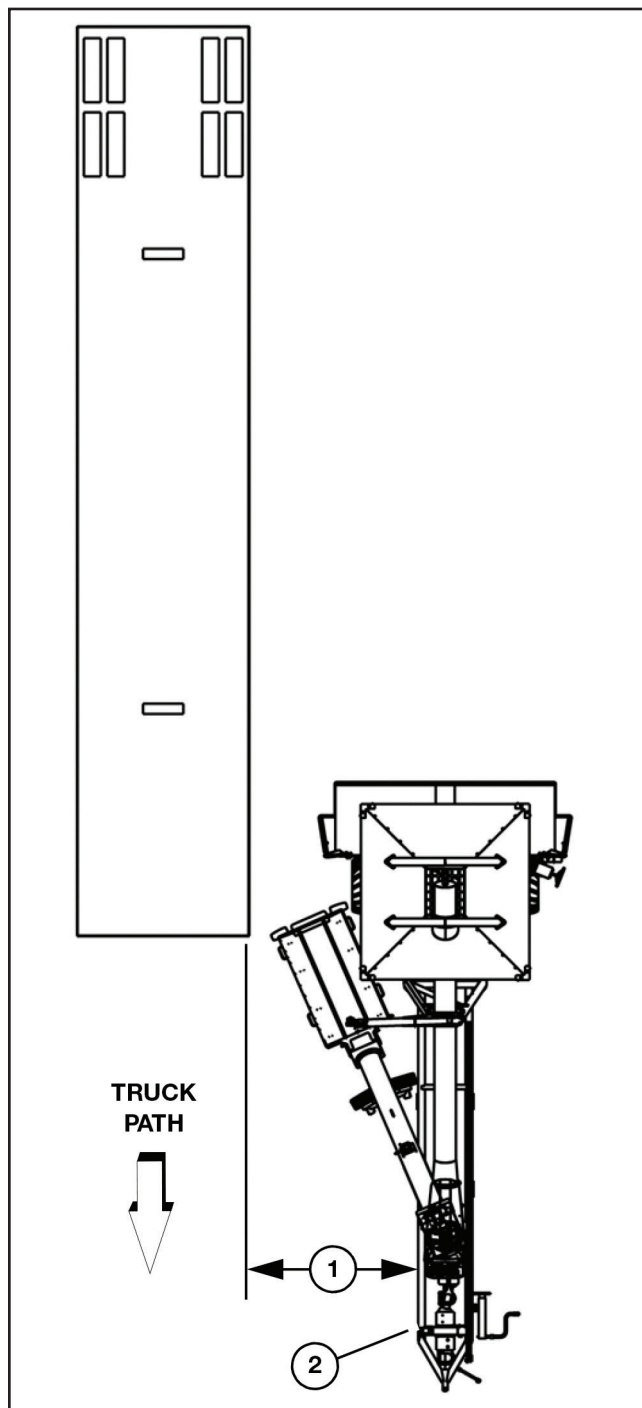
Rotate the swing auger to ensure correct setup.

Re-install the inspection cover.

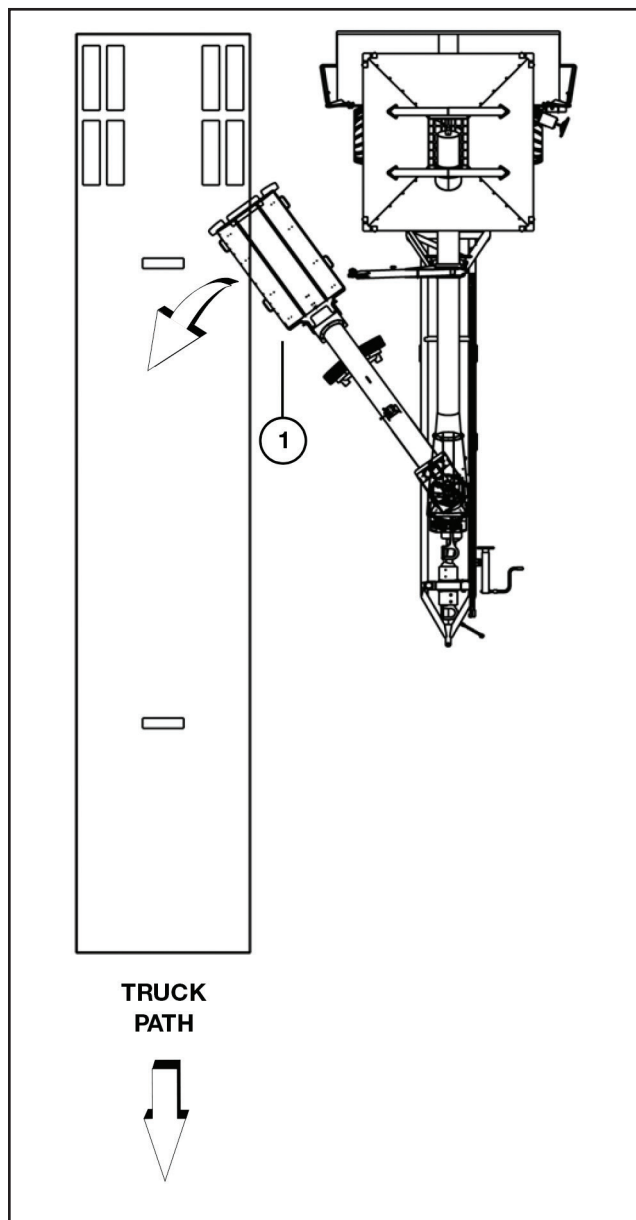
Set-up Instructions

Equipment Positioning

Truck Position



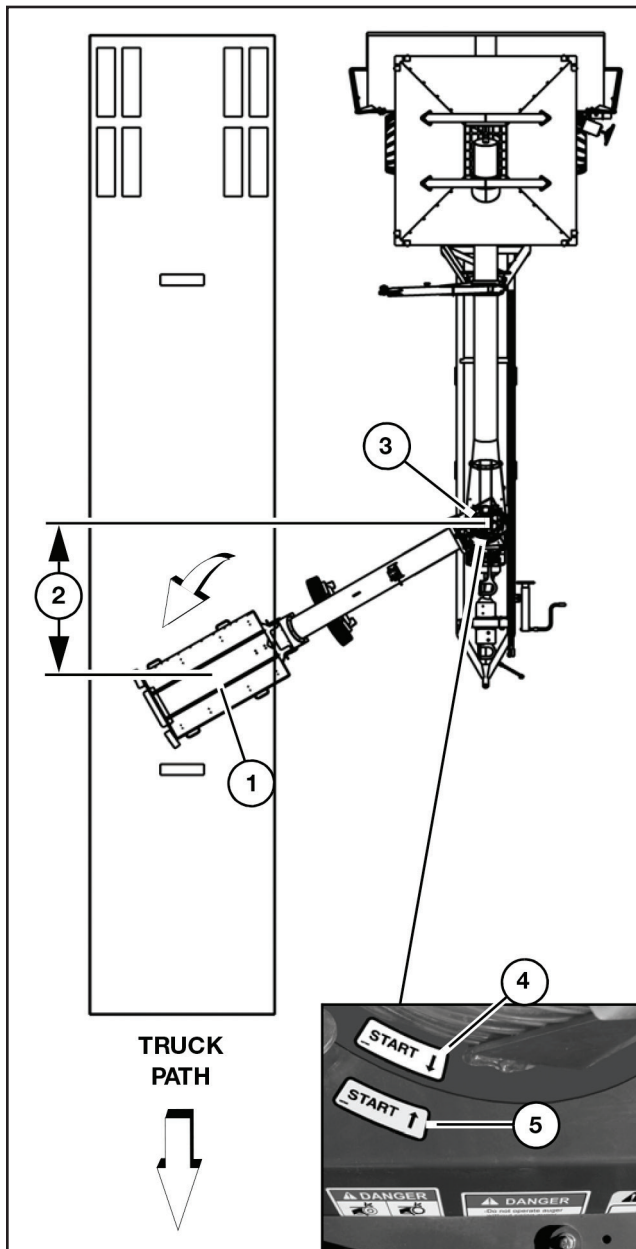
STEP #1 - Align the trailer parallel to and approximately 100 in. (254 cm) (1) from the edge of the truck auger hitch (2).



STEP #2 - Move the trailer forward allowing adequate clearance for the hopper (1) to swing under the trailer.

Equipment Positioning (Cont'd)

Swing Auger/Hopper Position



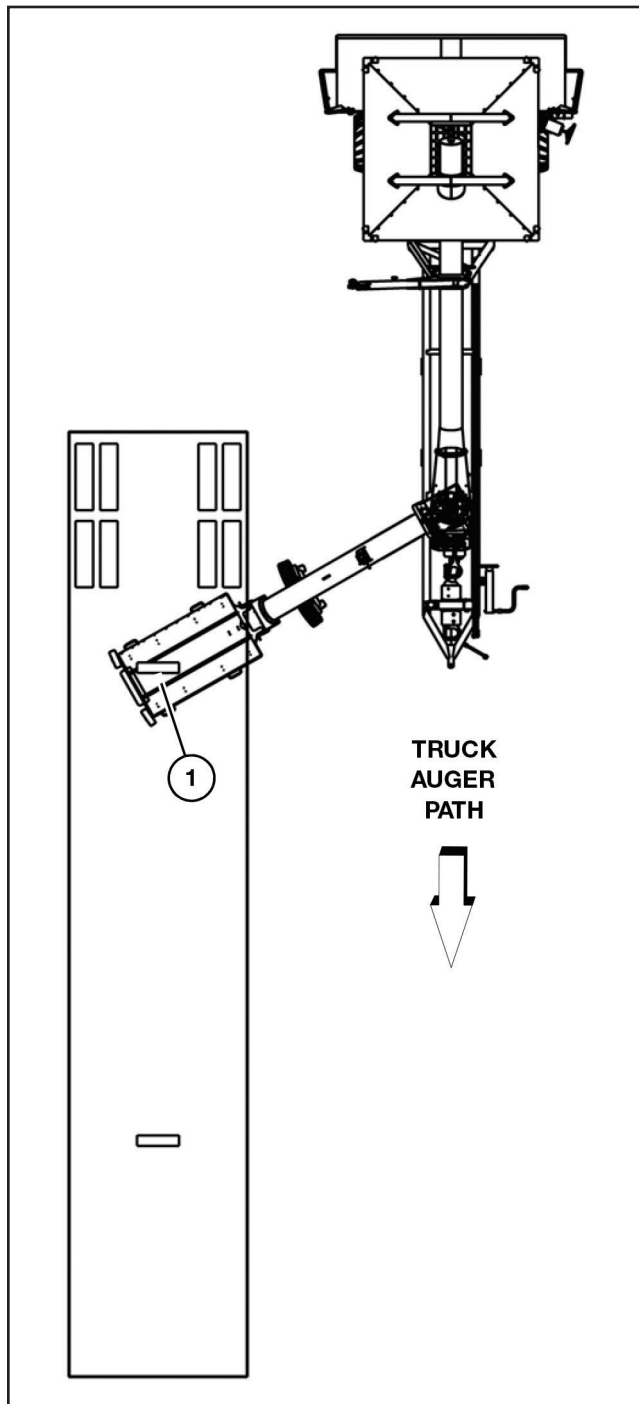
STEP #3 - Swing the hopper under the trailer and position the swing auger as shown. The center of the swing hopper (1) should be approximately 84 in. (213.4 cm) (2) from the swing auger pivot (3). Align the “START” decals on the swing auger (4) and main auger (5).

Set-up Instructions

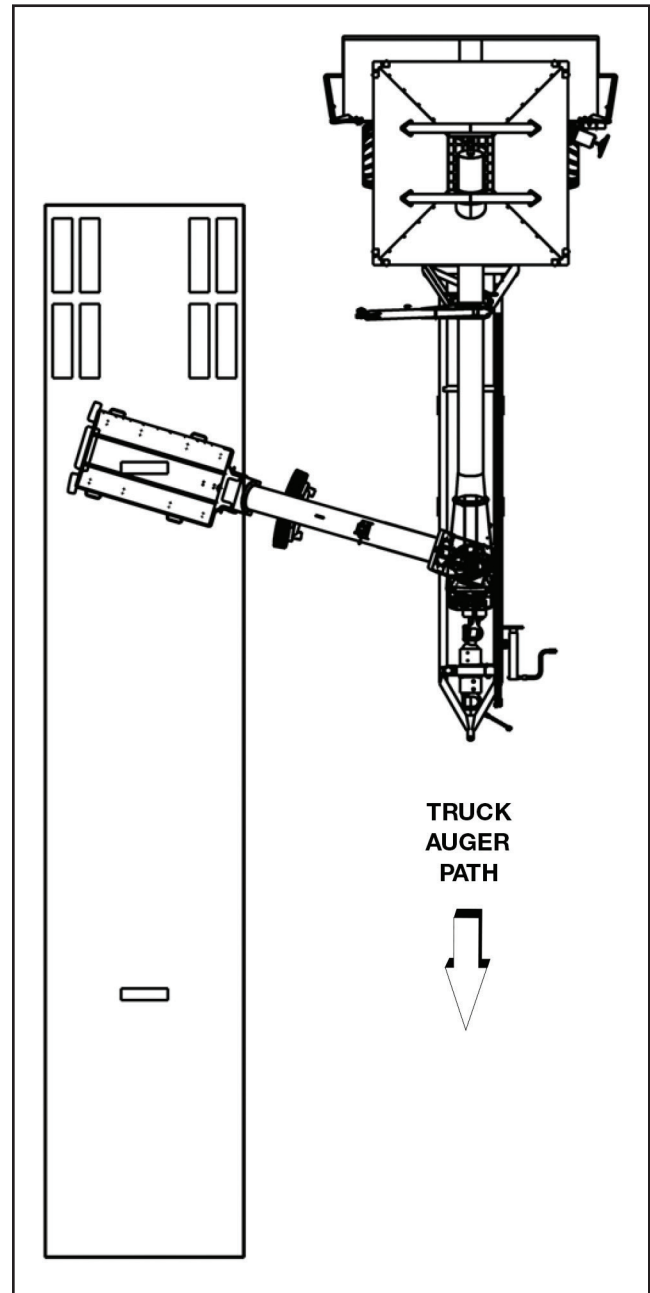
Equipment Positioning (Cont'd)

Rear Compartment Bagging Position

NOTE: The truck auger will move approximately 11 ft. (3.35 m) while the rear trailer compartment is being emptied.



STEP #4 - Move the rear gate (1) of the trailer over the swing hopper.

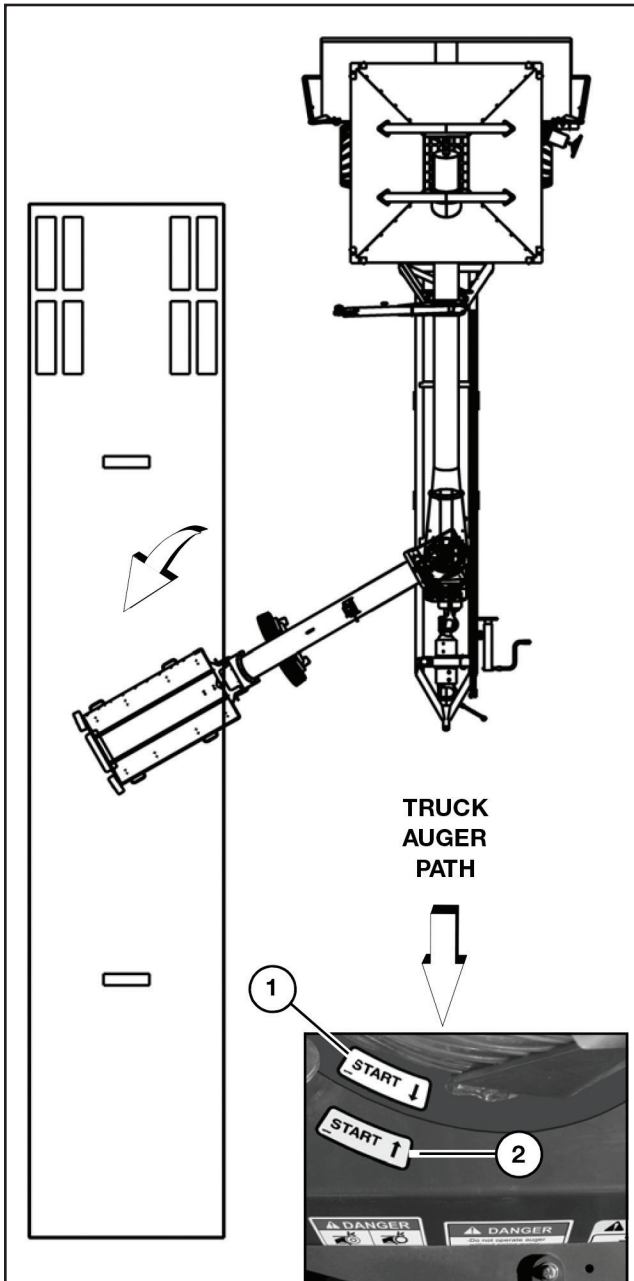


NOTE: The trailer should not have to move while unloading the rear compartment.

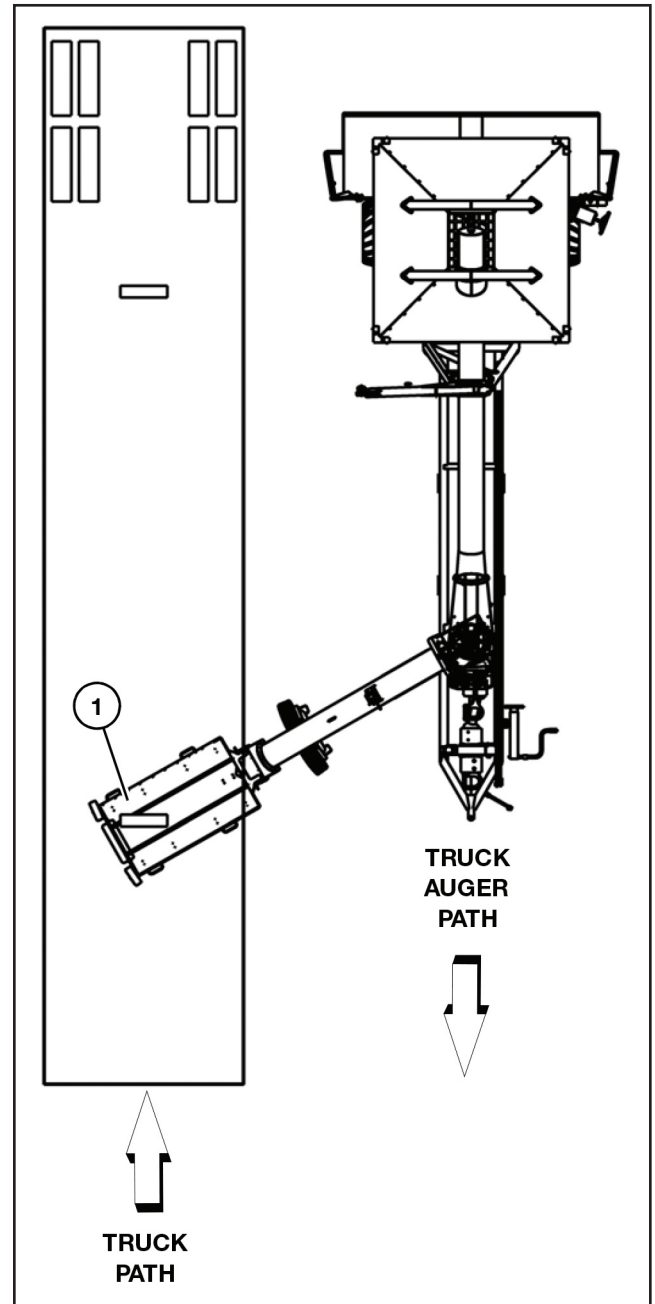
STEP #5 - The truck auger will be positioned forward of the rear compartment gate as shown when the compartment is empty.

Equipment Positioning (Cont'd)

Front Compartment Bagging Position



STEP #6 - Swing the hopper forward and position the swing auger as shown. Align the “**START**” decals on the swing auger (1) and main auger (2).

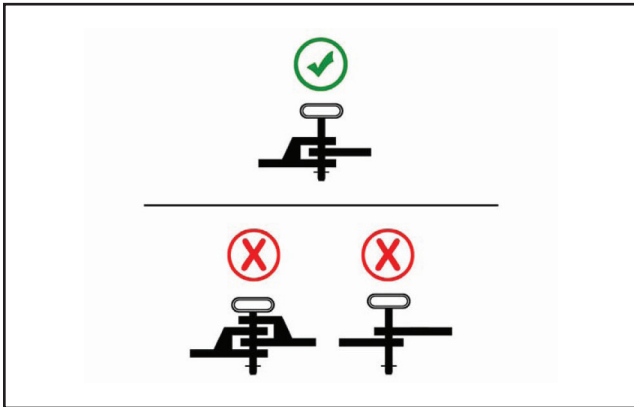


STEP #7 - Move the front gate (1) of the trailer over the swing hopper.

NOTE: The truck auger will move approximately 11 ft. (3.35 m) while the front trailer compartment is being emptied.



Connecting the Grain Bag Loader

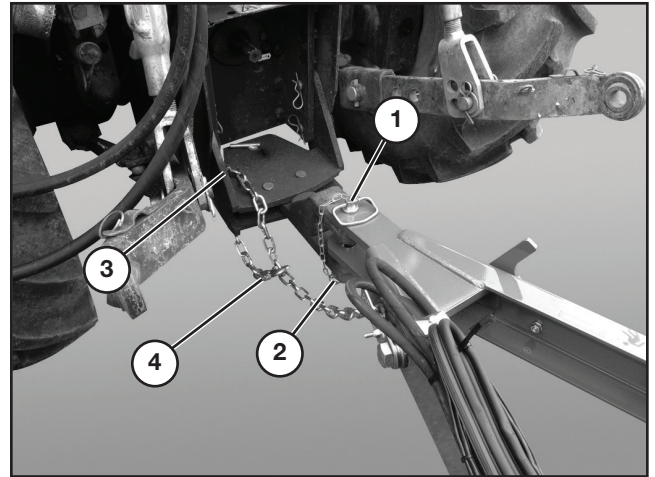


WARNING: *Never use a clevis to clevis type connection to secure the implement to the tractor. The machine could separate from the tractor if a clevis pin fails.*



Safety Chain Requirements:

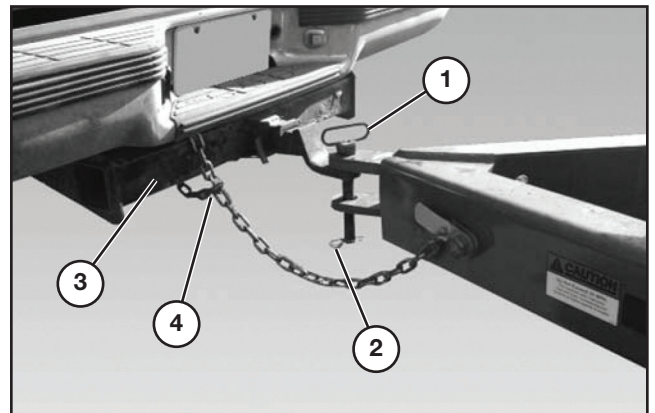
- Verify that the chain has a load rating equal to or greater than the Gross Vehicle weight.
- Allow no more slack in the chain than necessary for articulation.
- Attach the chain to the towing hitch assembly. Do NOT use an intermediate support as a primary method of attachment.
- Verify that the hitch 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.



