



GRAIN BAG STORAGE SYSTEMS

Grain Bag Unloader

**Owner's Manual and Parts Book
(Originating w/Serial Number 70-172)**



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



LOFTNESS SPECIALIZED EQUIPMENT, INC.

LIMITED WARRANTY POLICY

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

All Loftness products have a one (1) year limited warranty. The XLB10 Grain Bag Loader has a two (2) year limited warranty.

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

Loftness Specialized Equipment, hereinafter referred to as LOFTNESS, a manufacturer of quality machinery since 1956, warrants new LOFTNESS machinery and/or attachments at the time of delivery to the original purchaser, to be free from defects in material and workmanship when properly set up and operated in accordance with the recommendations set forth in the LOFTNESS Operator's Manual.

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

WARRANTY REQUIREMENTS

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

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

LIMITATIONS OF WARRANTY

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

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

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

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

EXCLUSIONS OF WARRANTY

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

No agent, employee or representative of LOFTNESS has any authority to bind LOFTNESS to any affirmation, representation or warranty concerning its machinery and/or attachments except as specifically set forth herein. (October 2020)



Table of Contents

Warranty

Pre-delivery Inspection

Table of Contents

Introduction

Owner Information	1
Serial Number Location	1
Manual Storage	1

Safety Instructions

Safety First	3
Owner's Responsibility	3
Safety Rules	4
Operating Safety	4
Transporting Safety	4
Maintenance Safety	5
Hydraulic Safety	5
PTO Safety	5
California Proposition 65 Warning	5
Safety Decal Locations	6
Machine Decals and Signs	9
Grain Bag Loader Identification	11

Set-up Instructions

Initial Set-up	13
Installing The Hitch	13
Installing The PTO Driveline	13
Installing Grain Bag Unloader to the Tractor	14
Switch to Working Position	15

Operating Instructions

Getting Started	19
Grain Extraction	23
Pause Operation	24
End of Bag Extraction	25
Bag Removal	25
Resealing The Grain Bag	27
Switching to Transport Position	27
Transporting on a Roadway	30
Attaching to a Tractor	30
Grain Bag Unloader Transporting	31

Table of Contents

Maintenance

Maintenance Item Locations	33
General Maintenance	35
Maintenance Schedule	35
Fluids And Lubricants	35
Hydraulic Oil Reservoir	35
Lubrication	36
Grease Points	36
Roller Drive Chain Inspection and Adjustment	39
Roller Chain Inspection	39
Troubleshooting	40

Parts Identification

Assembly Identification	45
Hitch Assembly	47
Hitch Assembly (Cont'd)	48
PTO Driveline (N29800)	50
PTO Driveline (N29801)	51
PTO Driveline (N29802)	52
Axle and Roller Assembly	54
Wheel Hub Assembly	56
Top Auger Assembly	58
Top Auger Assembly (Cont'd)	60
Roller Drive Assembly	62
Roller Drive Assembly (Cont'd)	64
Cross Auger Assembly	66
Cross Auger Assembly (Cont'd)	68
Top Auger (N30390)	70
GBU12 Auger Hanger (N29588)	70
Miscellaneous	71
Miscellaneous (Cont'd)	72
Miscellaneous (Cont'd)	74
Hydraulic Components	76
Hose Assembly	78
Hose Assembly (Cont'd)	80
Valve Assembly	82
Valve Assembly (Cont'd)	84
Hydraulic Reservoir Tank	86
Hydraulic Pump and Regulator	88
Hydraulic Oil Cooler	89
Hydraulic Hose Assembly	90
Electrical (Brake) Diagram (N30094)	92
Axle, GBU12 Left Wired (202846)	93
Axle, GBU12 Right Wired (202847)	93
Kit, GBU12 2-1/2" Dual Spindle (N154230)	94
Spindle, 2-1/2" Dual (N123534)	95
Hub, 6 Bolt 6" (N29054)	96
Kit, GBU12 Cross Auger 10 ft. Extension (N29758)	97
Grease Zerks, Hose Clamps	98

Table of Contents

Appendix

Specifications	99
Dimensions	100
Operation.....	100
Dimensions	101
Transportation	101
Torque Specifications	102
Inches Hardware and Lock Nuts	102
Metric Hardware and Lock Nuts	103



Owner Information

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

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

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

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

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

Serial Number Location



Always use your serial number when requesting information or when ordering parts.

NOTE: The machine's serial number is also stamped in this area (1).

Manual Storage



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



Safety First

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



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, local, state and federal laws.

Operating Safety

- Do not allow anyone to operate the machine until he or she has read the owner's manual and is completely familiar with all safety precautions.
- Do not allow inexperienced persons unfamiliar with the machine, or unfamiliar with safe operating and maintenance procedures, to operate or maintain the machine.
- Do not allow persons under the influence of alcohol, medications, or other drugs that can impair judgment or cause drowsiness to operate or maintain the machine.
- Keep children, bystanders and other workers away from the machine while it is operating. No riders allowed.
- The machine requires an operator at all times. Never leave the machine running and unattended.
- Do not wear loose hanging clothes, neckties or jewelry. Long hair is to be placed under a cap or hat. These precautions will help prevent you from becoming caught in any moving parts on the machine.
- Do wear safety glasses, ear protection, respirators, gloves, hard hats, safety shoes and other protective clothing when required.
- The auger should not be used to handle materials other than those which were specified as part of its design. It is the operator's responsibility to be aware of the specifications and operate the auger accordingly.
- It is the operator's responsibility to be aware of machine operation and work area hazards at all times.

- Operators are responsible to know the location and function of all guards and shields including but not limited to PTO drivelines, gearboxes, chain drives, augers and are responsible to make certain that all guards are in place when operating the machine.
- Operators are responsible to be aware of safety hazard areas and follow instructions on warning, caution, or danger decals applied to the machine.
- Know the area before operating the machine. Be aware of power lines or other equipment. Watch for adequate overhead clearance.
- Always have an operator in the tractor while the machine is in operation.
- Remove from the area of operation all foreign objects such as sticks, wire, rocks, etc., that might become tangled in the augers. These articles can damage the machine or might be thrown and strike other objects.
- Disengage PTO, clutch hydraulic valve and shift tractor into neutral or park before starting engine.
- Never operate the machine with a 1000 RPM to 540 RPM adapter.

Transporting Safety

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

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.
- Do not replace components or parts with other than factory-recommended service parts. To do so may decrease the effectiveness of the machine.
- Do not lubricate parts while the machine is running.
- Do not smoke while servicing the machine.
- Never attempt to make any adjustments while the tractor engine is running or the key is in the "ON" position in the tractor. Before leaving the operator's position, disengage power to the machine and remove ignition key.

Hydraulic Safety

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



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

PTO Safety

- Keep all guards and shields in place when operating the PTO. Replace any damaged or missing guards and shields before operating the PTO.
- Keep children, bystanders and other workers away from the machine while it is operating or while the PTO is engaged. No riders allowed.
- Do not wear loose hanging clothes, neckties or jewelry. Long hair is to be placed under a cap or hat. These precautions will help prevent you from becoming caught in any moving parts on the machine.
- Read and understand the tractor operation and maintenance manual regarding safe and proper operation for PTO driven equipment.
- Never step over or crawl around the equipment while the PTO is engaged; entanglement could occur.
- Do not exceed 540 RPM PTO speed.
- Disengage PTO driveline and place in the stored position when the machine is transported.
- Never use a steel hammer when connecting or disconnecting a PTO shaft.
- Engage and disengage the PTO slowly at idle speed to prevent unnecessary stress to the driveline.
- DO NOT USE PTO ADAPTERS OF ANY KIND.
- Use only recommended shearbolts.

California Proposition 65 Warning



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

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

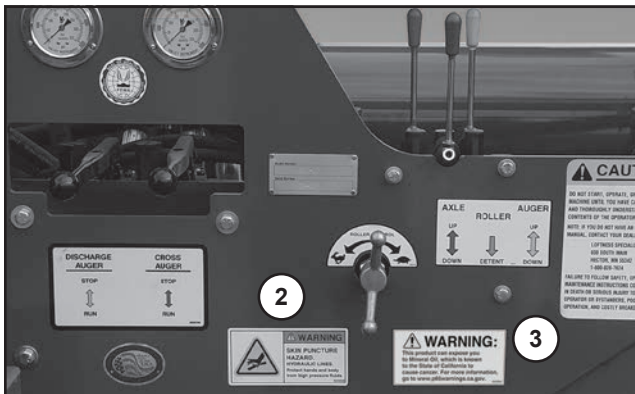
Safety Instructions

Safety Decal Locations

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



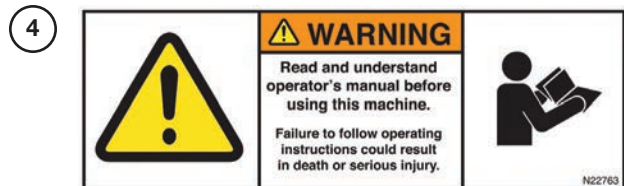
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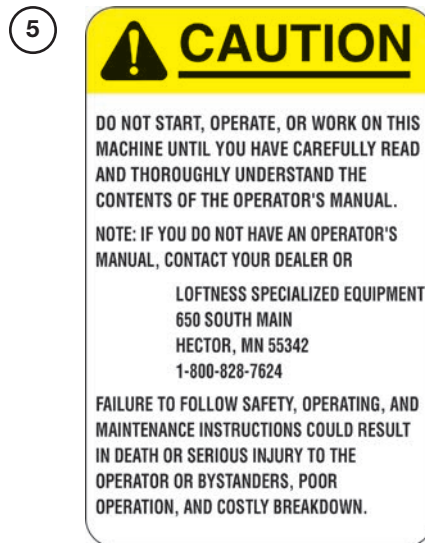
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Part No. 203264

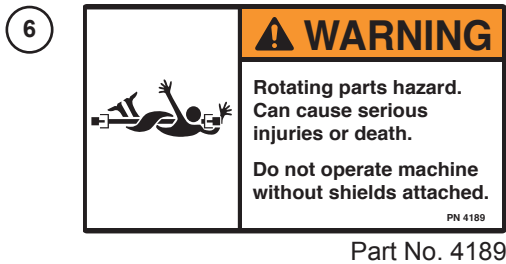
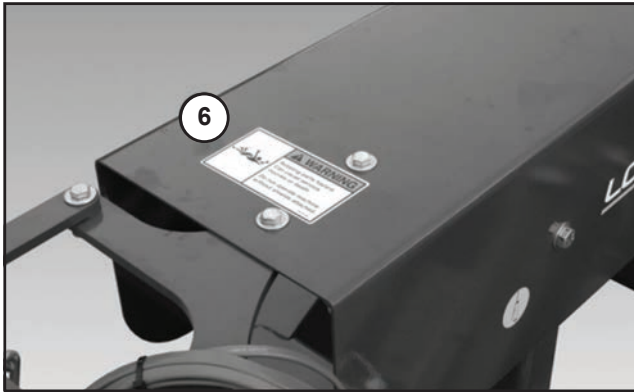


Part No. N22763



Part No. 4256

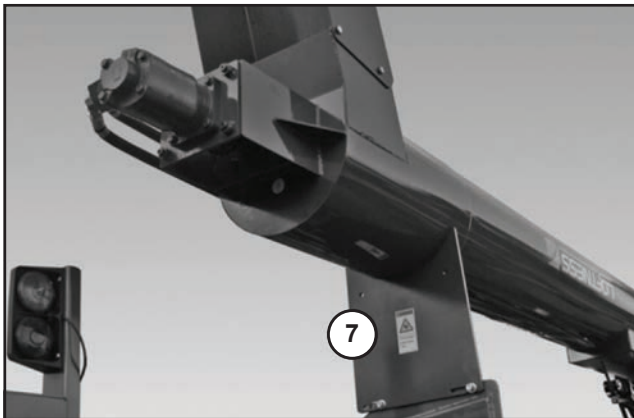
Safety Decal Locations (Cont'd)



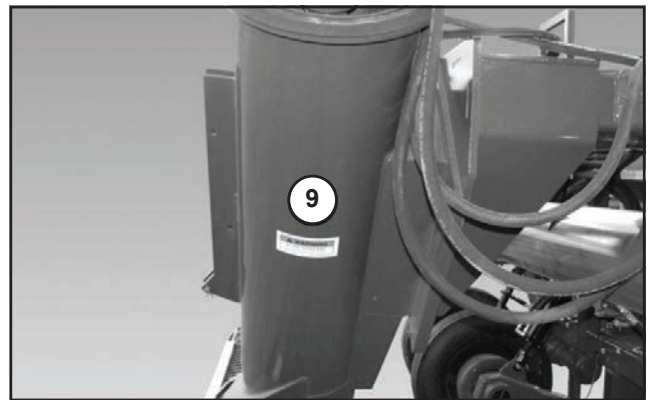
Part No. 4189



Part No. N22734



Part No. N23507



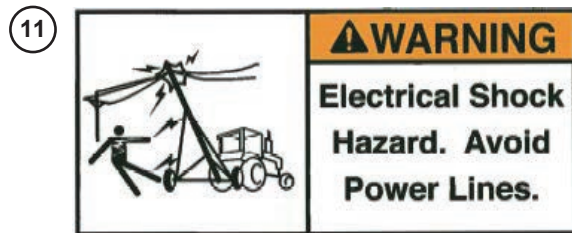
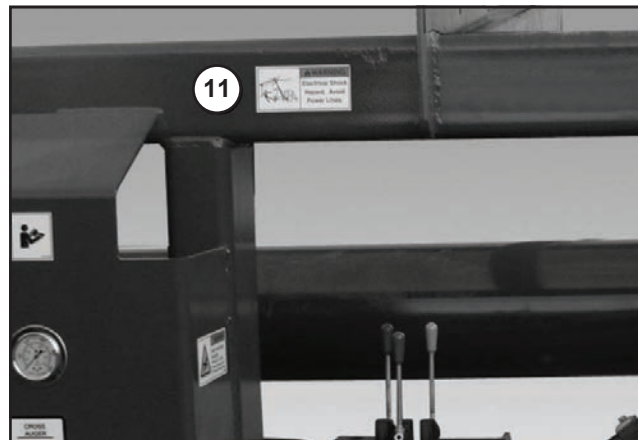
Part No. N22734

Safety Instructions

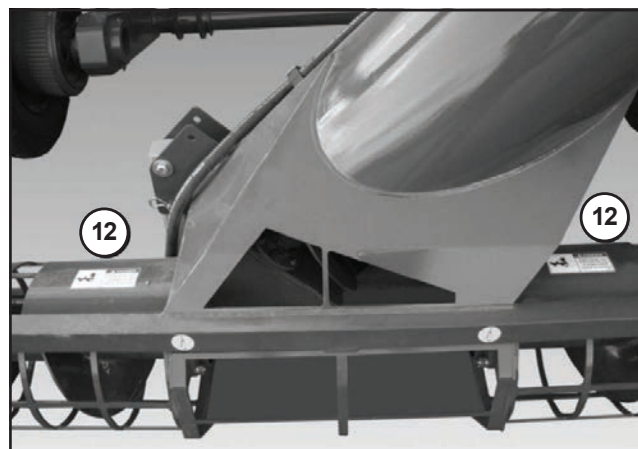
Safety Decal Locations (Cont'd)



Part No. N23507



Part No. N22729



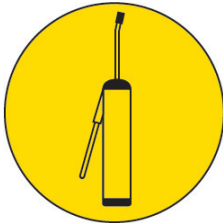
Part No. N22764

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. 4137



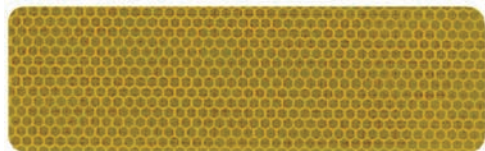
Part No. 4132



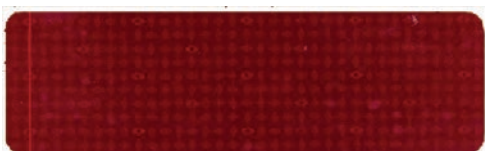
Part No. 4138



Part No. 4140 (Amber Reflector)



Part No. 4141 (Red Reflector)



Part No. N26972 (Large)



Part No. N26973 (Medium)



Part No. N26974 (Small)



Part No. N26976



Part No. N26978



Part No. N26971



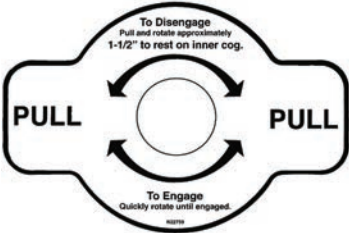
Part No. N13517



Safety Instructions

Machine Decals and Signs (Cont'd)

Part No. N22759



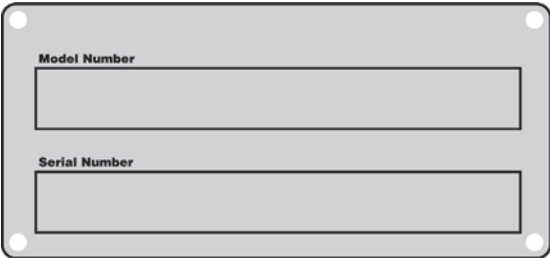
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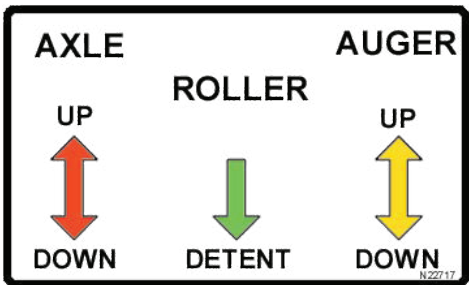
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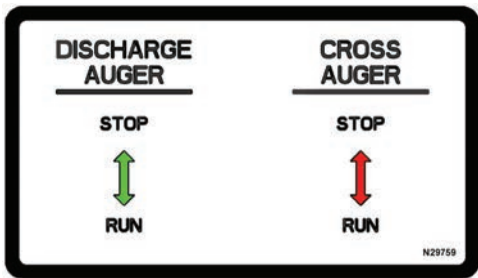
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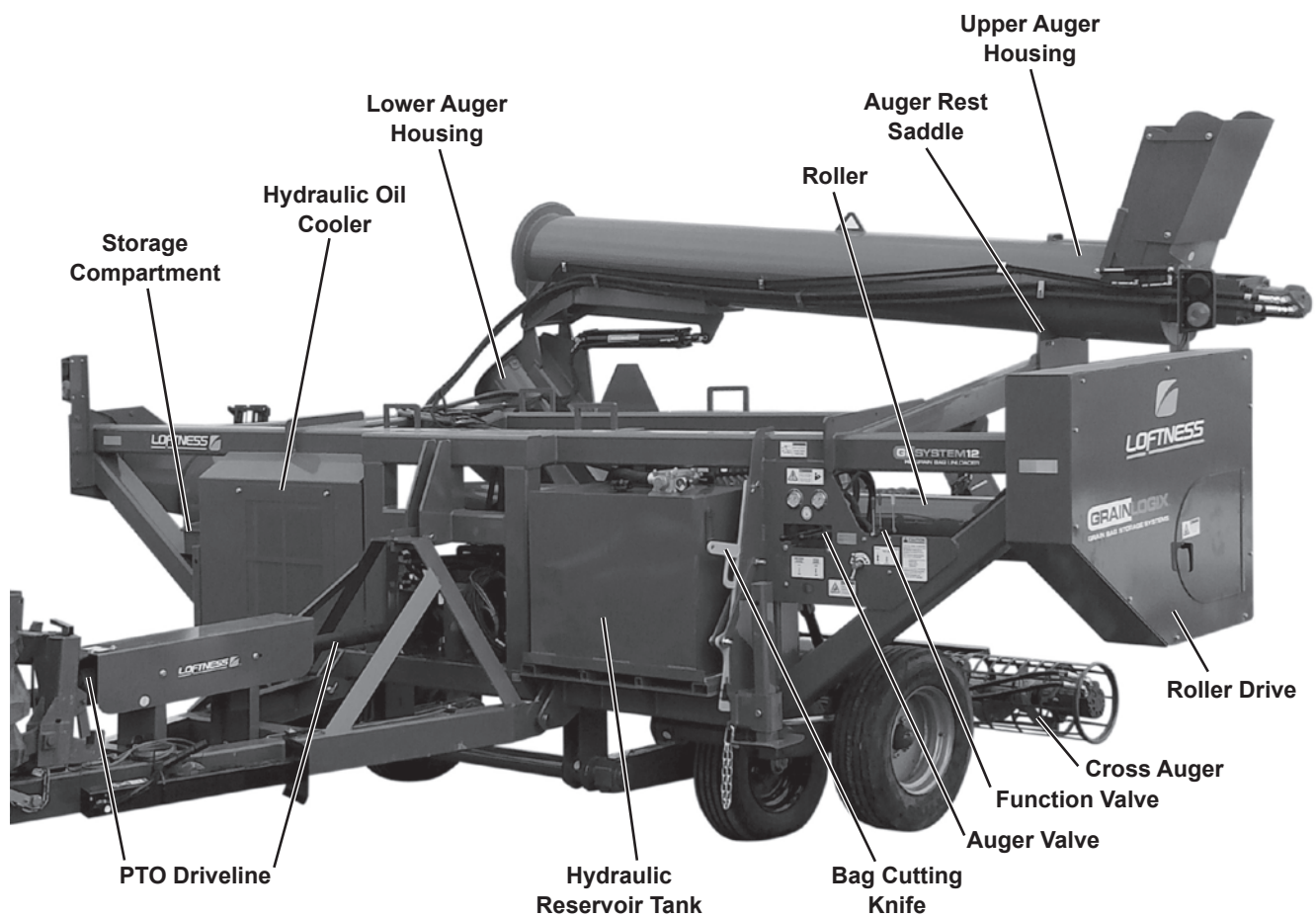
Part No. N22717



Part No. N29759



Grain Bag Loader Identification





Set-up Instructions

Initial Set-up

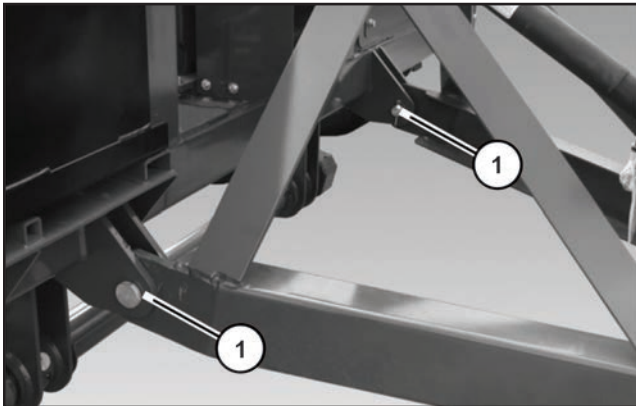
Installing The Hitch

The hitch and PTO driveline are shipped separately from the unloader.

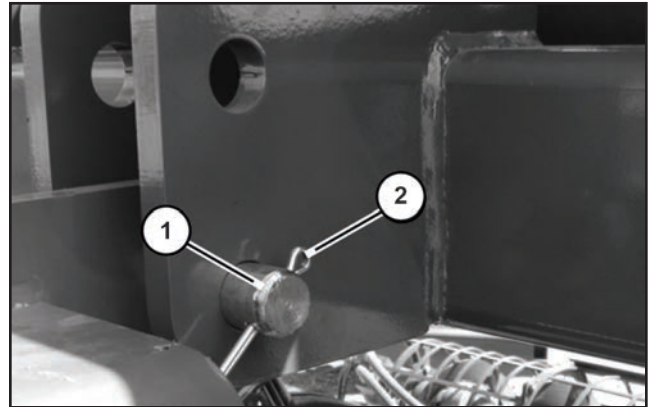


Attach the chains to the hitch and an approved fork lift.

NOTE: Always use chains that are good condition and of adequate size when lifting the hitch.



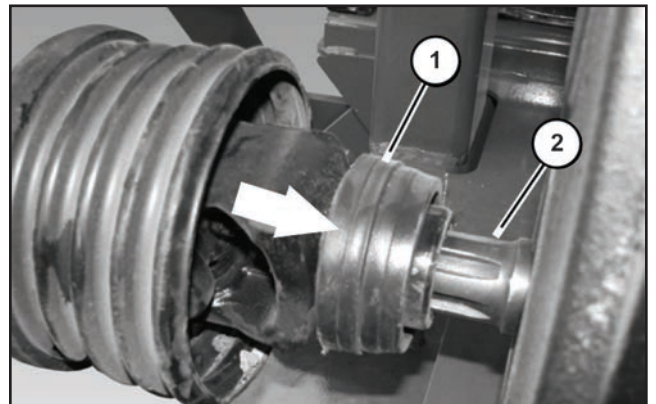
Align the lower hitch mounts with the mounting frame. Install the two pins (1) and cotter pins.



Align the upper hitch mount with the upper bracket on the mounting frame. Install the pin (1) and cotter pin (2).

Lower the jack stand and remove the chains.

Installing The PTO Driveline



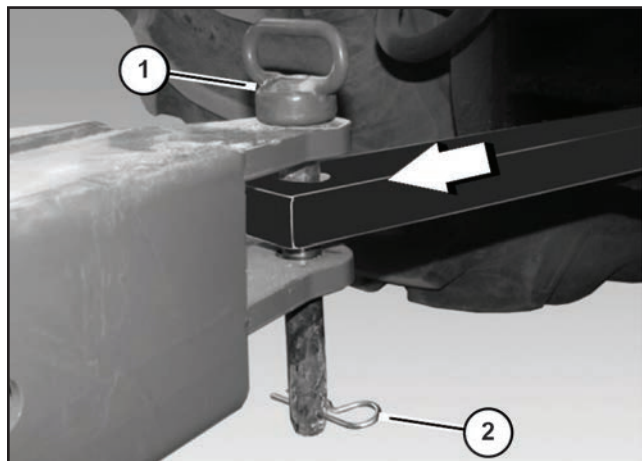
Retract the collar (1) on the PTO driveline and slide forward onto the shaft (2). Push and pull the PTO driveline back and forth several times and make sure it is securely attached to the PTO shaft.



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

Set-up Instructions

Installing Grain Bag Unloader to the Tractor



Back the tractor up to the hitch of the unloader. Insert pin (1) (1-1/8 in. to 1-1/4 in. pin) and secure with retaining clip (2).

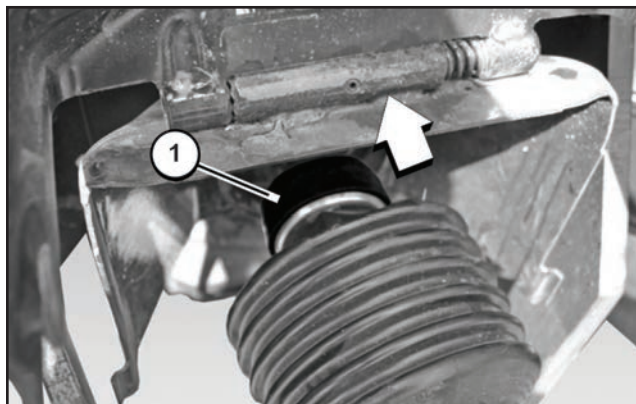


WARNING: Never use a clevis to clevis type connection to secure the implement to the tractor. The machine could separate from the tractor if a clevis pin fails.