Back the tractor up to the hitch of the truck auger.

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

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



Back the truck up to the hitch of the truck auger.

Insert pin (1) (1-1/8" to 1-1/4" 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).

Operating Instructions

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. Position a person at the controls of the truck unloading auger to monitor grain flow speed and location of the swing hopper. 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.

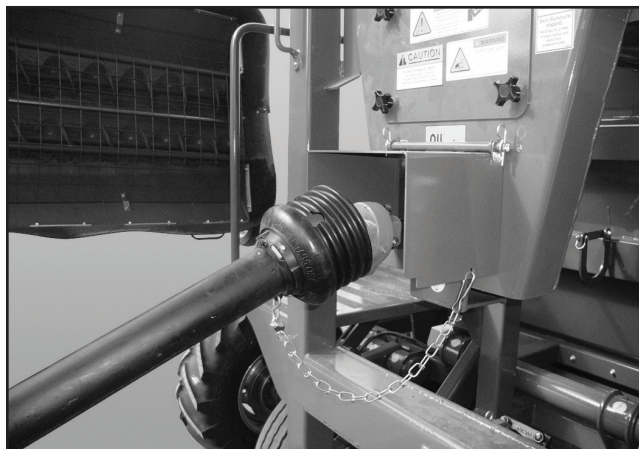


WARNING: Always have an operator in the tractor while the machine is in operation.

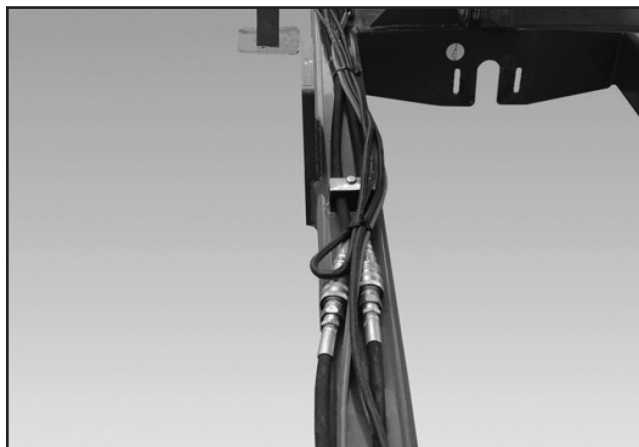


WARNING: The machine requires an operator at all times. Never leave the machine running unattended.

Move the tractor and truck unloading auger into position.



Install the PTO driveshaft from the lower truck unloading auger jackshaft to the grain bag loader.



Connect the cables and hydraulic lines to the extensions.

Connect the hydraulic hoses to the tractor.

Move the hopper wheels up and down. Run the hopper wheels raised in the air for a while to allow for air to purge from the lines. Get comfortable with the speed and operation of the swing hopper mover before using machine under a truck.

Operating Instructions

Operating Procedure

Operation Notes

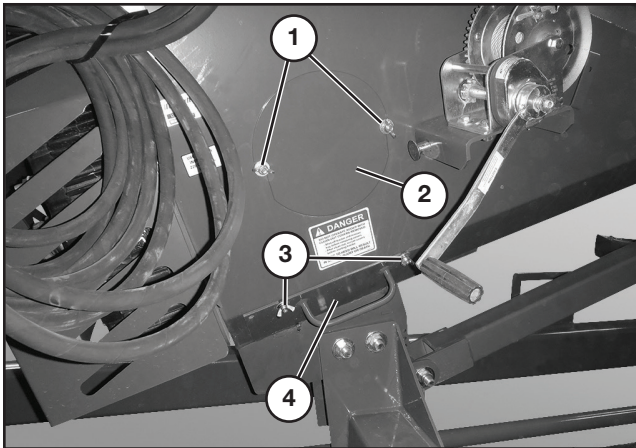
Unplugging An Auger



WARNING: Make sure the tractor is turned off before attempting to unplug the auger. Follow the procedures in this section to avoid serious injury or death.



CAUTION: To avoid damage to the machine, the access doors must be removed before attempting to unplug the auger.

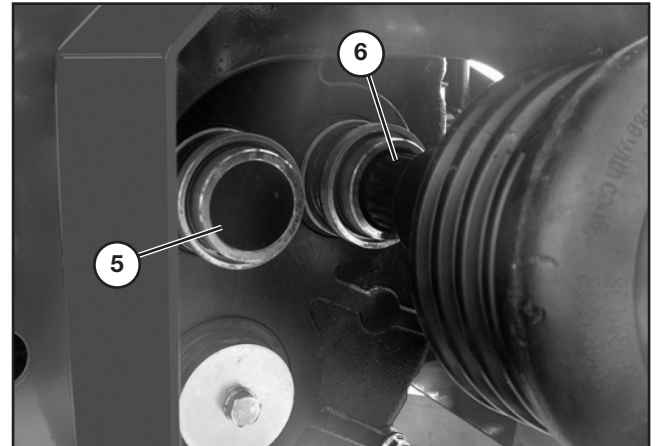
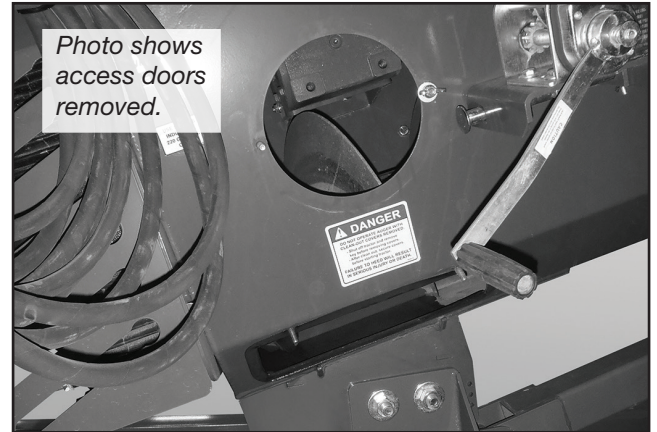


Loosen the two wingnuts (1). Lift up and remove the upper door (2).

Loosen the two wingnuts (3) and lift the lower door (4) off.



IMPORTANT: The upper and lower doors must be removed. Failure to remove both will result in damage to the equipment.



Shaft location (5) will turn the augers backwards.

Disconnect the PTO shaft (6) from the operation (loading) position and install into shaft location (5) to unplug auger(s) if necessary.

Verify that the upper and lower doors have been removed

Start the tractor.

Engage the PTO and run at idle speed to unplug the auger.

Material causing the plug will be discharged from the access doors.



WARNING: To avoid serious injury or death, keep hands and arms away from access doors and auger while unplugging the auger. Do not pull on plugged material while engine is running and PTO is engaged.

(Procedure continued on following page.)

Operating Instructions

Operating Procedure (Cont'd)

Operation Notes (Cont'd)

Disengage the PTO and turn the tractor off.

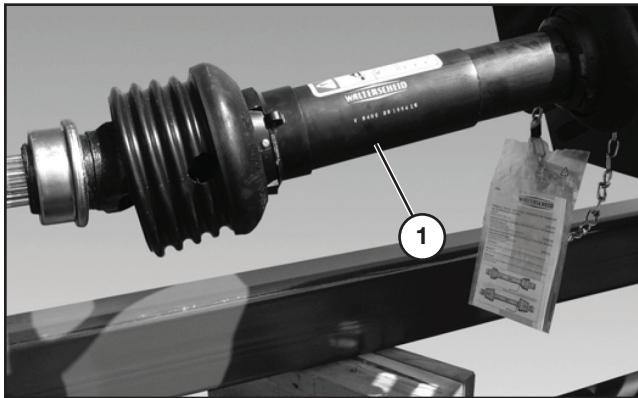


WARNING: Failure to turn the tractor off before disconnecting the PTO shaft and replacing the access doors could result in serious injury or death.

Replace each access door to its proper position, then reinstall and tighten the wingnuts.

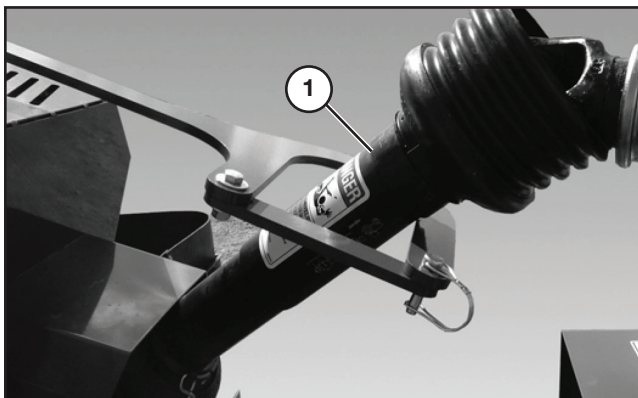
Disconnect the PTO shaft from its location (5) and install back into the operation (loading position) (6).

Loading Grain Directly Into Top Hopper



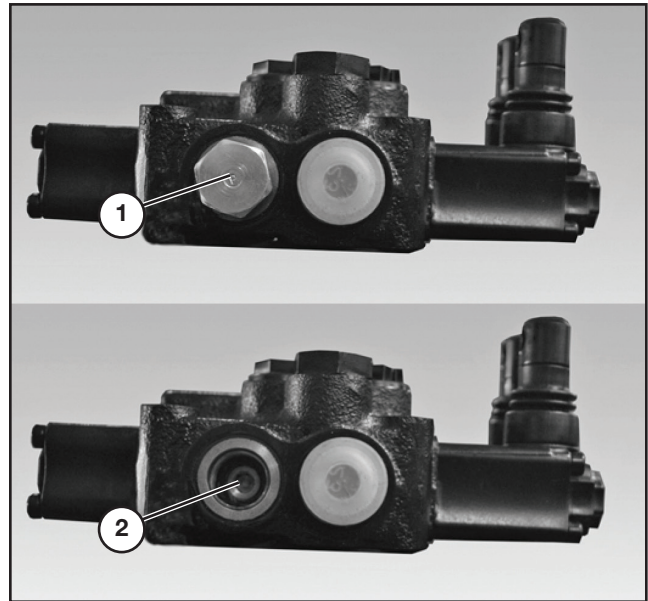
If the truck auger is not being used and the grain will be loaded directly into the top hopper, disconnect this PTO shaft (1).

Storing The Disconnected PTO Shaft



Store the disconnected PTO shaft (1) in this location.

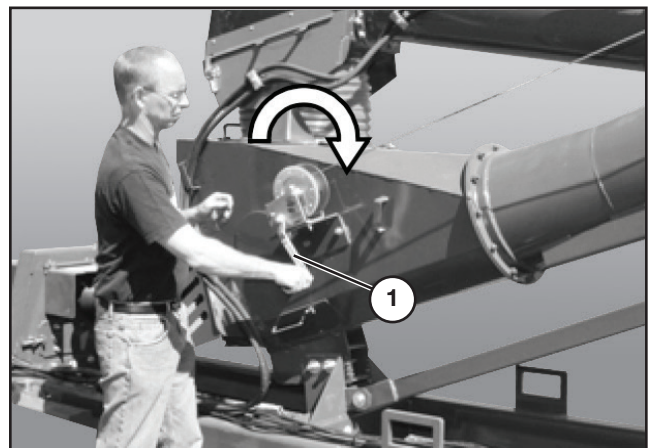
Open Center Hydraulic System Use



NOTE: The hydraulic valve is factory set for use with closed center hydraulic systems.

If the tractor being used has an open center hydraulic system, remove plug (1). Remove inner plug (1/4" BSPP) (2) from hydraulic valve port using a 6mm allen wrench and reinstall plug (1). Retain inner plug for changing back to closed center.

Lowering The Swing Auger



Turn the transport winch (1) clockwise to raise the swing hopper and remove tension from the upper transport chain.

(Procedure continued on following page.)

Operating Instructions

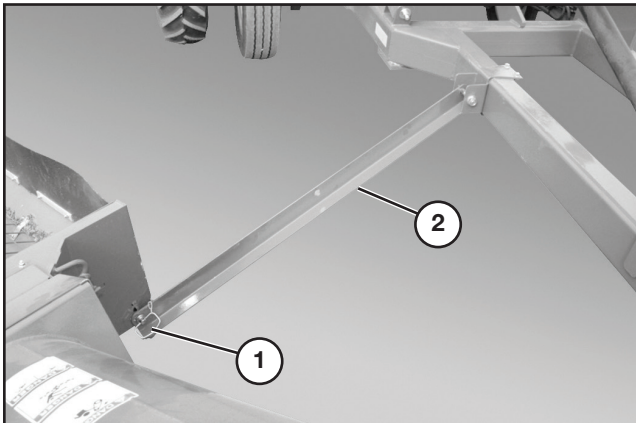
Operating Procedure (Cont'd)

Lowering The Swing Auger (Cont'd)

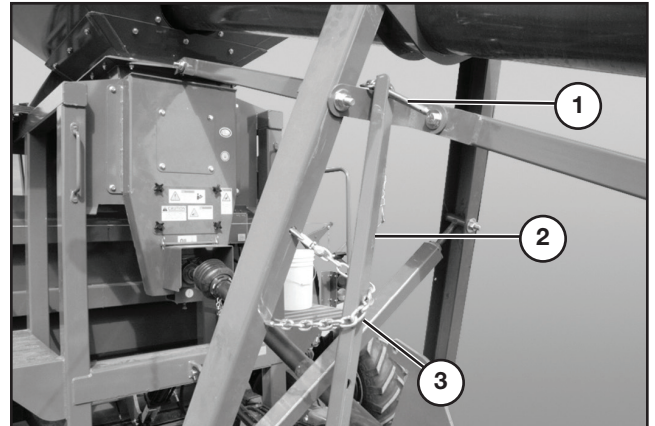


Disconnect the upper transport chain (1).

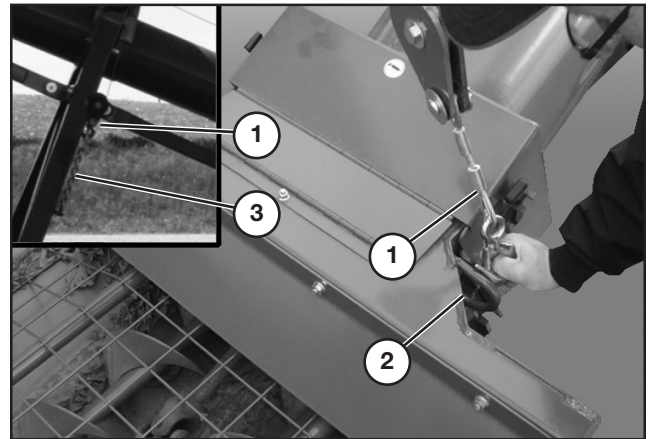
Turn the transport winch counter-clockwise and lower the swing hopper to the ground.



Remove the pin and clip (1) from the brace (2) supporting the swing hopper.



Replace pin and clip (1) into brace (2), and wrap with the lower transport chain (3).



Disconnect the transport winch cable (1) from the swing hopper support ring (2).

Connect the transport winch cable (1) to the lower transport chain (3). Remove slack in the transport winch cable.

Install the auxiliary hydraulic hoses to the tractor.

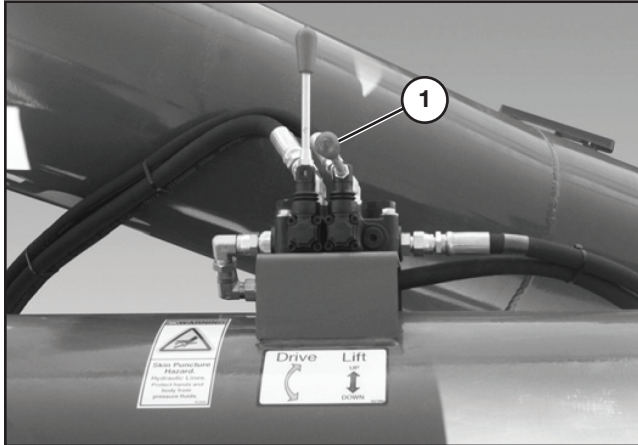
Start the tractor engine and engage auxiliary hydraulics.

Operating Instructions

Operating Procedure (Cont'd)

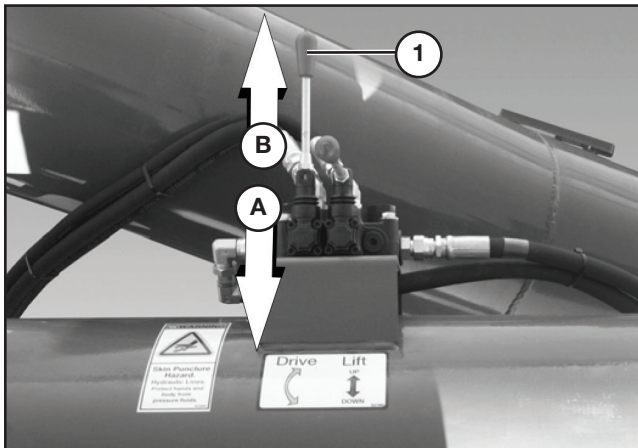
Swing Hopper Controls

Up And Down Movement



Push up on lever (1) to raise the swing hopper. Push down on the lever to lower the swing hopper.

Left And Right Movement



Move lever (1) in (A) (towards operator) to move the swing hopper to the left. Move the lever out (B) (away from operator) to move the swing hopper to the right.

Loading The Grain Bag



Align "START" decals.



Align the rear compartment of the trailer over the swing hopper.

Engage the tractor PTO slowly to start auger rotation.

NOTE: Always engage the PTO at idle speed to prevent unnecessary stress to the driveline.



WARNING: Do not exceed 1000 RPM PTO speed.

Operating Procedure (Cont'd)

Loading The Grain Bag (Cont'd)



Slowly open the rear compartment door.

Adjust door opening until the augers can move the grain from the swing hopper to the top (main) hopper without over-flowing the swing hopper.



WARNING: *Never step over or crawl around the equipment while the PTO is engaged; entanglement could occur.*

Once the rear compartment is emptied, disengage the PTO and close the compartment door.

Align "START" decals.

Align the front compartment of the trailer over the swing hopper.

NOTE: *Engage the tractor PTO slowly to start auger rotation.*



WARNING: *Do not exceed 1000 RPM PTO speed.*

Slowly open the front compartment door.

Adjust door opening until the augers can move the grain from the swing hopper to the top (main) hopper without over-flowing the swing hopper.

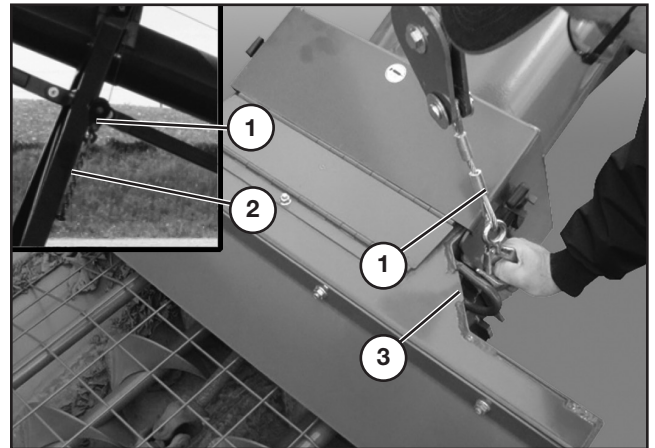
Once the front compartment is emptied, disengage the PTO and close the compartment door.

Move the swing hopper out from under the trailer.

Disengage the tractor auxiliary hydraulics and turn engine "OFF".

Switching to Transport Position

Disengage the tractor PTO.

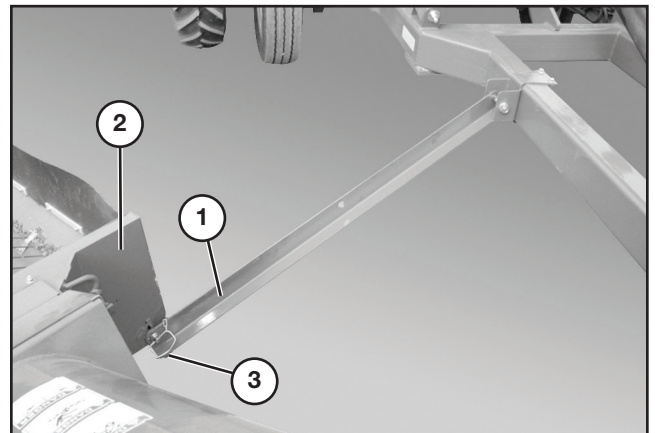


Move the swing hopper towards the rear of the machine.

Turn the transport winch counter-clockwise to release the tension on the transport winch cable.

Disconnect the transport winch cable (1) from the lower transport chain (2).

Connect the transport winch cable (1) to the swing hopper support ring (3).



Remove the free end of the brace (1) from the storage position and secure to the swing hopper (2) with pin and clip (3).

(Procedure continued on following page.)

Operating Instructions

Switching to Transport Position (Cont'd)



Turn the transport winch (1) clockwise to raise the swing hopper until the upper transport chain can be connected.



Connect the upper transport chain (1) to the swing hopper support ring (2).

Turn the transport winch counter-clockwise to lower the swing hopper until the tension is off the transport winch cable.

See the grain bag loader manual for detailed information on placing the grain bag loader into the transport position.



Transporting the grain bag loader/truck auger.



WARNING: Be sure the machine is in the transport position before transporting on a roadway.



WARNING: Do not exceed speed rating (20 mph [32 km/h]) on the factory provided tires.

General Maintenance

See "Maintenance Safety" on page 5 before performing any service or maintenance on the truck unloading auger.



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.

Maintenance Schedule

HOURS	SERVICE POINTS	SERVICE REQUIRED	PAGE #
		CHECK	
Every 8	Hopper Drive Chain Tightness	X	46
	Main Drive Chain Tightness	X	47
Every 50	Lower Gearbox	X	44
	Upper Gearbox	X	44
	XLB10 Gearbox	X	44
	Bearing Set Screws	X	40
	Sprocket Set Screws	X	40
	Safety Labels	X	6
Every 100	Hoses and Wiring	X	5
	Oil Leaks	X	5
	Main Auger Helical Gearbox	X	45

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. Main Auger Helical Gearbox - Use non-synthetic industrial 220 gear oil.
3. The Lower And Upper Gearboxes - Require EP90 gear oil.
4. 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



WARNING: Do not lubricate parts while the machine is running.

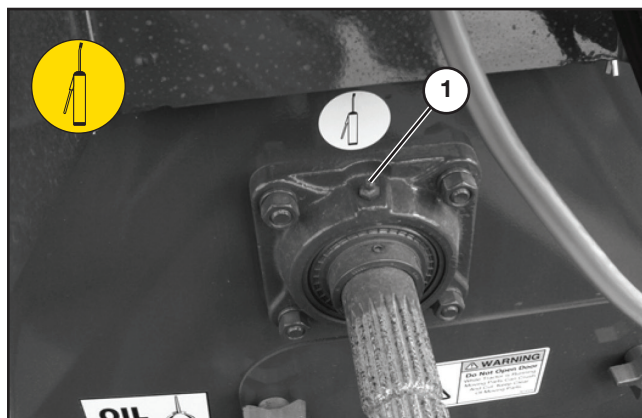
Use an SAE multipurpose high temperature grease with extreme-pressure (EP) rating.

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

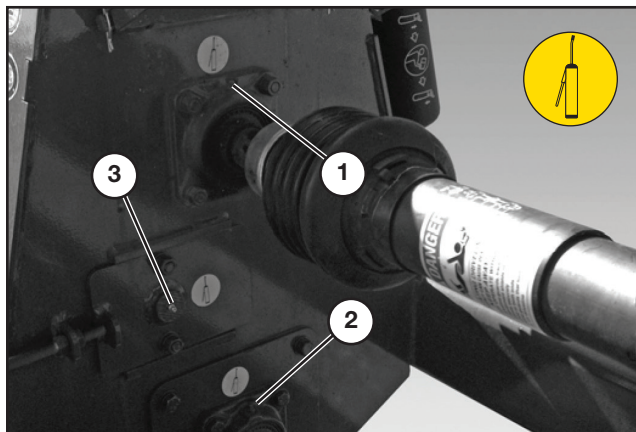
NOTE: See “Truck Unloading Auger Identification” on page 13 for component location and identification.



Location: Main driveline bearing (1).
Interval: Every 8 hours of operation.



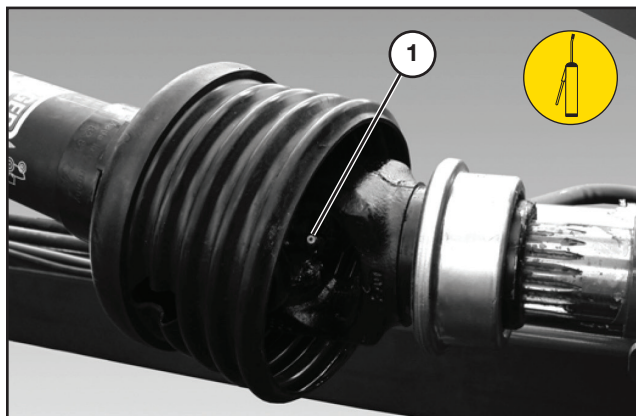
Location: PTO front drive bearing (1).
Interval: Every 8 hours of operation.



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

Location: Driveline bearing (2).
Interval: Every 8 hours of operation.

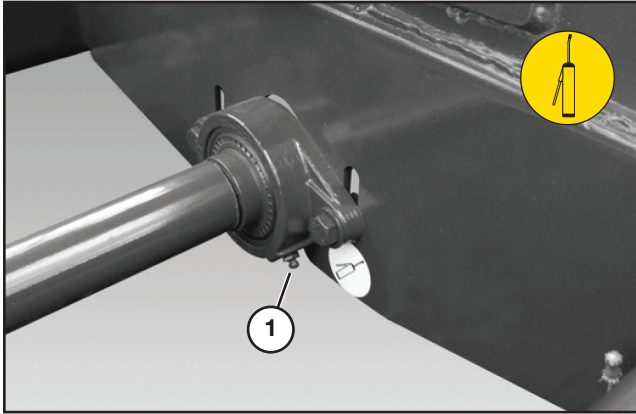
Location: Auger drive tightener (3).
Interval: Every 8 hours of operation.



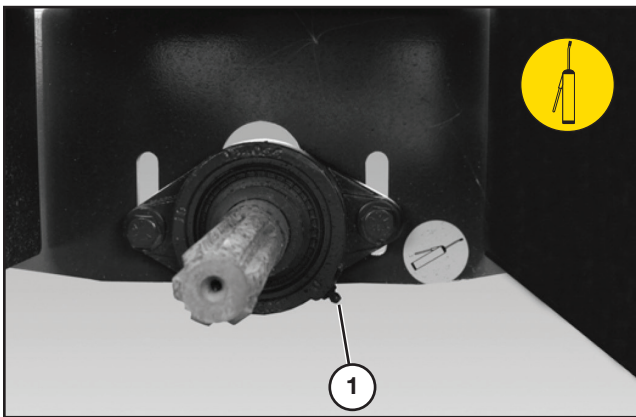
Location: PTO u-joints (1) (both ends on both PTO drivelines).
Interval: Every 8 hours of operation.

Lubrication (Cont'd)

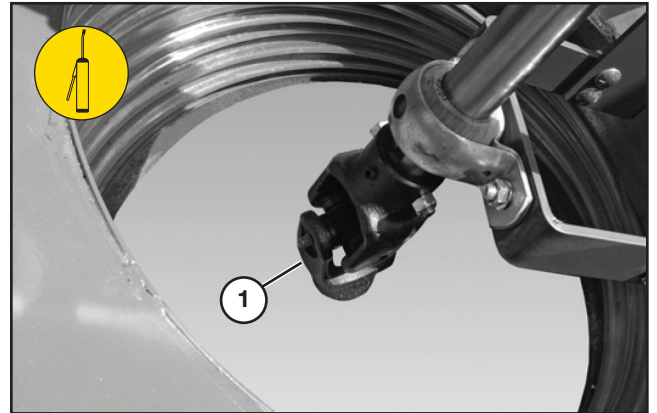
Grease Points (Cont'd)



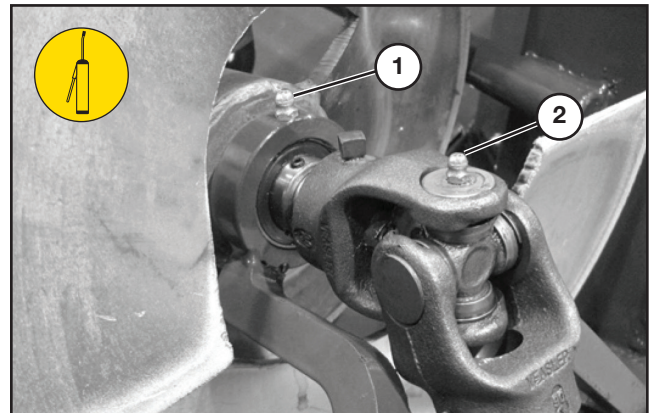
Location: Driveline bearing (1)
Interval: Every 8 hours of operation.



Location: Driveline bearing (1).
Interval: Every 8 hours of operation.



Location: Swing u-joint (1).
Interval: Every 8 hours of operation.

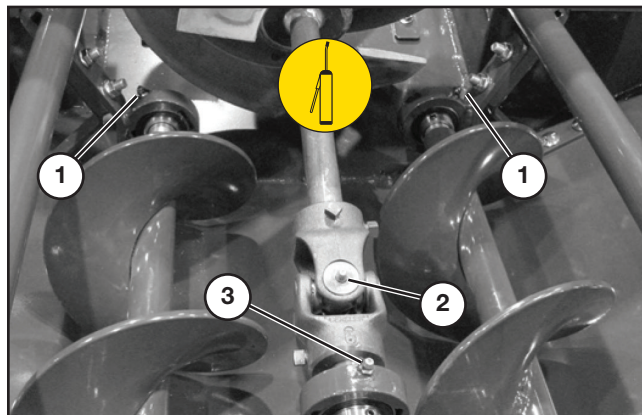


Location: Transition mount (1) and u-joint (2).
Interval: Every 8 hours of operation.

Maintenance

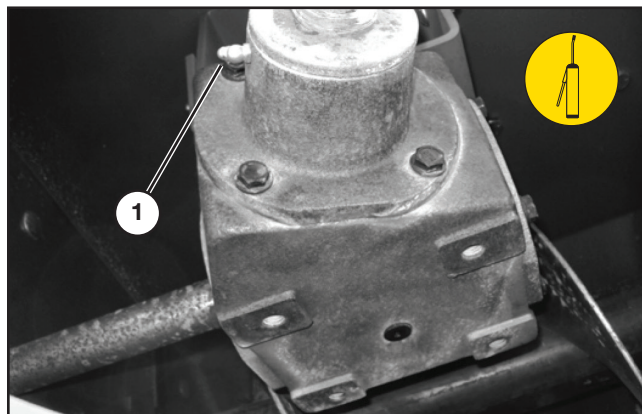
Lubrication (Cont'd)

Grease Points (Cont'd)



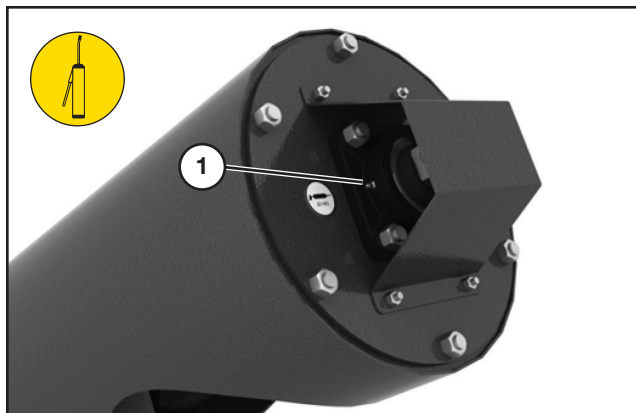
Location: Flight hanger (1), u-joint (2) and hopper drive shaft mount (3).

Interval: Every 8 hours of operation.



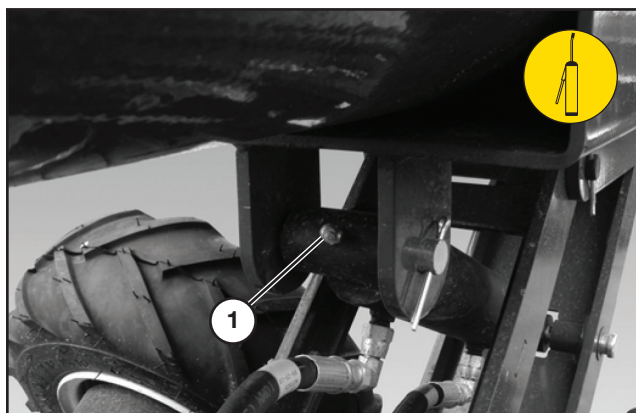
Location: Main auger gearbox (1).

Interval: Every 50 hours of operation or annually.



Location: Main auger end (1).

Interval: Every 8 hours of operation.



Location: Swing cylinder base end (1).

Interval: Every 50 hours of operation.

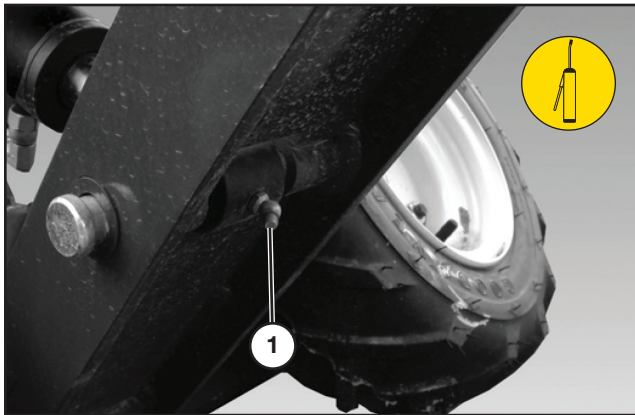


Location: Auger bearing (1).

Interval: Every 8 hours of operation.

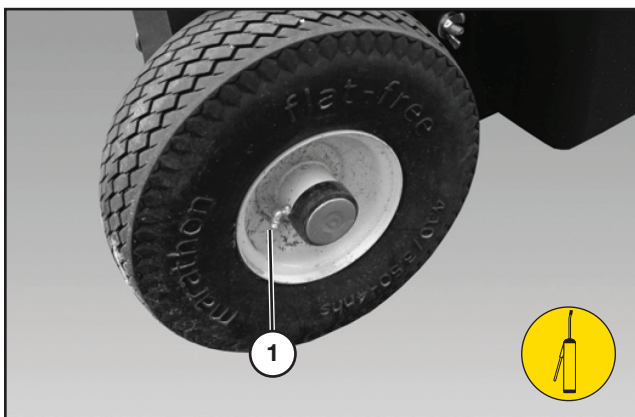
Lubrication (Cont'd)

Grease Points (Cont'd)



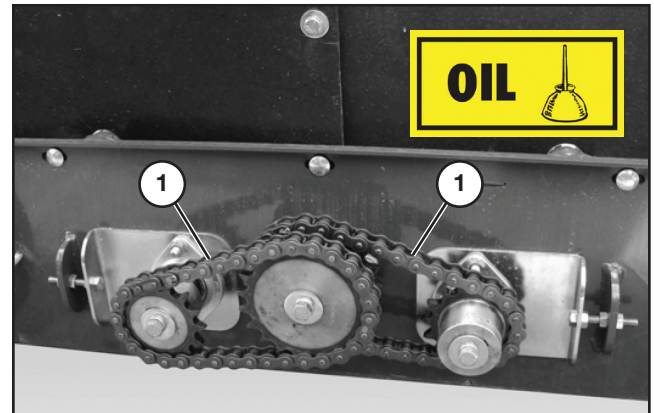
Location: Swing cylinder rod end (1).

Interval: Every 50 hours of operation.



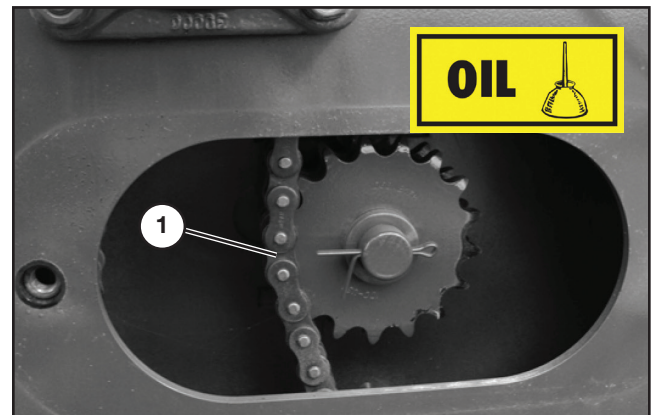
Location: Hopper tires (1).

Interval: Every 50 hours of operation or annually.



Location: Hopper chains (1). 30W oil or chain lubricant

Interval: Every 40 hours of operation.



Location: Drive chain (1). 30W oil or chain lubricant.

Interval: Every 40 hours of operation.

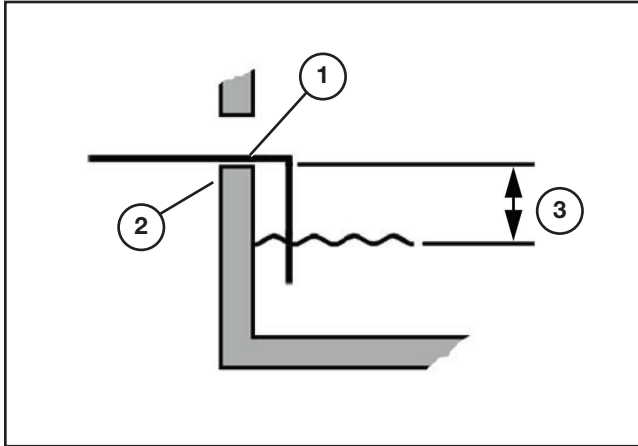
Maintenance

Gearbox

Checking Gearbox Oil Levels

NOTE: Always check the gearbox oil levels with the truck auger in the transport or working position.

Use the following procedure for the upper gearbox only.



Bend a piece of wire (1) at a 90° angle. Place a mark on the wire bend at the desired height.

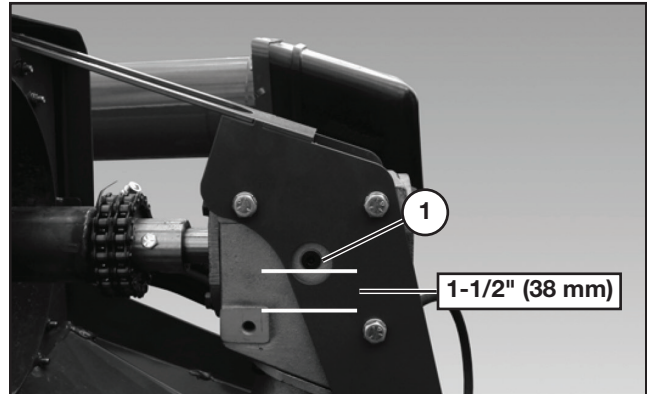
- **Upper Gearbox Oil Level** - 1-1/2 in. (38 mm) below the fill hole.

Insert the wire into the gearbox. Rest the wire on the bottom (2) of the fill hole and wire pointing downward.

Remove the wire. If the oil level (3) is below the mark on the wire, add gear oil to the correct level.

Upper Gearbox

NOTE: Check gear oil level every 50 hours of operation or annually.



Remove the plug (1) from the gearbox.

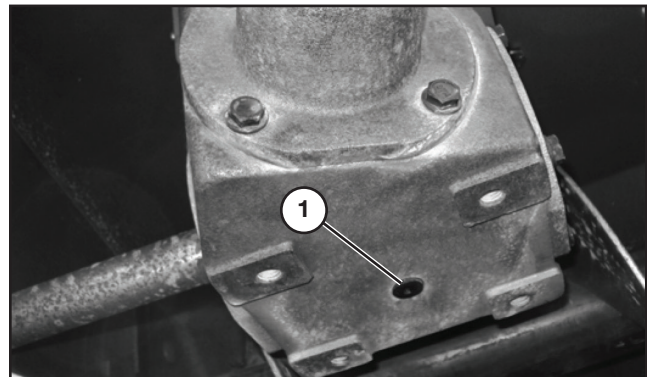
The gear oil should be approximately 1-1/2 in. (38 mm) below the bottom of the fill hole.

Add gear oil (if necessary) to the correct level and install plug.

NOTE: The upper gearbox requires 24 oz. (710 ml) of EP90 gear oil.

Lower Gearbox

NOTE: Check gear oil level every 50 hours of operation or annually.



Remove the plug (1) from the gearbox.

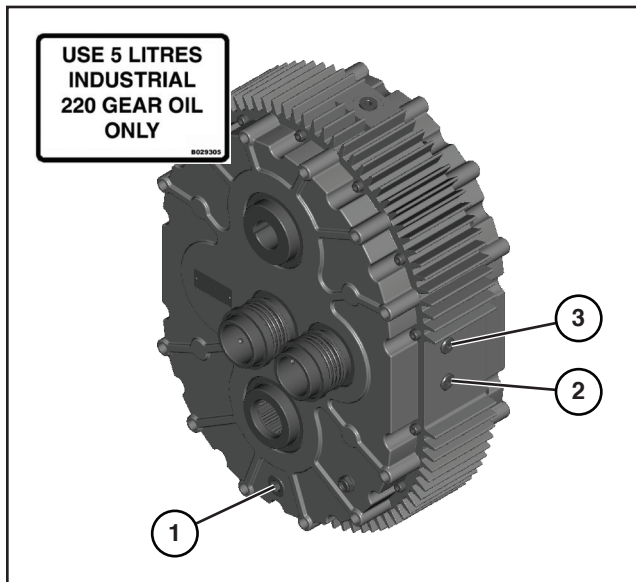
The gear oil should be level with the bottom of the fill plug hole (1).

Add gear oil (if necessary) to the correct level and install plug.

NOTE: The lower gearbox requires 24 oz. (710 ml) of EP90 gear oil.

Gearbox (Cont'd)

Main Auger Helical Gearbox



NOTE: Check the main auger helical gearbox oil level every 100 hours.

The gear oil should be level with the bottom of the level plug hole (2).

Add gear oil (if necessary) to the correct level and install plug.

Flush the main auger helical gearbox after the first 50 hours of operation and every 500 hours thereafter.

Flushing The Main Auger Helical Gearbox



IMPORTANT: Fluid such as engine oil, hydraulic fluid, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, Provincial, and federal regulations for the correct disposal.

Remove the plug (1) and fill plug (3). Drain and flush the gearbox.

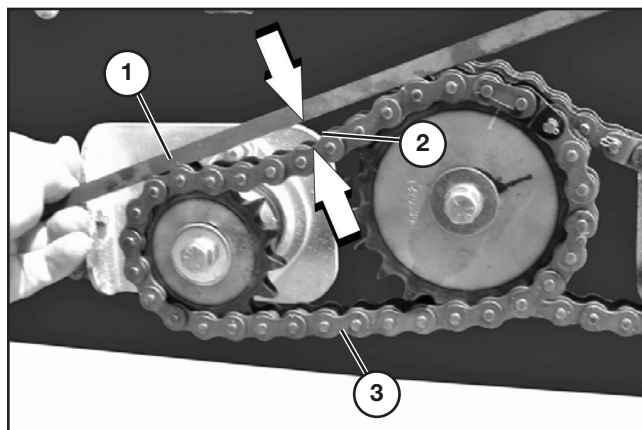
Install plug (1). Remove the level plug (2). Add 169 oz. (5 L) of non-synthetic 80-90w oil. Install plug (2) and fill plug (3).

NOTE: 80-90w oil is equivalent to 220 gear oil.

Maintenance

Hopper Drive Chain

Checking Hopper Drive Chain Tension

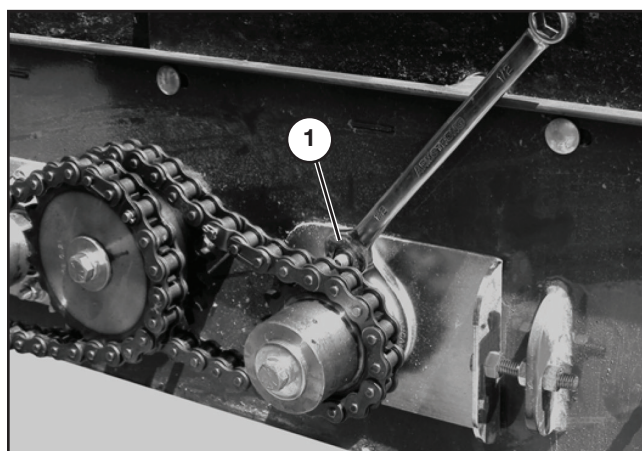


Remove hopper chain guard.

Place a straight edge (1) across the two sprockets and chain.