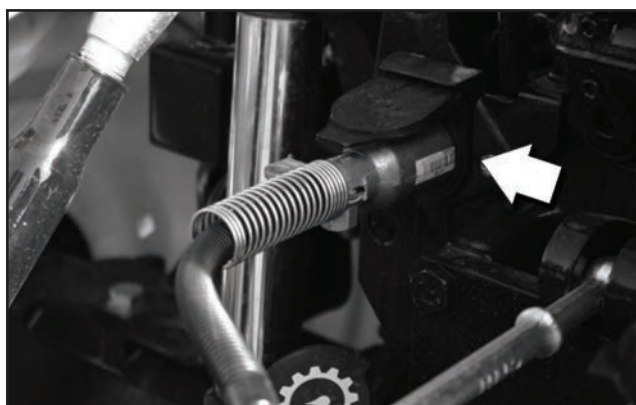
Install the safety chain around the tractor drawbar (1) and install the hook (2) onto the chain.

Remove the PTO driveline from the stored position.



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

NOTE: The PTO driveline is telescopic to fit most lengths. Minimum distance between crosses is 37.8 inches (96 cm) and maximum distance between crosses is 53.5 inches (136 cm). If the distance is more or less than that, refer to the PTO driveline manufacturer's literature for procedures for adjusting the length. It may also be possible to move the draw bar location on the tractor.



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

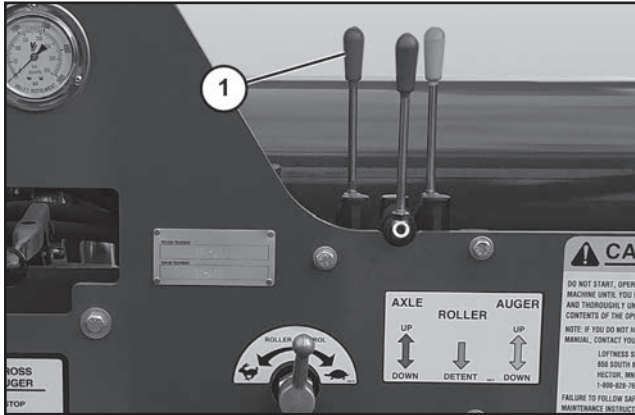
NOTE: If your tractor is not equipped with a 7-Pin electrical connector, an adapter or special wiring may be needed.

Secure the electrical harness up and away from the PTO driveline area.

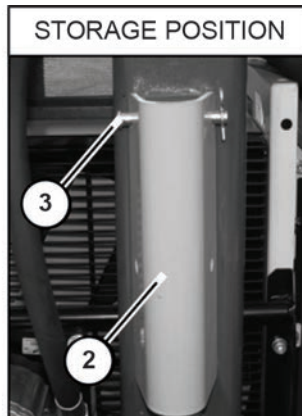
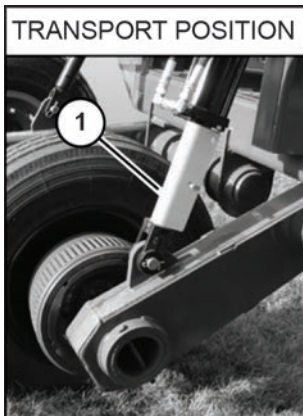
Set-up Instructions

Switch to Working Position

Start the tractor and engage the hydraulic system.



Test the unloader hydraulic system by raising the unloader with the axle lever. Move the axle lever (1) forward to raise the unloader.



Remove the cylinder stop (1) from the axle and place in the storage position (2) and secure with the retaining pin (3) and clip.

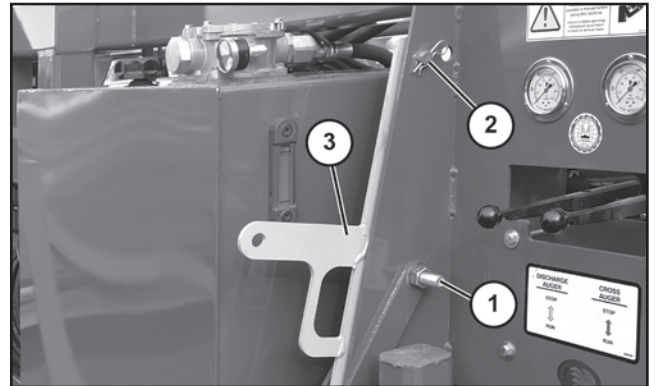
Be sure the PTO driveline, hydraulic connectors and the electrical connector are installed. See "Installing Grain Bag Unloader to the Tractor" on page 14.



WARNING: Wear safety glasses, ear protection, respirators, gloves, hard hats, safety shoes and other protective clothing when required.

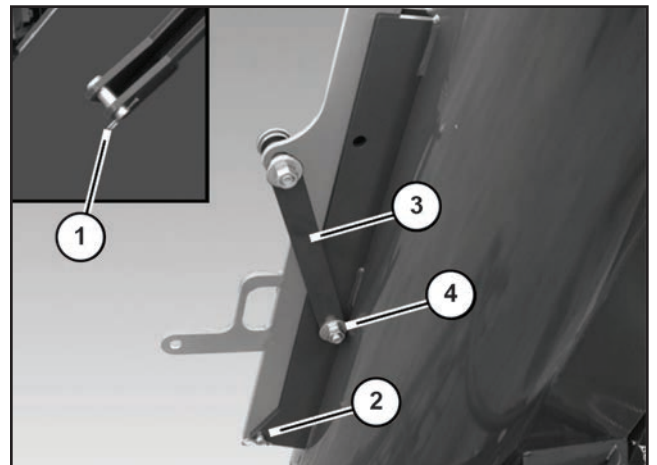


CAUTION: The Bag Cutting Knife is **SHARP!** Use extreme care when placing the bag cutting knife in the work or transport position. Use of gloves is recommended.



Remove the two bolts (1) & (2), nuts and washers. Retain (1) bolt, nut, spacers and washers.

Remove bag cutting knife (3).

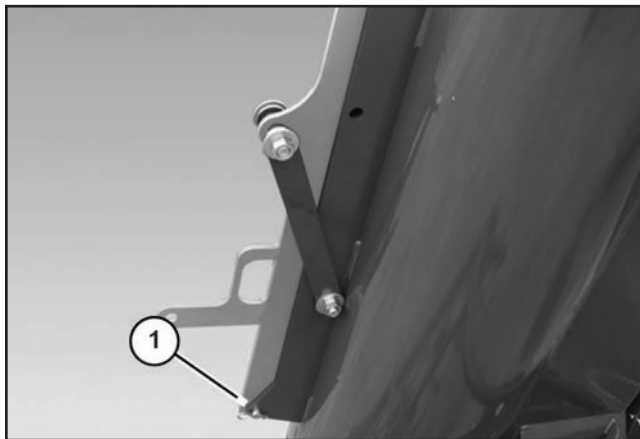


Remove the retaining clip (1) and pin. Place the bag cutting knife (cutting edge in) into the mount on the lower auger. Retain (1) bolt, nut, spacers and washers. Re-install the retaining clip (1) and pin through the bag cutting knife and lower hole of the mount (2).

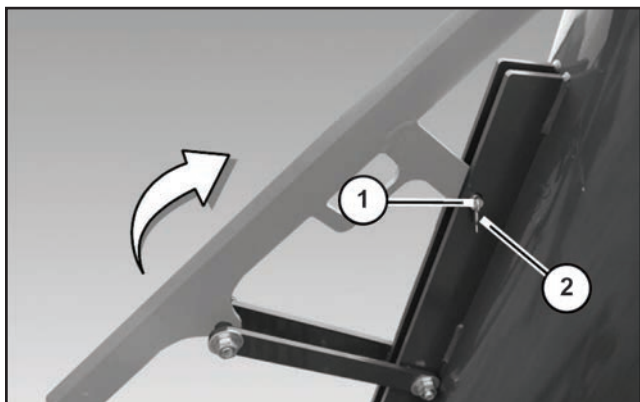
Align the bag cutting knife arm (3) with center hole of the mount. Retain (1) bolt, nut, spacers and washers. Install the bolt, nut, spacers and washers removed on page 16 through the mount and bag cutting knife arm (4) and tighten.

Set-up Instructions

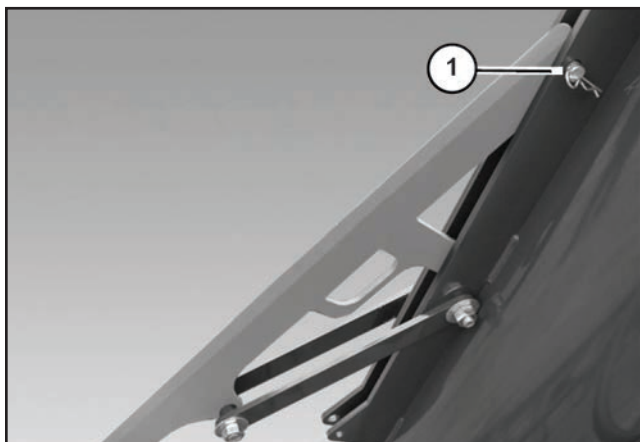
Switch to Working Position (Cont'd)



Remove the lower retaining clip (1) and pin on the bag cutting knife.



Using the handle, pivot bag cutting knife to the operating position and insert pin and retaining clip into bottom hole (1) of bag cutting knife.



NOTE: Use the top hole (1) if the grain bag is flatter.

Knife Sharpening

IMPORTANT: At this point during the initial setup, the factory paint must be removed from the knife edge to obtain a sharp, clean cut.



CAUTION: The Bag Cutting Knife is SHARP! Use extreme care when sharpening the knife edge. Use of gloves is required.



With a piece of emery cloth, slide the emery cloth slowly up and down the knife edge using light pressure to remove the paint.

Periodically check the sharpness of the bag cutting knife. Repeat this procedure to maintain a sharp edge throughout the life of the machine.

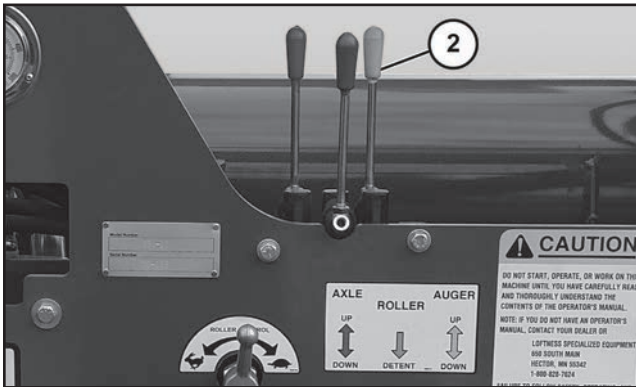
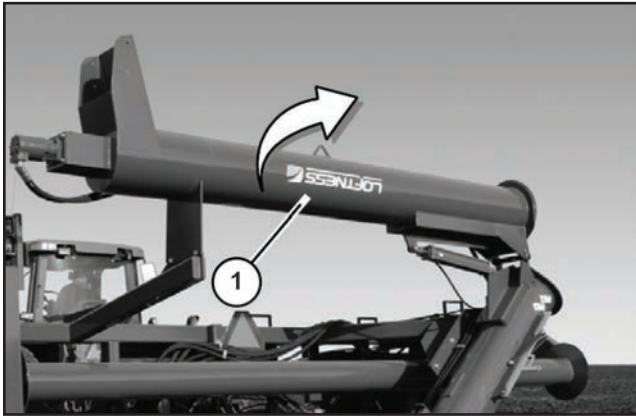
(Procedure continued on following page.)

Switch to Working Position (Cont'd)

Engage the hydraulics on the tractor.



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



Raise the top auger (1) to the operating position.

Move the auger lever (2) forward to raise the top auger.

Be sure both augers are fully connected and sealed to ensure no grain can escape.



CAUTION: Pinch point. Keep hands clear of folding auger.



Operating Instructions

Getting Started

Extracting grain from the bag requires three people. One person is needed in or on the tractor at all times to start and stop the PTO shaft and to guide the tractor on center. Another person is needed at the unloader to monitor grain intake and to pause the unloader when the grain transport vehicle is full. The third person is needed to move the grain transport vehicle and monitor when the vehicle is full.



WARNING: Do not wear loose hanging clothes, neckties or jewelry. Long hair is to be placed under a cap or hat. These precautions will help prevent you from becoming caught in any moving parts on the machine.



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



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

Start extracting grain at the end of the grain bag where the storage process was finished. The extra length of bag that is left at the end of storage process will make it easier to wrap the bag around the unloader's roller and start the extraction process.

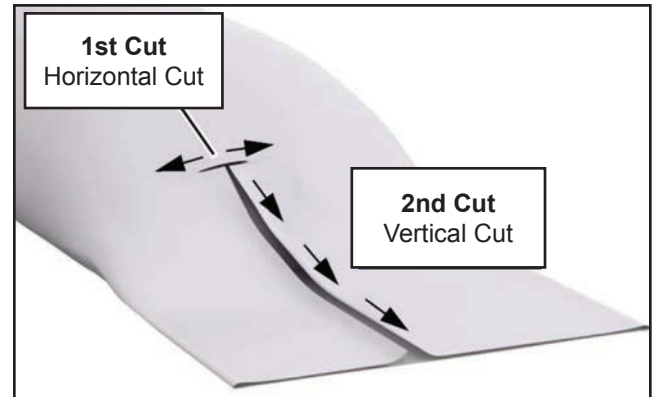
NOTE: Extraction from the opposite end of the grain bag is possible, but it will require removing some grain manually before you are able to extract grain with the unloader.



Remove the bag end from underneath the grain bag and unroll to expose the planks.

Remove the planks sealing the bag.

NOTE: The bag may be cut with a utility knife to remove the planks. Cut the bag at the planks, leaving as much of the bag end as possible.



First, make a horizontal cut, approximately 12 in. (305 mm) long, towards the top where the bag is more full. The cut should be slightly off center where it would line up with the unloader's cutting knife (1).



CAUTION: Do not enter inside the bag. Potential entrapment and suffocation are possible.

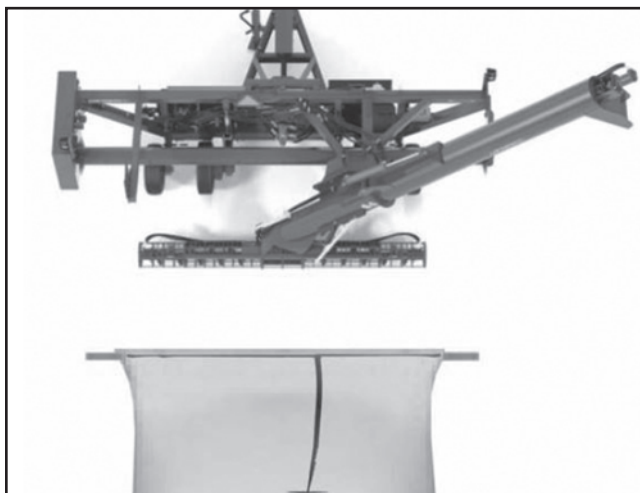
NOTE: It is important to make the horizontal cut first, before any vertical cuts are made, or the bag could keep opening completely from being stretched and full of grain. Do not cut into the tension portion of the bag.

Second, make a vertical cut just below the horizontal cut all the way to the end of the bag. The cut should line up with the unloader's cutting knife (1).

NOTE: If there is not enough grain bag to attach it to the unloader's roller, some grain will need to be extracted manually. Remove enough grain until the bag can be installed onto the roller.

Operating Instructions

Getting Started (Cont'd)

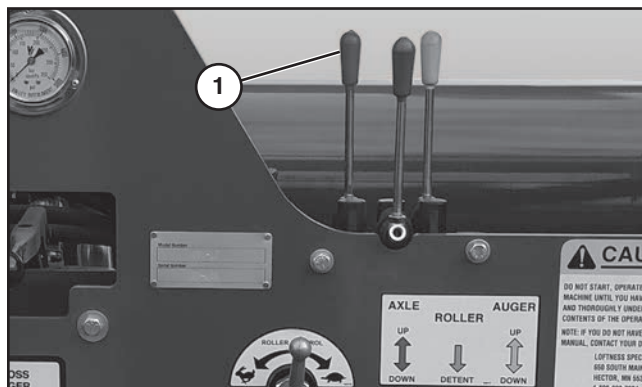


Move the tractor and unloader into position at the end of the grain bag. Center the tractor and unloader on the grain bag.

NOTE: *Proper centering in the beginning will make the grain extraction process much easier.*

NOTE: *If the unloader is off center during set-up or becomes off center during operation, the grain bag will roll up unevenly on the bag roller and put undo stress on the unloader. If this occurs, stop operation, roll out bag, re-align the tractor and unloader and restart operation.*

Engage the hydraulics on the tractor.



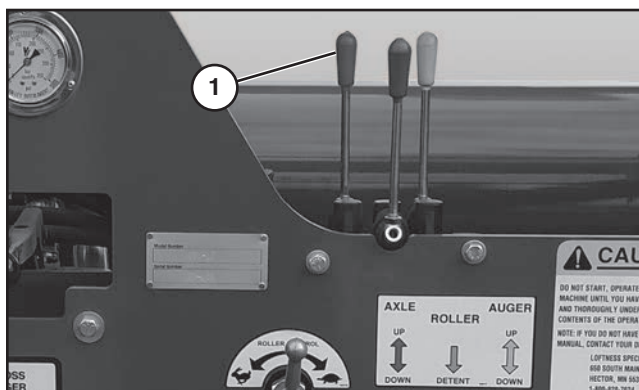
Push on the axle lever (1), lifting the transport wheels off the ground, putting pressure on the outside wheels (working wheels).



Use the handle (1) on the ratchet jack to raise or lower the cross augers. Repeat the procedure on the opposite side of the unloader.

NOTE: *Lower/raise the axle until the cross augers are approximately 3 in. (76 mm) off the ground.*

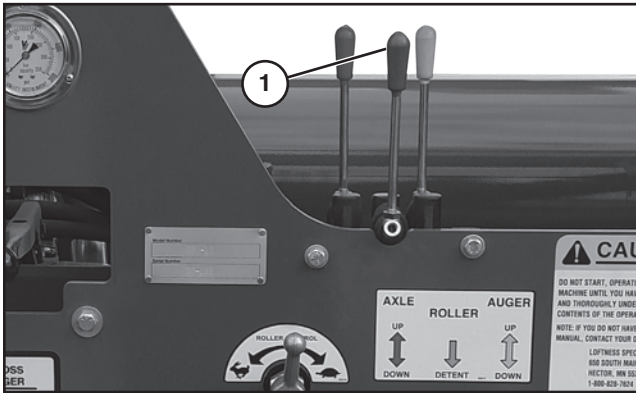
Adjust both ratchet jacks on the working wheels until the cross augers is level.



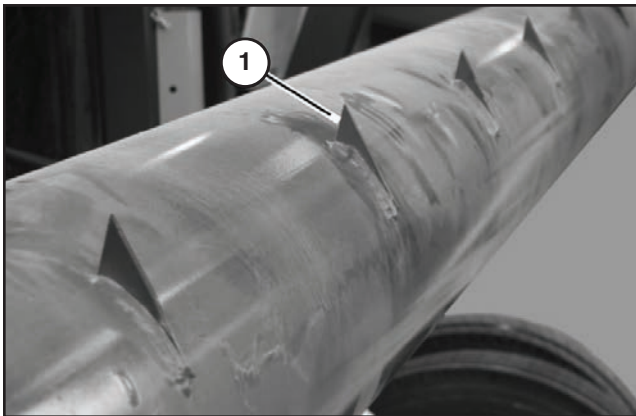
Pull on the axle lever (1), lowering the axle until the transport wheels contact the ground without raising the outside working wheels.

NOTE: *Lowering the transport wheels to the ground will help stabilize and keep the cross auger level during the grain extraction process.*

Getting Started (Cont'd)



Use roller lever (1) to start and stop roller rotation.



Rotate the bag roller until the roller teeth (1) are in the position shown above.



CAUTION: The bag roller teeth are sharp!
Keep clear.



Back the tractor and unloader over the end of the bag (between the wheels) and slide the bag underneath the cross augers. Back up until the bag end reaches the bag roller.

Take the tractor out of gear, and engage hydraulics.

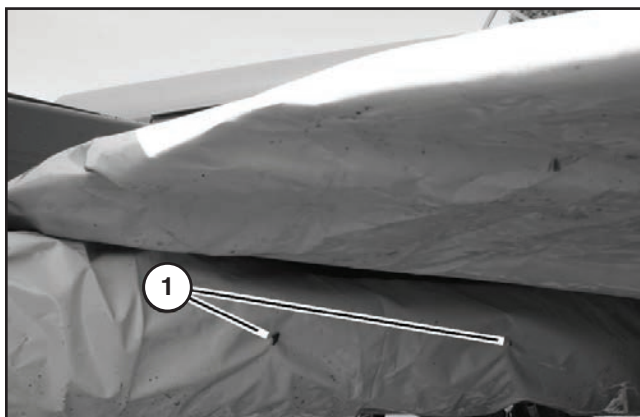
IMPORTANT: Do not engage PTO shaft before bag is attached and in operational position. The bag could get entangled in the cross augers.

Operating Instructions

Getting Started (Cont'd)

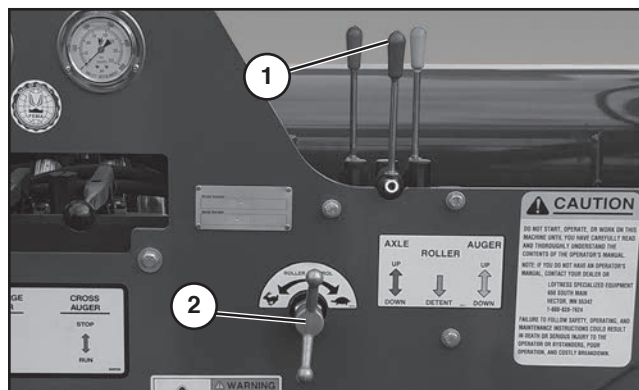


Wrap the grain bag over the top side of the roller.



Wrap the bag evenly and completely around the roller to secure the bag on the roller teeth (1).

NOTE: *It is very important that the bag be wrapped around the roller as evenly as possible. Make sure the bag engages the roller teeth.*



Pull the roller lever (1) into the detent position. The roller will start rotating and pulling the grain bag unloader and tractor into the bag.

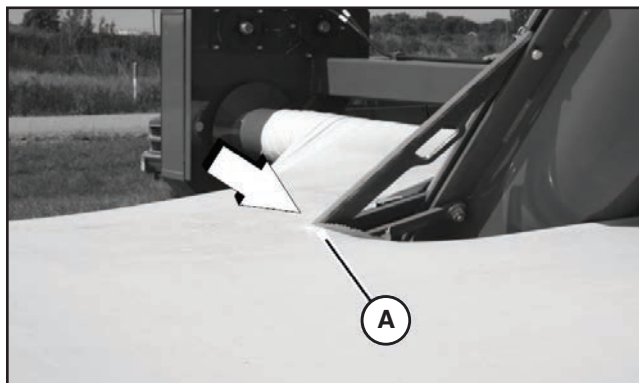
NOTE: *Make sure the parking brake is OFF.*

NOTE: *Guide the bag as it first starts advancing onto the roller to make sure the bag is straight and even on the roller.*

Adjust the speed of the roller with the roller control knob (2). Turning the knob counter-clockwise will increase roller speed and turning the knob clockwise will decrease roller speed.

Roll up enough of the grain bag to make the bag taut and the cross augers buried in the grain.

Bag cutting knife on the grain bag unloader should be in-line with the starting cut on the grain bag.



NOTE: *It may be necessary to use a wooden push pole to reach over the bag and help align the plastic bag with the starting cut and the cutter (A).*

Operating Instructions

Grain Extraction

NOTE: Once the grain bag has been opened, it is recommended that the grain bag be emptied completely.



Move the grain transport vehicle into position.

The grain transport vehicle (1) needs to maintain adequate room for maneuvering.

Engage the tractor rear-PTO at a slow speed. This will ensure grain will start flowing up the auger. Gradually increase the PTO speed until it reaches 1000 RPM.

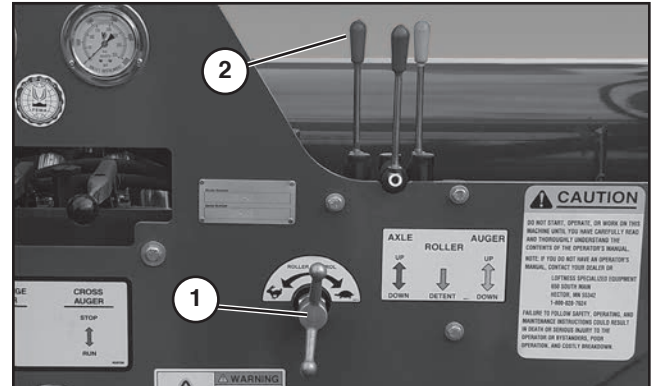


DANGER: Keep hands, feet and clothing clear of augers while tractor is running.

The roller should be engaged and moving at a slower speed. Adjust roller speed if necessary.



Once extraction has begun and the grain bag unloader is deeper into the bag, be sure the bag cutting knife is cutting the bag properly.



Adjust the roller speed (1) and roller height (2) to avoid grain build-up by the roller and the lower mound at the bottom of the bag.



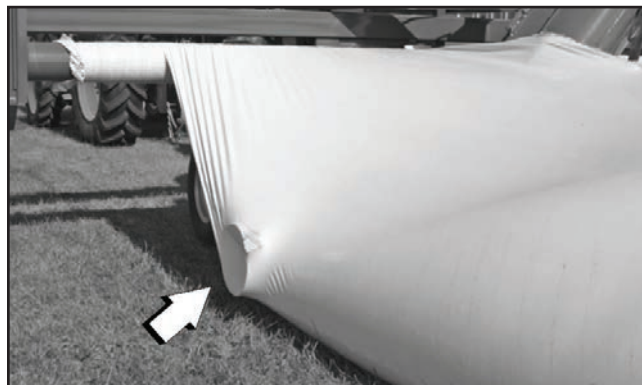
The grain should be just below roller height. Cross auger height should be 3 in. to 4 in. (76 - 102 mm) above the ground.

Operating Instructions

Grain Extraction (Cont'd)



The mound at the bottom of the bag should be adequate distance from the tires on the grain bag unloader.

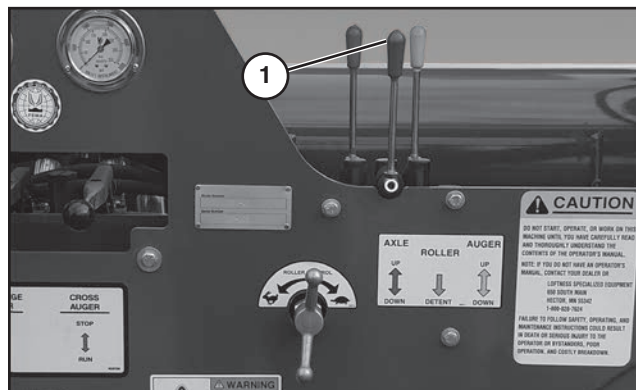


NOTE: *If the tractor and unloader are not aligned with the bag properly or if the bag is not wrapped around the roller evenly, the cross augers may come in contact with the bag. Stop the extraction process.*

Realign the tractor and unloader with the bag.