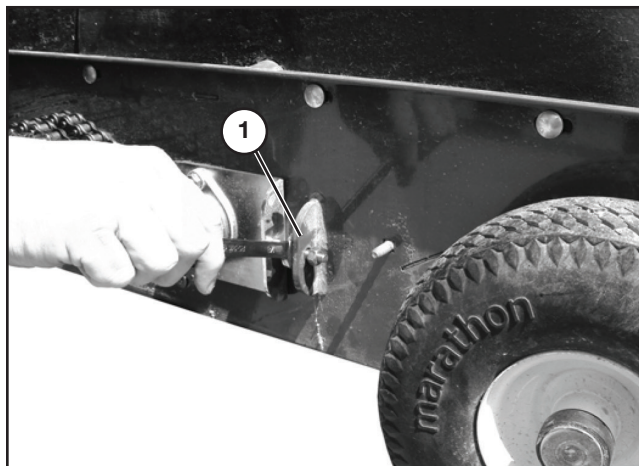
There should be approximately 3/8 in. (9.52 mm) deflection in the top section (2) of the chain and no sag at the bottom section (3). Adjust if necessary.

Adjusting Hopper Drive Chain Tension

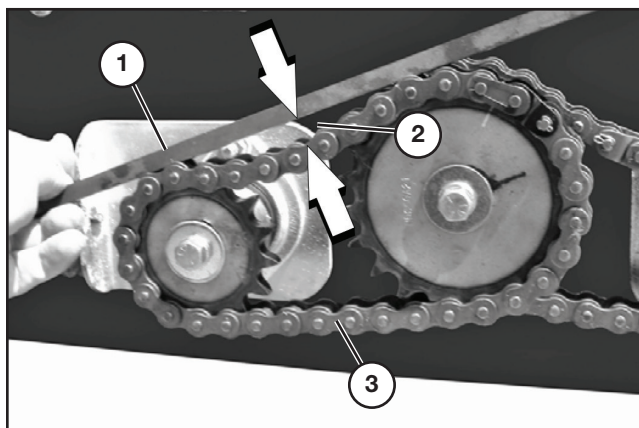


Remove hopper chain guard.

Loosen the two bearing bolts (1).



Loosen the two jam nuts (1) on the adjuster(s).



Place a straight edge (1) across the two sprockets and chain.

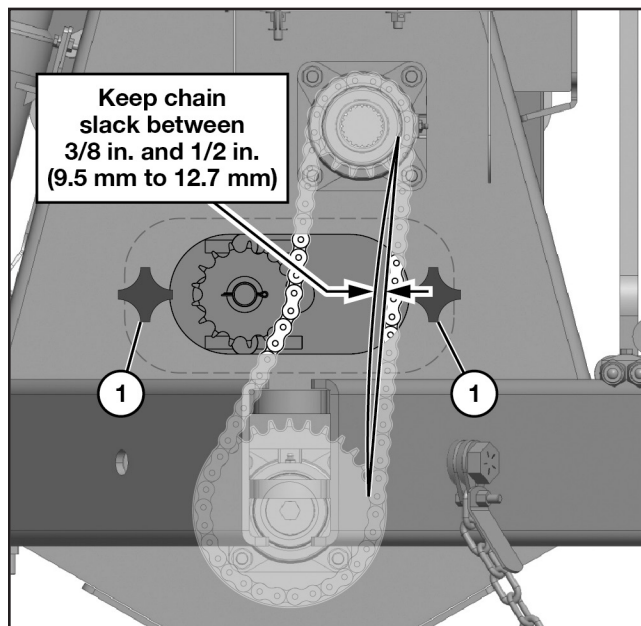
Adjust the chain tension until there is approximately 3/8 in. (9.52 mm) deflection in the top section (2) of the chain and no sag at the bottom section (3).

Once the drive chain tension has been adjusted, tighten the two jam nuts and two bearing bolts.

Repeat procedure for second drive chain.

Main Drive Chain

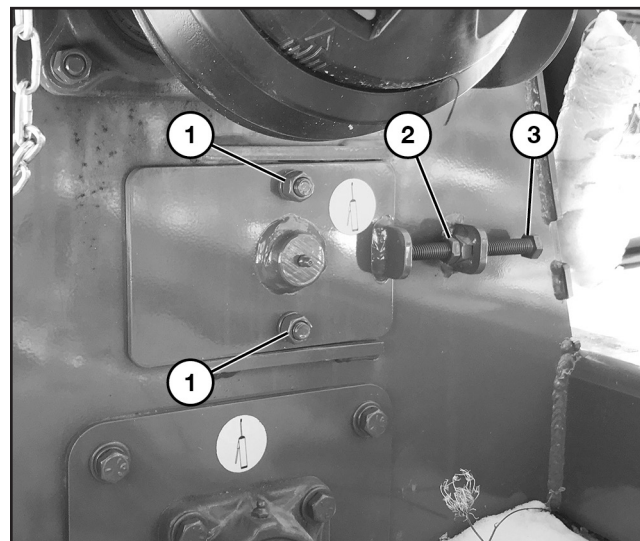
Checking Main Drive Chain Tension



Remove main chain cover by loosening and removing the two knobs (1).

The chain should move no more than 3/8 in. to 1/2 in. (9.5 mm to 12.7 mm) when pressure applied at the midpoint.

Adjusting Main Drive Chain Tension



From the opposite side of the drive housing, loosen the two bracket bolts (1) and the jam nut (2).

Turn the adjustment bolt (3)

Clockwise to increase chain tension.

Counterclockwise to decrease chain tension.

The chain should move no more than 3/8 in. to 1/2 in. (9.5 mm to 12.7 mm) when pressure applied at the midpoint.

When correct tension is achieved, retighten the two bracket bolts and the jam nut.

Return the chain cover to its position and secure with the two knobs.

Maintenance

Troubleshooting

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

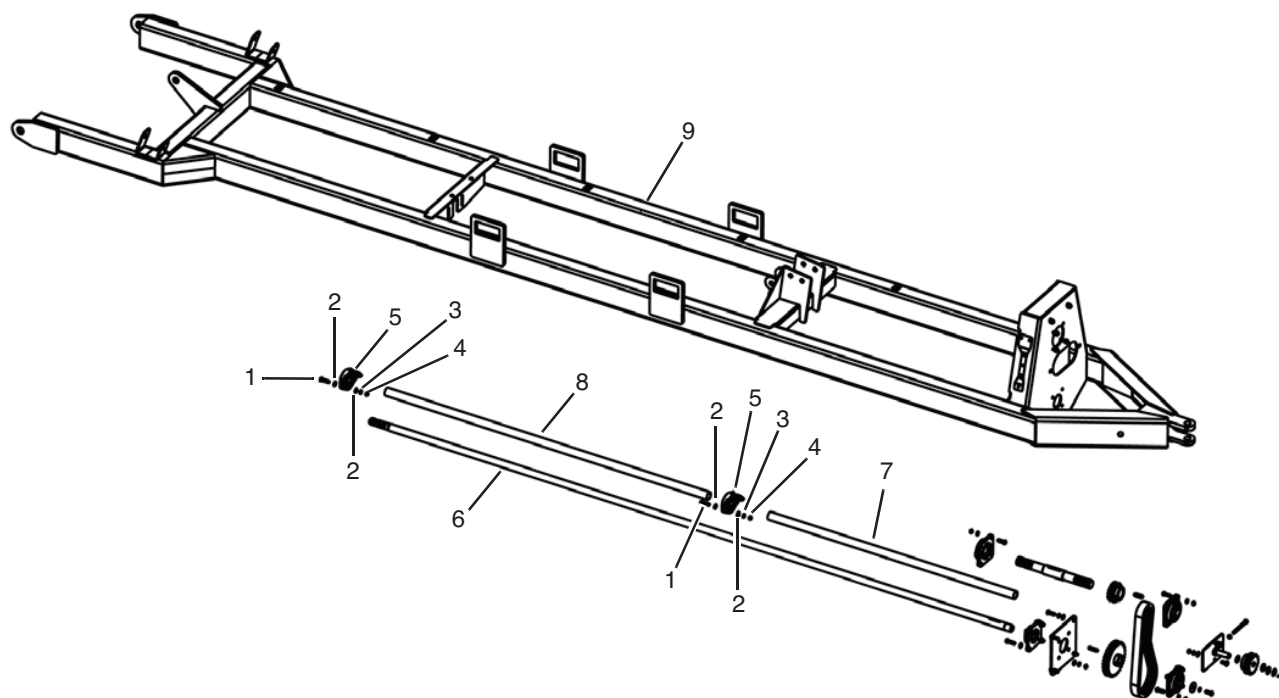
PROBLEM	POSSIBLE CAUSE	SOLUTION
PTO driveline vibration.	PTO driveline loose or worn.	Check the PTO driveline connections, tighten or repair if necessary.
	PTO driveline u-joints dry.	Lubricate the u-joints.
Oil discharging from gearbox.	Gearbox overfilled.	Check oil level. See “Checking Gearbox Oil Levels” on page 44.
Chains on swing hopper noisy.	Chains are dry.	Lubricate chains.
	Chains are too tight.	Adjust chain tension. See “Adjusting Hopper Drive Chain Tension” on page 46.
	Chains are loose.	Adjust chain tension. See “Adjusting Hopper Drive Chain Tension” on page 46.
Auger transition bearings are hot.	Universal joint out of alignment.	Align Universal joint. See “Hopper/Tube Assembly” on page 23.
Swing hopper control valve not working.	Tractor equipped with open-center hydraulics.	Convert valve to open center hydraulics.
Swing hopper does not move left or right.	Plugged orifice.	Clean orifice. See “Hydraulic Diagram”, item 16, on page 71 for part location and identification.
Swing hopper does not lower or raise.	Worn seals in cylinder.	Replace cylinder.
Swing hopper augers contacting hopper.	Bearing eccentric collars are loose.	Tighten eccentric collars. Turn clockwise to tighten.
	Brass bushing on support are worn.	Replace brass bushings.



PARTS IDENTIFICATION AND HYDRAULIC SCHEMATICS



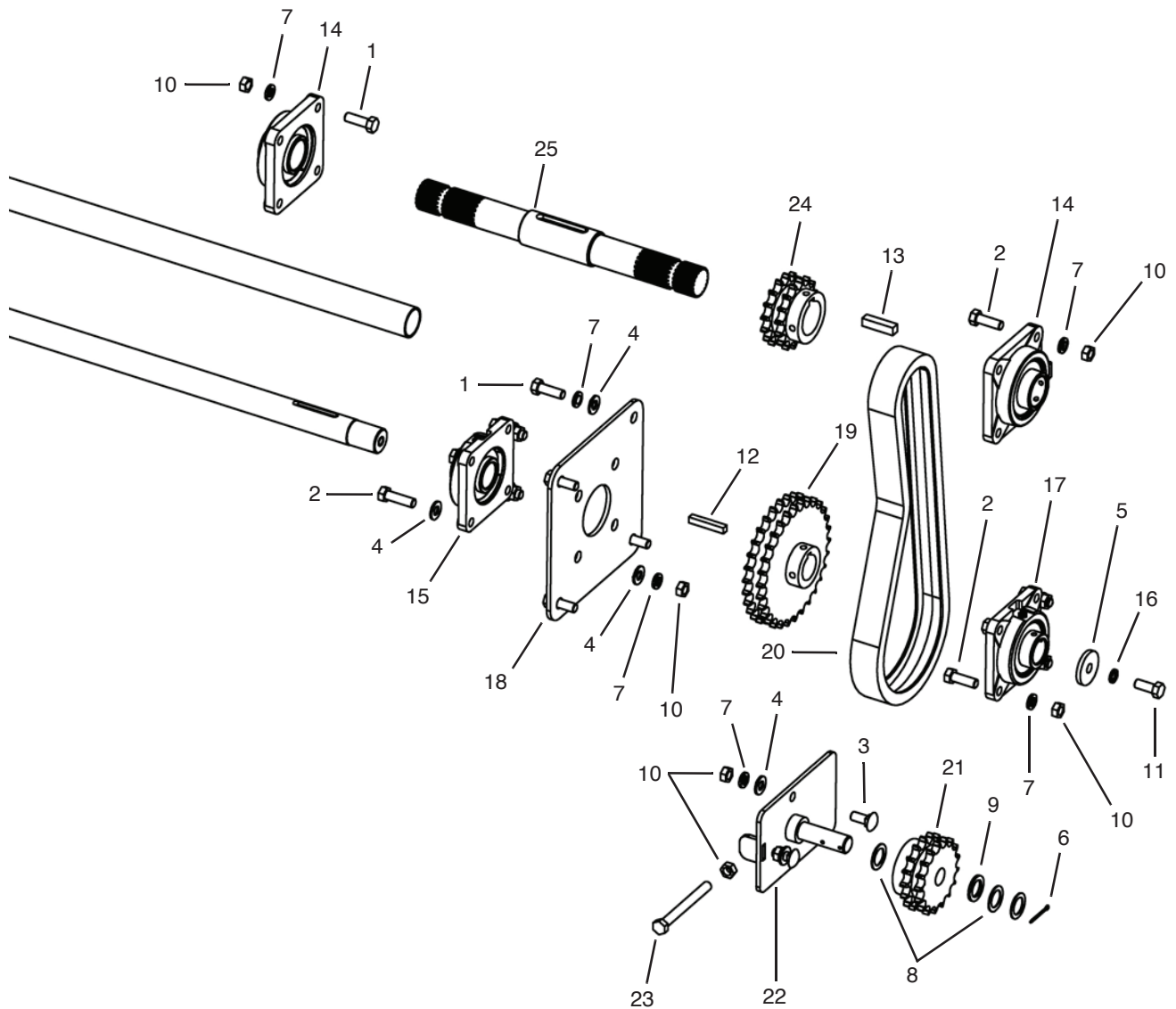
Bottom Frame Assembly



#	QTY.	PART #	DESCRIPTION
1	4	4014	BOLT, 1/2" x 1 - 3/4" GRADE 5
2	8	4068	WASHER, 1/2" SAE FLAT
3	4	4155	WASHER, LOCK 1/2"
4	4	4250	NUT, STANDARD 1/2"
5	2	N30230	BEARING, 1 - 1/2" DODGE 2BLT FLG
6	1	N33270	SHAFT, GBL TRUCK AUGER FRAME BTM
7	1	N27620	GUARD, GBL AUG FRM DRV SFT SHT
8	1	N27621	GUARD, GBL AUG FRM DRV SFT LG
9	1	N27769	FRAME, GBA MECH SWING AUGER

Parts Identification

Bottom Frame Drive Assembly

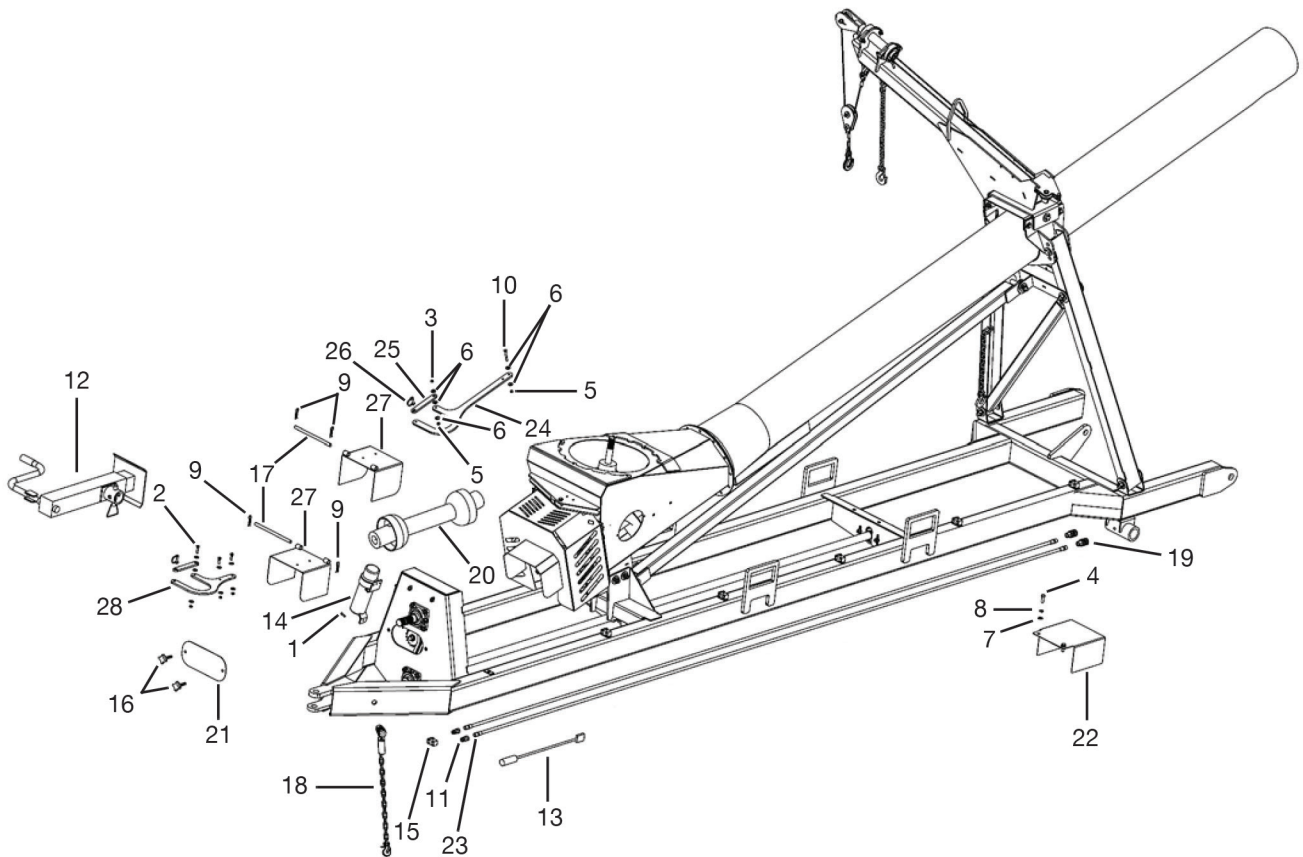


Bottom Frame Drive Assembly

#	QTY.	PART #	DESCRIPTION
1	4	4012	BOLT, 1/2" x 1 - 1/4" GRADE 5
2	16	4013	BOLT, 1/2" x 1 - 1/2" GRADE 5
3	2	4038	BOLT, CARRIAGE 1/2" x 1 - 1/4"
4	14	4068	WASHER, 1/2" SAE FLAT
5	1	4074	WASHER, 2" OD x 1/2" ID x 1/4"
6	1	4099	PIN, COTTER 1/8" x 1 - 1/2"
7	22	4155	WASHER, LOCK 1/2"
8	3	4157	WASHER, 1" ID THIN SPACER
9	1	4158	WASHER, 1" ID THICK SPACER
10	19	4250	NUT, STANDARD 1/2"
11	1	4535	BOLT, 1/2" x 1 - 1/4" GR 8 FINE THRD
12	1	7121 - 07	KEY, 3/8" x 2 - 1/2"
13	1	7122 - 06	KEY, 1/2" x 2 - 1/2"
14	2	N30233	BEARING, 1 3/4" DODGE 4BLT FLG
15	1	N30229	BEARING, 1 - 1/2" 4 - BOLT FLG DODGE
16	1	N16472	WASHER, 1/2" NORDLOCK
17	1	N30228	BEARING, 1 - 7/16" DODGE 4 BOLT
18	1	N27407	PLATE, GBL AUGER FRM BEARING
19	1	N27475	SPROCKET, 60B30 DOUBLE 1 - 1/2" RB
20	1	N27476	CHAIN, 60 DOUBLE 66 PITCH
	1	N1833	LINK, #60 DOUBLE CHAIN CONNECTOR
21	1	N27477	SPROCKET, IDLER 60B17 DOUBLE
22	1	N27478	BRACKET, GBL AUG FRM DRV TGHT
23	1	N27483	BOLT, 1/2" x 5" FULL THREAD GR 5
24	1	N27893	SPROCKET, 60B16 DOUBLE 2" RB
25	1	201075	SHAFT, GBA FRAME TOP SPLINED

Parts Identification

Main Auger Base Assembly

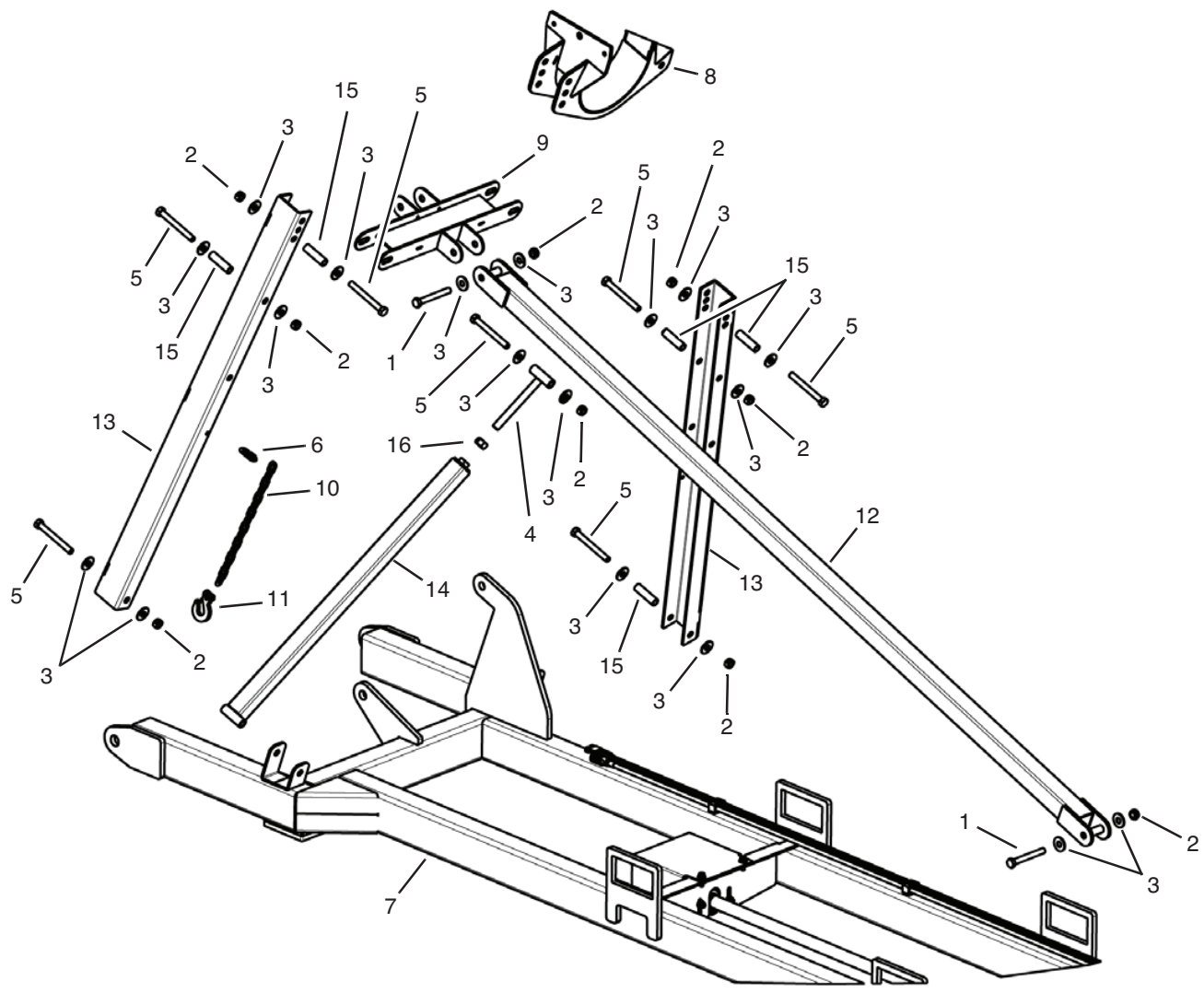


Main Auger Base Assembly

#	QTY.	PART #	DESCRIPTION
1	3	4573	BOLT, 1/4IN X 3/4IN SER FLG
2	2	4005	BOLT, 3/8" x 1 - 1/4" GRADE 5
3	2	4006	BOLT, 3/8" x 1 - 1/2" GRADE 5
4	2	4013	BOLT, 1/2" x 1 - 1/2" GRADE 5
5	6	4052	NUT, LOCK 3/8"
6	14	4064	WASHER, FLAT 3/8"
7	2	4068	WASHER, 1/2" SAE FLAT
8	2	4155	WASHER, LOCK 1/2"
9	4	4336	CLIP, HAIRPIN 1/8" x 2 - 1/4"
10	2	4538	BOLT, 3/8" x 2 - 3/4" GRADE 5
11	2	N11825	COUPLER, 1/2" MALE PIONEER
12	1	N13732	JACK, PULL - TYPE HITCH
13	1	N16287	HARNESS, 30' BRAIDED TOUNGE
14	1	N19600	HOLDER,01 - 315A STND. MANUAL
15	6	N21365	CLAMP, 3/8" DOUBLE HOSE
16	2	N22397	KNOB, 1/2" x 2" FOUR PRONG
17	2	N22553	PIN, GBU PTO SHIELD
18	1	N24248	CHAIN, SAFETY W / MOUNT HARDWARE
19	2	N26361	COUPLER, 1/2" FEMALE PIONEER
20	1	N153393	PTO, 1 - 3/4" PT WEASLER 35E
21	1	N27409	COVER, GBL AGR FRM FRT DRIVE
22	1	N27869	SHIELD, GBL AUG FRM DRIVELINE
23	2	N27910	HOSE, 3/8" x 192" HYD - 8MP - 8MP
24	1	N27989	HOLDER, GBL TRK AUG PTO LONG
25	2	N27990	BAR, GBL SWING AUG PTO HOLDER
26	2	N27991	PIN, 3/8" x 1 - 3/8" RETAINER
27	2	N27992	SHIELD, GBL TRUCK AUGER PTO
28	1	N27994	HOLDER, GBL TRK AUG PTO SHRT