Also check to see that the bag is wrapping around the roller evenly. If not, remove the bag (See “Bag Removal” on page 25.) and adjust it so it wraps around the roller evenly. See page 22 for correct bag installation procedure.

Pause Operation



Move the roller lever (1) forward to remove it from the detent position to stop bag roller rotation.

Gradually decrease the PTO speed and disengage the tractor PTO.

To restart operation, See “Grain Extraction” on page 23.

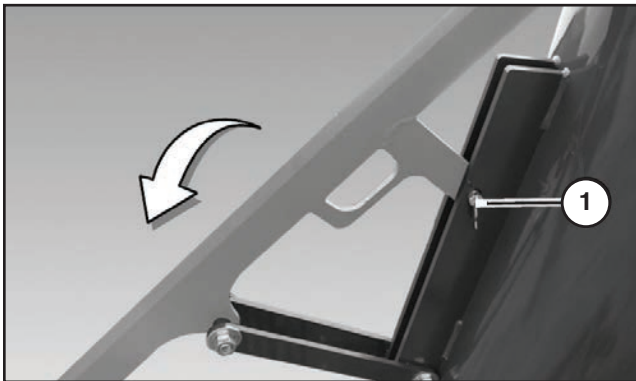
Operating Instructions

End of Bag Extraction

NOTE: Once the grain bag is opened, it is recommended that the grain bag be emptied completely.

It is important to reach the end of the grain bag with the unloader as centered as possible.

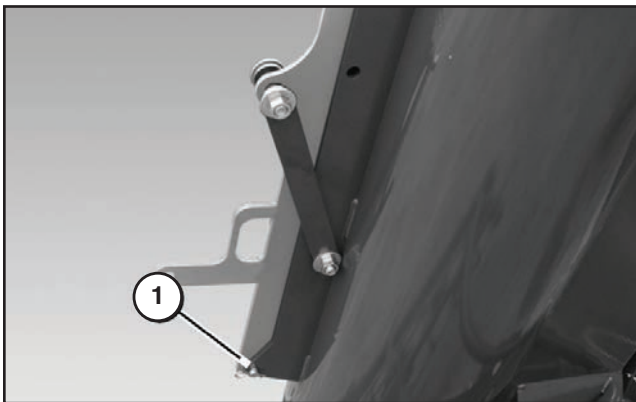
Grain can be extracted until the cross augers touch the end of the grain bag.



Remove the retaining clip (1) and pin. Using the handle, pivot bag cutting knife into the storage position.

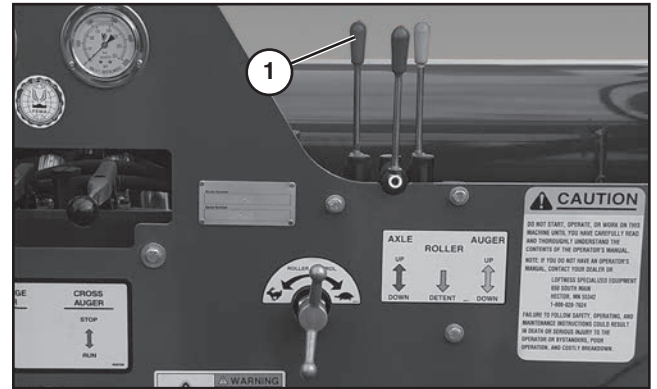


CAUTION: The Bag Cutting Knife is **SHARP!** Use extreme care when placing the bag cutting knife in the work or transport position. Use of gloves is recommended.



Install the pin (1) and retaining clip securing the bag cutting knife in the storage position.

Bag Removal



Push the axle lever (1) forward to raise the axle and cross augers.



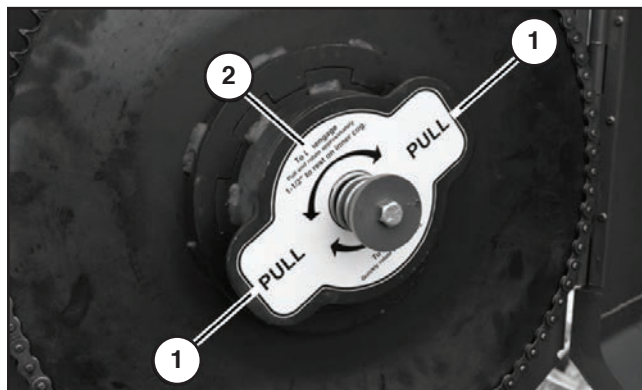
WARNING: Do Not Open Door while tractor is running. Moving parts can crush and cut. Keep clear of moving parts.



Release the latch (1) and open the roller drive door (2).

Operating Instructions

Bag Removal (Cont'd)



Pull on the handles (1) to disengage the roller clutch (2) until it locks in the open position. The roller should move freely.

NOTE: *The cogs should rest on the inner cogs.*



Drive the tractor forward slowly until the bag is fully unrolled. Watch and guide the bag as it is coming off the roller.

NOTE: *Remaining grain will need to be cleaned up with a loader or grain vac.*

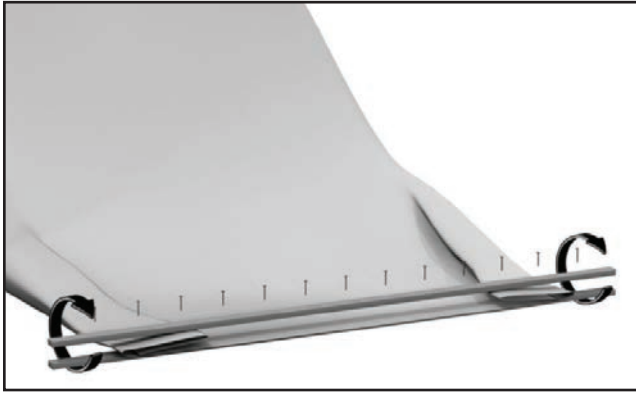
Fold or roll the used bag as small as possible.

NOTE: *The grain bags are recyclable. Contact your local recycling center for details on disposing of the used grain bags.*



Re-engage the clutch (1) by quickly rotating in either direction and snapping back into place.

Resealing The Grain Bag



Fold each side of the grain bag towards the center. Start the fold approximately 2 ft. (.609 m) up the side of the bag, then fold to the center (on both sides).

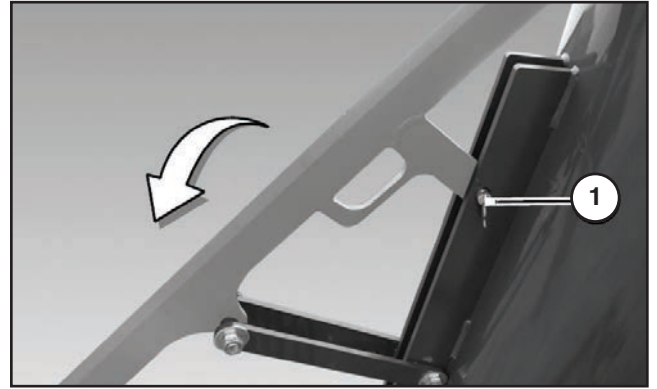
Place one plank (1) underneath the grain bag approximately 12 in. (304.8 mm) back from the end of the bag. Place a second plank (2) on top of the grain bag (3) and first plank.

Align the top and bottom planks and fasten the two planks together.

Roll the grain bag around the planks a minimum of two times. Position the planks approximately 3 ft. (.914 m) back underneath the grain bag.

NOTE: *Place adequate weight on the bag end and planks to hold in place.*

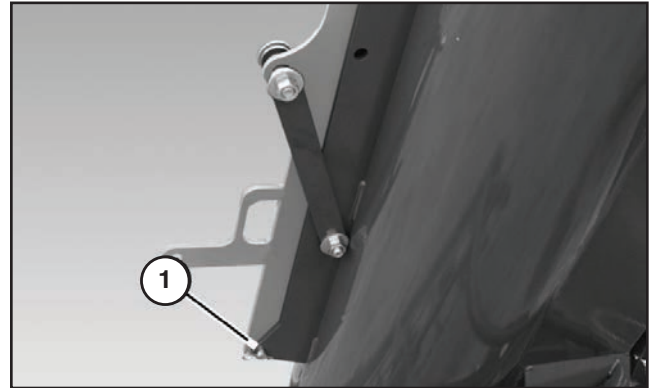
Switching to Transport Position



Remove the retaining clip (1) and pin. Using the handle, pivot bag cutting knife into the storage position.



CAUTION: *The Bag Cutting Knife is SHARP! Use extreme care when placing the bag cutting knife in the work or transport position. Use of gloves is recommended.*

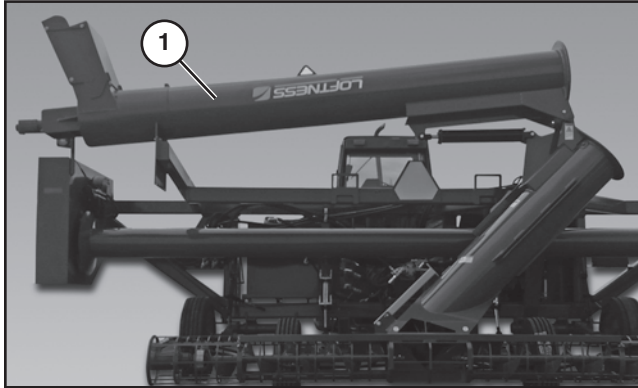


Install the pin (1) and retaining clip securing the bag cutting knife in the storage position.

Engage the PTO on the tractor.

Operating Instructions

Switching to Transport Position (Cont'd)

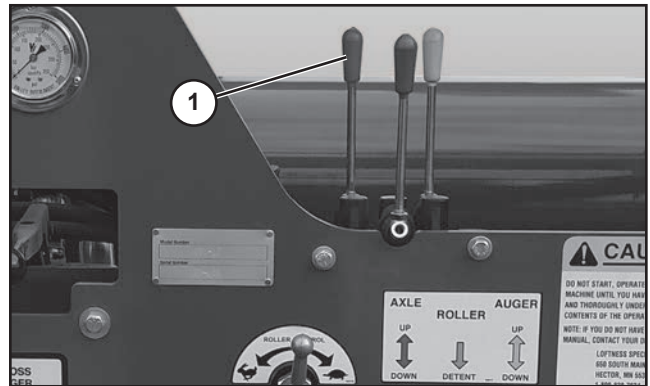


Lower the top auger (1) to the transport position.

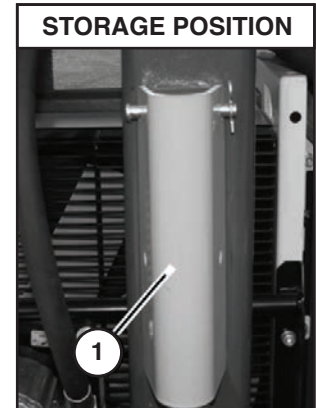
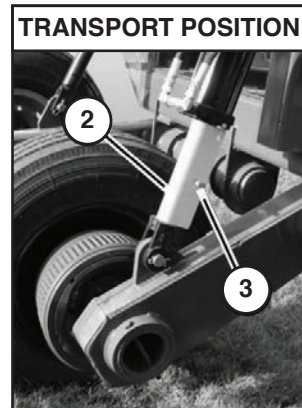
Pull the auger lever (2) to lower the top auger.



CAUTION: Pinch point. Keep hands clear of folding auger.



Pull back on the axle lever (1) to raise the unloader.

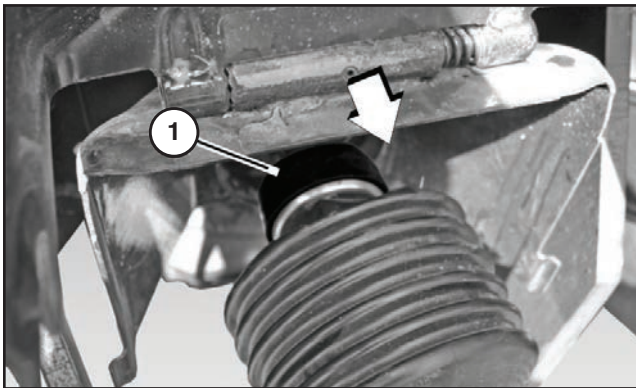


Remove the cylinder stop(s) (1) from the storage position and place on the axle cylinder(s) (2) and secure with the retaining pin (3) and clip.

Switching to Transport Position (Cont'd)



Use the handle (1) on the ratchet jack(s) to raise the working wheels off the ground (both sides).



Remove PTO driveline safety chain.

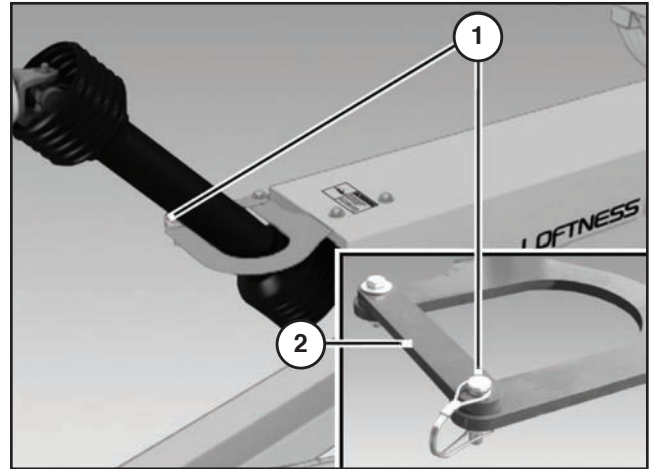
Retract the PTO driveline sleeve (1), then pull the unloader PTO driveline off the tractor PTO drive shaft.



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

Place the PTO driveline in the stored position.

NOTE: Disconnecting the PTO driveline is not required when transporting the grain bag unloader with a tractor.



Remove the retaining clip and pin (1) and rotate the PTO holder bar (2) out. Rotate the unloader PTO driveline up into the stored position.

Rotate the PTO holder bar (2) in and install the retaining clip and pin (1) securing the unloader PTO driveline in the stored position.

NOTE: The electrical connector must stay attached for transporting on the highway with a tractor. See "Transporting on a Roadway" on page 30.

NOTE: Secure all hydraulic hoses and the electrical harness before transporting.

Operating Instructions

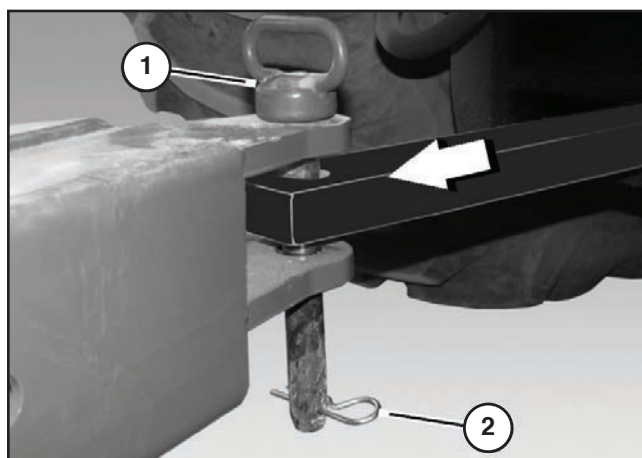
Transporting on a Roadway

The grain bag unloader must be in the transport position. See "Switching to Transport Position" on page 27.

Turn on the hazard warning lights and headlights during road travel.

Do not exceed speed rating (20 mph) on the factory-provided tires.

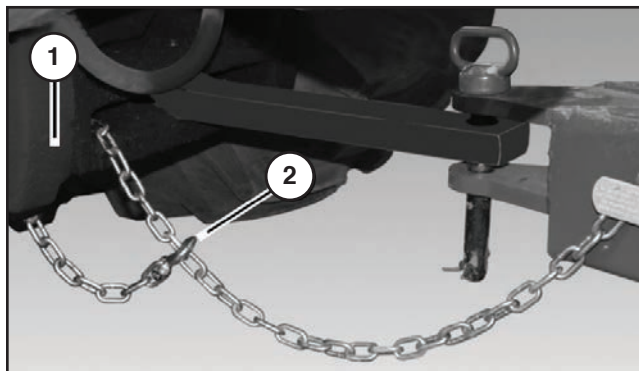
Attaching to a Tractor



Back the tractor up to the hitch of the unloader. Insert pin (1) (1-1/8 in. to 1-1/4 in. pin) and secure with retaining clip (2).



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.*



Install the safety chain around the tractor drawbar (1) and install the hook (2) onto the chain.

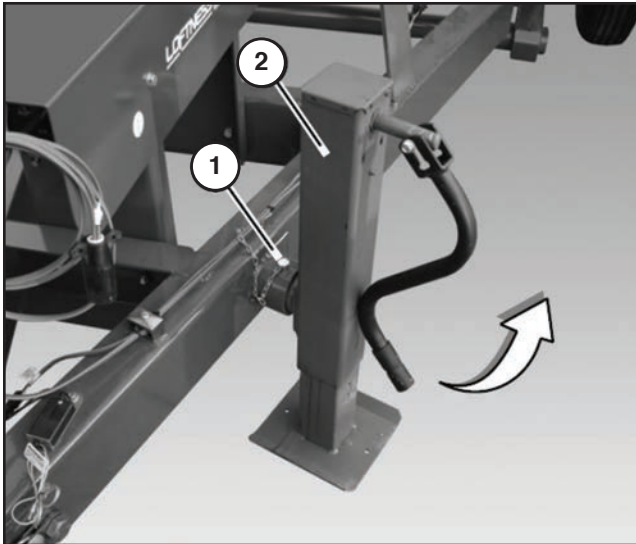


Install the 7-pin electrical harness to the tractor's electrical connector.

Transporting on a Roadway (Cont'd)

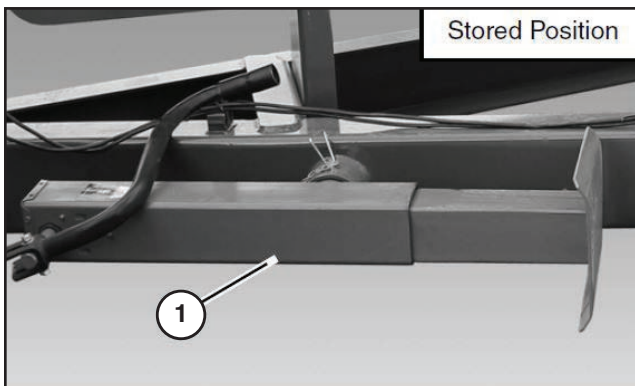
Grain Bag Unloader Transporting

Place PTO driveline in the stored position (See page 29).



NOTE: *Tongue jack must be in the stored position before transporting.*

Remove pin (1) rotate the tongue jack (2) to the stored position and reinstall pin.



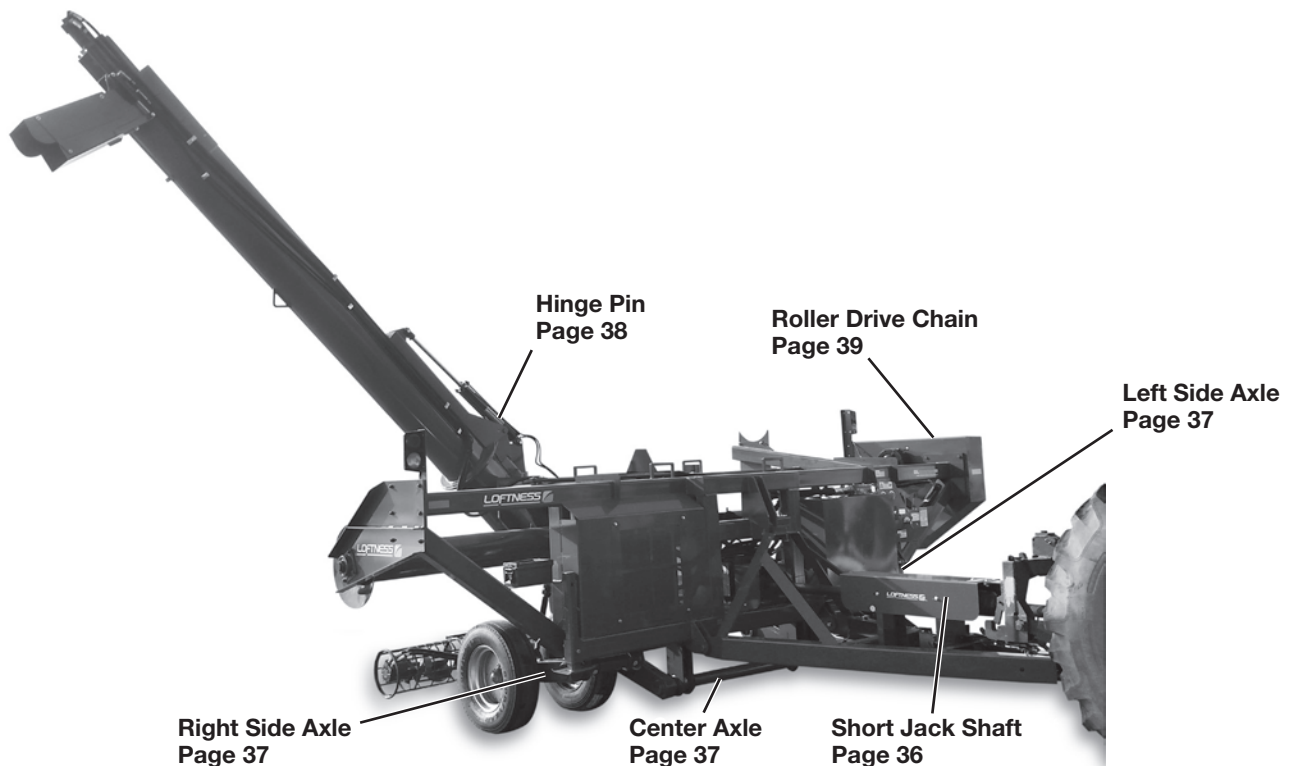
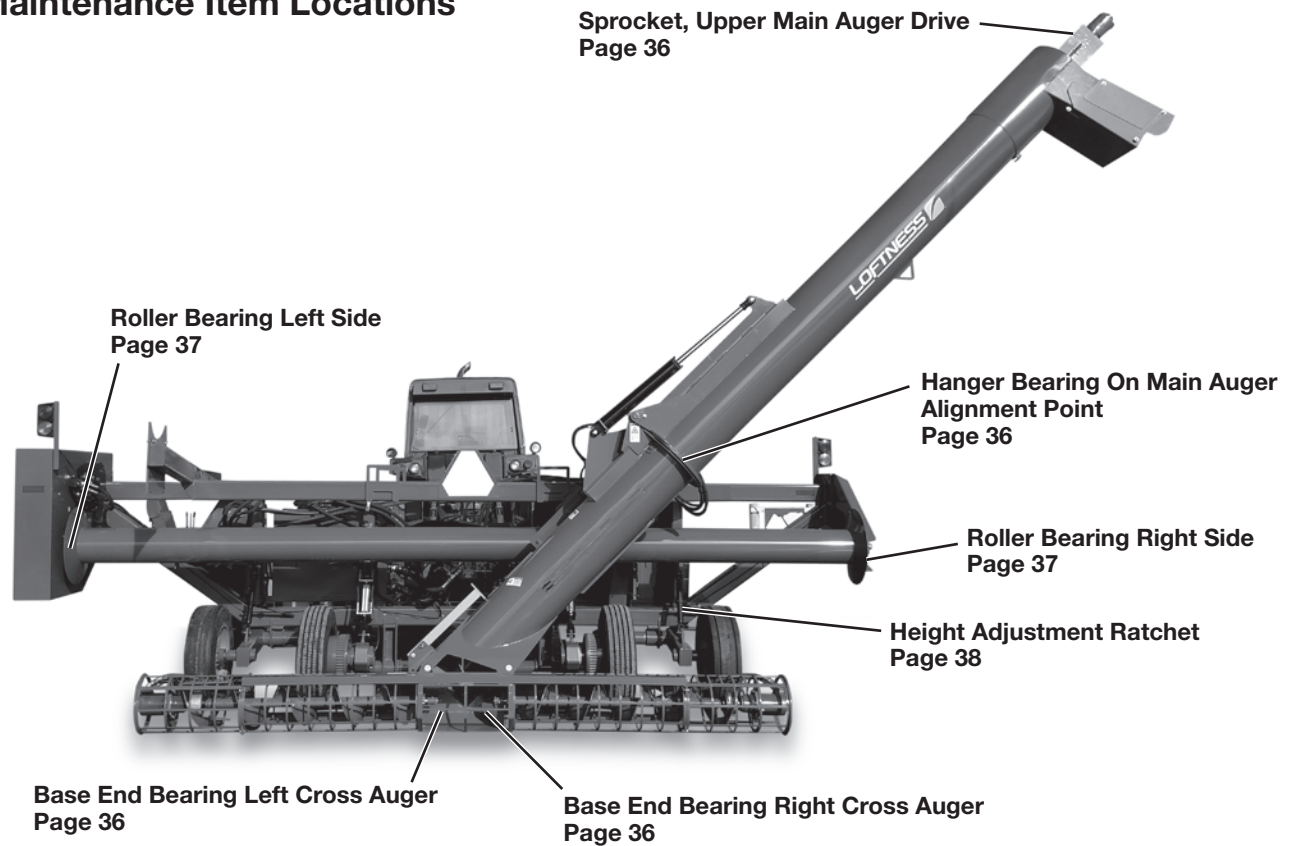
The tongue jack (1) must be in the stored position.



GBU12 shown in the transport position.




Maintenance Item Locations





General Maintenance

See “Maintenance Safety” on page 5. before performing any service or maintenance on the grain bag loader.

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


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

Proper lubrication is important. Too little lubricant will cause premature failure of a bearing. Too much lubrication usually causes high operating temperature and early failure of seals. Follow all lubrication instructions and schedules included in this section.

Maintenance Schedule

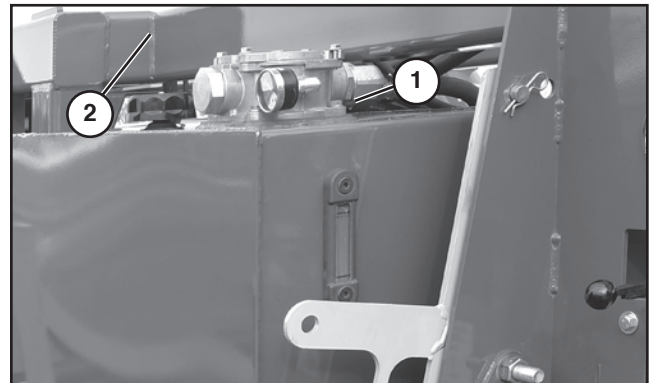
HOURS	SERVICE POINTS	SERVICE REQUIRED
		CHECK
Every 8	Drive Chain Tightness	X
Every 50	Bearing Set Screws	X
	Sprocket Set Screws	X
	Brake Pads	X
	Safety Labels	X
Every 100	Hoses and Wiring	X
	Oil Leaks	X
	Wheel Bearings	X
Annually	PTO Driven Gearbox Oil Level	X
	Bag Roller Gearbox Oil Level	X

Fluids And Lubricants

	CAUTION: Use proper safety procedures when handling petroleum products including, but not limited to, the use of rubber gloves and eye protection.
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1. Grease - Use an SAE multipurpose high temperature grease with extreme-pressure (EP) rating. Also acceptable is an SAE multipurpose lithium based grease.
2. PTO Driven Gearbox - Use 56oz of 75w-90 Synthetic Severe gear lube.
3. Bag Roller Gearbox - Use 88 oz. of 85W-140 gear lube.
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.
5. Use universal tractor fluid, approximately 70 gallons.

Hydraulic Oil Reservoir



The hydraulic oil level should be approximately centered in the sight gauge (1) on the hydraulic oil reservoir.

To add hydraulic oil, remove fill cap (2), add hydraulic oil and reinstall fill cap.

Maintenance

Lubrication

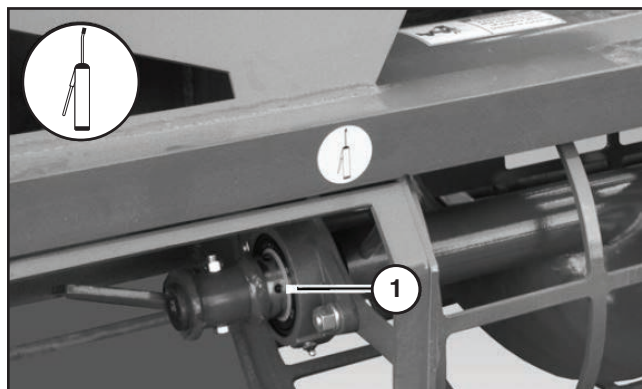
Grease Points

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

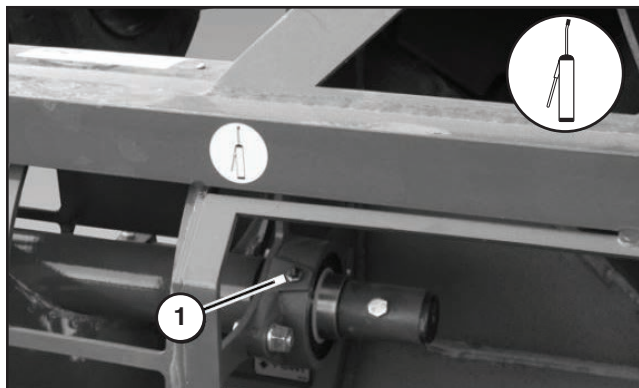
NOTE: See "Grain Bag Loader Identification" on page 11 for component location and identification.



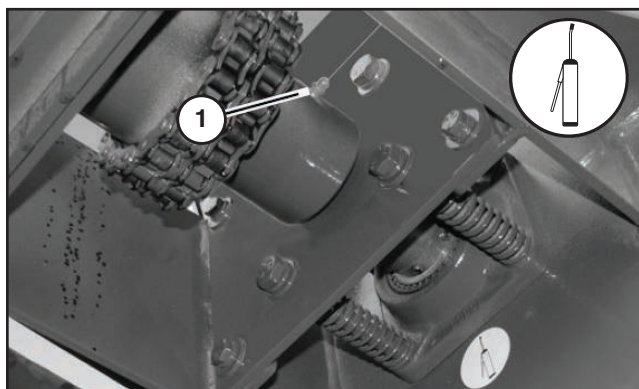
Location: Bearing each end of the short jack shaft (1)
Interval: Every 8 hours of operation.



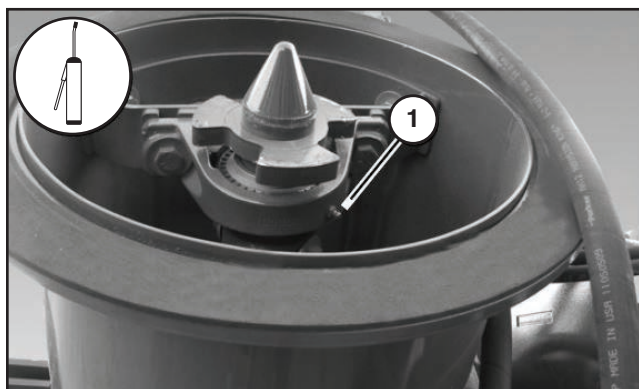
Location: Base end bearing of the right cross auger (1).
Interval: Every 8 hours of operation.



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



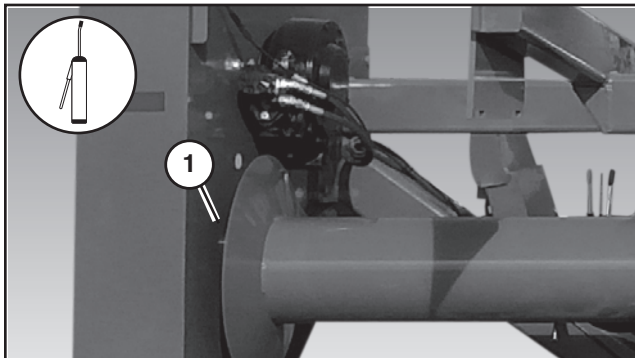
Location: Sprocket, upper main auger drive (1).
Interval: Every 8 hours of operation.



Location: Hanger bearing on the main auger alignment point (1).
Interval: Every 8 hours of operation.

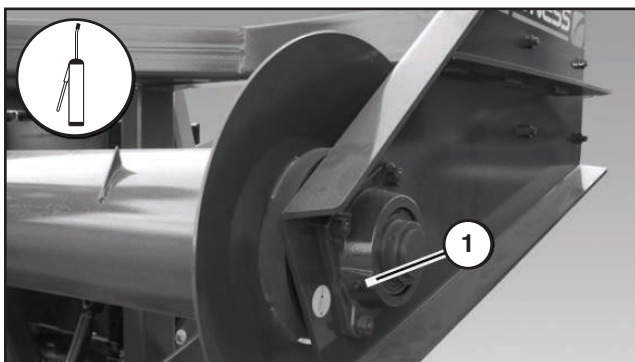
Lubrication (Cont'd)

Grease Points (Cont'd)



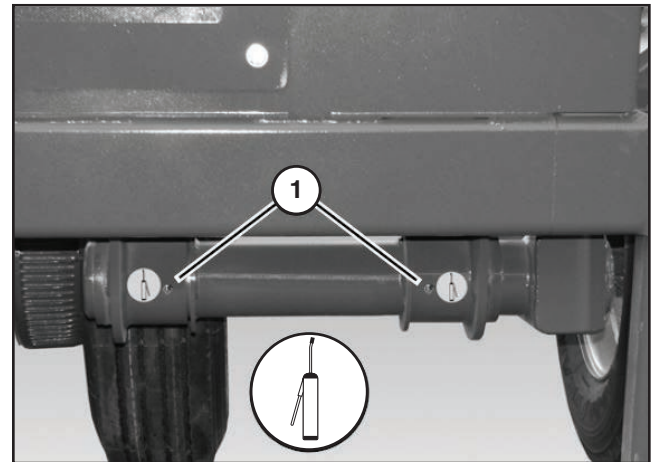
Location: Roller bearing (1) (left side).

Interval: Every 8 hours of operation.



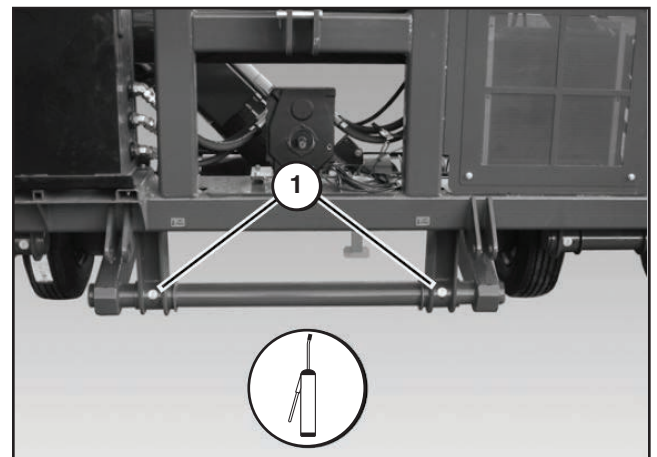
Location: Roller Bearing (1) (Right side).

Interval: Every 8 hours of operation.



Location: Right and left side of axle (1).

Interval: Every 20 hours of operation.



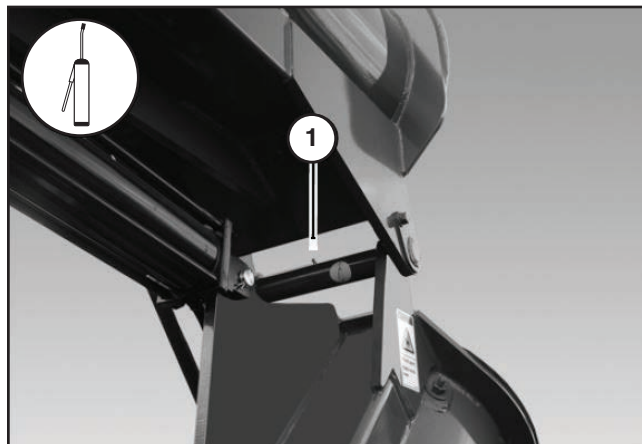
Location: Center axle (1).

Interval: Every 20 hours of operation.

Maintenance

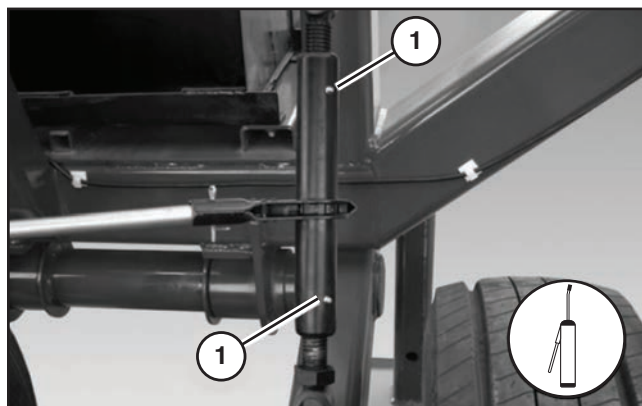
Lubrication (Cont'd)

Grease Points (Cont'd)



Location: Hinge pin on the main auger (1).

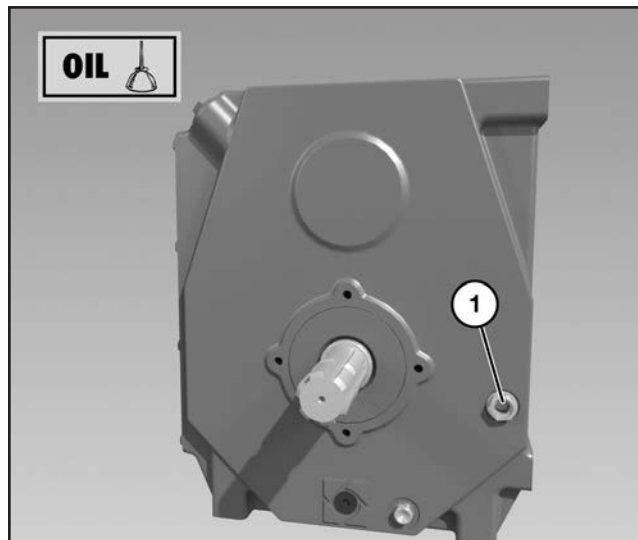
Interval: Every 8 hours of operation.



Location: Height adjustment ratchet on both working wheels (1).

Interval: Every 50 hours of operation.

Checking Oil Level of PTO Driven Gearbox



Location: PTO Driven Gearbox.

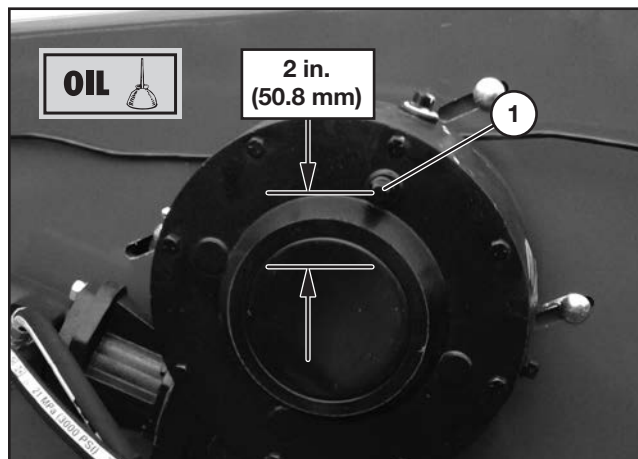
Interval: Annually.

NOTE: The gearbox holds 56 oz. of 75w-90 Synthetic Severe gear lube.

Gear lube level should be at center of sight glass (1).

If the lube level is below the center of the sight glass, add gear lube to the correct level.

Checking Oil Level of Bag Roller Gearbox



Location: Left End of Bag Roller (1).

Interval: Annually.

NOTE: The gearbox holds 88 oz. of 85W-140 gear lube.

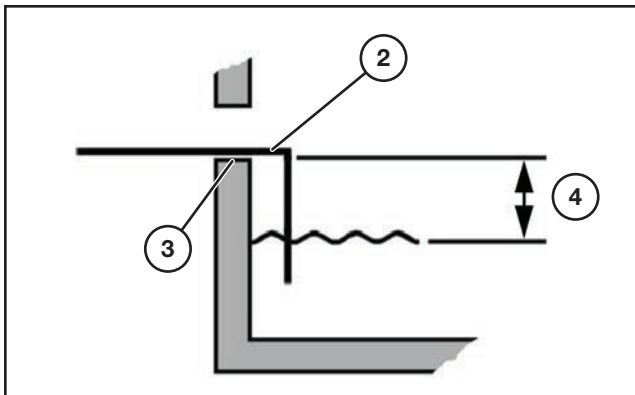
(Procedure continued on following page.)

Lubrication (Cont'd)

Grease Points (Cont'd)

Checking Oil Level of Bag Roller Gearbox (Cont'd)

Use the following procedure to verify the oil level:

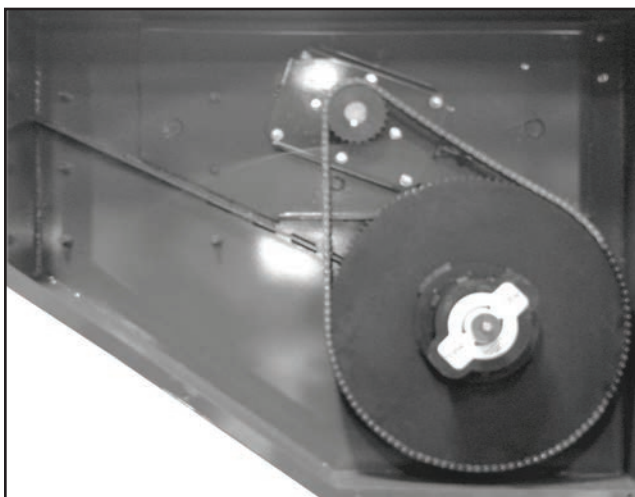


Bend a piece of wire (2) at a 90° angle. Place a mark on the wire bend at the desired height.

- **Gearbox Oil Level** - 2 in. (50.8 mm) below the fill hole.

Insert the wire into the gearbox. Rest the wire on the bottom (3) of the fill hole and wire pointing downward.

Remove the wire. If the oil level (4) is below the mark on the wire, add gear oil to the correct level.



Location: Roller Drive Chain - Lubricate the chain of the roller drive. Lubricate the top side.

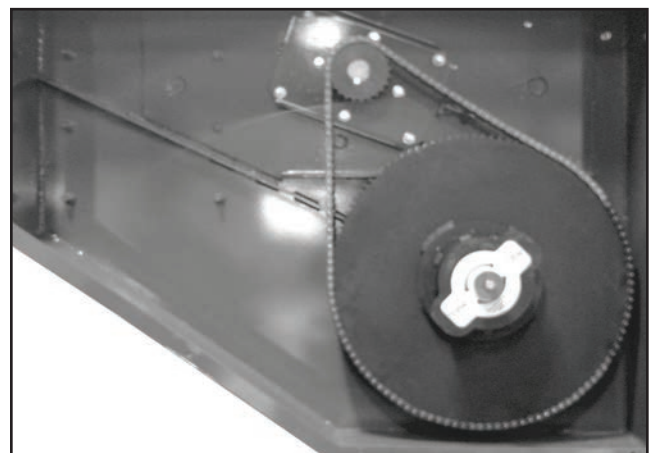
Interval: Every 40 hours of operation.

Roller Drive Chain Inspection and Adjustment

Roller Chain Inspection



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



Unlatch and open the roller drive door.

Check the chain deflection (1), (2) and (3). Press on chain at the location shown; the chain should be able to be moved approximately 1/2 in. (12.7 mm).

If the chain deflection is more than 1/2 in. (12.7 mm), adjust chain(s) until the deflection is approximately 1/2 in. (12.7 mm).

Loosen the six nuts (1) and jam nut (2). Tighten bolt (3) until the deflection of the lower sprocket chain is approximately 1 in. (25.4 mm).

Tighten jam nut securely against the stop. Tighten the six nuts securely against the mounting plate.

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

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 both driveline connections. Tighten and repair if necessary.
	PTO driveline u-joints dry.	Lubricate the u-joints.
	Jack shaft bearings worn.	Replace the shaft bearings.
	PTO slide shaft is dry.	Lubricate the PTO slide shaft.
Hydraulic controls for the wheels, auger fold and roller not working properly.	Relief valve at third pump defective.	Check relief valve (3000 PSI).
	Contamination in the fast/slow spool of the control valve.	Remove cartridge and verify inner spool moves freely.
Bag roller stops.	Relief setting has been reached.	Verify relief at motor is 1500 PSI.
	Tractor too heavy.	Use smaller tractor or assist heavier tractor by slowly backing into the bag.
	Field conditions too soft.	Allow field conditions to dry and firm up.
	Control valve not shifting.	Verify pressure at hydraulic motor. Replace spool if necessary.
	Hydraulic motor failed.	Replace hydraulic motor.
Grain bag is not wrapping on the roller evenly.	Tractor/Unloader not aligned with grain bag.	Adjust tractor/unloader.
	Grain bag not started correctly.	Adjust grain bag or restart.
Grain building up by the roller.	Roller wind is set too fast.	Decrease roll-up speed.
	Cross augers set too high.	Lower cross augers.
Bag knife not cutting correctly.	Bag coming off knife.	Switch to lower knife setting.
	Cutting knife is not locked into position.	Verify pins are installed.
	Tractor/Unloader not aligned with grain bag.	Adjust tractor/unloader.
	Knife cutting edge is dull.	Sharpen knife.
Grain is not exiting the top auger housing.	Cross augers not rotating.	Verify operation and pressure.
	Discharge auger not rotating.	Verify operation and pressure.
	Main auger not engaged at fold.	Verify top auger drive peg contacts the lower drive auger.

Troubleshooting (Cont'd)

PROBLEM	POSSIBLE CAUSE	SOLUTION
Cross augers slow or not rotating.	Pressure relief failure.	Check relief valve (3000 PSI).
	Pressure relief stuck open.	Reduce pressure to 2500 PSI or less and allow the relief valve to re-seat.
	Hydraulic spool not shifting.	Replace spool.
	Hydraulic motor failure.	Replace hydraulic motor.
	Hydraulic hose failure.	Replace hydraulic hose(s).
	Pump failure.	Replace second pump.
	Hydraulic tank low on fluid.	Check fluid level and add hydraulic fluid as needed.
	Tractor PTO RPM too low.	Increase tractor PTO (1000 RPM).
Discharge auger slow or not rotating.	Pressure relief failure.	Check relief valve (3000 PSI).
	Pressure relief stuck open.	Reduce pressure to 2500 PSI or
	Hydraulic spool not shifting.	Replace spool.
	Hydraulic motor failure.	Replace hydraulic motor.
	Hydraulic hose failure.	Replace hydraulic hose(s).
	Pump failure.	Replace first pump.
	Hydraulic tank low on fluid.	Check fluid level and add hydraulic fluid as needed.
	Top auger engaged to bottom auger.	Verify top auger peg is contacting lower drive auger.
	Auger shaft broken at coupler.	Replace auger.
	Chain coupler broken.	Replace chain.
	Sheared key on motor or drive couplers.	Replace key.
Discharge auger noisy.	Bearing at fold is damaged.	Replace bearing.
	Bearing at bottom is damaged.	Replace bearing.
	Bearing at top is damaged.	Replace bearing.
	Auger tube bent or damaged.	Repair auger tube.

Maintenance

Troubleshooting (Cont'd)

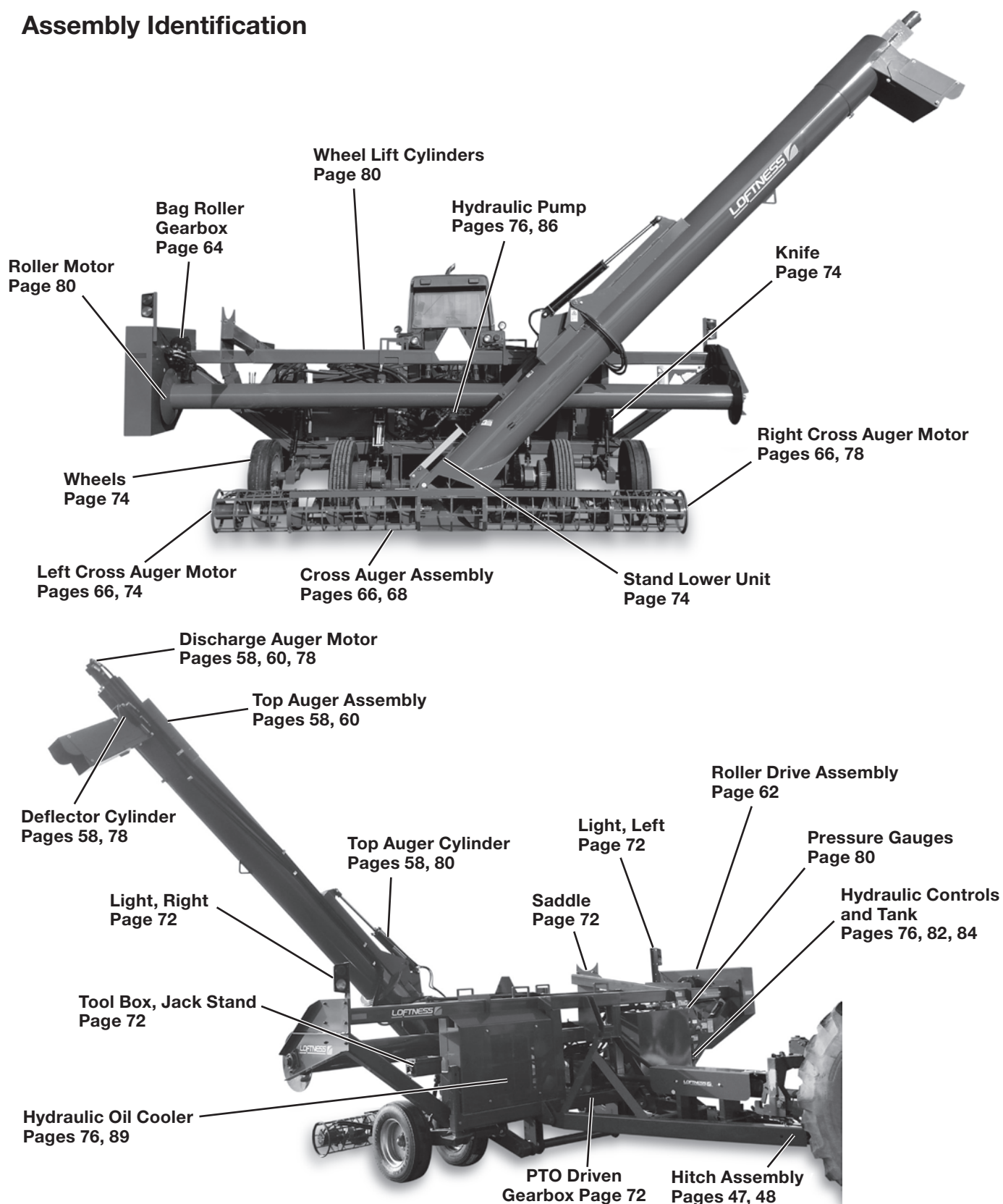
PROBLEM	POSSIBLE CAUSE	SOLUTION
Hydraulic system operating hot.	Oil cooler motor failure.	Replace motor or third pump.
	Oil cooler fins are plugged with debris.	Clean oil cooler.
	Oil cooler pump failure.	Replace third pump.
	Oil cooler pump relief valve failure.	Check relief valve (3000 PSI).
	Relief valves stuck open or partially open.	Replace relief valves.
	Hydraulic tank low on fluid.	Check fluid level and add hydraulic fluid as needed.
	Pump/motor failing.	Replace components as needed.
Oil filter gauge reading high.	Filter is plugged.	Replace filter.
Gearbox operating hot.	Hydraulic fluid level too low.	Add/change hydraulic fluid. Do not overfill.
	Hydraulic fluid level too high.	Lower hydraulic fluid level to sight glass.
	Machine operating at high loads.	Allow the gearbox to cool between loads.
	Bearing failure.	Replace gearbox.
Hydraulic pumps are noisy.	Suction hose collapsed.	Replace suction hose.
	Hydraulic fluid level too low.	Add hydraulic fluid. Do not overfill.
	Relief valve on third pump is open.	Return stack valves to neutral.
	Hydraulic pump mounting bolts are loose.	Tighten bolts.
	Hydraulic fluid is hot.	Allow hydraulic fluid to cool.
Electric brakes not operating.	Battery is discharged.	Charge or replace battery.
	Bad connection at towing vehicle.	Verify the connection is tight or repair wiring as needed.
	Machine wiring damaged.	Repair as needed.
Brakes squeak during operation.	Brakes are engaging.	Manually adjust the pads until loose.
Roller drive chains are noisy.	Chains are loose.	Tighten chains.
	Chains are stretched.	Replace chains.
	Chains are dry.	Lubricate chains.
	Overhung load adapter failure.	Replace adapters.

Troubleshooting (Cont'd)

PROBLEM	POSSIBLE CAUSE	SOLUTION
GBU12 sinking in soft ground.	Soft ground conditions.	Adjust outrigger wheels down using the ratchet jack adjuster.
		Allow soil conditions to dry and firm up.
Grain bag tears when unloading on soft ground.	Pulling too hard on grain bag with bag roller.	Push slowly back with tractor while unloading.
		Unload down the slope on soft ground.
		Use proper site preparations to avoid rocks, stubble, sticks or uneven ground.
Steering issues.	Soft ground conditions.	Consider using a front PTO and three-point on the tractor.
		Use a tractor equipped with front wheel assist.