Parts Identification

Main Auger Base Assembly (Cont'd)

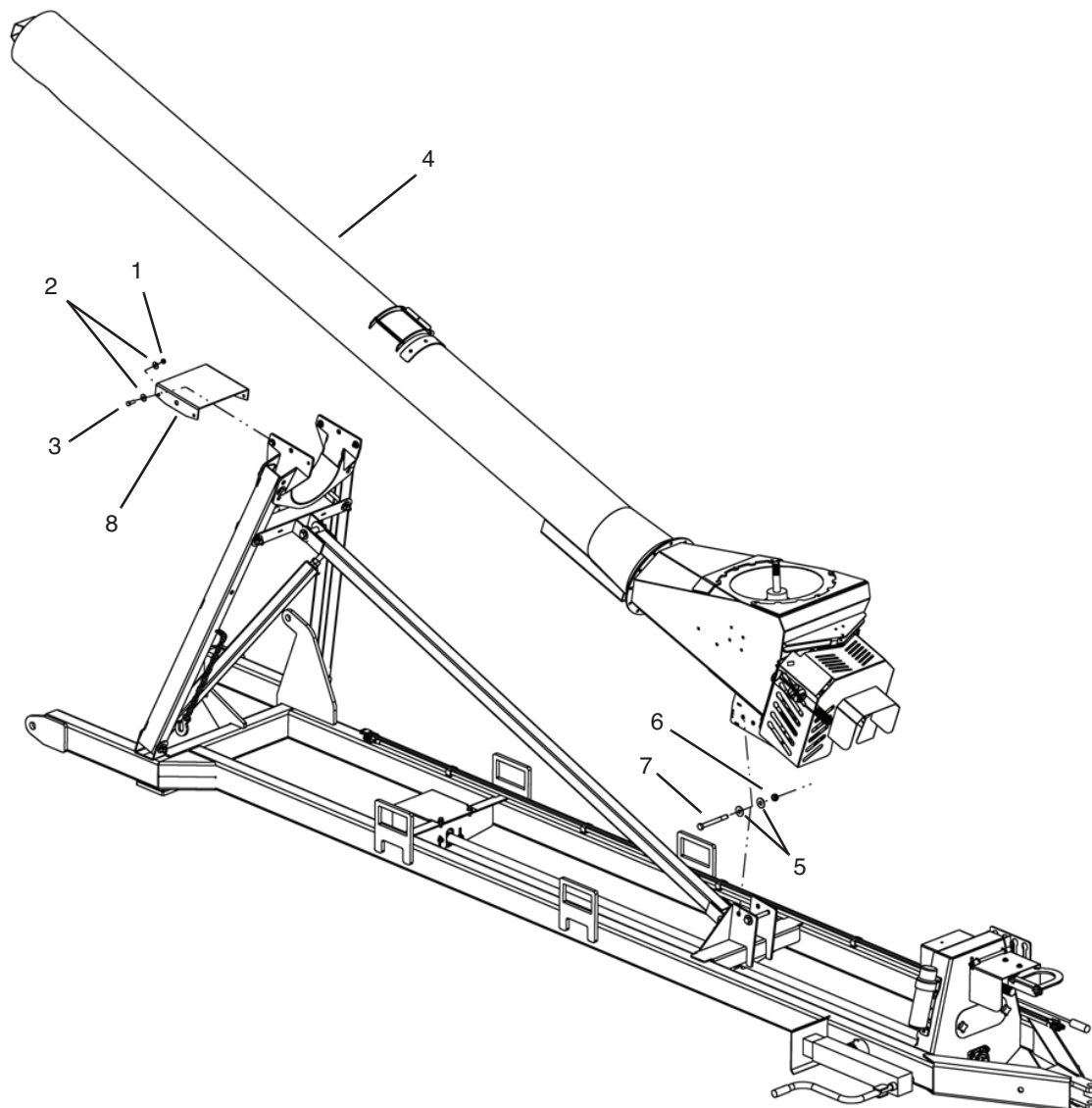


Main Auger Base Assembly (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	2	4029	BOLT, 3/4" x 6" GRADE 5
2	9	4056	NUT, LOCK 3/4"
3	18	4071	WASHER, 3/4" FLAT
4	1	N29005	MOUNT, GBL TRK AUG FRM ADJ BRC
5	7	4458	BOLT, 3/4" x 6 - 1/2" GR. 5
6	1	N23776	LINK, 5/16" CHAIN CONNECTOR
7	1	N27768	ASSEMBLY, GBA MECH AUG FRAME
8	1	N33039	MOUNT, GBA AUGER SADDLE HVY
9	1	N27780	TIE, GBA AUGER CENTER
10	1	N27873	CHAIN, GBL SWING HOPPER SAFETY
11	1	N27875	HOOK, 5/16" CLEVIS - WARN WINCH
12	1	N27890	BRACE, GBL SWG AUG FRAME FRT
13	2	N27969	BRACE, GBL SWG AUG VERT WLDMT
14	1	N33519	MOUNT, GBA SHORT ADJ ARM
15	5	N29067	BUSHING, TRUCK AUG BRACE WELD
16	1	4059	NUT, 1" STANDARD

Parts Identification

Main Auger Base Assembly (Cont'd)

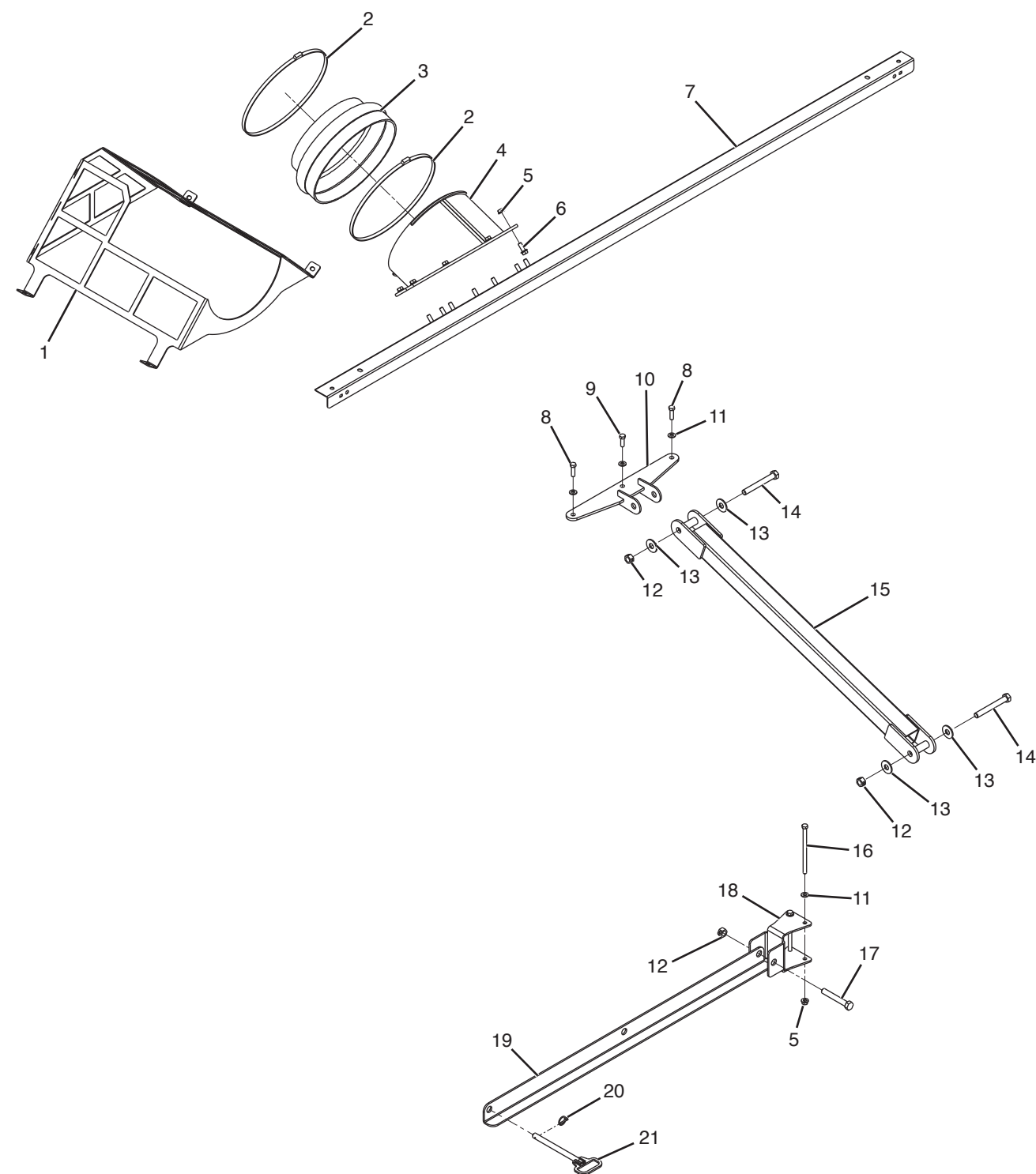


Main Auger Base Assembly (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	4	4054	NUT, LOCK 1/2"
2	8	4486	WASHER, FLAT 1/2" USS
3	4	4013	BOLT, 1/2" x 1 - 1/2" GR 5
4	1	N37118	AUGER, GBA TRUCK 13" W/BRG
5	4	4071	WASHER, 3/4" FLAT
6	2	4056	NUT, LOCK 3/4"
7	2	4487	BOLT, 3/4" x 7" GRADE 5
8	1	N33043	BRACKET, GBA AUGER

Parts Identification

GBA Hopper Panel Group (202179)

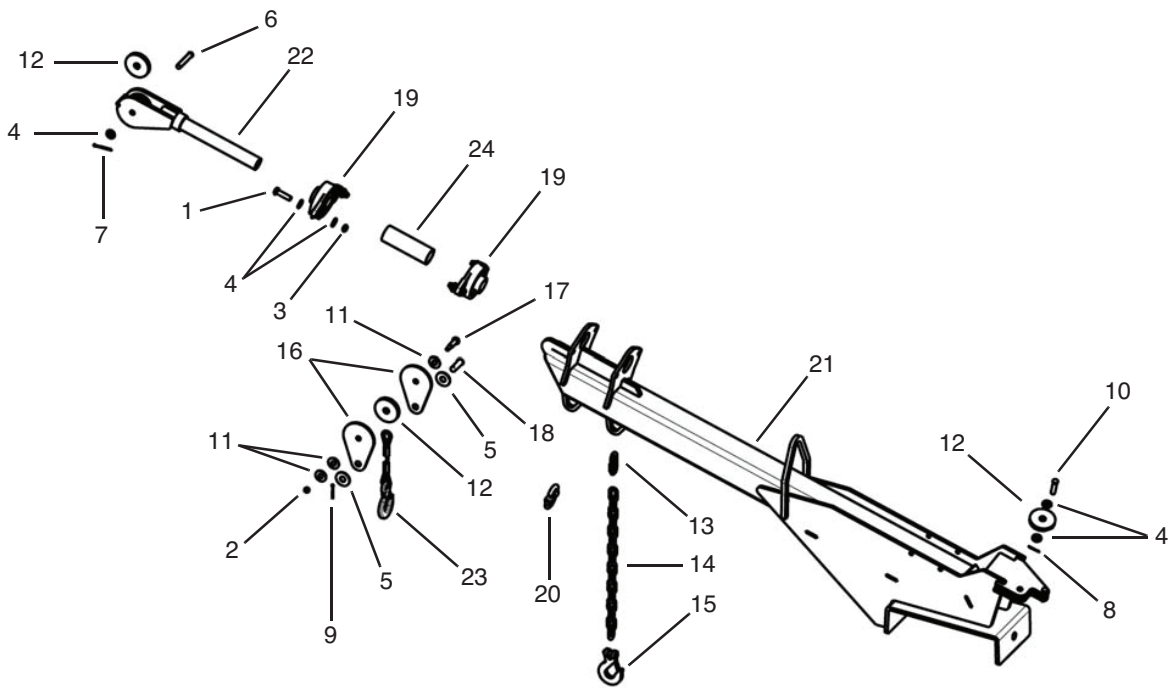


GBA Hopper Panel Group (202179)

#	QTY.	PART #	DESCRIPTION
1	1	201964	SCREEN, XLB HOPPER TRAPEZOID B
2	2	N27918	CLAMP, HOSE 63" QUICK RELEASE
3	1	N27487	SLEEVE, GBA AUGER FABRIC
4	1	N44944	RING, XLB GBA HOPPER PNL AUG
5	10	N29075	NUT, LOCK 1/2" SERRATED FLANGE
6	8	N18360	BOLT, 1/2-13 X 1-1/4 SER FLG
7	1	202180	PANEL, XBA FRONT
8	2	4014	BOLT, 1/2" X 1-3/4" GRADE 5
9	1	4013	BOLT, 1/2" X 1-1/2" GRADE 5
10	1	N29008	MOUNT, GBL TRK AUG TOP BRACE
11	5	4068	WASHER, 1/2" SAE FLAT
12	3	4056	NUT, LOCK 3/4"
13	4	4071	WASHER, 3/4" FLAT
14	2	4029	BOLT, 3/4" X 6" GRADE 5
15	1	N44893	BRACE, XLB SWG AUG FRAME FRT
16	2	4525	BOLT, 1/2" X 8" GRADE 5
17	1	4276	BOLT, 3/4" X 5" GR. 5
18	1	N45090	PLATE, XLB STD TUA GUIDE
19	1	N27961	BAR, GBL12 SWING HOPPR SPACER
20	1	N22192	PIN, LINCH 3/16" X 1-9/16"
21	1	201965	PIN, 3/4" X 8" HITCH W/HDL

Parts Identification

Swing Auger Lift (N33072)

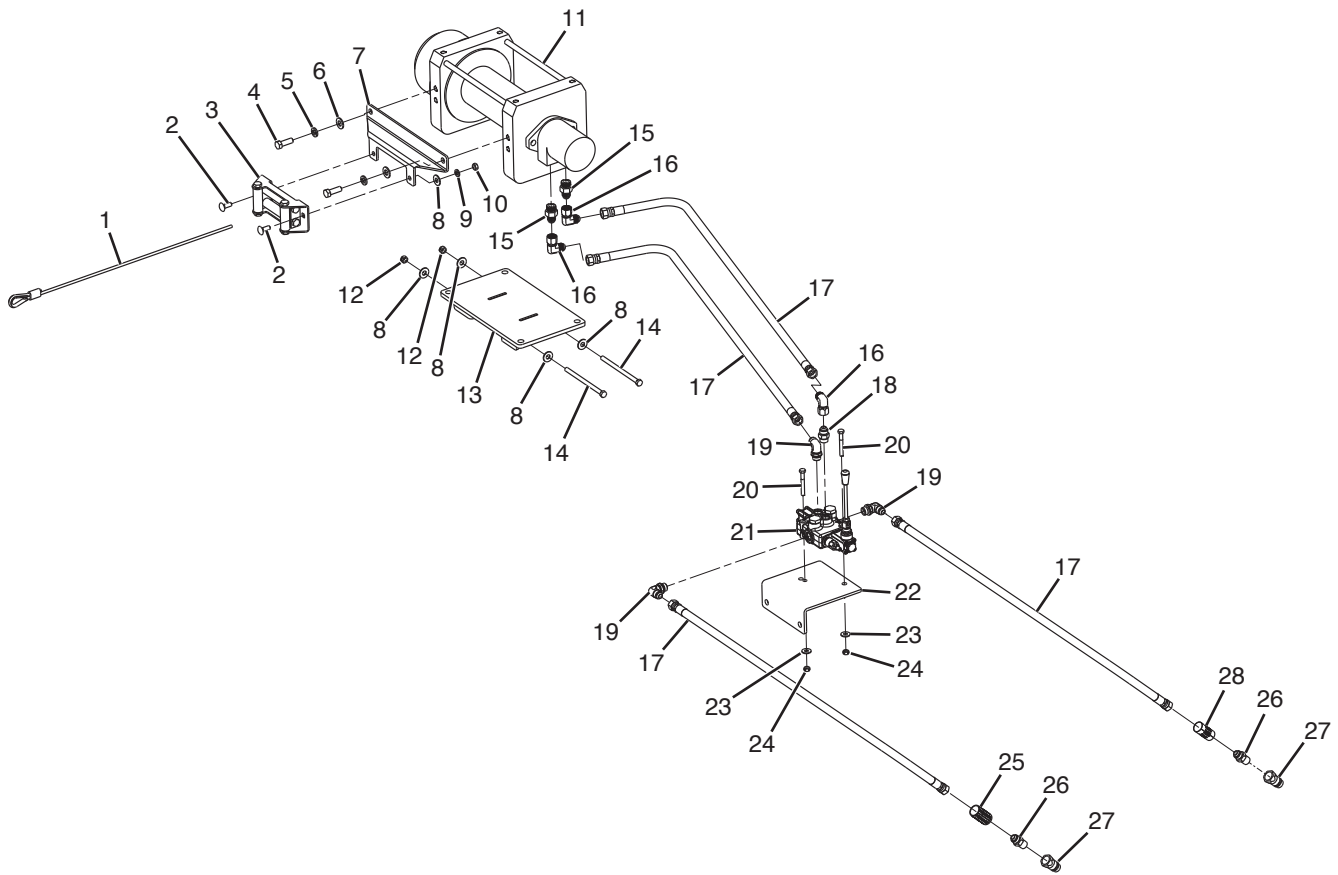


Swing Auger Lift (N33072)

#	QTY.	PART #	DESCRIPTION
1	4	4014	BOLT, 1/2" x 1 - 3/4" GR 5
2	1	4052	NUT, LOCK 3/8"
3	4	4054	NUT, LOCK 1/2" TOP
4	11	4068	WASHER, FLAT 1/2" SAE
5	2	4069	WASHER, FLAT 5/8"
6	1	4088	PIN, 1/2IN X 2-3/4IN PLATED
7	1	4092	PIN, COTTER 5/32" x 2"
8	1	4098	PIN, COTTER 1/8" X 1"
9	1	4099	PIN, COTTER 1/8" x 1 - 1/2"
10	1	4432	PIN, 1/2" x 1 - 3/4" (2" OVERALL)
11	3	4486	WASHER, 1/2" FLAT
12	3	N22913	PULLEY, 3/16" CABLE 2 - 1/2" DIA
13	1	N10177	LINK, 3/8 IN CHAIN CONNECTOR
14	1	N27873	CHAIN, GBL SWING HOPPER SAFETY
15	1	N27875	HOOK, 5/16" CLEVIS - WARN WNCH
16	2	N27895	PLATE, GBL SWING AUG CABLE BLK
17	1	N29072	BOLT, SHOULDER 1/2" x 1 - 5/16"
18	1	N29073	PIN, 5/8" x 1 - 1/2" PLATED (1 - 3/4")
19	2	N30230	BEARING, 1 - 1/2" DODGE 2 BLT FLG
20	1	N30678	LINK, 3/8" CM COUPLING
21	1	N33073	ARM, GBA SWG AUG LIFT BOOM
22	1	N33076	PIVOT, GBA SWG AUG LIFT
23	1	N33163	HOOK, 7" CABLE DOUBLE EYE
24	1	N33235	SHIELD, GBL12 LIFT ARM PIVOT PNT

Parts Identification

GBA Hydraulic Winch Lift Kit (N33093) (Optional)