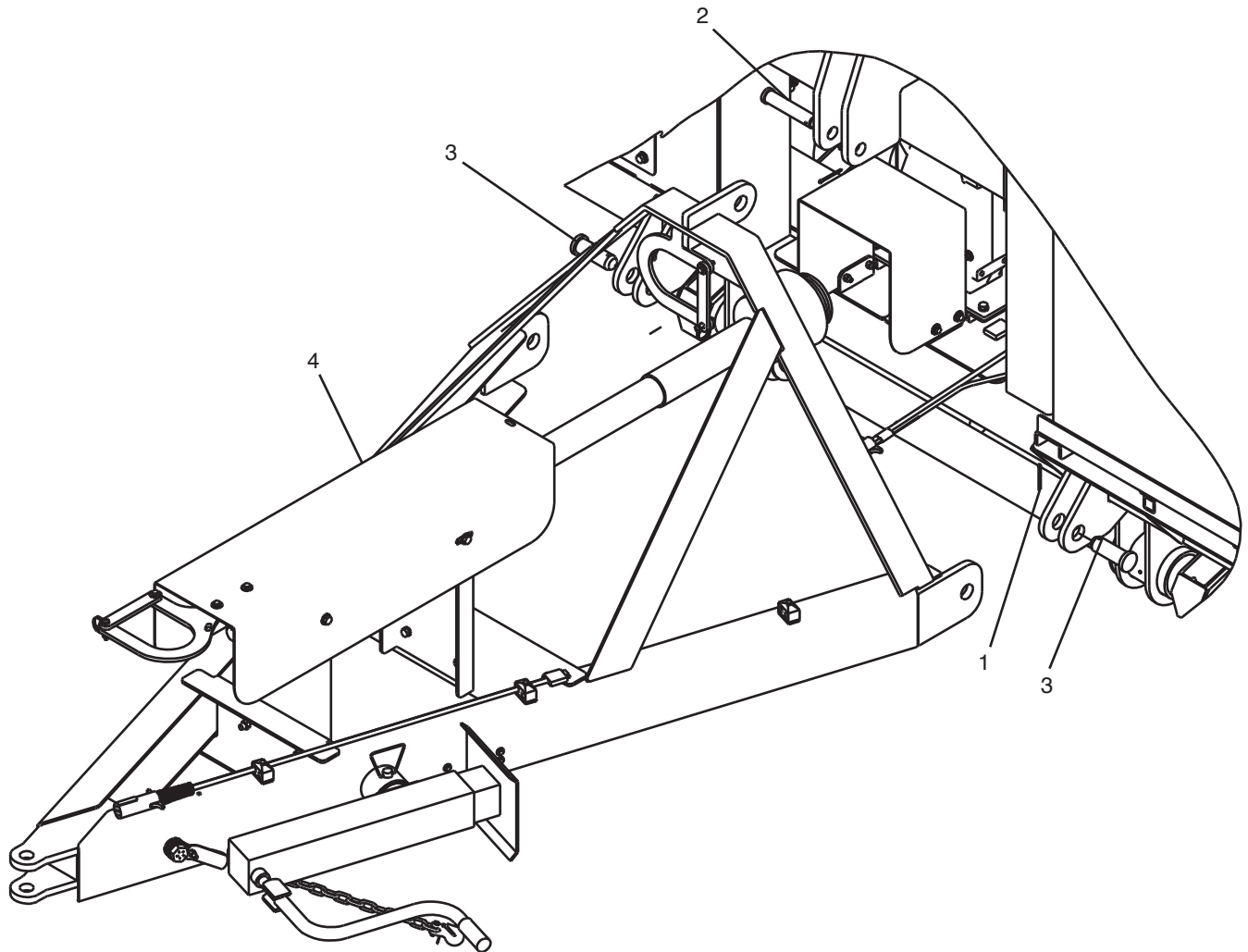
Assembly Identification



Parts Identification

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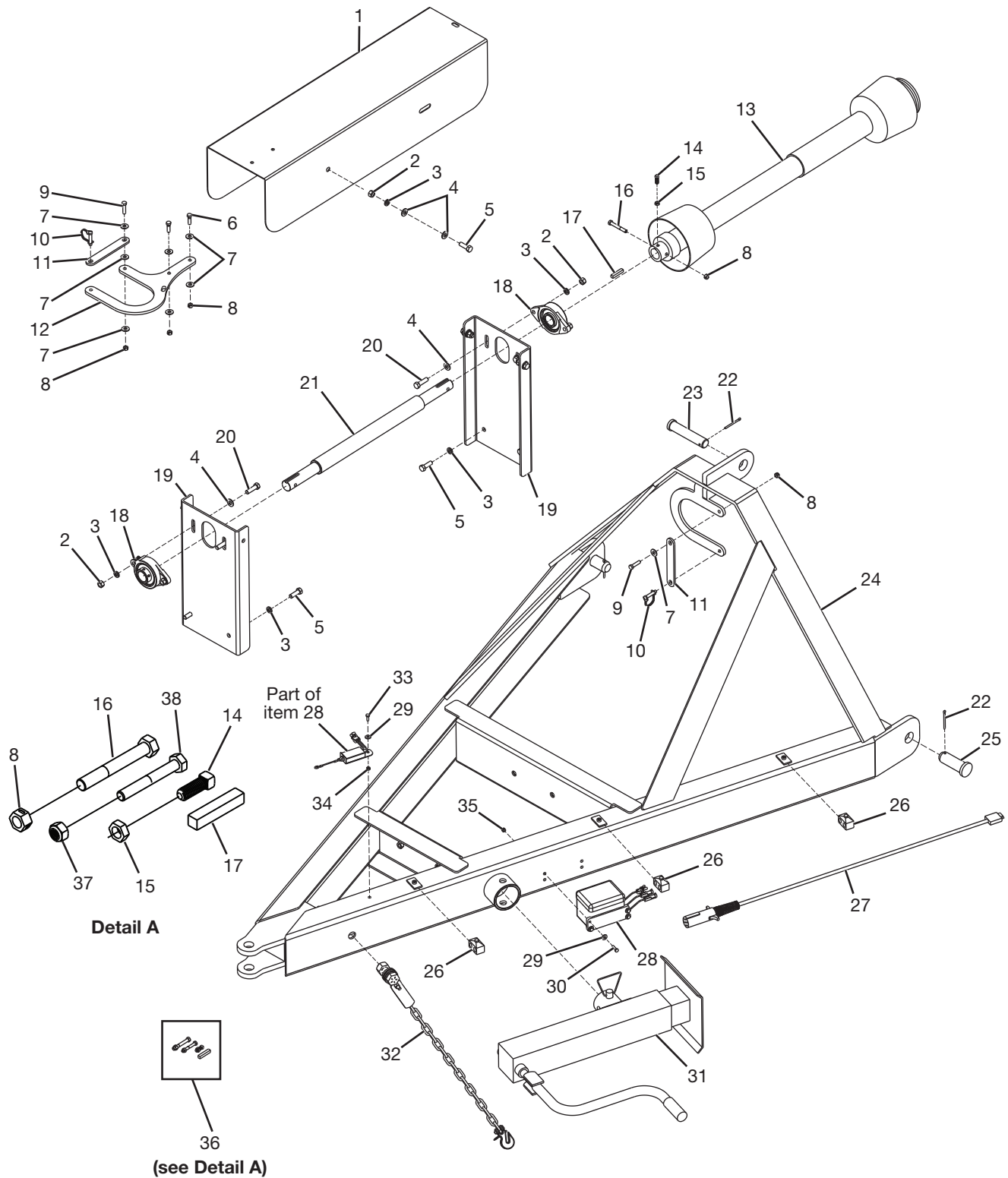
Hitch Assembly



#	QTY.	PART #	DESCRIPTION
1	3	4329	PIN, COTTER 7/32" X 2-1/2"
2	1	N25420	PIN, 1-1/4" X 5-3/8" PLATED
3	2	N29197	PIN, 1-1/2" X 3-1/5" TAPERED HITCH
4	1	N29436	HITCH, GBU12 PULL-TYPE ASMBLD

Parts Identification

Hitch Assembly (Cont'd)

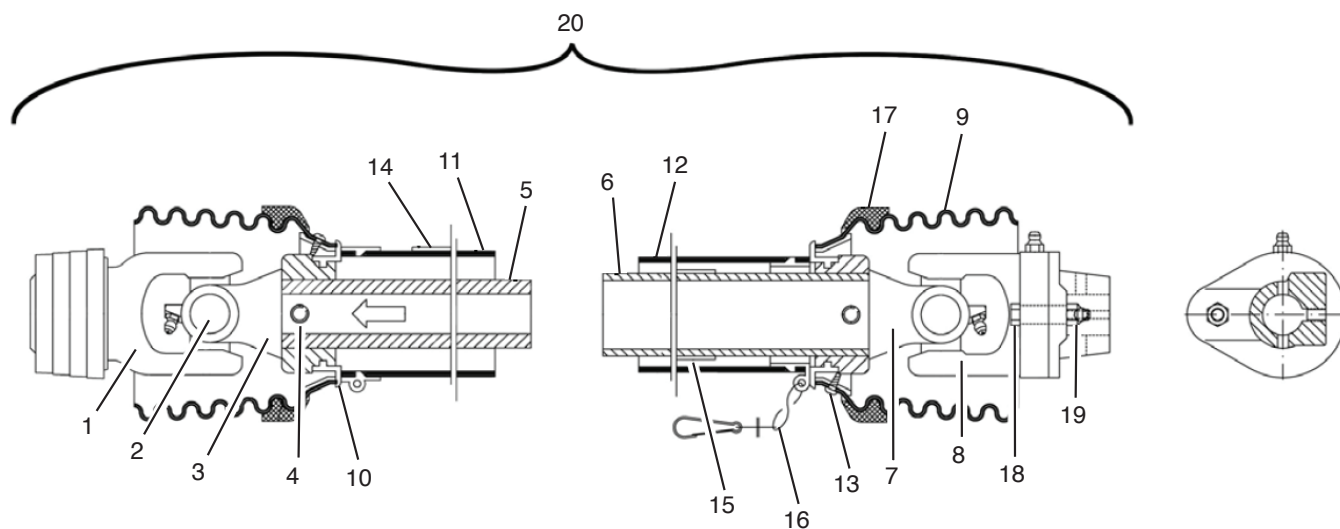


Hitch Assembly (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	1	N29805	SHIELD, GBU12 HITCH SHORT
2	8	4250	NUT, STANDARD 1/2
3	12	4155	WASHER, LOCK 1/2"
4	12	4068	WASHER, 1/2" SAE FLAT
5	8	4013	BOLT, 1/2" X 1-1/2" GRADE 5
6	2	4005	BOLT, 3/8" X 1-1/4" GRADE 5
7	9	4064	WASHER, FLAT 3/8"
8	6	4052	NUT, LOCK 3/8"
9	2	4006	BOLT, 3/8" X 1-1/2" GRADE 5
10	2	N27991	PIN, 3/8" X 1-3/8" RETAINER
11	2	N27990	BAR, GBL SWING AUG PTO HOLDER
12	1	N27994	HOLDER, GBL TRK AUG PTO SHRT
13	1	N29800	PTO, 1-3/8" 540 6B SPLN 1-1/2 RB CB
14	2	201831	SCREW, SQ HD SET 3/8" X 1"
15	2	4061	NUT, 3/8" JAM
16	2	4538	BOLT, 3/8" X 2-3/4" GRADE 5
17	2	7121-03	KEY, 3/8" X 2"
18	2	N30230	BEARING, 1-1/2" DODGE 2BLT FLG
19	2	N29433	MOUNT, GBU12 PT HITCH BEARING
20	4	4014	BOLT, 1/2" X 1-3/4" GRADE 5
21	1	N29804	SHAFT, GBU12 HITCH SHORT JACK
22	3	4329	PIN, COTTER 7/32" X 2-1/2"
23	1	N25420	PIN, 1-1/4" X 5-3/8" PLATED
24	1	N29268	HITCH, GBU12 PULL-TYPE
25	2	N29197	PIN, 1-1/2" X 3-1/5" TAPERED HITCH
26	3	N21365	CLAMP, 3/8" DOUBLE HOSE
27	1	N22784	HARNESS, GBU 4' BRAIDED TOUNGE
28	1	N30092	WIRE, BRAKE BATTERY
29	5	3183	WASHER, FLAT 1/4"
30	4	4000	BOLT, 1/4" X 1" GRADE 5
31	1	N13732	JACK, PULL-TYPE HITCH
32	1	N50260	CHAIN,SAFETY 21,000LB W/ HDWR
33	1	4340	BOLT, 1/4" X 3/4" GRADE 5
34	1	4050	NUT, 1/4" LOCK
35	4	4996	NUT, LOCK 1/4" NYLOCK
36	1	202834	KIT, PTO HARDWARE
37	1	N23490	NUT, LOCK M8 NYLOCK
38	1	N23489	BOLT, M8 X 60 GR 8.8

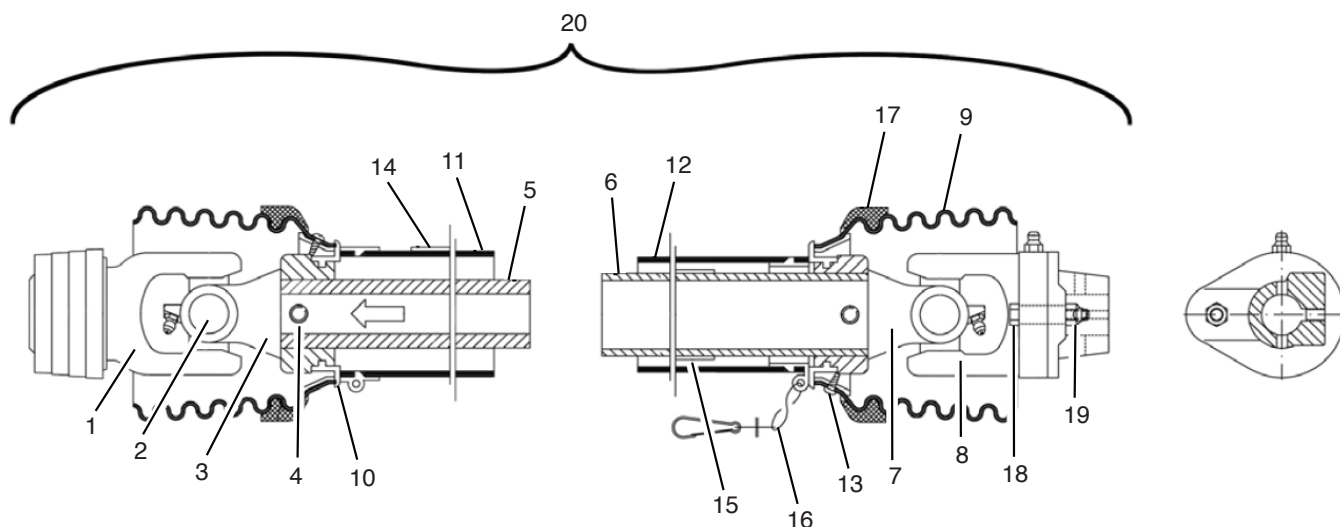
Parts Identification

PTO Driveline (N29800)



#	QTY.	PART #	DESCRIPTION
1	1	N23478	YOKE, 1 - 3/8" - 6 SPL ASGE
2	2	N23479	CROSS & BEARING KIT
3	1	N23711	INBOARD YOKE, S4
4	2	N23480	SPRING PIN, 10 x 80
5	1	N26773	INNER PROFILE, S4
6	1	N26774	OUTTER PROFILE, S5
7	1	N23714	INBOARD YOKE, S5
8	1	N25574	SHEARBOLT, CLUTCH
9	2	N23486	GUARD, CONE 6 RIB
10	2	N10348	BEARING RING, SC25
11	1	N26776	GUARD, TUBE OUTER
12	1	N26777	GUARD, TUBE INNER
13	2	N11750	SCREW
14	1	N10357	DECAL, OUTER - IN
15	1	N11761	DECAL, INNER - IN
16	1	N10356	RESTRAINT CHAIN
17	2	N27146	REINFORCING COLLAR
18	1	N23489	BOLT, M8 x 60 GR8 - IN
19	1	N23490	NUT, M8 - IN
20	1	N29800	DRIVE SHAFT, PTO

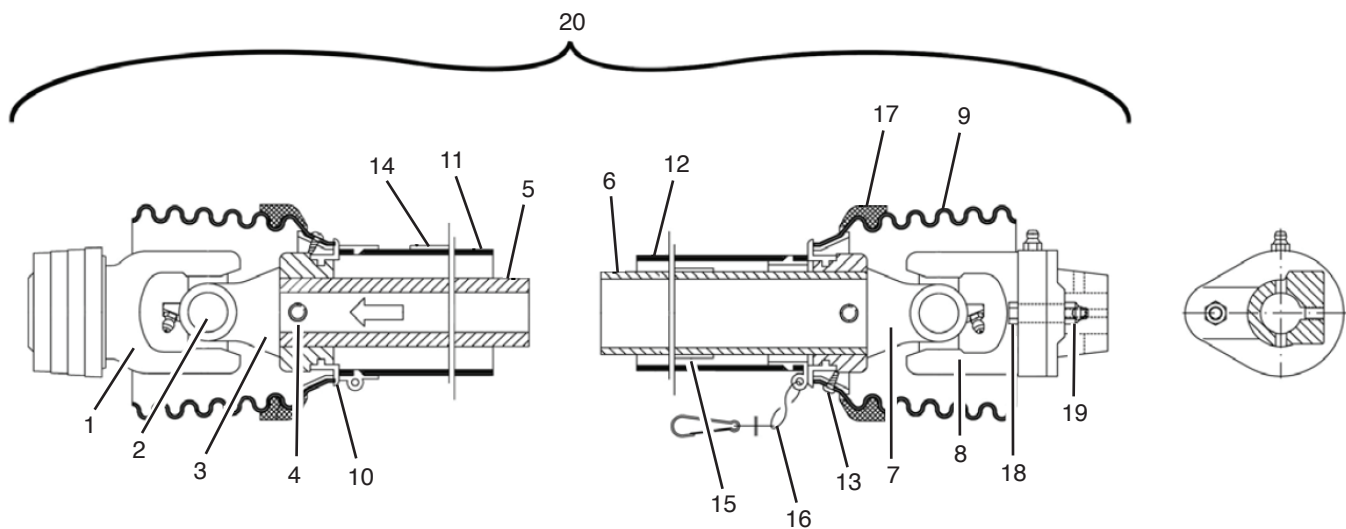
PTO Driveline (N29801)



#	QTY.	PART #	DESCRIPTION
1	1	N26772	YOKE, 1 - 3/8" - 21 SPL ASGE
2	2	N23479	CROSS & BEARING KIT
3	1	N23711	INBOARD YOKE, S4
4	2	N23480	SPRING PIN, 10 x 80
5	1	N26773	INNER PROFILE, S4
6	1	N26774	OUTTER PROFILE, S5
7	1	N23714	INBOARD YOKE, S5
8	1	N25574	SHEARBOLT, CLUTCH
9	2	N23486	GUARD, CONE 6 RIB
10	2	N10348	BEARING RING, SC25
11	1	N26776	GUARD, TUBE OUTER
12	1	N26777	GUARD, TUBE INNER
13	2	N11750	SCREW
14	1	N10357	DECAL, OUTER - IN
15	1	N11761	DECAL, INNER - IN
16	1	N10356	RESTRAINT CHAIN
17	2	N27146	REINFORCING COLLAR
18	1	N23489	BOLT, M8 x 60 GR8 - IN
19	1	N23490	NUT, M8 - IN
20	1	N29801	DRIVE SHAFT, PTO

Parts Identification

PTO Driveline (N29802)

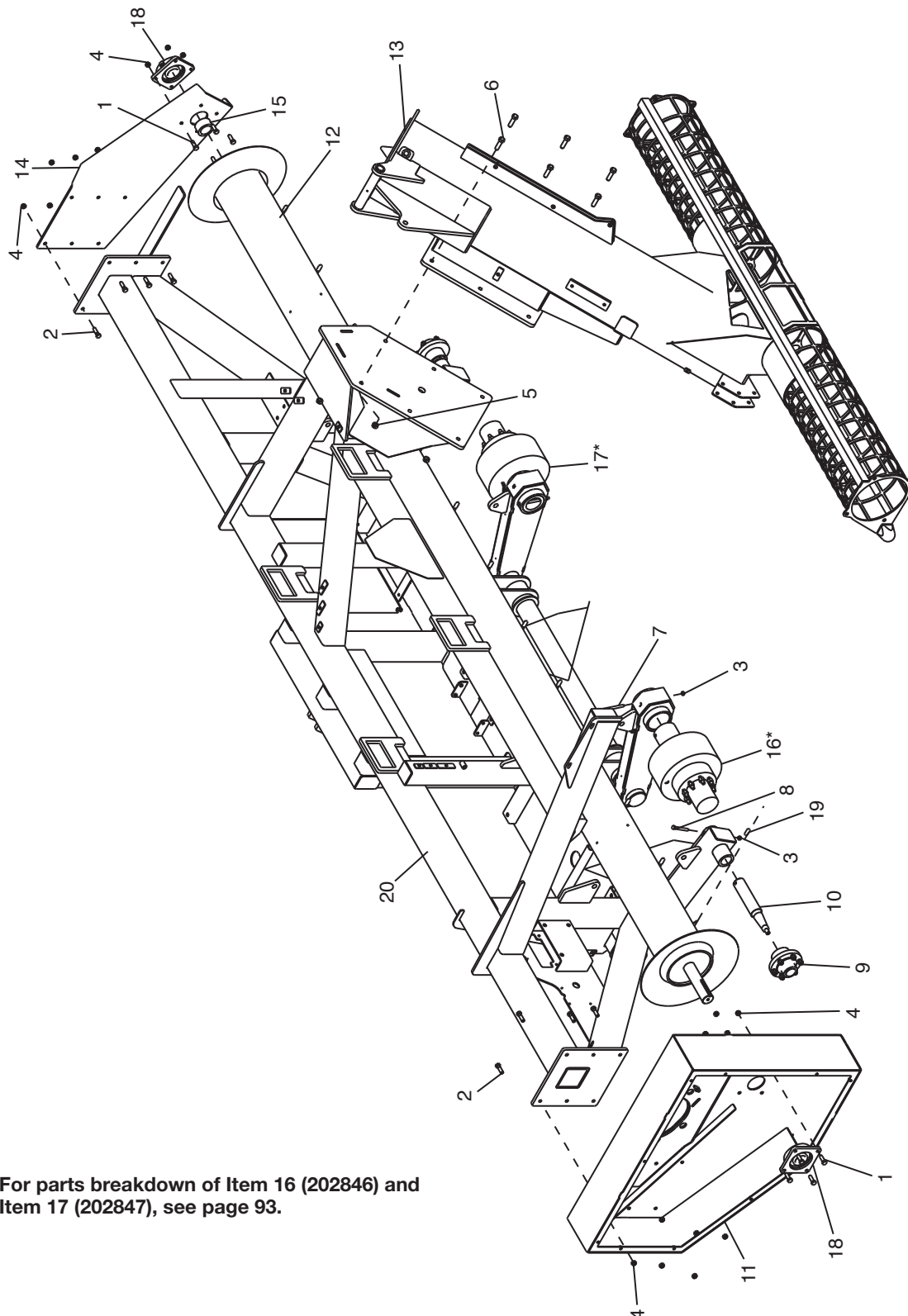


PTO Driveline (N29802)

#	QTY.	PART #	DESCRIPTION
1	1	N26781	YOKE, 1 - 3/4" - 20 SPL ASGE
2	2	N23479	CROSS & BEARING KIT
3	1	N23711	INBOARD YOKE, S4
4	2	N23480	SPRING PIN, 10 x 80
5	1	N26773	INNER PROFILE, S4
6	1	N26774	OUTTER PROFILE, S5
7	1	N23714	INBOARD YOKE, S5
8	1	N25574	SHEARBOLT, CLUTCH
9	2	N23486	GUARD, CONE 6 RIB
10	2	N10348	BEARING RING, SC25
11	1	N26776	GUARD, TUBE OUTER
12	1	N26777	GUARD, TUBE INNER
13	2	N11750	SCREW
14	1	N10357	DECAL, OUTER - IN
15	1	N11761	DECAL, INNER - IN
16	1	N10356	RESTRAINT CHAIN
17	2	N27146	REINFORCING COLLAR
18	1	N23489	BOLT, M8 x 60 GR8 - IN
19	1	N23490	NUT, M8 - IN
20	1	N29802	DRIVE SHAFT, PTO

Parts Identification

Axle and Roller Assembly



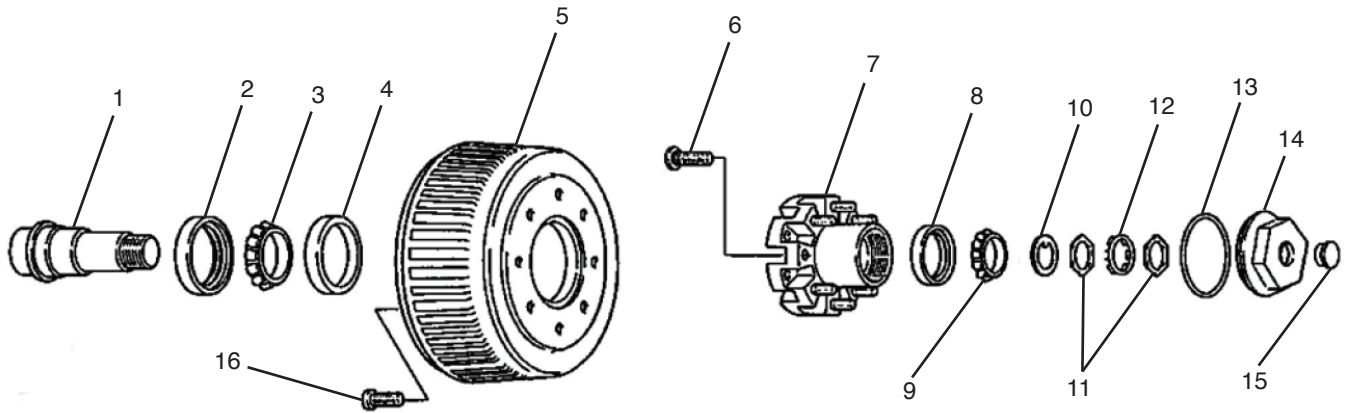
* For parts breakdown of Item 16 (202846) and Item 17 (202847), see page 93.