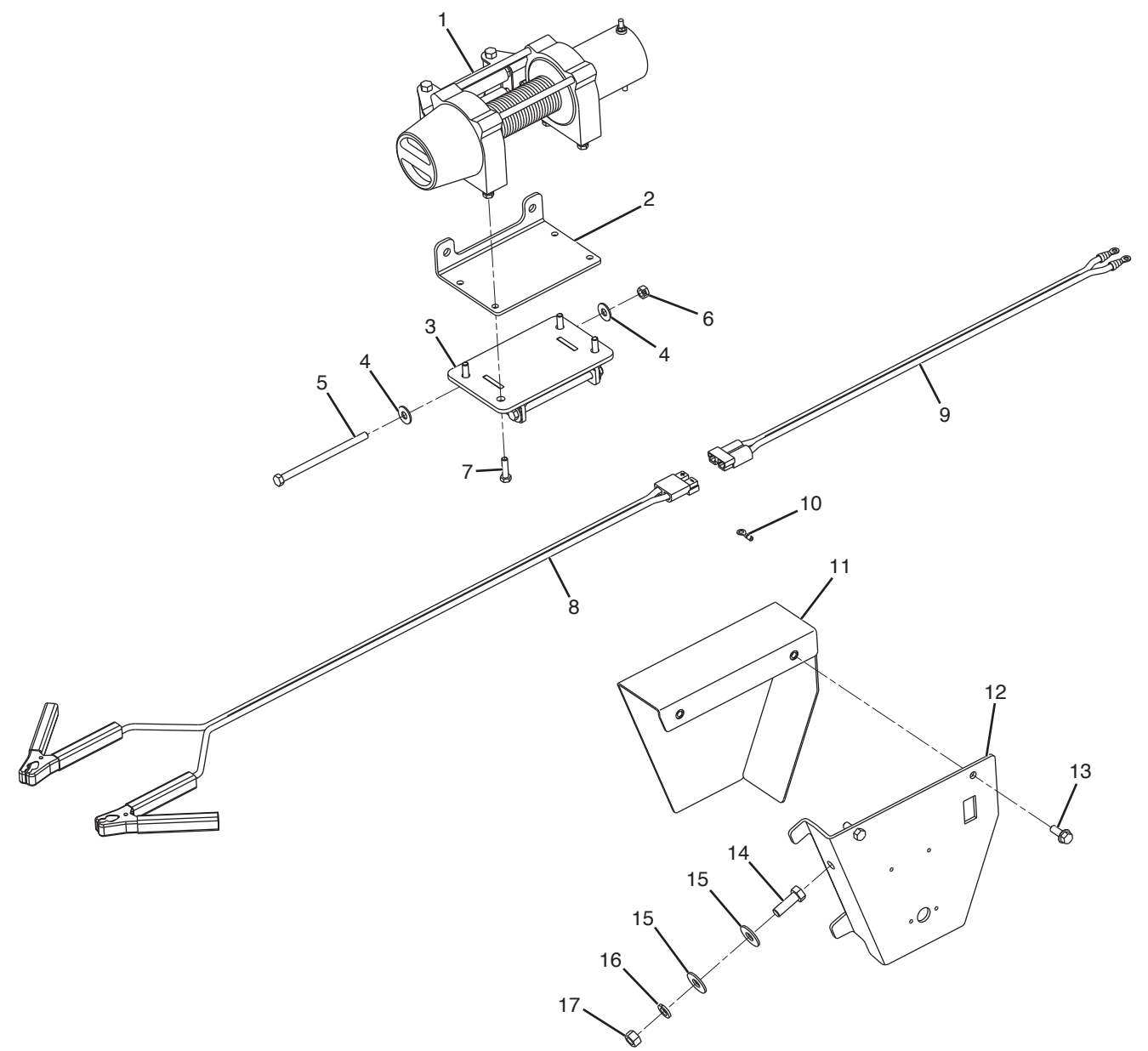


GBA Hydraulic Winch Lift Kit (N33093) (Optional)

#	QTY.	PART #	DESCRIPTION
1	1	N33178	CABLE, GBA HYD WINCH LIFT
2	2	4034	BOLT, CARRIAGE 3/8" X 1" GR. 5
3	1	N29688	FAIRLEAD, WARN RT40 WINCH
4	2	4376	BOLT, M12 X 35 MM
5	2	4155	WASHER, LOCK 1/2"
6	2	4068	WASHER, 1/2" SAE FLAT
7	1	N33158	BRACKET, GBA HYD WINCH FRLD
8	6	4064	WASHER, FLAT 3/8"
9	2	4065	WASHER, 3/8 LOCK
10	2	4233	NUT, STANDARD 3/8"
11	1	N33092	WINCH, WARN 9 SER HYD 9000 LB
12	2	4052	NUT, LOCK 3/8"
13	1	N33084	MOUNT, GBA WARN HYD WINCH
14	2	4520	BOLT, 3/8" X 6" GRADE 5
15	2	N12444	ADAPTER, 8MJIC - 10MOR
16	3	N24827	ELBOW, 90 DEG - 8FJC - 8MJC
17	4	N33184	HOSE, 1/2" X 160" - 8FJC - 8FJC
18	1	N33185	RESTRICTOR, 8MJIC - 8MOR -.078
19	3	N11952	ELBOW, 90 DEG - 08MJIC - 08MOR
20	2	4204	BOLT, 5/16" X 2-1/2" GRADE 5
21	1	202578	VALVE, SINGLE SPOOL W/ HANDLE
22	1	N33160	MOUNT, GBA HYD WINCH VALVE
23	2	4369	WASHER, 5/16" FLAT
24	2	4051	NUT, LOCK 5/16"
25	1	N24822	DECAL, PRESSURE
26	2	N25586	ADAPTER, 8MJIC - 12MP
27	2	N11825	COUPLER, 1/2" MALE PIONEER
28	1	N24823	DECAL, TANK

Parts Identification

GBA Winch Lift Kit (N33113) (Optional)

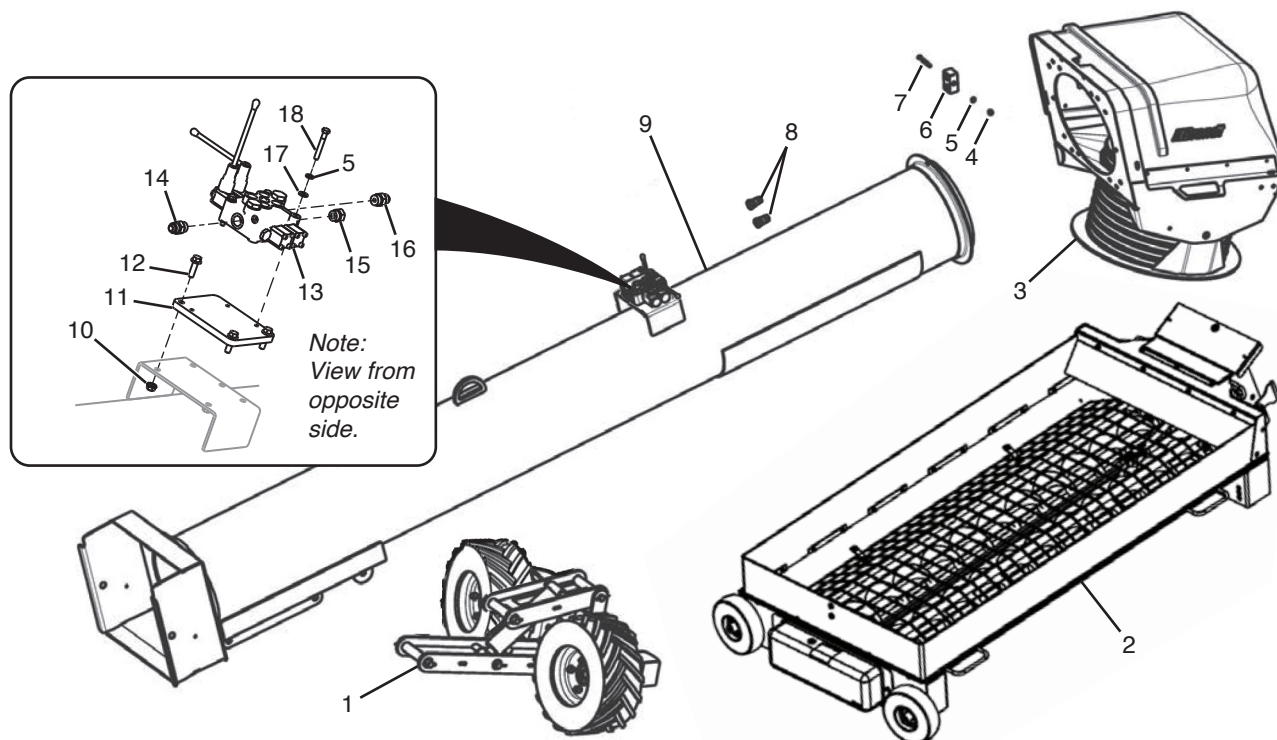


GBA Winch Lift Kit (N33113) (Optional)

#	QTY.	PART #	DESCRIPTION
1	1	201933	WINCH, WARN VRX 45
2	1	N30172	MOUNT, WARN RT40 FAIRLEAD
3	1	N33114	MOUNT, WARN RT40 GBA WINCH
4	4	4064	WASHER, FLAT 3/8"
5	2	4520	BOLT, 3/8" X 6" GRADE 5
6	2	4052	NUT, LOCK 3/8"
7	4	N35220	BOLT, M8 X 30 GR 8.8
8	1	N30834	CABLE, GBL10 6 GA WINCH TRCT
9	1	N30833	CABLE, GBL10 6 GA WINCH IMP
10	1	N26656	TERMINAL, 1/4" RING 16/14 AWG
11	1	N37342	COVER, GBA ELEC WINCH PANNEL
12	1	202594	PLATE, GBA WINCH ELC MNT 2
13	2	N26743	BOLT, 3/8" X 1" SER FLG
14	1	4013	BOLT, 1/2" X 1-1/2" GRADE 5
15	2	4486	WASHER, 1/2" FLAT
16	1	4155	WASHER, LOCK 1/2"
17	1	4250	NUT, STANDARD 1/2"

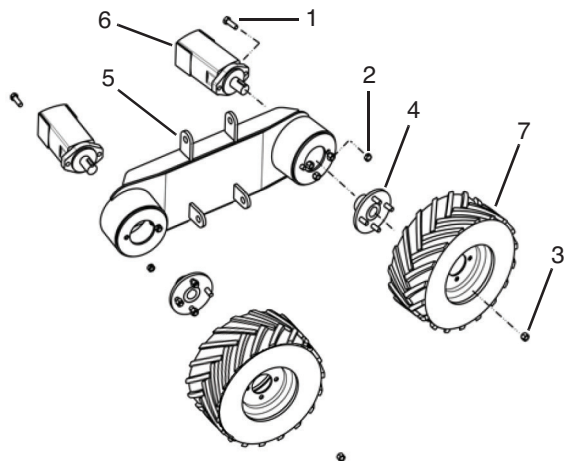
Parts Identification

Swing Auger

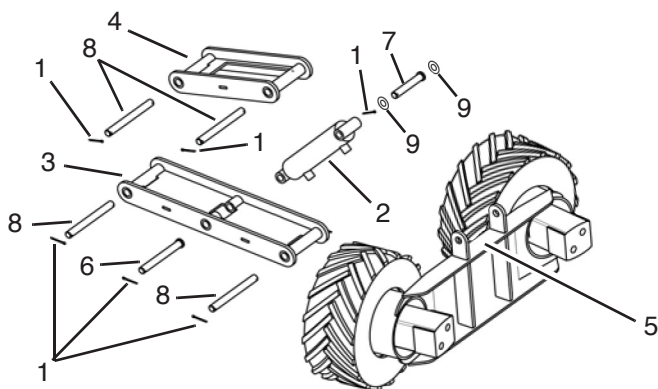


#	QTY.	PART #	DESCRIPTION
1	1	N27851	DRIVE, GBL BRANDT SWING AUG
2	1	N29066	HOPPER, TRUCK AUG ASSEMBLED
3	1	N26766	SPOUT, 13IN HP SWING ASSEMBLY
4	4	4237	NUT, 5/16" STANDARD
5	4	4228	WASHER, 5/16" LOCK
6	1	N13383	CLAMP, DBL. 1/2" SUPP. HOSE
7	4	N28436	BOLT, 5/16IN X 2-1/4IN GR5
8	2	N11825	COUPLER, 1/2" MALE PIONEER
9	1	N27912	TUBE, BRANDT SWING AUG
10	3	4979	NUT, LOCK 3/8" SER FLG
11	1	N40051	ADAPTER PLATE
12	3	N47855	BOLT, 3/8" X 1-1/4" SER FLG
13	1	N37627	VALVE, 2 - SECTION M45 HYDO CONT
14	1	N29074	RESTRICTOR, 8MJIC - 8 MOR - 0.031
15	1	N25198	PLUG, 8MOR HEX
16	1	N23447	VALVE, 5 PSI CHECK 8MOR - 8MJC
17	3	N28927	WASHER, FLAT 5/16 SAE
18	4	N28436	BOLT, 5/16IN X 2-1/4IN GR5
-	1	N27850	KIT, GBL SWING AUGER HOSE (NOT SHOWN)
-	1	N29043	KIT, GBL SWING AUG DECAL (NOT SHOWN)

Swing Auger Drive



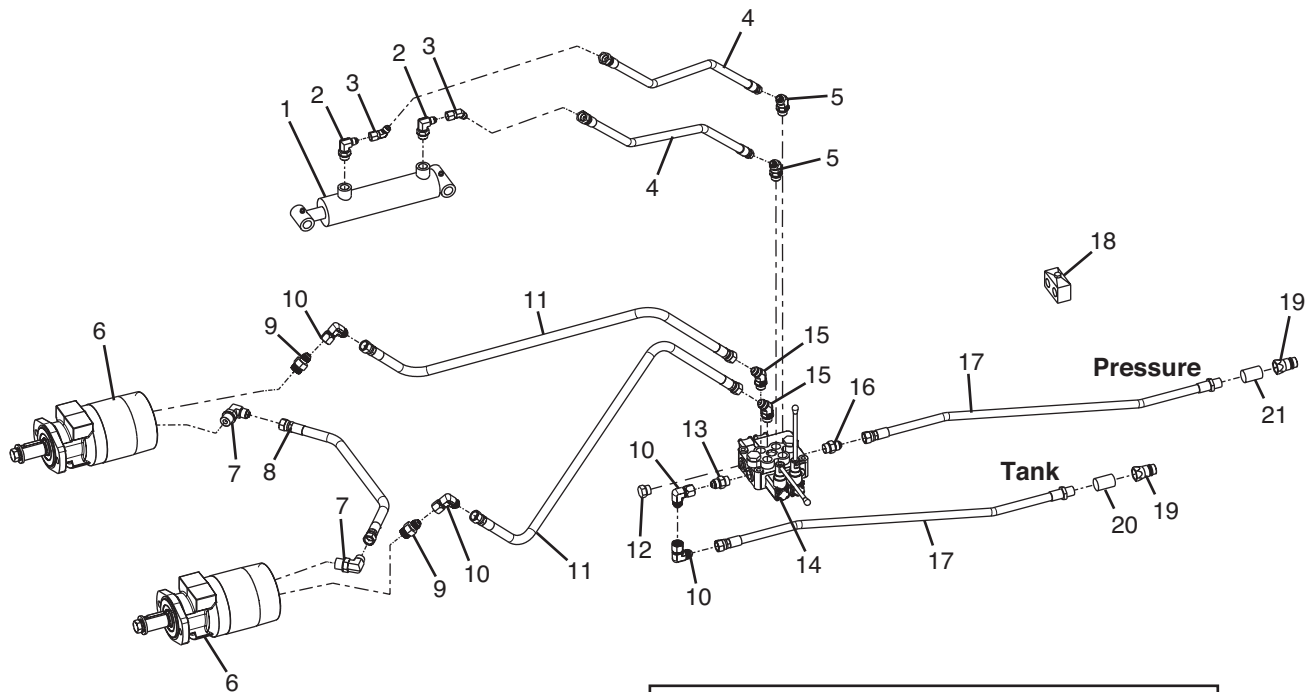
#	QTY.	PART #	DESCRIPTION
1	4	203139	BOLT, GBL SWING AUG
2	4	4054	NUT, LOCK 1/2"
3	8	4318	NUT, LUG 1/2" UNF
4	2	N26314	HUB, GBA DRIVE WHEEL ADAPTER
5	1	N27533	FRAME, GBL BRANDT AUG DRV
6	2	N27605	MOTOR, PARKER HYD 11.9 CU IN
7	2	N27887	WHEEL, 16 x 6.5 FILLED TIRE & RIM



#	QTY.	PART #	DESCRIPTION
1	10	4099	PIN, COTTER 1/8" x 1 - 1/2"
2	1	8287	CYLINDER, HYDRAULIC 2" x 6"
3	1	N27520	LINK, GBL AUGER DRIVE LONG
4	1	N27526	LINK, GBL AUGER DRIVE SHORT
5	1	N27532	ASSEMBLY, GBL SWING AUGER DRIVE
6	1	N27614	PIN, 3/4" x 6 - 1/4"
7	1	N27615	PIN, 3/4" x 4 - 1/4"
8	4	N27629	ROD, GBL AUG DRIVE 3/4"
9	2	4071	WASHER, 3/4" FLAT

Parts Identification

Hydraulic Diagram



NOTE:

TO ORDER A COMPLETE HOSE KIT (ITEMS # 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 19) USE PART NUMBER N27850.

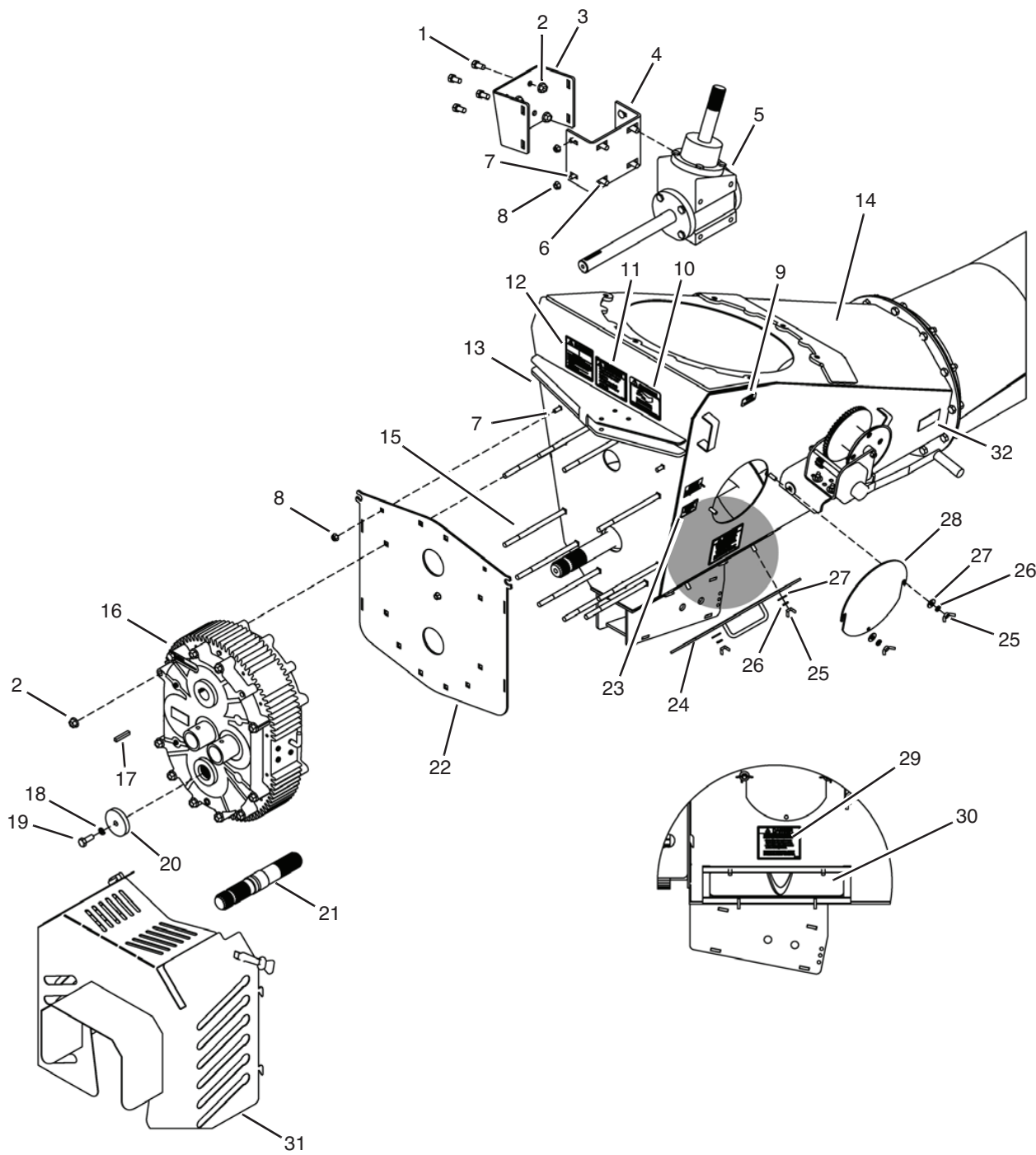
Hydraulic Diagram

#	QTY.	PART #	DESCRIPTION
1	1	8287	CYLINDER, HYDRAULIC 2" x 6"
*2	2	N20037	ELBOW, 90 DEG - 6MJIC - 8MOR
*3	2	N28837	ELBOW, 45 DEG - 6MJC - 6FJC
*4	2	N27926	HOSE, 3/8" HYD 78" - 6FJC - 6FJC
*5	2	N27928	ELBOW, 45 DEG - 6MJC - 8MOR
6	2	N27605	MOTOR, PARKER HYD 11.9 CU IN
*7	2	N16173	ELBOW, 90 DEG - 8MJC - 10MOR
*8	1	N26397	HOSE, 1/2" HYD 24" - 8FJC - 8FJC
*9	2	N12444	ADAPTER, 8MJIC - 10MOR
*10	4	N24827	ELBOW, 90 DEG - 8FJC - 8MJC
*11	2	N27925	HOSE, 1/2" HYD 78" - 8FJC - 8FJC
*12	1	N25198	PLUG, 8MOR HEX
*13	1	N23447	VALVE, 5 PSI CHECK 8MOR - 8MJC
14	1	N37627	VALVE, 2 SECTION M45 HYDO CONT
*15	2	N24667	ELBOW, 45 DEG - 8MJIC - 8MOR
*16	1	N29074	RESTRICTOR, 8MJC - 8MOR - .031
*17	2	N27924	HOSE, 1/2" X 276" - 8MP - 8FJC
18	1	N13383	ASSY, 1/2" HYD HOSE CLAMP
*19	2	N11825	COUPLER, 1/2" MALE PIONEER
20	1	N24823	DECAL, TANK
21	1	N24822	DECAL, PRESSURE

* Included in hose kit N27850.