Axle and Roller Assembly

#	QTY.	PART #	DESCRIPTION
1	8	4021	BOLT, 5/8" X 1-3/4" GRADE 5
2	12	4022	BOLT, 5/8" X 2" GRADE 5
3	4	4054	NUT, LOCK 1/2" TOP
4	20	4055	NUT, LOCK 5/8" TOP
5	6	4056	NUT LOCK 3/4"
6	6	4224	BOLT, 3/4" X 2-1/2" GRADE 5
7	2	4330	BOLT, 1/2" X 7" GRADE 8
8	2	4357	BOLT, 1/2" X 4" GRADE 5
9	2	N29054	HUB, 6 BOLT 6" PAT W/STUDS
10	2	N29060	SPINDLE, GBL12 TRANSPORT
11	1	N29211	HOUSING, GBU12 ROLLER DRIVE
12	1	N29220	ROLLER, GBU12 BAG
13	1	N29665	UNIT, GBU12 HYDRAULIC LOWER
14	1	N29945	MOUNT, GBU12 ROLLER RIGHT
15	1	N29948	SPACER, GBU12 RLR 1.865"
16	1	202846	AXLE, GBU12 LEFT WIRED
17	1	202847	AXLE, GBU12 RIGHT WIRED
18	2	N30240	BEARING, 2-1/2" DODGE 4-BLT FLG
19	13	N33175	CAP, GBU ROLLER HOOK
20	1	N40031	WELDMENT, GBU12 FRAME MAIN

Parts Identification

Wheel Hub Assembly

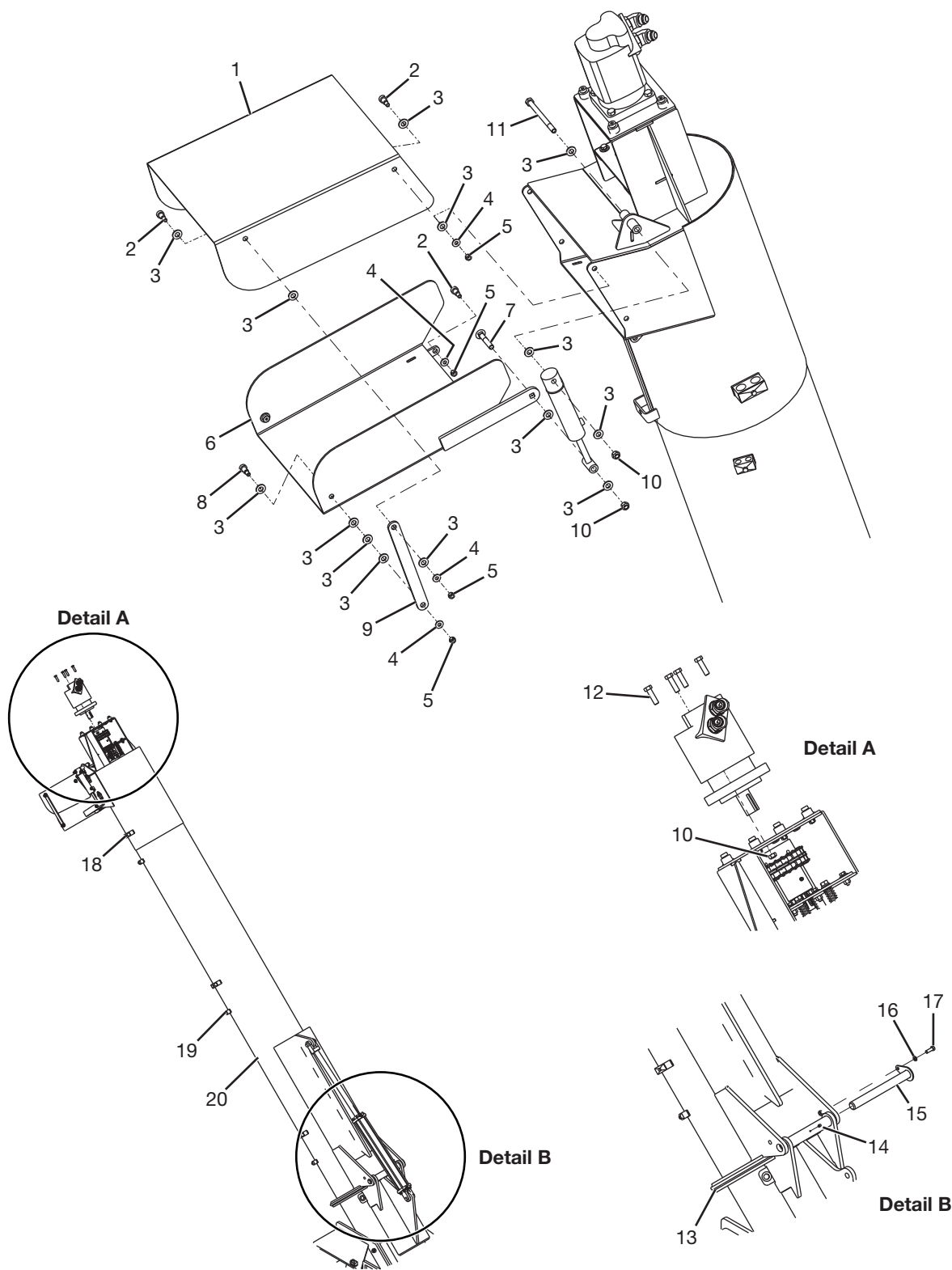


Wheel Hub Assembly

#	QTY.	PART #	DESCRIPTION
1	1	N29957	SPINDLE, AXLE 6000 LB HALF
2	1	N29958	SEAL, AXLE 6000 LB OIL (1056)
3	1	N29959	CONE, AXLE 6000 LB INNER BRG (3984)
4	1	N29960	CUP, AXLE 6000 LB INNER BRG (3920)
5	1	N29961	DRUM, AXLE 6000 LB BRAKE (9271)
6	8	N29962	STUD, AXLE 6000 LB WHEEL MNT (7115)
7	1	N29963	HUB, AXLE 6000 LB W / CUP & STD (82148)
8	1	N29964	CUP, AXLE 6000 LB OUTER BRG (28622)
9	1	N29965	CONE, AXLE 6000 LB OUTER BRG (28682)
10	1	N29966	WASHER, AXLE 6000 LB SPINDLE (560)
11	2	N29967	NUT, AXLE 6000 LB SPINDLE (684)
12	1	N29968	WASHER, AXLE 6000 LB TANG (559)
13	1	N29969	O-RING, AXLE 6000 LB OIL CAP (1050)
14	1	N29970	CAP, AXLE 6000 LB OIL (2136)
15	1	N29971	PLUG, AXLE 6000 LB OIL CAP (4632)
16	8	N29973	SCREW, AXLE 6000 LB DRUM MNT (7244)

Parts Identification

Top Auger Assembly

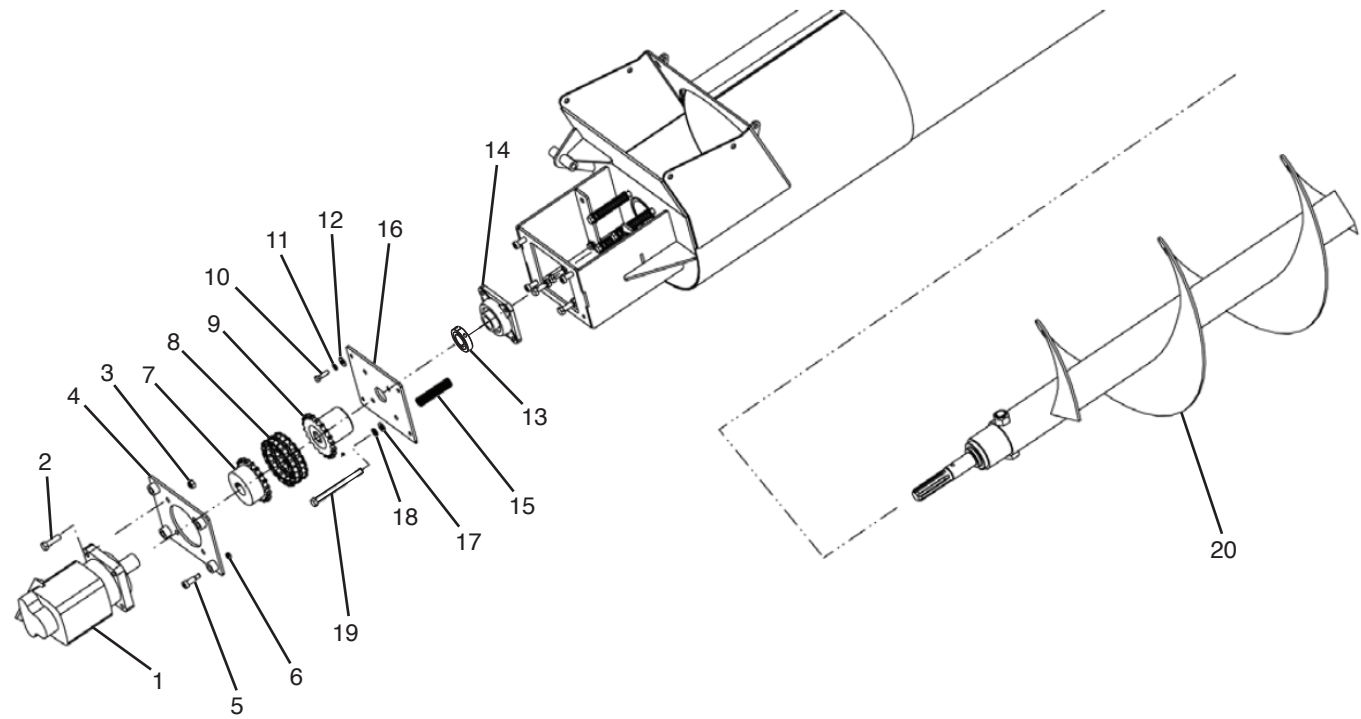


Top Auger Assembly

#	QTY.	PART #	DESCRIPTION
1	1	N29795	DEFLECTOR, GBU12 TOP AUG TOP
2	6	N29837	BOLT, SHLD. 1/2" X 5/8"
3	23	4068	WASHER, 1/2" SAE FLAT
4	8	4369	WASHER, 5/16" FLAT
5	8	4052	NUT, LOCK 3/8"
6	1	N29792	CHUTE, GBU12 TOP AUG BTM DEF
7	1	4990	BOLT, CARRIAGE 1/2" X 3"
8	2	N36690	BOLT, SHOULDER 1/2" X 3/4"
9	2	N29796	BAR, GBU12 TO AUG DEF LINK
10	2	4054	NUT, LOCK 1/2" TOP
11	1	4554	BOLT, 1/2" X 6-1/2" GR 5
12	4	4014	BOLT, 1/2" X 1-3/4" GRADE 5
13	1	N26591	GASKET, 18.25 ID X 22.50 OD
14	1	4107	GREASE-ZERK, 1/4" SCREW-IN 90 DEG
15	1	N22785	PIN, GBU HINGE FIXED
16	1	4155	WASHER, LOCK 1/2"
17	1	4013	BOLT, 1/2" X 1-1/2" GRADE 5
18	3	N29640	CLAMP, 3/4" HYD HOSE DOUBLE
19	3	N21365	CLAMP, 3/8" DOUBLE HOSE
20	1	N29786	AUGER, GBU12 TOP WITH ADJ DEF

Parts Identification

Top Auger Assembly (Cont'd)

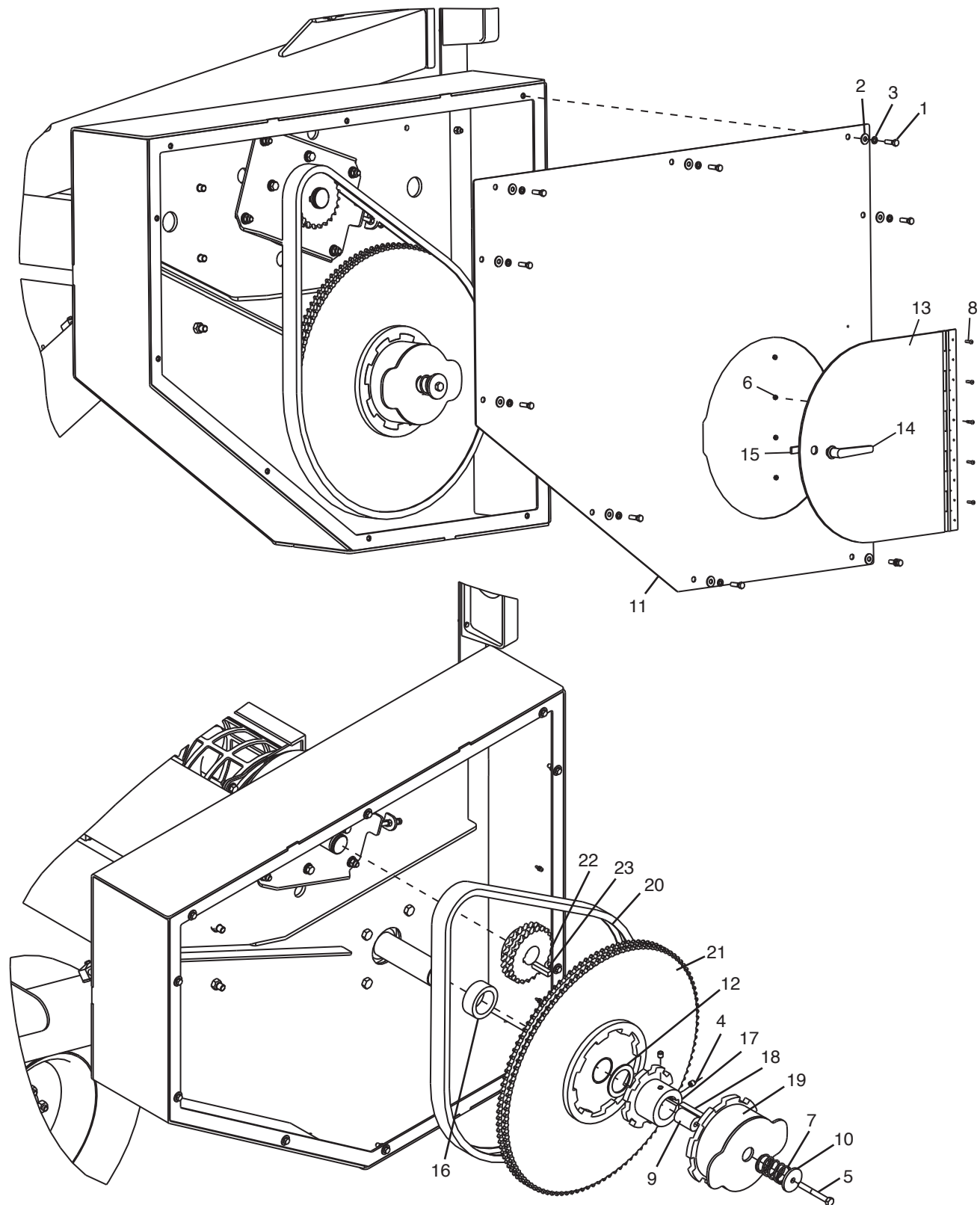


Top Auger Assembly (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	1	N12220	MOTOR, HYD MAIN AUG 15 CIR
2	4	4014	BOLT, 1/2" x 1 - 3/4" GRADE 5
3	4	4054	NUT, LOCK 1/2"
4	1	N29745	MOUNT, GBU12 TOP AUG MOTOR
5	4	N29742	BOLT, SHOULDER 1/2" x 1"
6	4	4052	NUT, LOCK 3/8"
7	1	N25115	SPROCKET, 6020 F - 1 - 1/2" RB
8	1	N25117	CHAIN, 60 DOUBLE 20 PITCH
9	1	N29380	SPROCKET, SLPINED COUPLER
10	4	4005	BOLT, 3/8" x 1 - 1/4" GRADE 5
11	4	4065	WASHER, 3/8" LOCK
12	4	4064	WASHER, FLAT 3/8"
13	1	N151456	COLLAR, SHAFT 1-7/16" 2-PIECE
14	1	N30229	BEARING, 1 - 1/2" 4 - BOLT FLG DODGE
15	4	N22062	SPRING, AUGER ALIGNING
16	1	N29385	PLATE, GBU12 TOP AUG SPRING
17	4	4068	WASHER, 1/2" SAE FLAT
18	4	4155	WASHER, LOCK 1/2"
19	4	4497	BOLT, 1/2" x 6" GRADE 5
20	1	N30390	AUGER, GBU12 17" TOP W/SHAFT

Parts Identification

Roller Drive Assembly

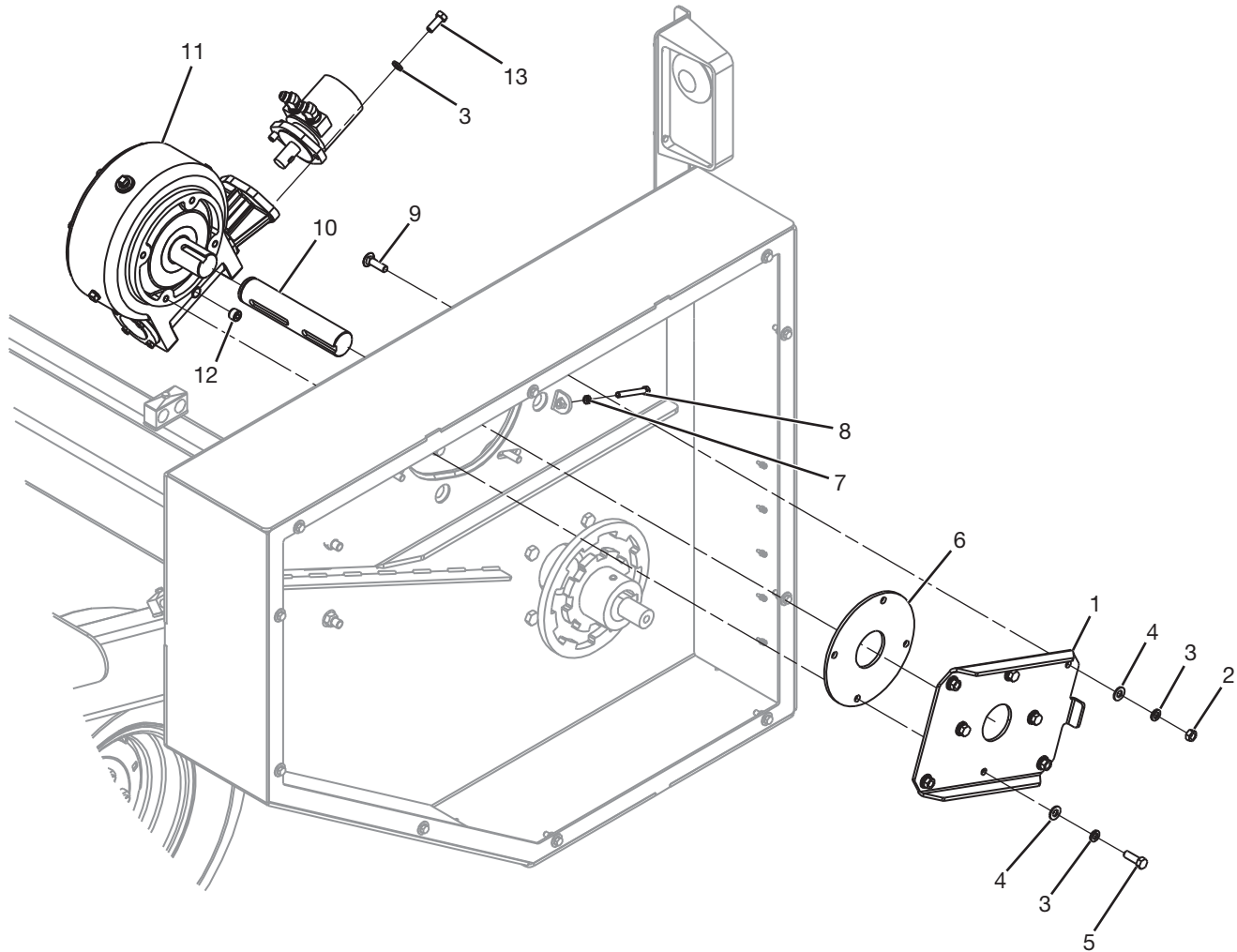


Roller Drive Assembly

#	QTY.	PART #	DESCRIPTION
1	10	4005	BOLT, 3/8" X 1-1/4" GRADE 5
2	10	4064	WASHER, FLAT 3/8"
3	10	4065	WASHER, 3/8" LOCK
4	2	4572	SCREW, 1/2" X 1/2" LG ALN HD SET
5	1	4975	BOLT, 1/2" X 4" FN TH GR 8
6	5	N16334	NUT, NYLON INSERT #10
7	1	N22253	SPRING, COMPRESSION LHC 148U 03S LEE SPRING
8	5	N22358	BOLT, #10 - 32 x 3/4" BHCS
9	1	N22531	GUIDE, GBU SPRING CLUTCH SPRING
10	1	N22532	WASHER, GBU SPRING CLUTCH SPRING
11	1	N29335	COVER, GBU12 ROLLER DRIVE
12	1	N29396	WASHER, 3" OD x 2 - 1/2" ID x 10 GA
13	1	N29411	DOOR, GBU12 ROLLER CLUTCH
14	1	N29840	HANDLE, QUARTER TURN LATCH
15	1	N29841	CAM, QUARTER TURN LATCH
16	1	N29897	SPACER, GBU12 ROLLER DBL SPRK
17	1	N29898	COG, GBU12 DBL ROLLER DRIVE
18	1	N29900	KEY, 5/8" x 3 - 1/4" HARDENED
19	1	N29901	COG, GBU12 DBL ROLLER CONCTR
20	1	N29903	CHAIN, #60 DOUBLE 134 PITCH UST
21	1	N29904	SPROCKET, GBU12 RLR DRV DBL
22	1	N33671	SPROCKET, D60B15 DBL 1 - 3/4" RB
23	1	N33673	KEY, 1/2" X 2-1/4" EXTRA HARDENED

Parts Identification

Roller Drive Assembly (Cont'd)

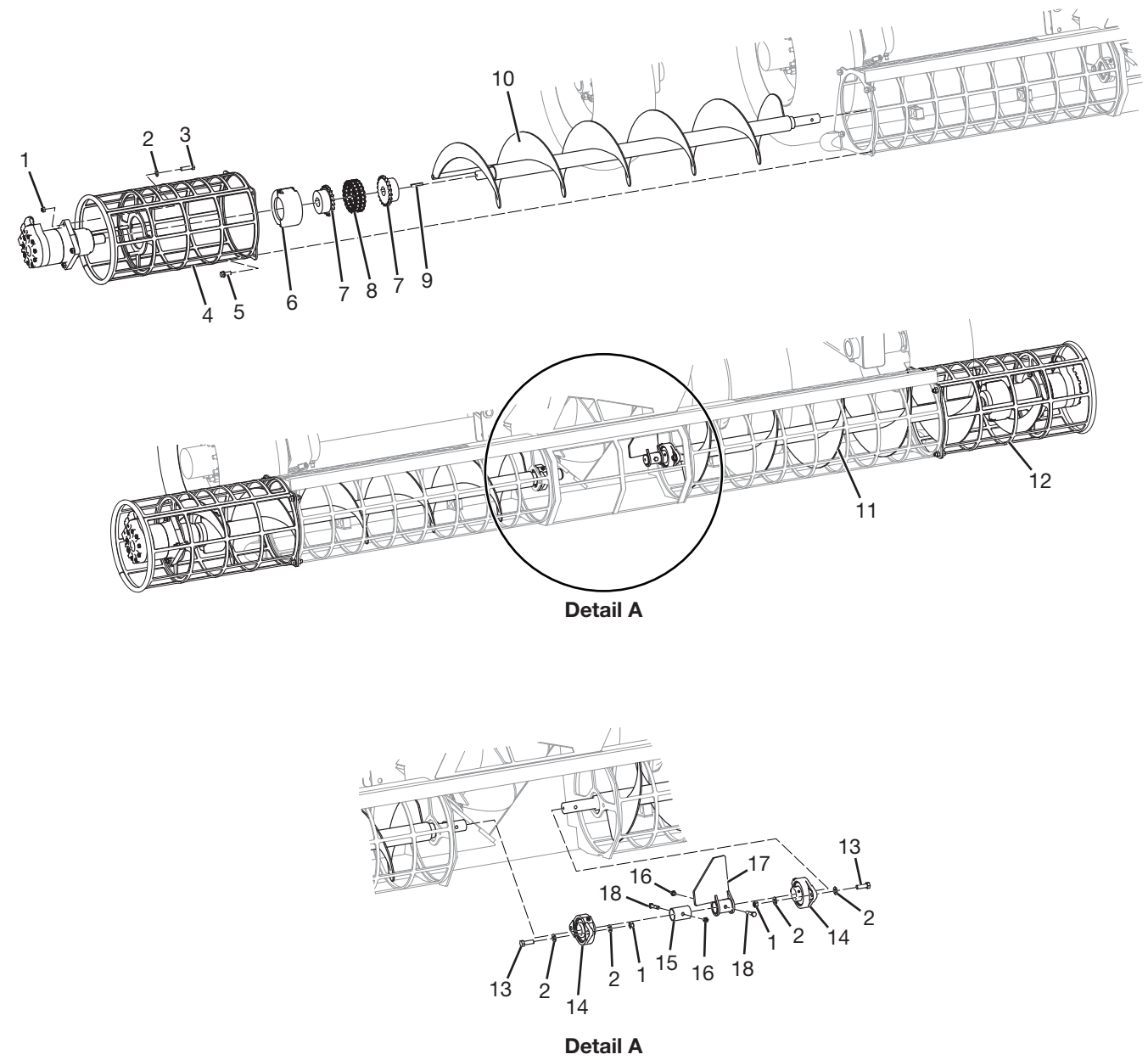


Roller Drive Assembly (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	1	N30932	PLATE, 4-1/2 HUB PUSHER MOUNT
2	4	4250	NUT, STANDARD 1/2
3	10	4155	WASHER, LOCK 1/2"
4	8	4068	WASHER, 1/2" SAE FLAT
5	4	4013	BOLT, 1/2" X 1-1/2" GRADE 5
6	1	N37157	SPACER, GBU12 RED 1280 GB
7	1	4061	NUT, 3/8" JAM
8	1	4478	BOLT, 3/8" X 3" GR 5 FULL THRD
9	4	4477	BOLT, CARRIAGE 1/2" X 1-3/4"
10	1	N33674	SHAFT, GBU12 RED GB LONG
11	1	N30925	GEARBOX, SUPERIOR 1280 RED
12	1	4558	PLUG, 1/2" PIPE ALLEN HEAD
13	2	4012	BOLT, 1/2" X 1-1/4" GRADE 5

Parts Identification

Cross Auger Assembly

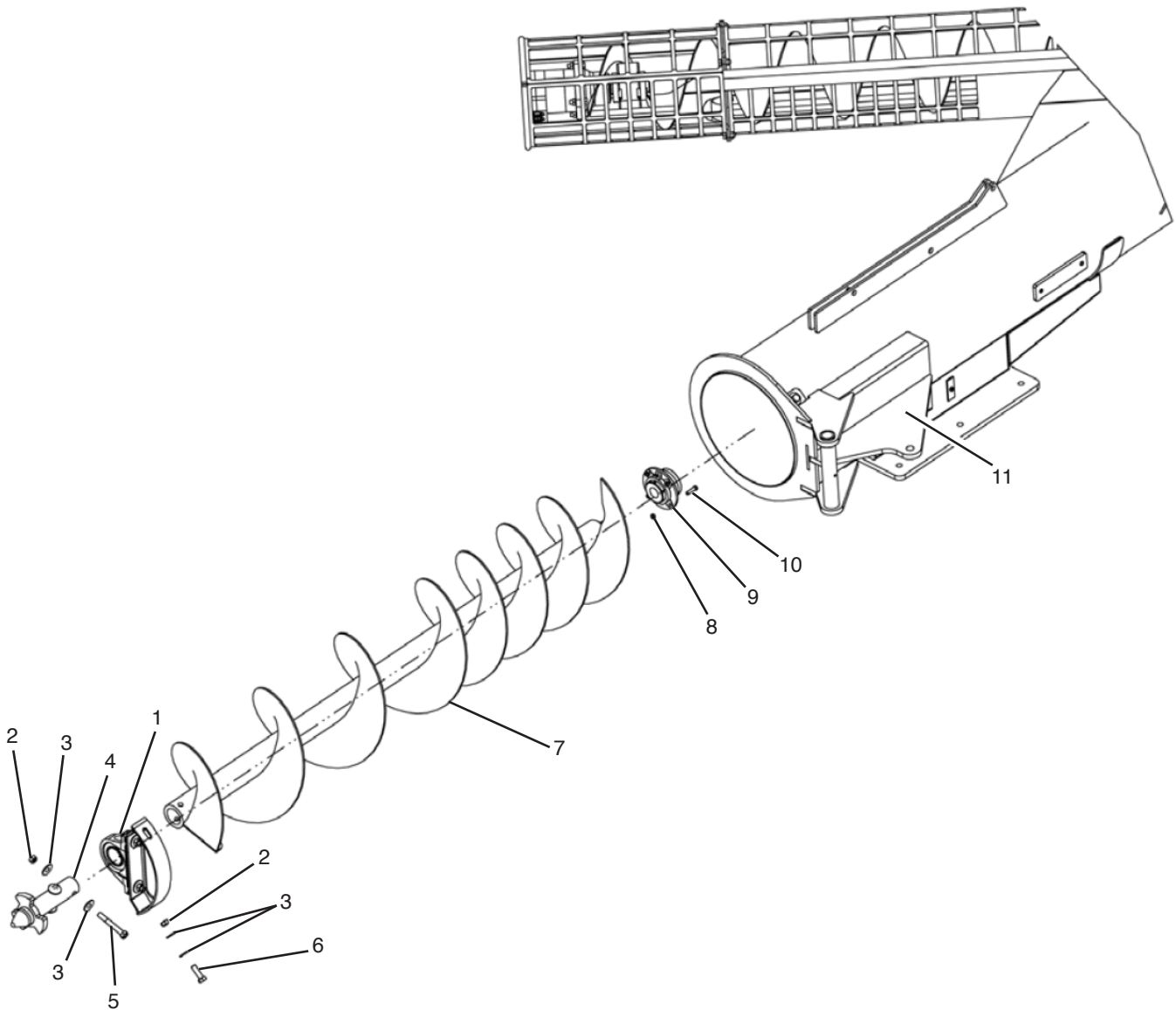


Cross Auger Assembly

#	QTY.	PART #	DESCRIPTION
1	12	4054	NUT, LOCK 1/2" TOP
2	16	4068	WASHER, 1/2" SAE FLAT
3	8	4015	BOLT, 1/2" X 2" GRADE 5
4	1	N29676	MOUNT, GBU12-10 CRS 12 AUG LEFT
5	8	N18360	BOLT, 1/2-13 X 1-1/4 SER FLG
6	2	N25118	HOUSING, 60 CHAIN CPL COVER
7	4	N25115	SPROCKET, 6020 F - 1-1/2" RB
8	2	N25117	CHAIN, 60 DOUBLE 20 PITCH
9	2	7121-03	KEY, 3/8" X 2"
10	1	N29281	AUGER, GBU12 CROSS LEFT COMP
11	1	N29277	AUGER, GBL12 CROSS RIGHT COMP
12	1	N29754	MOUNT, GBU12-10 CRS 12 AUG RT
13	4	4013	BOLT, 1/2" X 1-1/2" GRADE 5
14	2	N30230	BEARING, 1-1/2" DODGE 2BLT FLG
15	1	N30890	COLLAR, GBU12 CROSS AUG RET
16	2	4052	NUT, LOCK 3/8"
17	1	N30889	PADDLE, GBU12 CROSS AUGER
18	2	4537	BOLT, 3/8" X 2-1/4" GRADE 5

Parts Identification

Cross Auger Assembly (Cont'd)

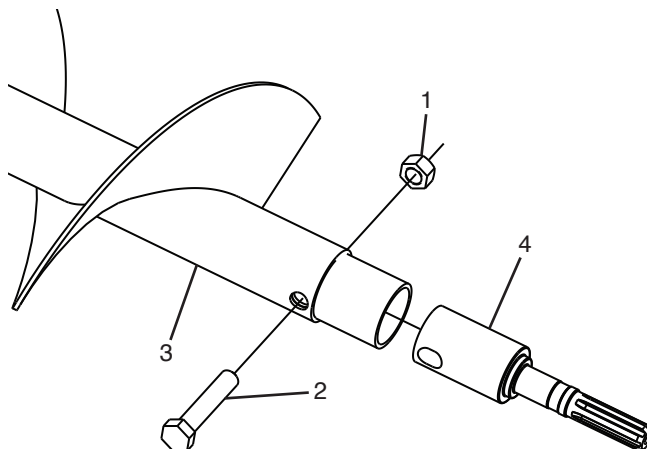


Cross Auger Assembly (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	1	N29588	HANGER, GBU12 AUGER
2	4	4055	NUT, LOCK 5/8"
3	8	4069	WASHER, FLAT 5/8"
4	1	N22673	POINT, GBU MAIN AUGER ALIGNMENT
5	2	4252	BOLT, 5/8" x 4 - 1/2" GRADE 5
6	2	4022	BOLT, 5/8" x 2" GRADE 5
7	1	N29191	AUGER, GBU12 BTM 17" W / SHAFTS
8	6	4052	NUT, LOCK 3/8"
9	1	N30231	BEARING, 1 - 1/2" PILOTED FLANGE
10	4	4006	BOLT, 3/8" x 1 - 1/2" GRADE 5
11	1	N29666	WELDMENT, GBU12 - 10 HYD LOW UNIT

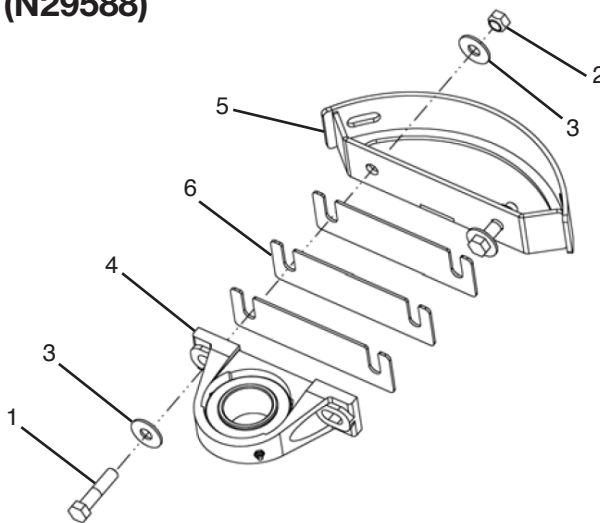
Parts Identification

Top Auger (N30390)



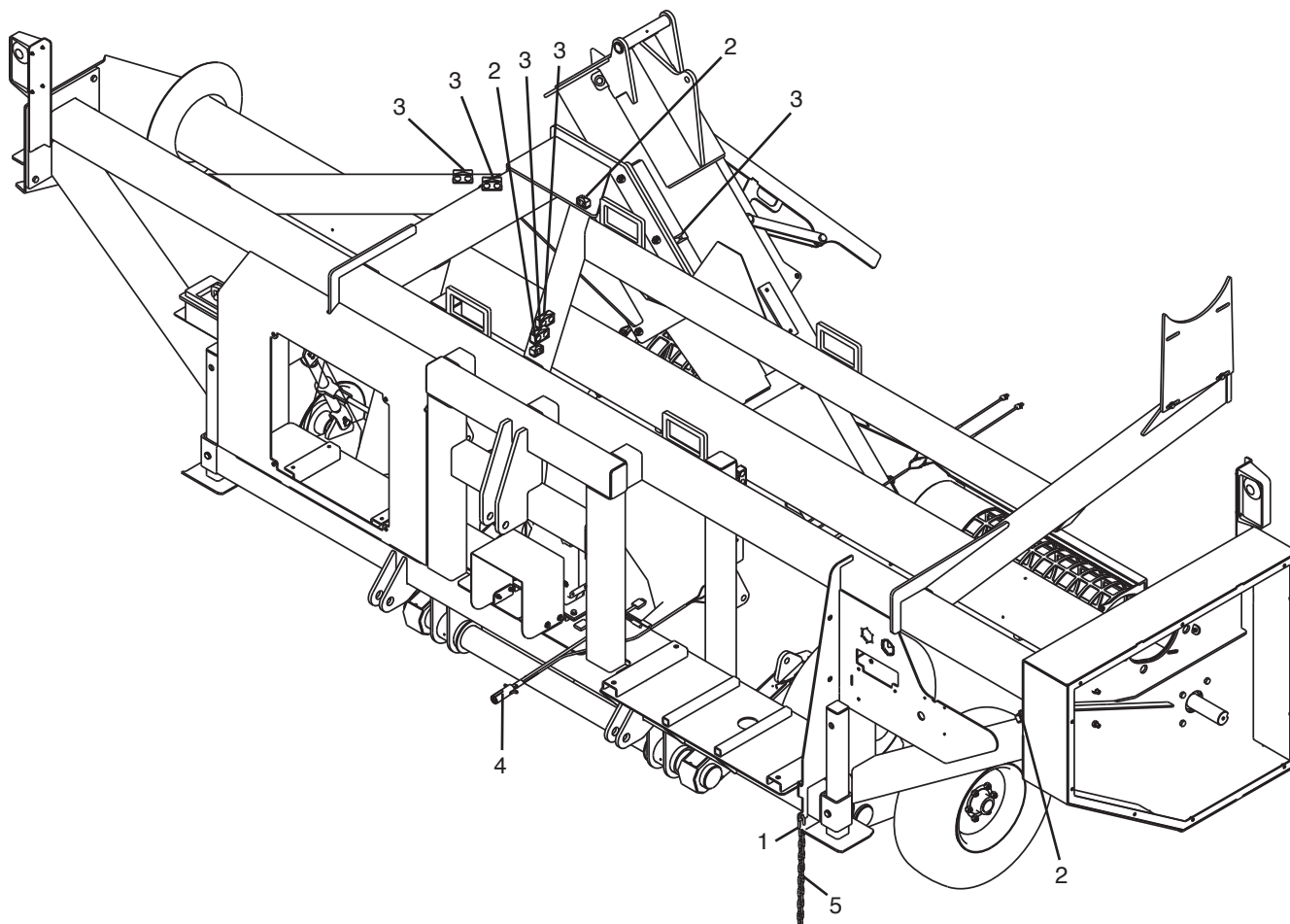
#	QTY.	PART #	DESCRIPTION
1	1	N16700	NUT, 1" - 14 GR 8 FINE THREAD TOPLOCK
2	1	N17023	BOLT, 1" - 14 x 5" GR 8 FN THR
3	1	N29218	AUGER, GBU12 TOP BASE
4	1	N29381	SHAFT, GBU12 TOP AUGER TOP DRV

GBU12 Auger Hanger (N29588)



#	QTY.	PART #	DESCRIPTION
1	2	4024	BOLT, 5/8" x 2 - 3/4" GRADE 5
2	2	4055	NUT, LOCK 5/8" TOP
3	4	4069	WASHER, FLAT 5/8"
4	1	N30239	BEARING, 2 - 7/16" PLW BLK 2 - BOLT
5	1	N29589	BRACKET, GBU12 AUGER HANGER
6	3	N29593	SHIM, GBU12 AUG HANGER BRKT

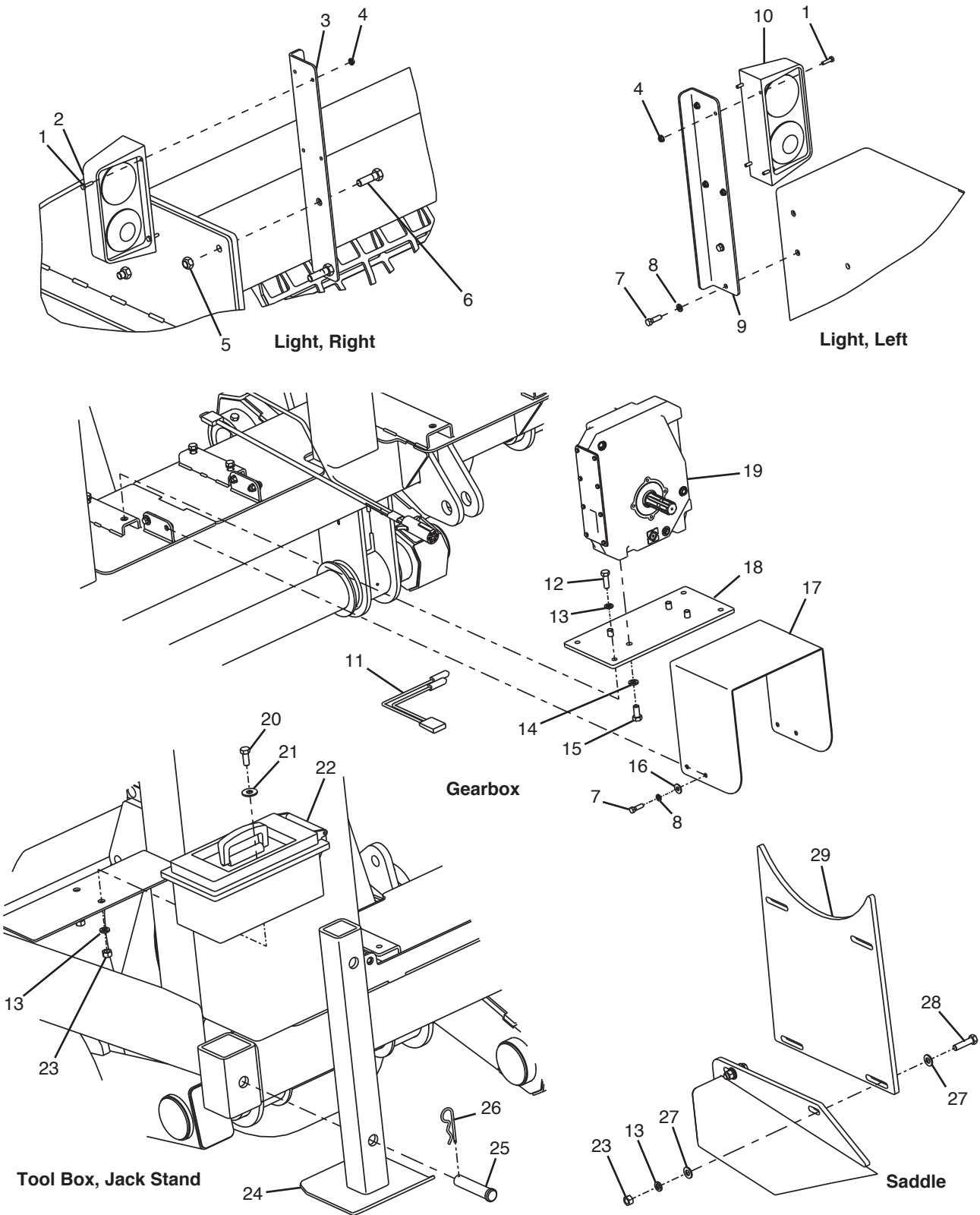
Miscellaneous



#	QTY.	PART #	DESCRIPTION
1	1	N10177	LINK, 3/8" CHAIN CONNECTOR
2	3	N21365	CLAMP, 3/8" DOUBLE HOSE
3	5	N29640	CLAMP, 3/4" HYD HOSE DOUBLE
4	1	N30132	GROUP, GBU12 WIRING
5	1	N33066	CHAIN, GBU10 HEIGHT GAUGE

Parts Identification

Miscellaneous (Cont'd)

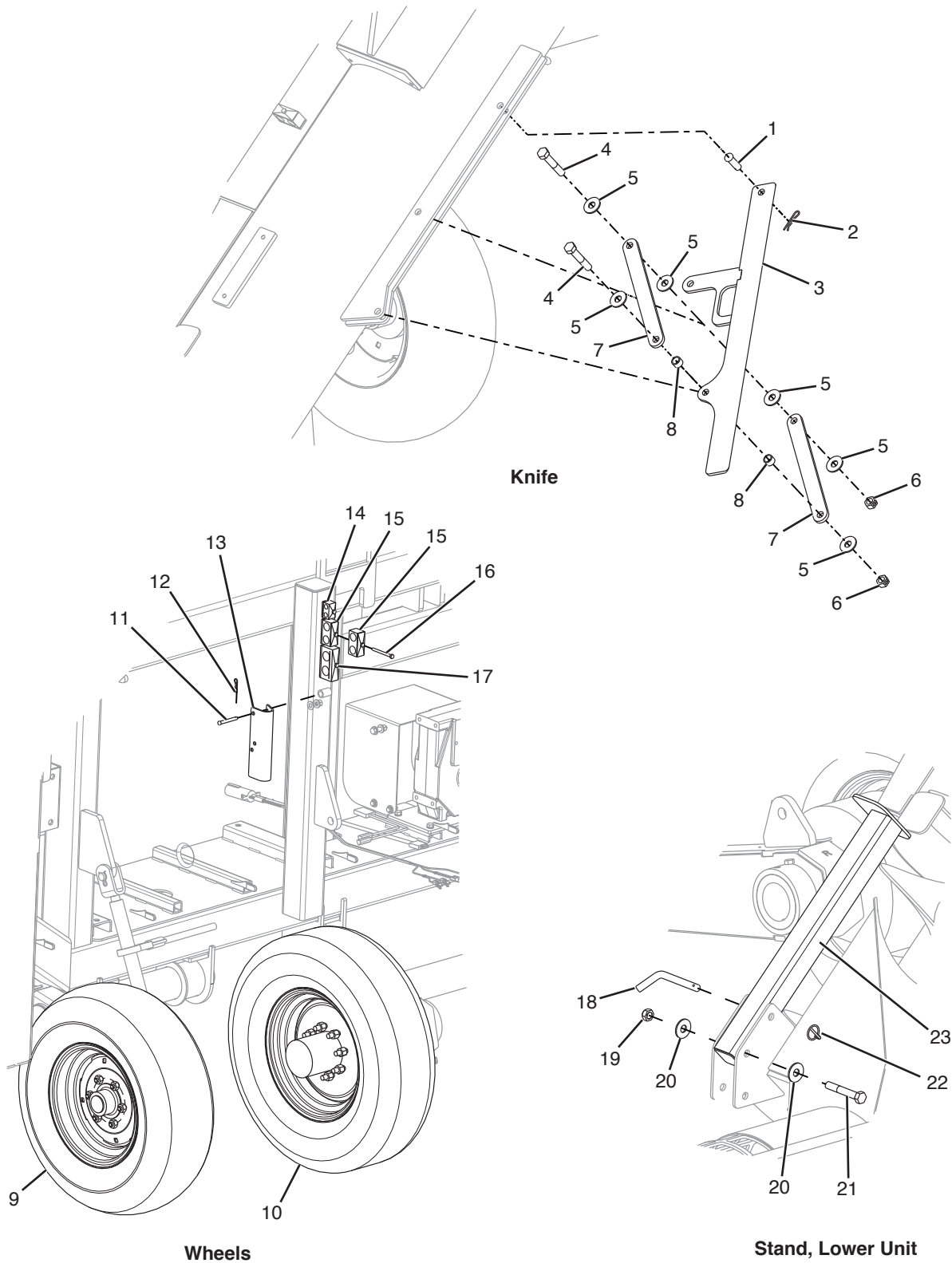


Miscellaneous (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	8	4000	BOLT, 1/4" X 1" GRADE 5
2	1	N16290	LIGHT, RIGHT
3	1	N29495	BRACKET, GBU12 LIGHT RIGHT
4	8	N105230	NUT, LOCK 1/4" SER FLANGE
5	2	4055	NUT, LOCK 5/8" TOP
6	2	4022	BOLT, 5/8" X 2" GRADE 5
7	6	4005	BOLT, 3/8" X 1-1/4" GRADE 5
8	6	4065	WASHER, 3/8 LOCK
9	1	N29496	BRACKET, GBU12 LIGHT LEFT
10	1	N16289	LIGHT, LEFT
11	1	N16288	HARNESS, 25' REAR WISHBONE
12	4	4013	BOLT, 1/2" X 1-1/2" GRADE 5
13	8	4155	WASHER, LOCK 1/2"
14	4	4370	WASHER, 9/16" LOCK
15	4	4548	BOLT, M14 X 30 GR 8.8
16	4	4064	WASHER, FLAT 3/8"
17	1	N29513	SHIELD, GBU12 MOUNTED PTO
18	1	N29457	PLATE, GBU12 GEARBOX MOUNT
19	1	N29108	GEARBOX, BONDIOLI
20	2	4012	BOLT, 1/2" X 1-1/4" GRADE 5
21	2	4486	WASHER, 1/2" FLAT
22	1	N25105	TOOLBOX, WINCH STORAGE
23	4	4250	NUT, STANDARD 1/2
24	2	N29734	STAND, GBU12 FRONT JACK
25	2	N11932	PIN, 1" X 4-1/2" PLATED HITCH
26	2	4389	CLIP, HAIRPIN 3/16" X 3"
27	4	4068	WASHER, 1/2" SAE FLAT
28	2	4015	BOLT, 1/2" X 2" GRADE 5
29	1	N29576	SADDLE, GBU12 AUG REST

Parts Identification

Miscellaneous (Cont'd)

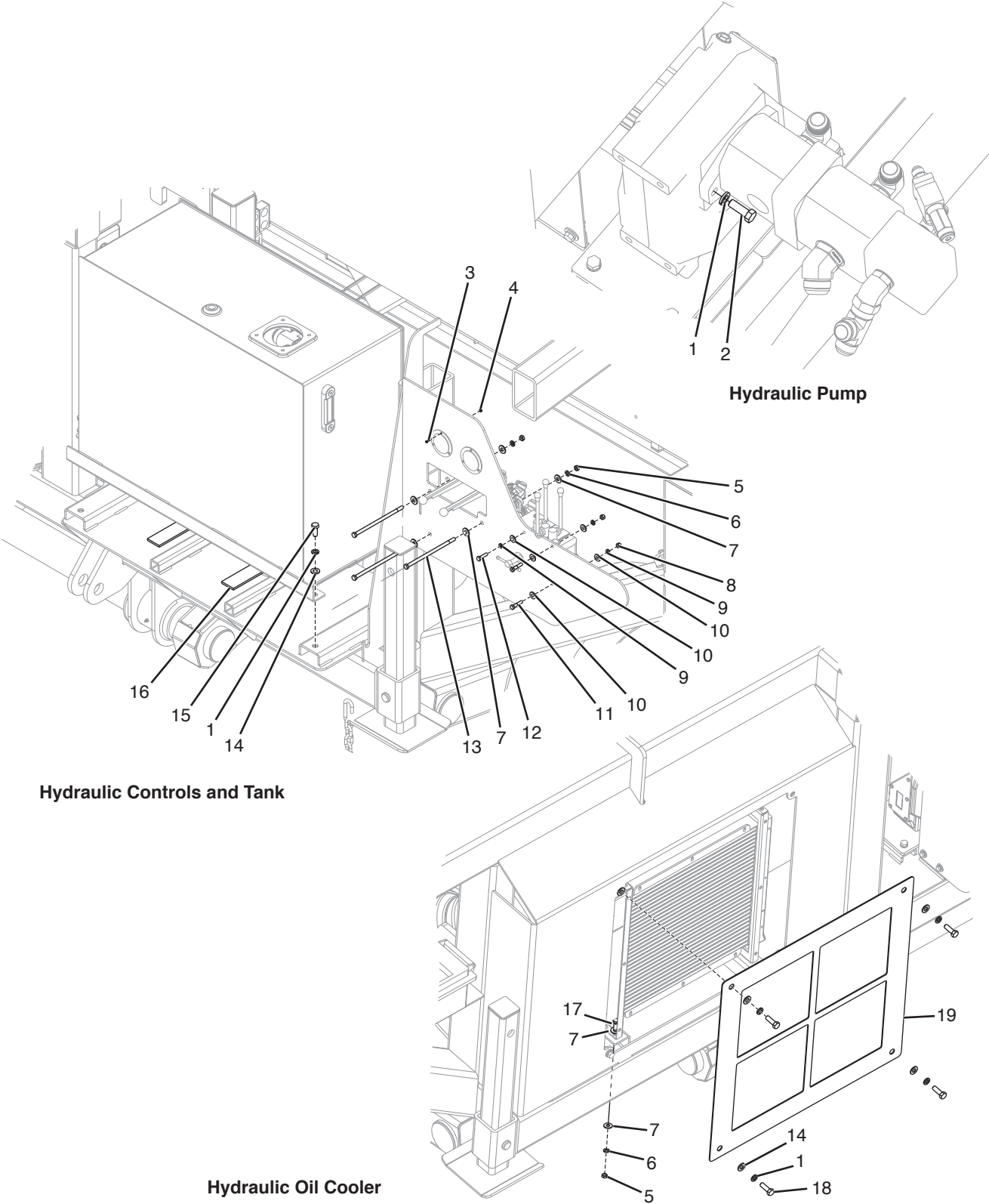


Miscellaneous (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	1	4521	PIN, 3/4" X 1-3/4"
2	1	4336	CLIP, HAIRPIN 1/8" X 2-1/4"
3	1	N27030	KNIFE, GBU LONG BAG CUTTER
4	2	4169	BOLT, 3/4" X 4" BOLT GR 5
5	6	4071	WASHER, 3/4" FLAT
6	2	4056	NUT, LOCK 3/4"
7	2	N22688	ARM, GBU LONG KNIFE BOTTOM
8	2	N22755	SPACER, GBU KNIFE
9	2	N29027	WHEEL, 11L-15 HIWAY F RATING
10	2	N29349	WHEEL, 235 / 75R17.5 TIRE & RIM
11	2	4093	PIN, 3/8" X 3" (2.75" USEABLE)
12	2	4089	CLIP, HAIRPIN .093 X 1-5/8"
13	2	N19768	STOP, CYLINDER 9.5" SAFETY
14	1	N21365	CLAMP, 3/8" DOUBLE HOSE
15	2	N29640	CLAMP, 3/4" HYD HOSE DOUBLE
16	1	N21224	BOLT, 5/16" X 3-1/2" GRADE 5
17	1	N40095	CLAMP, 1-1/4" HYD HOSE DOUBLE
18	1	N27826	PIN, 5/8" X 4" BENT HITCH
19	1	4055	NUT, LOCK 5/8" TOP
20	2	4069	WASHER, FLAT 5/8"
21	1	4027	BOLT, 5/8" X 4" GRADE 5
22	1	N22192	PIN, LINCH 3/16" X 1-9/16"
23	1	N29516	STAND, GBU12 LOWER UNIT JACK