Parts Identification

Main Auger Assembly

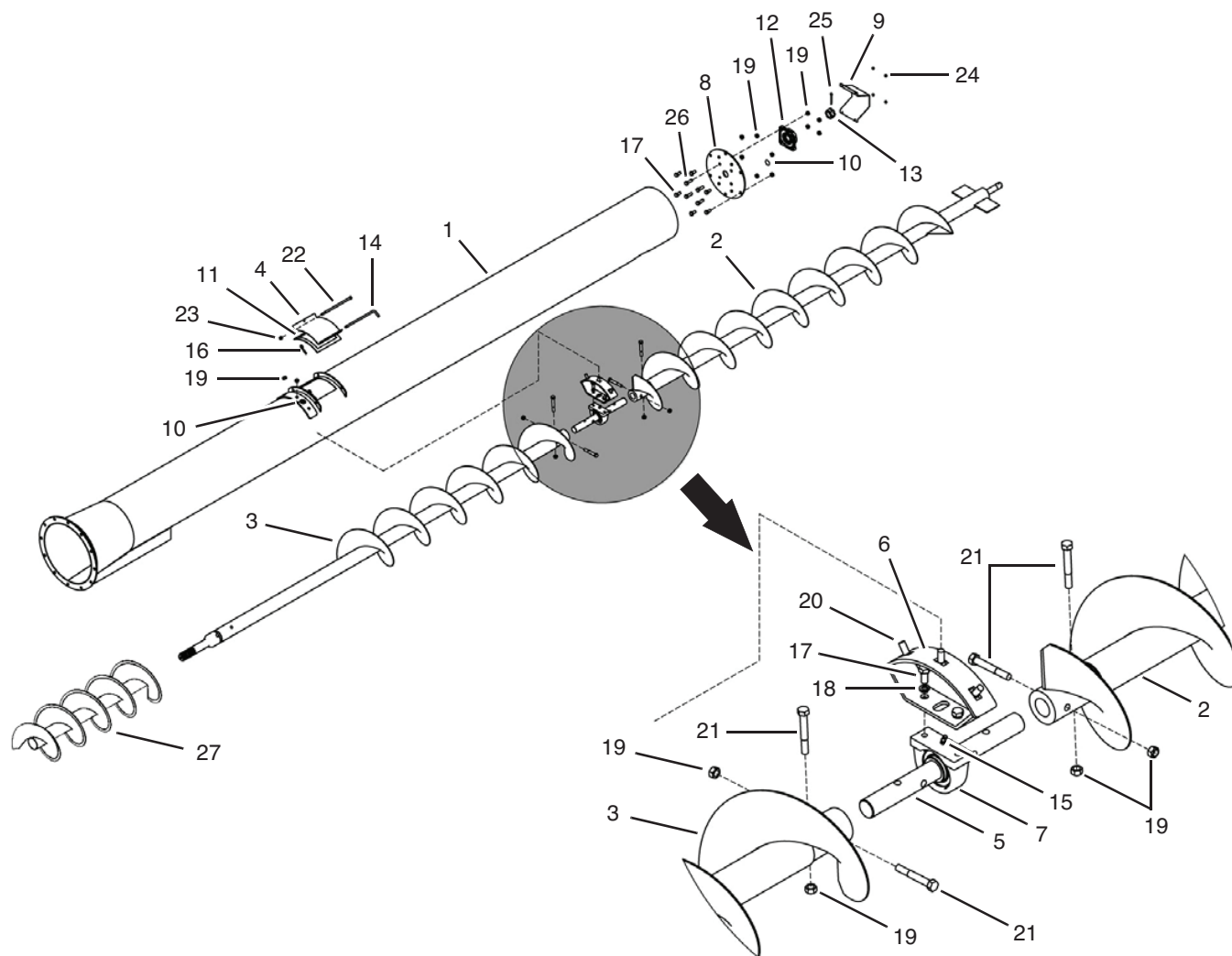


Main Auger Assembly

#	QTY.	PART #	DESCRIPTION
1	4	4011	BOLT, 1/2" x 1" GR 5
2	14	N29075	NUT, 1/2" SERRATED FLANGE
3	1	N26673	MOUNT, HP OUTER GEARBOX
4	1	N26676	MOUNT, INNER GBOX
5	1	N26687	GEARBOX, HD - LOWER 13" HP MDSA
6	4	N26748	BOLT, 1/2" x 1" SERRATED FLANGE
7	6	4034	BOLT, CARRIAGE 3/8" x 1"
8	6	4979	NUT, 3/8" SERRATED FLANGE
9	1	N26679	DECAL, AUGER PATENT
10	1	N26683	DECAL, CAUTION HOT SURFACE
11	1	N26680	DECAL, SWING AUGER #20
12	1	N26682	DECAL, MOVING PART HAZARD
13	2	N26684	LATCH, RUBBER
14	1	N31080	BD BOOT, WELD
15	10	N26750	BOLT, 1/2" x 9" CARRIAGE
16	1	N26688	GEARBOX, 1.84:1 HELICAL
17	1	7189-05	KEY, 5/16" x 2"
18	1	4155	WASHER, LOCK 1/2"
19	1	4012	BOLT, 1/2" x 1 - 1/4" GR 5
20	1	N26670	WASHER, LOWER FLIGHT RETAINING
21	1	N26693	SHAFT, DRIVE GEARBOX B003008
22	1	N26677	PLATE, BOOT FACE
23	1	N26760	PLATE, LOFTNESS SERIAL NO.
24	1	N26675	DOOR, CLEAN OUT
25	4	N19307	NUT, WING 3/8"
26	4	4065	WASHER, LOCK 3/8"
27	4	4064	WASHER, FLAT 3/8"
28	1	N26678	COVER, BOOT ACCESS
29	1	N26681	DECAL, CLEAN OUT COVERS #15
30	1	N26685	FOAM, SELF - ADHS 1/8" x 3/4"
31	1	N26671	GUARD, FRONT GEARBOX
32	2	N26686	TAPE, REFLECT AMBER 1 - 1/2" x 3"

Parts Identification

Main Auger Assembly (Cont'd)

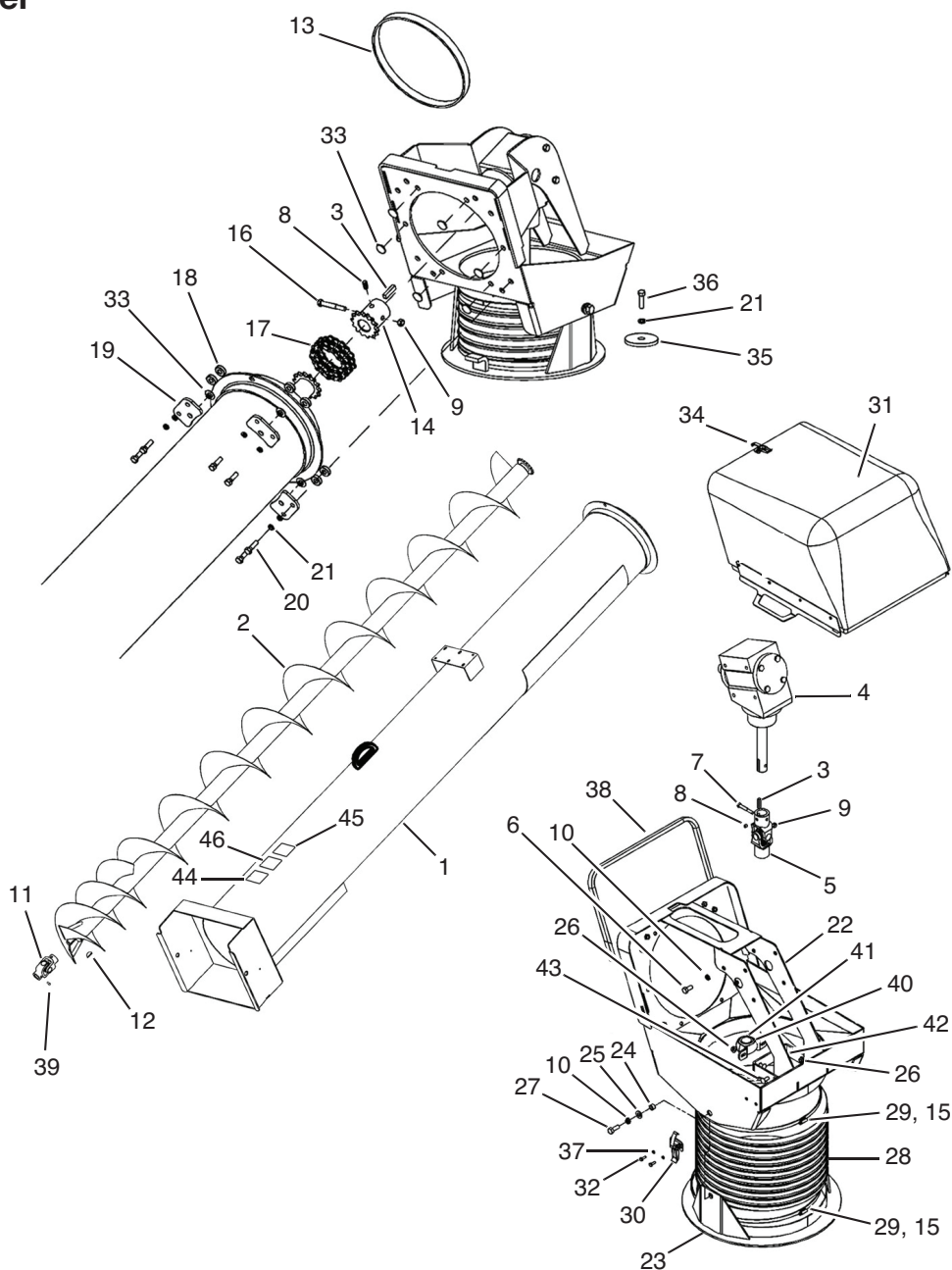


Main Auger Assembly (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	1	N37405	TUBE, TUA
2	1	N37406	AUGER, UPPER TUA SPLIT
3	1	N37407	AUGER, LOWER TUA SPLIT
4	1	N37408	DOOR, TUA INSPECTION
5	1	N37409	SHAFT, TUA JOINER STUB AUGER
6	1	N37410	MOUNT, TUA BEARING
7	1	N37411	BEARING, HANGER TUA
8	1	N26768	PLATE, TUA TUBE END
9	1	N26758	GUARD, TUA BRG TUBE
10	2	N28012	DECAL, GRESE 50 HRS
11	1	N37412	SEAL, NEO SELF - ADHS SPNG 1/8" x 3/4"
12	1	N33297	BEARING 1-1/4" - 4" BOLT FLANGE
13	1	N26757	NUT, SPINDLE S1010
14	1	N37413	PIN, L 3/8" x 9" W/HOLE
15	1	N37414	GREASE ZERK, 1/4" - 28 TPI 45 DEGREE
16	1	N37177	CLIP, HAIRPIN, 0.094 x 2-1/4"
17	8	4011	BOLT, 1/2" x 1" UNC GR5 PLT
18	2	4155	WASHER, LOCK 1/2"
19	17	N37415	NUT, LOCK 1/2" STOVER
20	3	4038	BOLT, CARRIAGE 1/2" x 1-1/4" GR5
21	4	4154	BOLT, 1/2" x 3-1/2" UNC GR5 PLT
22	1	N37416	BOLT, 3/8" x 9" UNC GR5 PLT
23	1	4052	NUT, LOCK 3/8"
24	4	N37417	NUT, LOCK 1/4" STOVER
25	1	4410	PIN, COTTER 3/16" x 2"
26	4	4013	BOLT, 1/2" x 1-1/2" UNC GR5 PLT
27	1	N26672	FLIGHT, 13" LT HP BOOSTER

Parts Identification

Swing Auger



#	QTY.	PART #	DESCRIPTION
1	1	N26769	TUBE, 10' LOADER SWING
2	1	N26715	FLIGHT, 14" SWING TUBE WELD
3	2	7189-03	KEY, 5/16" x 1-1/2"
4	1	N26730	GEARBOX, HD-UPPER, 13" HP MDSA
5	1	N26731	U - JOINT, 1 - 3/8" x 21 SPLINE
6	6	4011	BOLT, 1/2" x 1" GR 5
7	1	4313	BOLT, 3/8" x 2 - 1/2" GR 5

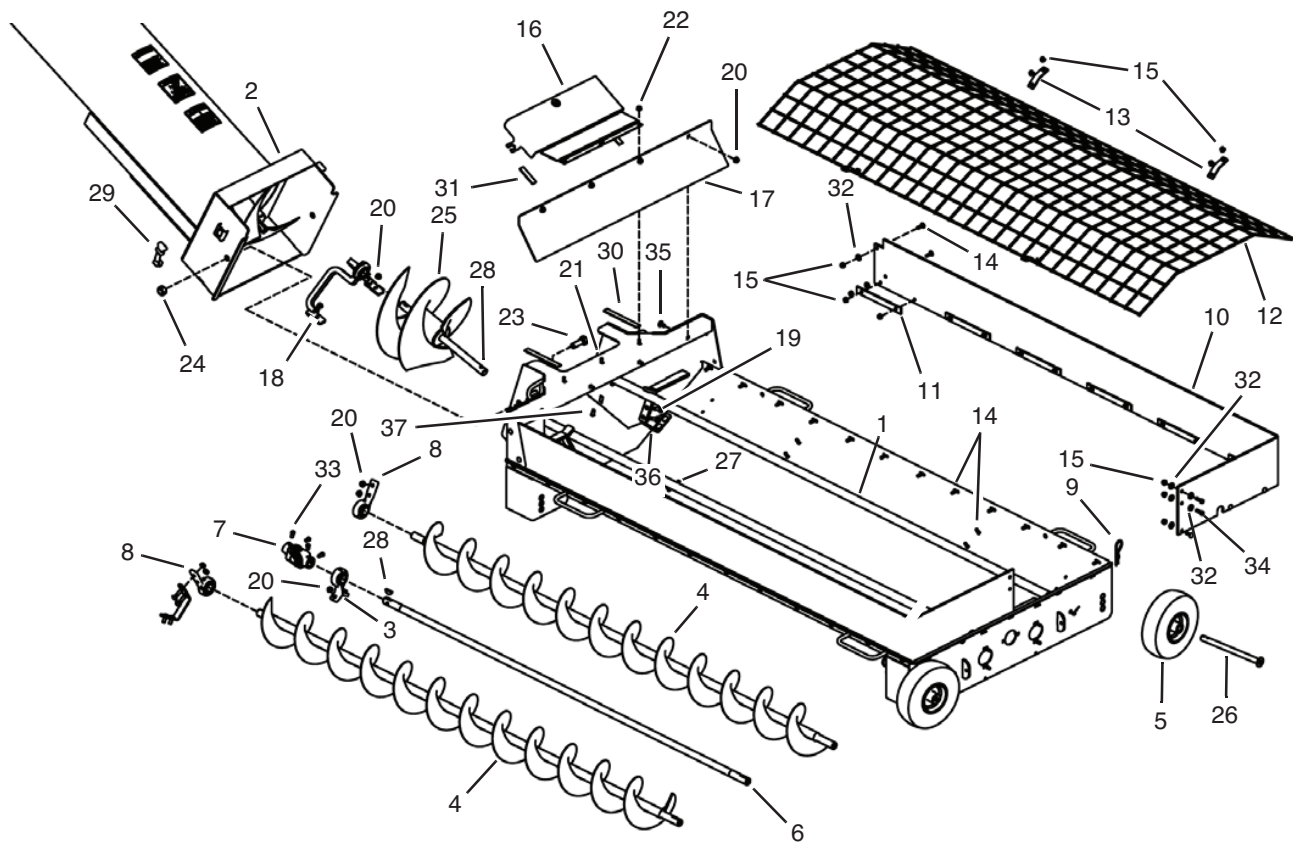
Parts Identification

Swing Auger

#	QTY.	PART #	DESCRIPTION
8	2	4354	SCREW, SET 3/8" x 3/8"
9	2	4052	NUT, LOCK 3/8"
10	8	4155	WASHER, LOCK 1/2"
11	1	N26696	U-JOINT, 6R 1" x 1" W / KEYS, EKIT
12	1	N26705	KEY, WOODRUFF 1/4", #810
13	1	N26722	SEAL, SPOUT COVER 13" HP FOAM
14	1	N26716	SPROCKET, #50 x 18T x 1.375 BORE
15	2	N26790	CLAMP, 7" HOSE
16	1	N26752	BOLT, 3/8" x 3" GR 8
17	1	N26717	CHAIN, 50-2 X 18P C/W CONNECTOR
18	8	N26718	BUSHING, 5/16TX 1 x .3 PLASTIC
19	4	N26719	PLATE, SWING TUBE RETAINER
20	8	4005	BOLT, 3/8" x 1 - 1/4" GR 5
21	14	4065	WASHER, LOCK 3/8"
22	2	N27917	SWIVEL, SPOUT HP UPPER WELD
23	1	N27916	SWIVEL, SPOUT HP LOWER WELD
24	2	N26729	BUSHING, SWIVEL
25	2	4068	WASHER, FLAT 1/2" SAE
26	6	4979	NUT, FLANGE 3/8"
27	2	4013	BOLT, 1/2" x 1 - 1/4" GR 5
28	1	N26728	HOSE, DOWNPOUT 18" ID x 12
29	2	N26724	CLAMP, 10" HOSE HS 164
30	2	N26725	LATCH, ASSEMBLY LARGE
31	1	N26791	COVER, SPOUT ASSEMBY PLASTIC
32	4	4340	BOLT, 1/4" x 3/4" GR 5
33	10	N26720	BUSHING, PLASTIC WEAR / SLIDER
34	1	N22325	LATCH, ASSEMBLY SMALL
35	6	N26721	WASHER, SWING TUBE MOUNT LARGE
36	6	4195	BOLT, 3/8" x 1" GR 5
37	4	4231	WASHER, LOCK 1/4"
38	1	N26732	SEAL, SPOUT COVER
39	2	N26793	SCREW, SQ. HD SET 3/8" x 1/2"
40	1	N26726	HOUSING, BEARING ONLY 1 - 1/4"
41	1	N26727	BEARING, 1 - 3/8" WD INSERT ONLY
42	1	N26723	MOUNT, SPOUT STEADY BEARING
43	6	4034	BOLT, CARRIAGE 3/8" x 1"
44	1	N26682	DECAL, MOVING PART HAZARD
45	1	N26795	DECAL, KEEP SHIELDS IN PLACE
46	1	N26796	DECAL, KEEP HANDS AND FEET

Parts Identification

Hopper Main Assembly

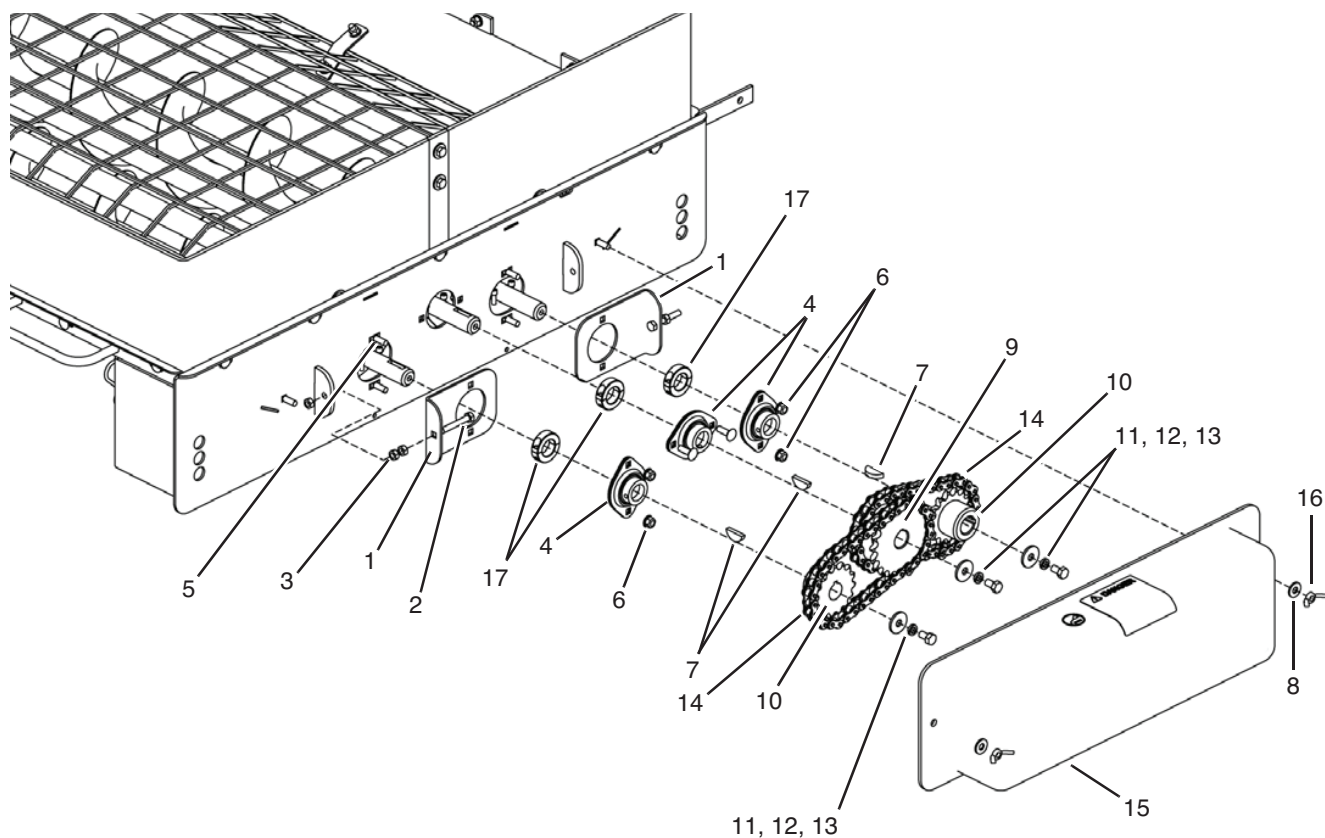


Hopper Main Assembly

#	QTY.	PART #	DESCRIPTION
1	1	N26734	HOPPER, BD LOADER WELD
2	1	N27912	TUBE, BRANDT GBL10 SWING AUG
3	1	N31081	HANGER, DRIVELINE ASSEMBLY
4	2	N26733	FLIGHT, 13" HP HOPPER LONG
5	2	N26695	WHEEL, 10" OD x 3/4" BORE
6	1	N26736	DRIVESHAFT, HOPPER 13" HP LONG
7	1	N26696	U-JOINT, 6R 1" x 1" W/KEYS, EKIT
8	2	N31082	HANGER, FLIGHT ASSEMBLY
9	2	N26740	CLIP, HAIR PIN .177" x 3 - 3/4"
10	2	N26735	EXTENSION, RUBBER HOPPER LONG
11	14	N26698	STRAP, HOLD DOWN
12	1	N26739	GRATE, HOPPER SAFETY LONG
13	4	N26699	RETAINER, HOPPER MESH
14	40	N26741	BOLT, CARRIAGE 5/16" x 1"
15	42	N26742	NUT, 5/16" FLANGE LOCK
16	1	N37801	COVER,TRANSITION
17	1	N26701	PLATE, BAFFLE
18	1	N31083	MOUNT, TRANSITION ASSEMBLY
19	4	1355	BOLT, CARRIAGE 3/8" x 1 - 1/2"
20	12	4979	NUT, FLANGE 3/8"
21	3	4258	BOLT, CARRIAGE 5/16" x 3/4"
22	3	4051	NUT, LOCK 5/16"
23	2	N31085	BOLT, SHOULDER 3/4" x 1" GR 5
24	2	N31086	LOCKNUT, 5/8" STOVER
25	1	N26703	FLIGHT, TRANS -13HP, CHROMED
26	2	N26704	PIN, SL HOPPER WHEEL
27	2	N26743	BOLT, 3/8" x 1" SERRATED FLANGE
28	1	N26705	KEY, WOODRUFF 1/4", #810
29	2	N33298	LATCH, RUBBER, BASELESS
30	2	N26707	SEAL, FOAM 10, 13 HOPPER
31	2	N26761	SEAL, HP HOPPER TRANS FOAM
32	6	4369	WASHER, FLAT 5/16"
33	4	N26799	SCREW, SQ. HD SET 3/8" x 3/4"
34	2	4203	BOLT, 5/16" x 1" GR 5
35	4	4033	BOLT, CARRIAGE 3/8" x 3/4"
36	2	N31084	SUPPORT, FLIGHT HANGER
37	2	4034	BOLT, CARRIAGE 3/8" - x 1"

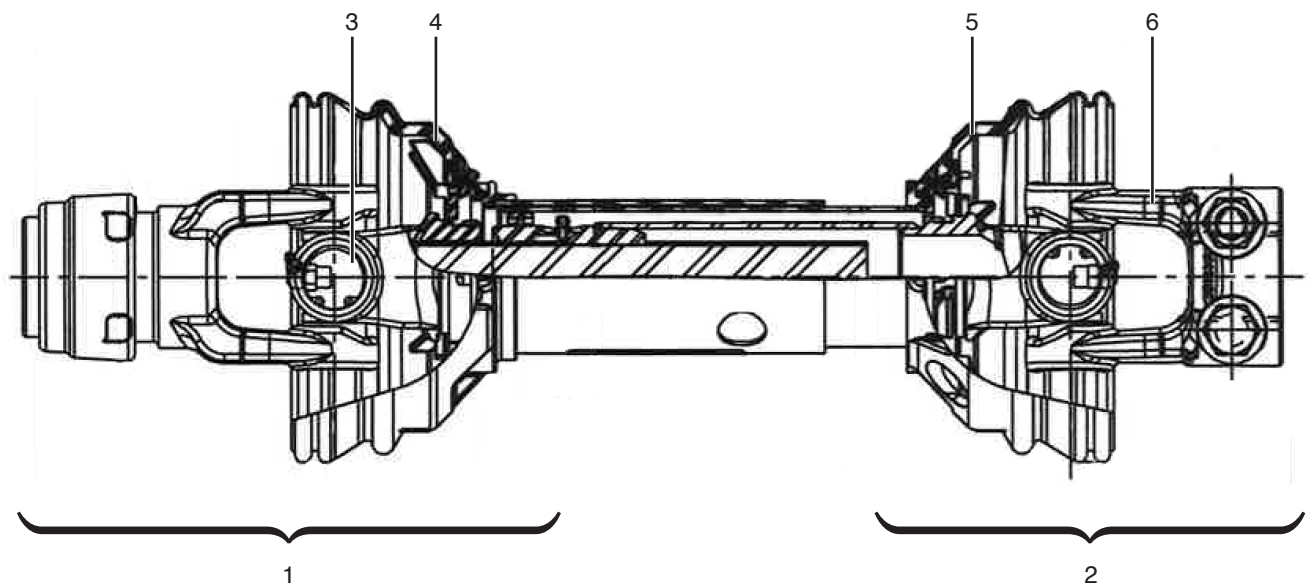
Parts Identification

Hopper Drive



#	QTY.	PART #	DESCRIPTION
1	2	N26709	PLATE, CHAIN TENSION
2	2	N26744	BOLT, 5/16" x 2" FULL THREAD
3	6	4237	NUT, STANDARD 5/16"
4	3	N26710	BEARING, 1" - 2 BOLT FLANGETTE
5	6	N26741	BOLT, 5/16" x 1" CARRIAGE
6	3	N26742	NUT, 5/16" FLANGE LOCK
7	3	N26705	KEY, WOODRUFF 1/4", #810
8	2	4369	WASHER, FLAT 5/16"
9	1	N26711	SPROCKET, 50 - 21T DOUBLE SNGL
10	2	N26712	SPROCKET, 50 - 15T C/W KEY
11	3	N26794	WASHER, 1-1/4" OD x 3/8" ID
12	3	4065	WASHER, LOCK 3/8"
13	3	N26746	BOLT, 3/8" x 5/8"
14	2	N26713	CHAIN, #50 x 35 P, CONN & OFF
15	1	N26714	GUARD, HOPPER CHAIN
16	2	N26747	NUT, WING 5/16"
17	3	N31087	COLLAR, 1" ID SPLIT

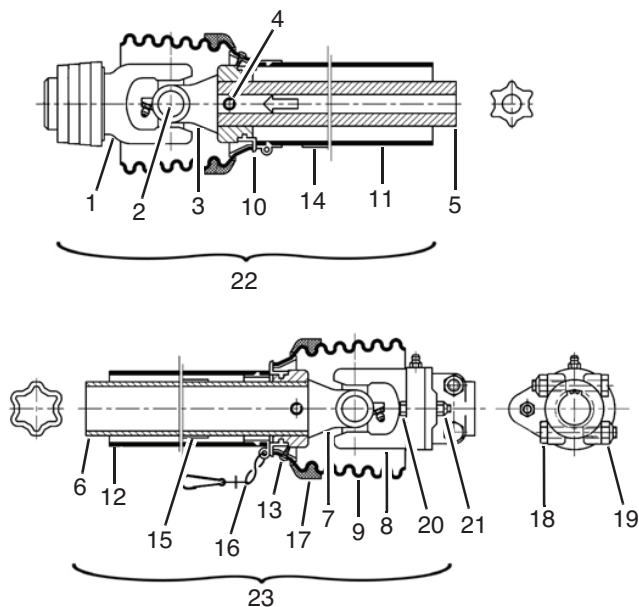
PTO Driveline (N153393)



#	QTY.	PART #	DESCRIPTION
1	1	N153467	JOINT & SHAFT HALF, GUARDED
2	1	N153468	JOINT & TUBE HALF, GUARDED
3	1	N153469	CROSS KIT, AW35E, REPAIR
4	2	N153470	OUTER GUARD
5	1	N153471	INNER GUARD
6	1	N153472	YOKE, 35

Parts Identification

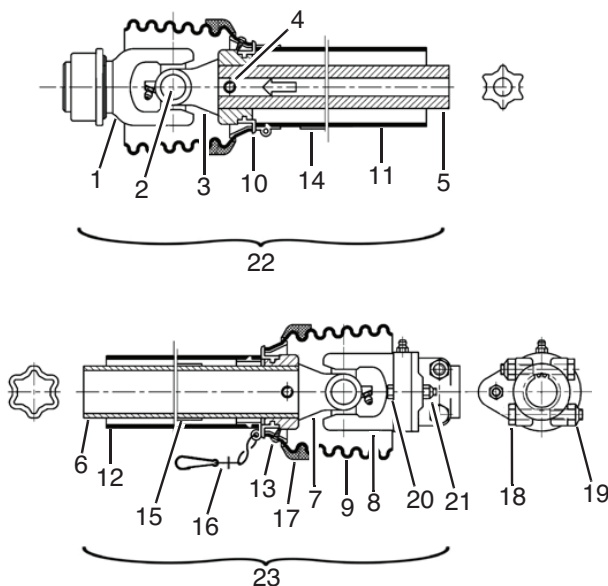
PTO Driveline (N29020)



#	QTY.	PART #	DESCRIPTION
1	1	N26772	YOKE, 1 - 3/8" - 21 SPL. ASGE
2	2	N23479	KIT, WALT PTO CROSS & BEARING
3	1	N23711	YOKE, WALT INBOARD S4
4	2	N23480	PIN, WALT PTO SPRING 10 x 80
5	1	N26773	SHAFT, INNER PROFILE S4
6	1	N26774	SHAFT, OUTER PROFILE S5
7	1	N23714	YOKE, WALT INBOARD S5
8	1	N26775	CLUTCH, SHEARBOLT
9	2	N23486	SHIELD, WALT CONE 6 RIB
10	2	N10348	RING, PTO BEARING SC 25 PL - TYPE
11	1	N26776	TUBE, GUARD OUTER
12	1	N26777	TUBE, GUARD INNER
13	3	N11750	SCREW, WALT PTO SHIELD
14	1	N10357	DECAL, PTO PT SHAFT GUARD
15	1	N11761	DECAL, WALT TUBE SHIELD - 383334
16	1	N10356	CHAIN, PTO SAFETY
17	2	N27146	COLLAR, WALT PTO RFCMNT
18	2	N26778	BOLT, M16 x 80 MM
19	1	4449	NUT, LOCK M16
*20	1	N23489	BOLT, WALT M8 x 60 GR 8.8
21	1	N23490	NUT, WALT M8
22	1	N26770	HALF, COMP TRACTOR
23	1	N26771	HALF, COMP IMPLEMENT

* THRU - BOLT FIELD SERVICEABLE WITH 5/16" x 2 - 1/2" GRADE 5 BOLT

PTO Driveline (N29021)



#	QTY.	PART #	DESCRIPTION
1	1	N26781	YOKE, 1 - 3/4" - 20 SPL. ASG
2	2	N23479	KIT, WALT PTO CROSS & BEARING
3	1	N23711	YOKE, WALT INBOARD S4
4	2	N23480	PIN, WALT PTO SPRING 10 x 80
5	1	N26773	SHAFT, INNER PROFILE S4
6	1	N26774	SHAFT, OUTER PROFILE S5
7	1	N23714	YOKE, WALT INBOARD S5
8	1	N26775	CLUTCH, SHEARBOLT
9	2	N23486	SHIELD, WALT CONE 6 RIB
10	2	N10348	RING, PTO BEARING SC 25 PL - TYPE
11	1	N26776	TUBE, GUARD OUTER
12	1	N26777	TUBE, GUARD INNER
13	3	N11750	SCREW, WALT PTO SHIELD
14	1	N10357	DECAL, PTO PT SHAFT GUARD
15	1	N11761	DECAL, WALT TUBE SHIELD - 383334
16	1	N10356	CHAIN, PTO SAFETY
17	2	N27146	COLLAR, WALT PTO RFCMNT
18	2	N26778	BOLT, M16 x 80 MM
19	1	4449	NUT, LOCK M16
*20	1	N23489	BOLT, WALT M8 x 60 GR 8.8
21	1	N23490	NUT, WALT M8
22	1	N26779	HALF, COMP TRACTOR
23	1	N26771	HALF, COMP IMPLEMENT

* THRU - BOLT FIELD SERVICEABLE WITH 5/16" x 2 - 1/2" GRADE 5 BOLT



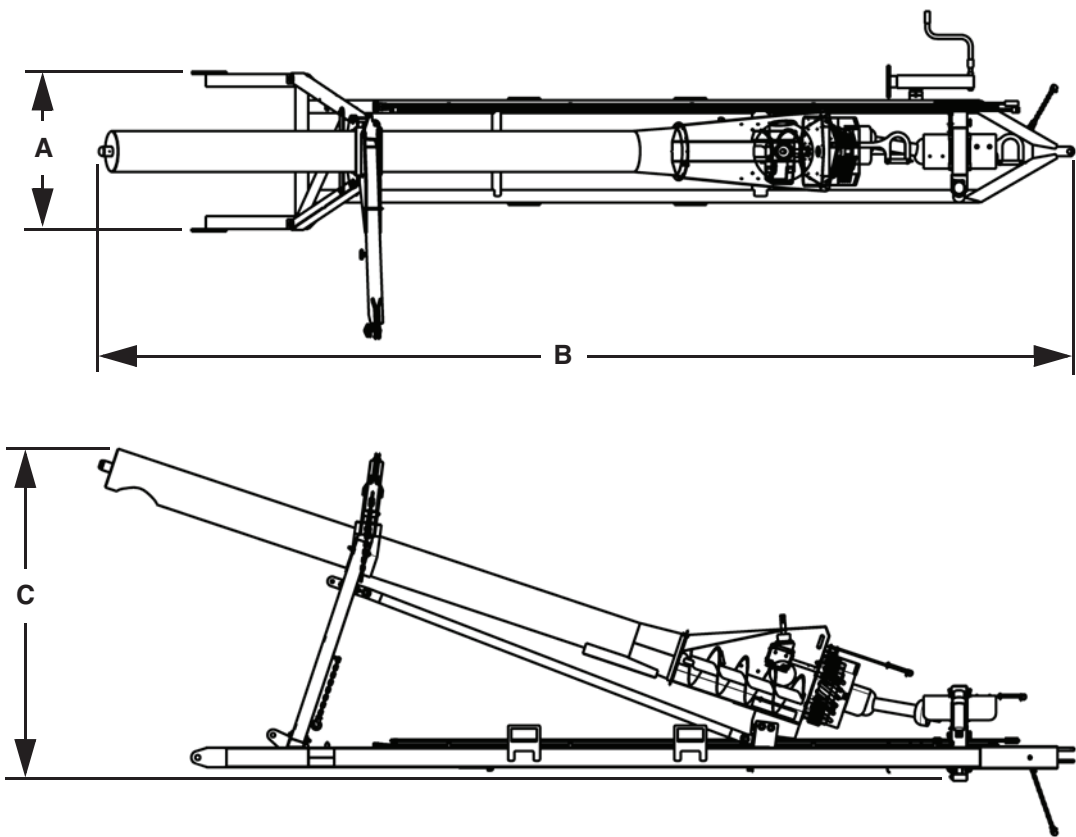
Specifications

DESCRIPTION	TRUCK UNLOADING AUGER
Operating Capacity	11,900 Bushels / Hour
Operating Weight w/GBL	9,475 lbs. (4298 kg)
Minimum Tractor Horsepower	120 HP
Maximum Rear-PTO RPM	1000 RPM (1-3/8 or 1-3/4)
Hydraulic Flow (Tractor Should Have Flow Control)	5 GPM (18.93 L/min)
Main Discharge Auger	14 in. into 13 in. (35.6 cm into 33.0 cm)
Drive Coupler	Chain type
Hopper Height	12 in. (30.5 cm)
Hopper Height w/Extensions	19 in. (48.3 cm)
Hopper Width	40 in. (101.6 cm)
Hopper Length	82 in. (208.3 cm)
Hopper Augers	Twin - 7 in. (17.8 cm)
Weight (Kit Only)	4,675 lbs. (2121 kg)

Appendix

Dimensions

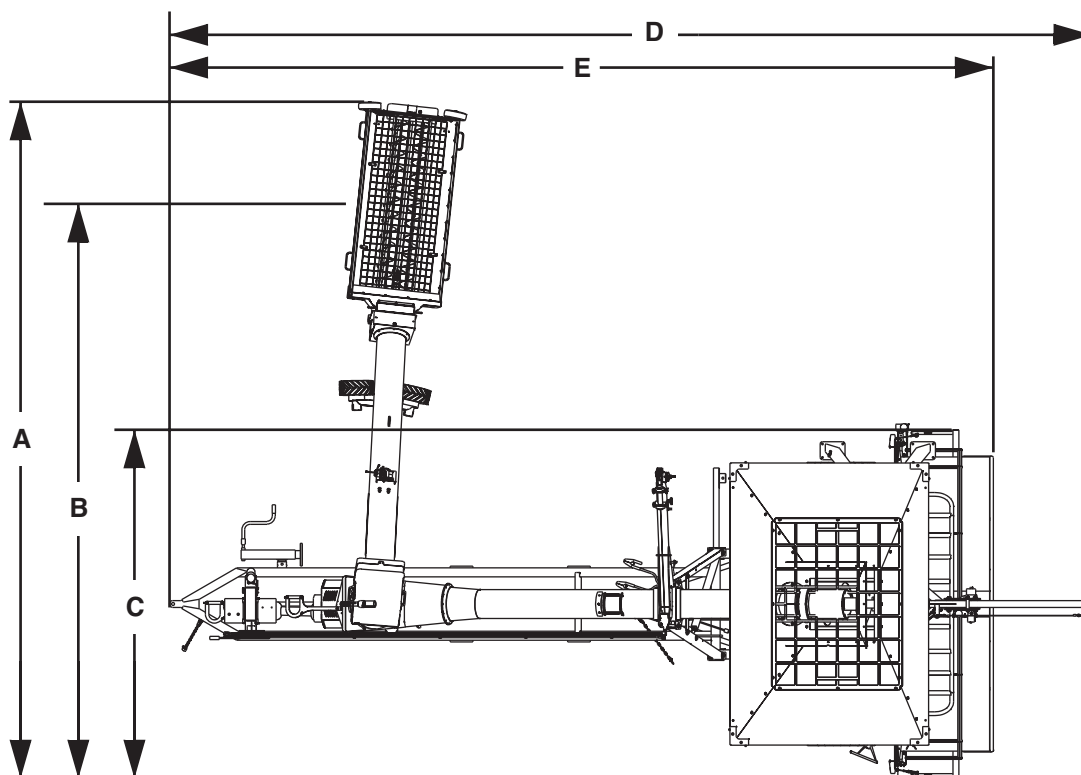
Truck Auger Kit



DESCRIPTION	TRUCK UNLOADING AUGER
Mounting Frame Width (A)	50.0 in. (127.0 cm)
Overall Length (B)	304.85 in. (774.3 cm)
Overall Height (C)	103.79 in. (263.6 cm)

Dimensions (Cont'd)

Operation

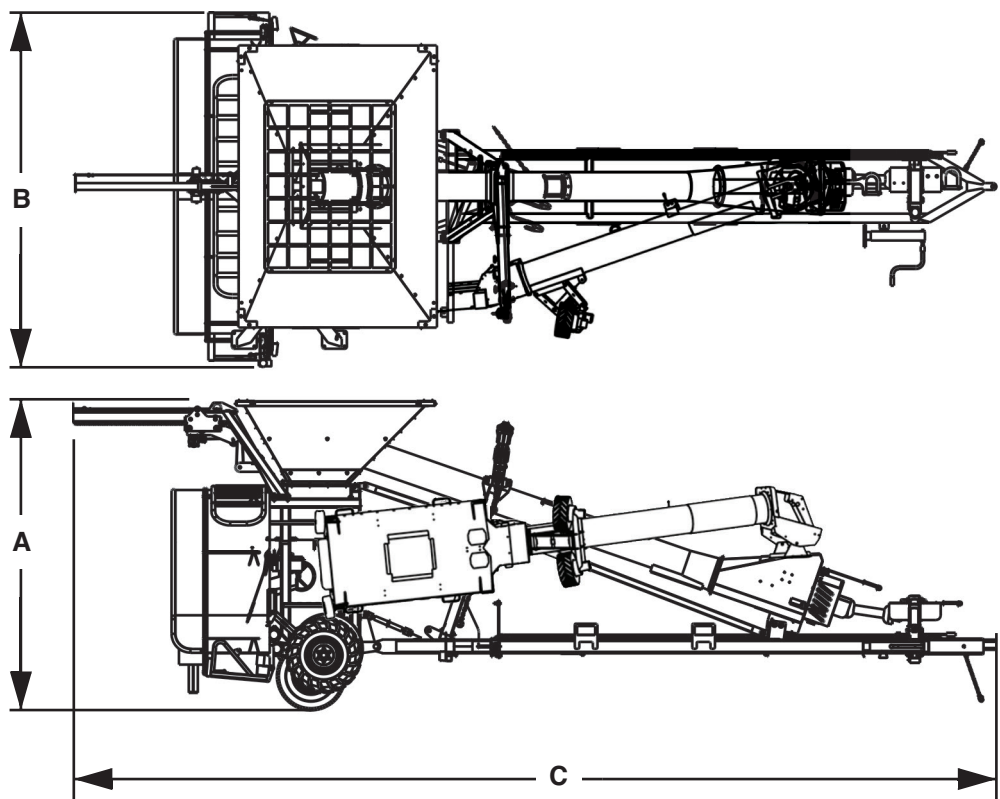


DESCRIPTION	TRUCK UNLOADING AUGER
Operating Width (A)	298.9 in. (759.2 cm)
Driveline to Hopper Center (B)	176.0 in. (447.0 cm)
Bag Pan Width (C)	154.0 in. (391.2 cm)
Operating Length with Crane (D)	409.0 in. (1038.9 cm)
Operating Length (Base Machine) (E)	364.7 in. (926.3 cm)

Appendix

Dimensions (Cont'd)

Transportation



DESCRIPTION	TRUCK UNLOADING AUGER
Transport Height (A)	137.0 in. (348.0 cm)
Transport Width (B)	154.0 in. (391.2 cm)
Transport Length (C)	409.0 in. (1038.9 cm)

Torque Specifications

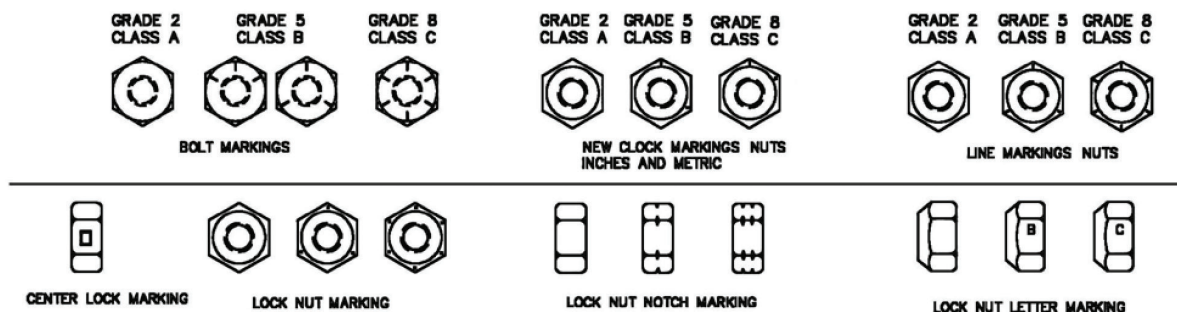
Inches Hardware and Lock Nuts

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



Appendix

Torque Specifications (Cont'd)

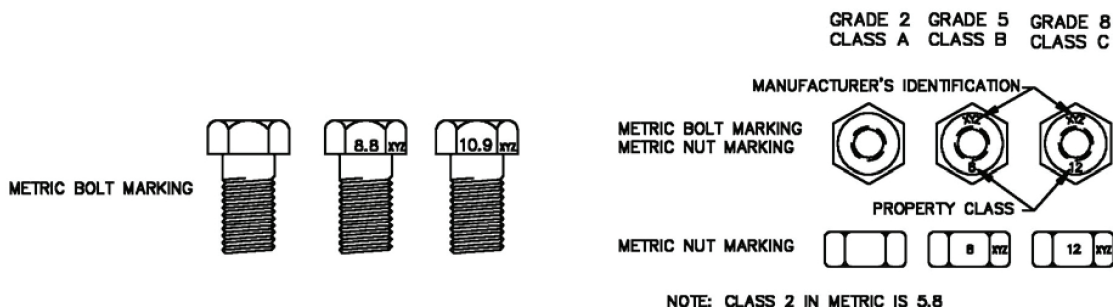
Metric Hardware and Lock Nuts

TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications
(Metric Hardware and Lock Nuts)

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





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