Parts Identification

Hydraulic Components

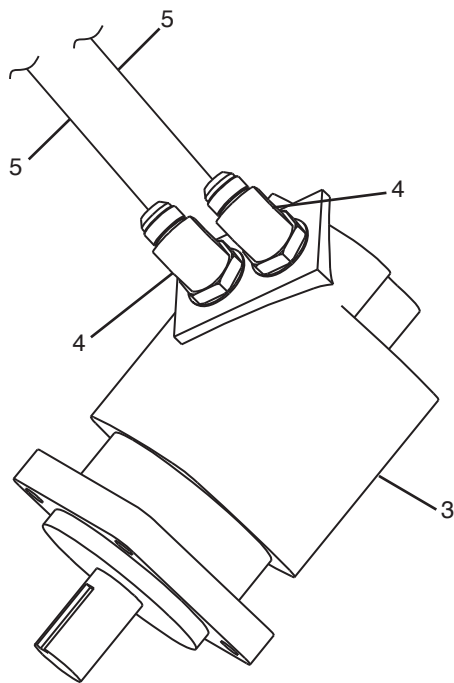


Hydraulic Components

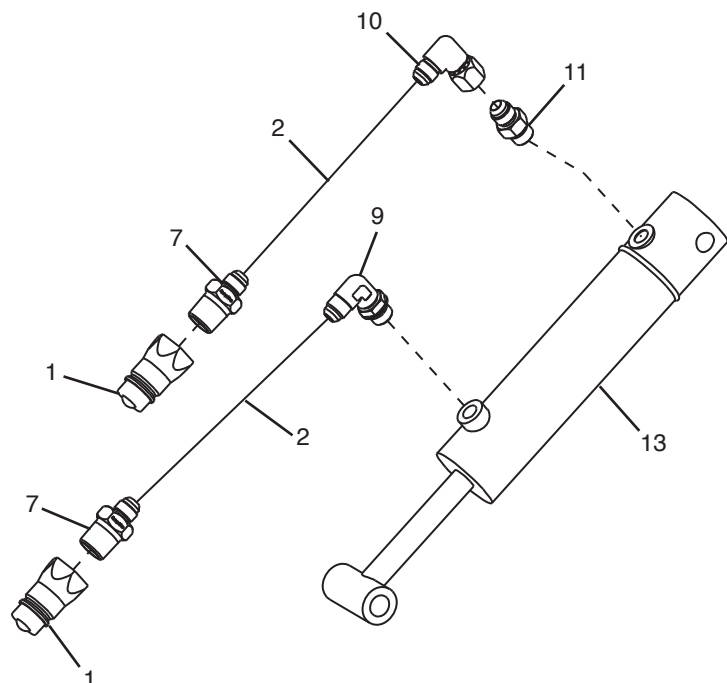
#	QTY.	PART #	DESCRIPTION
1	10	4155	WASHER, LOCK 1/2"
2	2	4376	BOLT, M12 X 35 MM
3	6	4976	SCREW, BHCS #6-32UNC X 3/4"
4	6	4977	NUT, LOCK #6-32UNC
5	7	4233	NUT, STANDARD 3/8"
6	7	4065	WASHER, 3/8 LOCK
7	14	4064	WASHER, FLAT 3/8"
8	2	4237	NUT, 5/16" STANDARD
9	3	4228	WASHER, 5/16" LOCK
10	5	4369	WASHER, 5/16" FLAT
11	2	4241	BOLT, 5/16" X 1-1/2" GRADE 5
12	1	1141	BOLT, 5/16" X 1-1/4" GR 5 FULL
13	3	4995	BOLT, 3/8" X 8" GRADE 5
14	8	4068	WASHER, 1/2" SAE FLAT
15	4	4012	BOLT, 1/2" X 1-1/4" GRADE 5
16	2	N29851	STRIP, 1/4" RUBBER TANK
17	4	4005	BOLT, 3/8" X 1-1/4" GRADE 5
18	4	4013	BOLT, 1/2" X 1-1/2" GRADE 5
19	1	N29447	COVER, GBU12 COOLER

Parts Identification

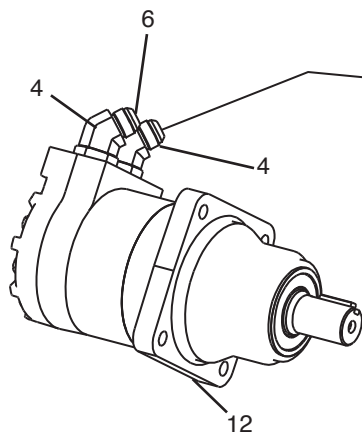
Hose Assembly



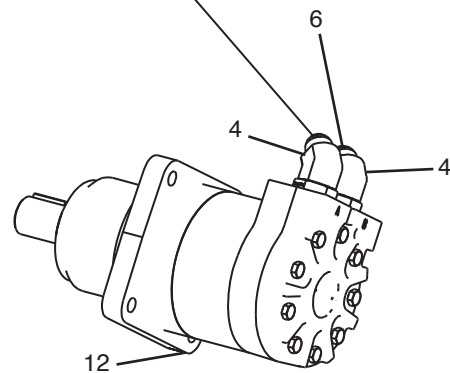
Discharge Auger Motor



Deflector Cylinder



Left Cross Auger Motor



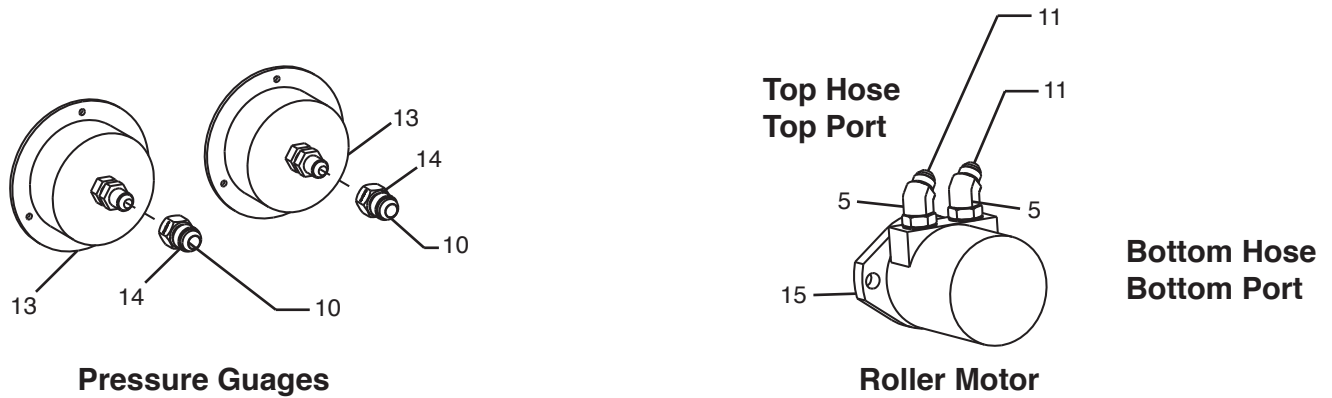
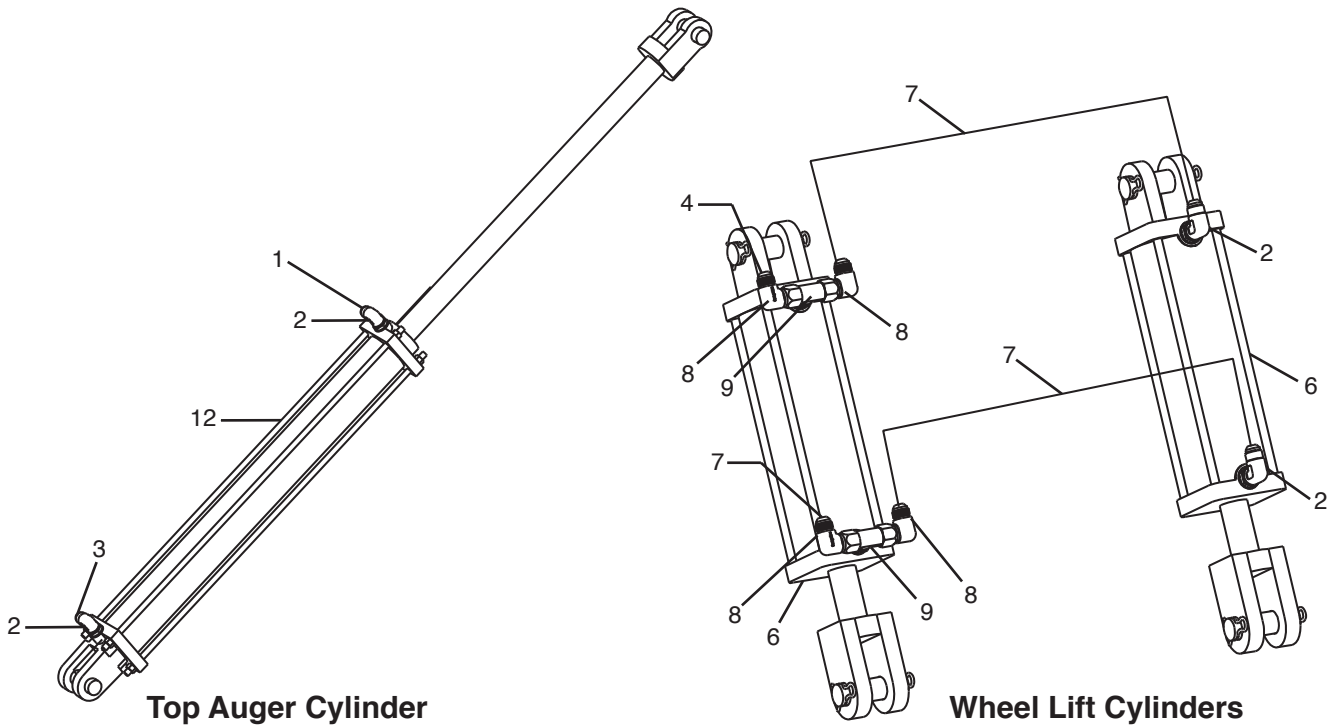
Right Cross Auger Motor

Hose Assembly

#	QTY.	PART #	DESCRIPTION
1	2	N11825	COUPLER, 1/2" MALE PIONEER
2	2	N29845	HOSE 1/4" X 500" - 6FJX - 6FJX
3	1	N12220	MOTOR, CHARLYNN HYDRAULIC 112-1065
4	6	N16174	ELBOW, 45 DEG 12MJIC - 16MOR
5	2	N40104	HOSE 3/4" X 378" - 12FJX - 12FJX
6	2	N40096	HOSE 3/4" X 354" - 12FJX - 12FJX
7	2	N23833	ADAPTER, 6MJIC - 8MP
8	1	N29632	HOSE 3/4" X 173" - 12FJX - 12FJX
9	1	N26204	ELBOW, 90 DEG - 6MJIC - 6MOR
10	1	N29078	ELBOW, 90 DEG - 6MJIC - 6FJIC
11	1	N29846	RESTRICTOR, 6MJIC - 6MOR - 0.31
12	2	N30112	MOTOR, PARKER 24 CU IN WHEEL
13	1	N30999	CYLINDER, 1" X 4" HYD 10" COMP

Parts Identification

Hose Assembly (Cont'd)

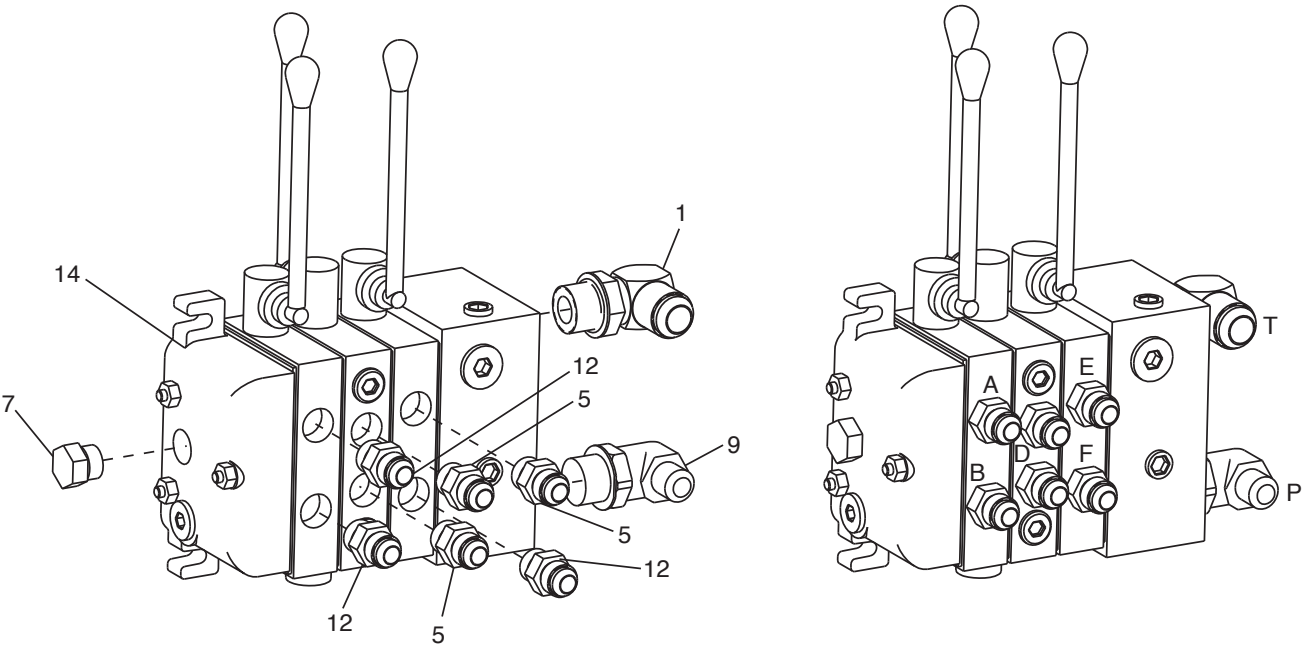


Hose Assembly (Cont'd)

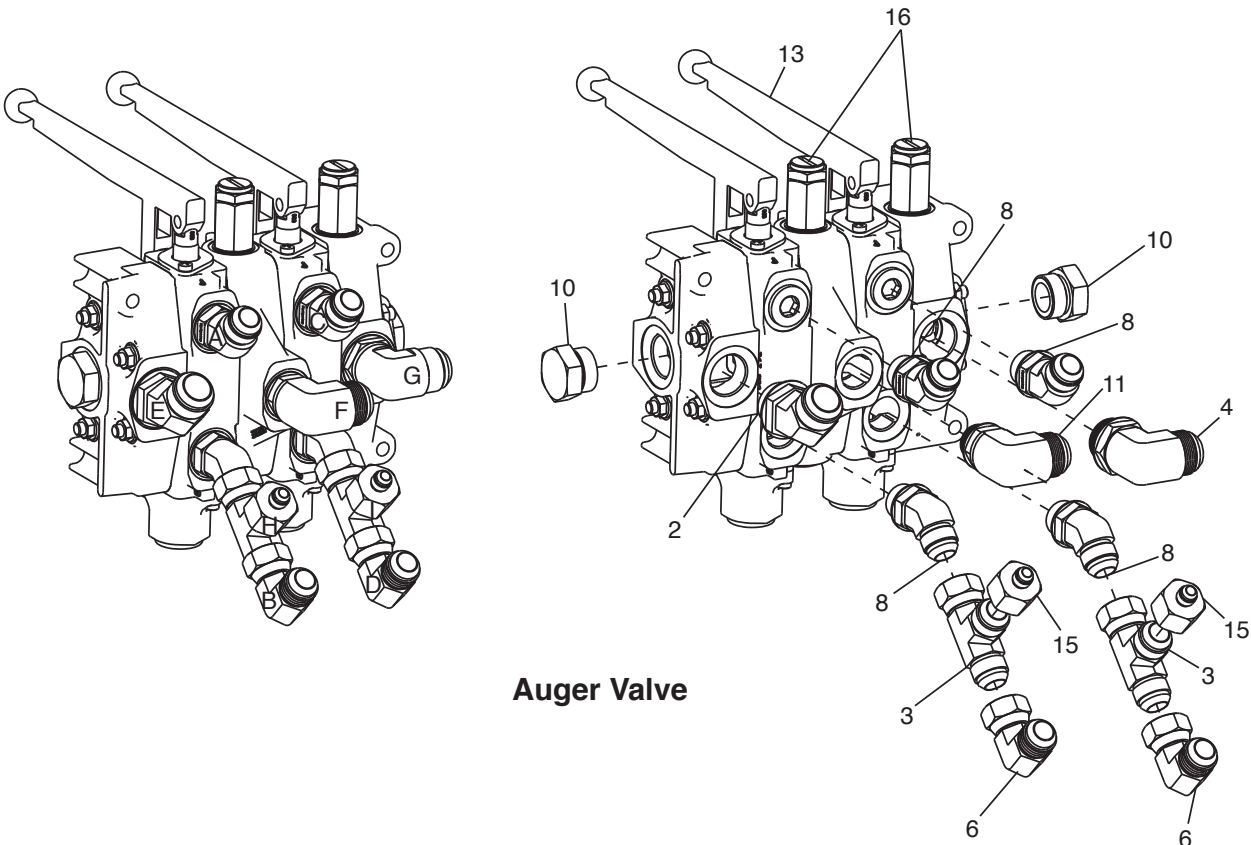
#	QTY.	PART #	DESCRIPTION
1	1	N29725	HOSE 3/8" X 240" - 8FJX - 8FJX
2	4	N11952	ELBOW, 90 DEG - 08MJIC - 08MOR
3	1	N29634	HOSE 3/8" X 212" - 8FJX - 8FJX
4	1	N29723	HOSE 3/8" X 75" - 8FJIC - 8FJIC
5	2	N21381	ELBOW, 45 DEG - 8MJC - 10MOR
6	2	N21715	CYLINDER, 3" X 8" HYD 3000 PSI
7	3	N40097	HOSE 3/8" X 87" - 8FJX - 8FJX
8	4	N24827	ELBOW, 90 DEG - 8FJC - 8MJC
9	2	N24833	TEE, 8MJIC-8MOR
10	2	N29813	HOSE 3/8" X 36" - 6FJX - 6FJX
11	2	N29635	HOSE 3/8" X 76" - 8FJX - 8FJX
12	1	N29743	CYLINDER, 3-1/2" X 24" HYD 3000 PSI
13	2	N29798	GUAGE 5000 PSI HYD PANNEL MNT
14	2	N29812	ADAPTER, 4FJC - 6MJC
15	1	206407	MOTOR, ORBITAL DAN FOSS
		206408	KIT, DAN FOSS SEAL

Parts Identification

Valve Assembly



Function Valve



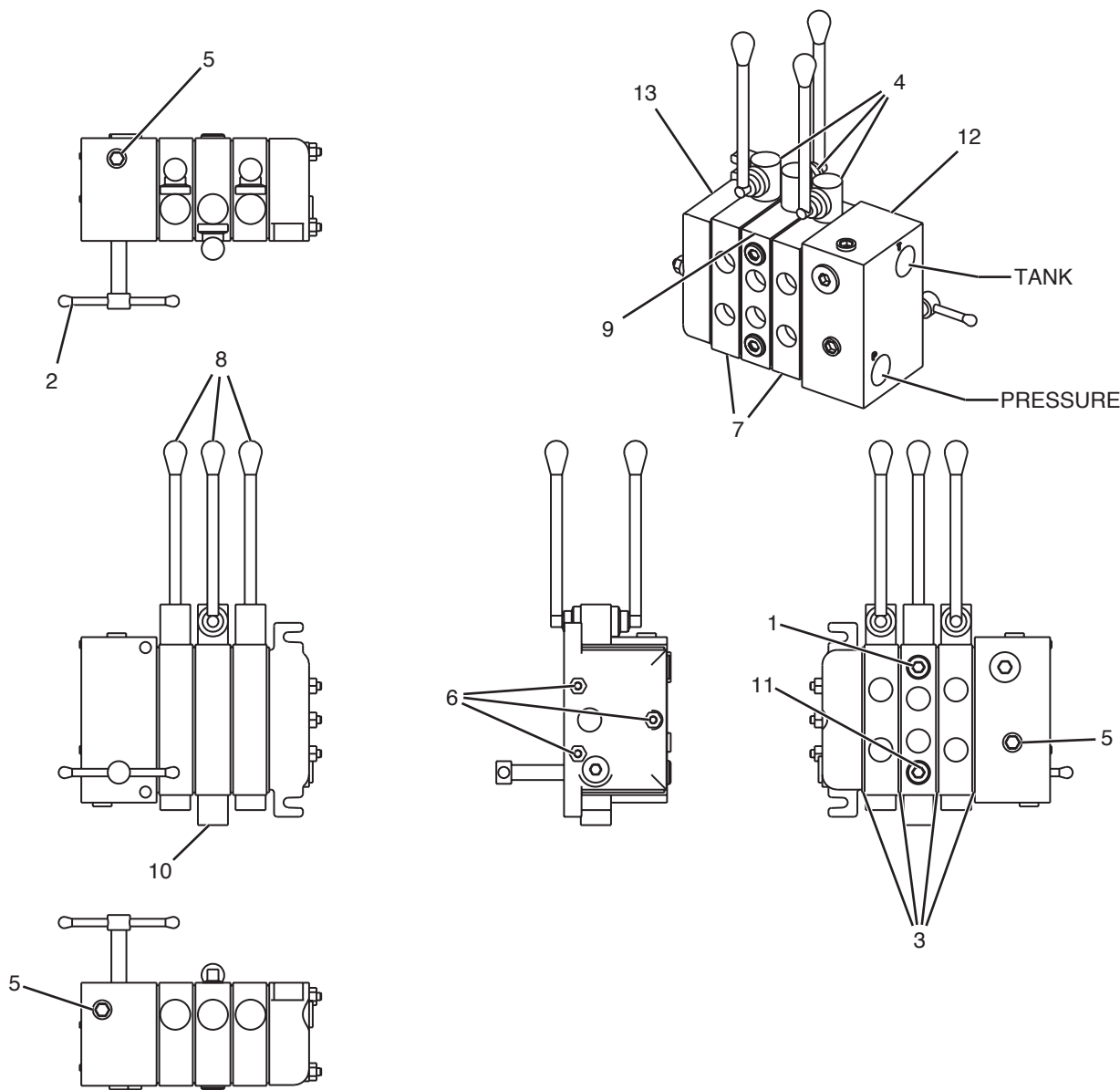
Auger Valve

Valve Assembly

#	QTY.	PART #	DESCRIPTION
1	1	N11945	ELBOW, 90 DEG 12MOR - 12MJIC
2	1	N19273	ELBOW, 45 DEG, 16MJIC - 16MOR, 6802-16-16
3	2	N19306	TEE, 12MJIC-12FJIC-12MJIC SWVL
4	1	N41121	ELBOW, 90 DEG-16MJIC-16MOR
5	3	N20228	ADAPTER, 8MJC - 8MOR
6	2	N21333	ELBOW, 90 DEG-12MJIC-12FJIC, 6500-12-12
7	1	N25198	PLUG, 8MOR HEX
8	4	N25883	ELBOW, 45 DEG - 12MJC - 12MOR
9	1	N26333	ELBOW, 90 DEG - 8MJC - 12MOR
10	2	N28279	PLUG, 16 MOR
11	1	N28910	ELBOW, 90 DEG 16MJIC - 12MOR
12	3	N29074	RESTRICTOR, 8MJIC - 8MOR - .031
13	1	N29102	VALVE, HYDRAULIC CONT MOTORS
14	1	N29103	VALVE, GBU12 DIR CONTROL
15	2	N29815	ADAPTER, 12FJC - 6MJC
16	2	N30032	VALVE, RELIEF

Parts Identification

Valve Assembly (Cont'd)

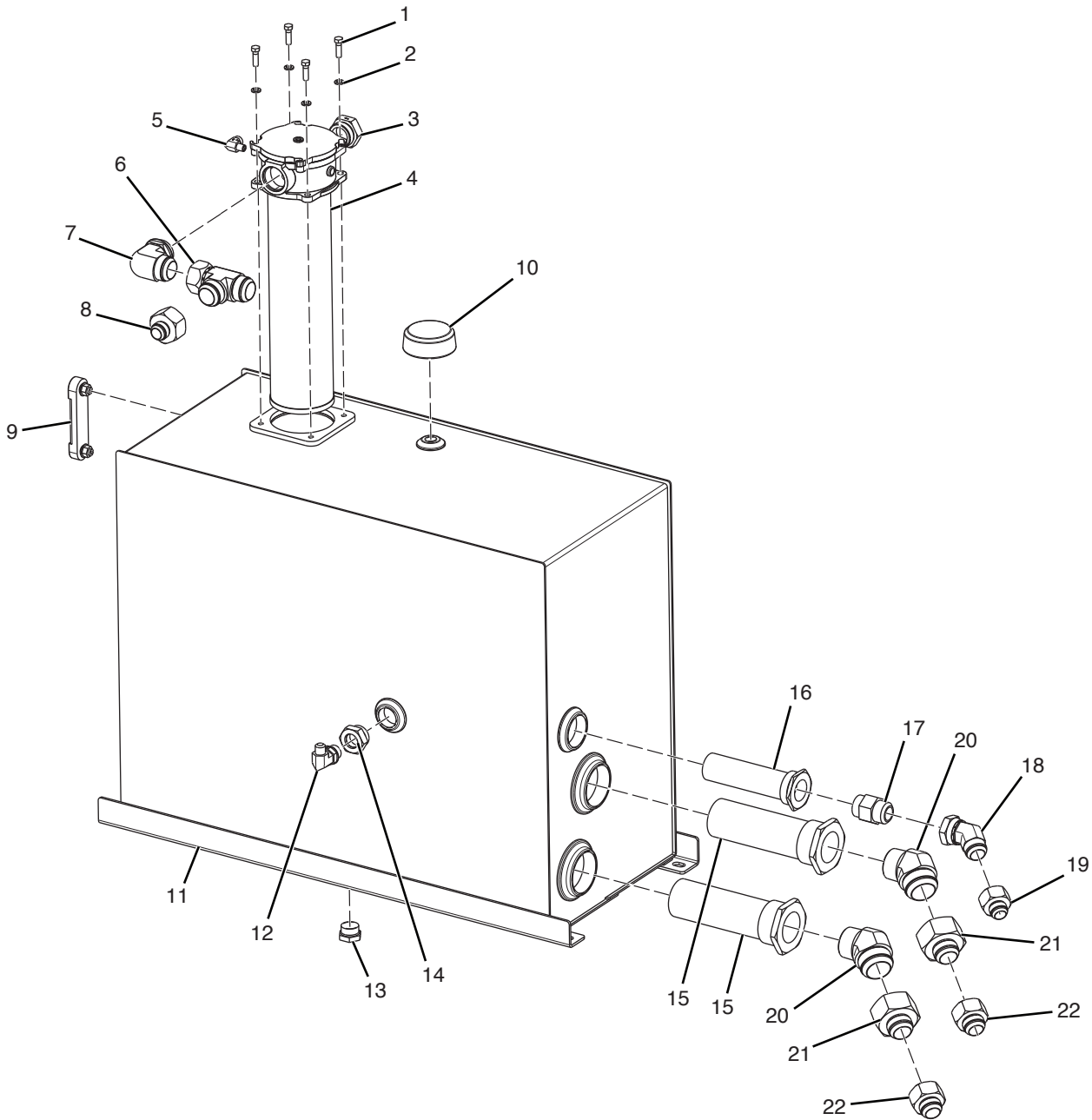


Valve Assembly (Cont'd)

#	QTY.	PART #	DESCRIPTION
1	1	N26537	WORKPORT, REL.V040 RV/AC-1000
2	1	N25080	CARTRIDGE, FLOW CONTRL VT-1267
3	4	N26529	KIT, SEAL VT-1270
4	3	N26543	KIT, HANDLE V040
5	3	N26531	PLUG, HEX 6409-06
6	3	N26532	KIT, 2 SEC.STUD K-V040-2
7	2	N26533	SECTION, WORK W/HANDLE VT-1268
8	3	N26534	KIT, STRAIGHT HANDLE K-V040-HI
9	1	N26535	ASSEMBLY, TANDEM SECT.VT-1269
10	1	N26536	KIT, DETENT ONLY K-V040-RO
11	1	N37594	WORKPORT, REL.V040 RV/AC-2000
12	1	N30151	COVER, CUSTOM INLET
13	1	N30152	COVER, CUSTOM OUTLET

Parts Identification

Hydraulic Reservoir Tank

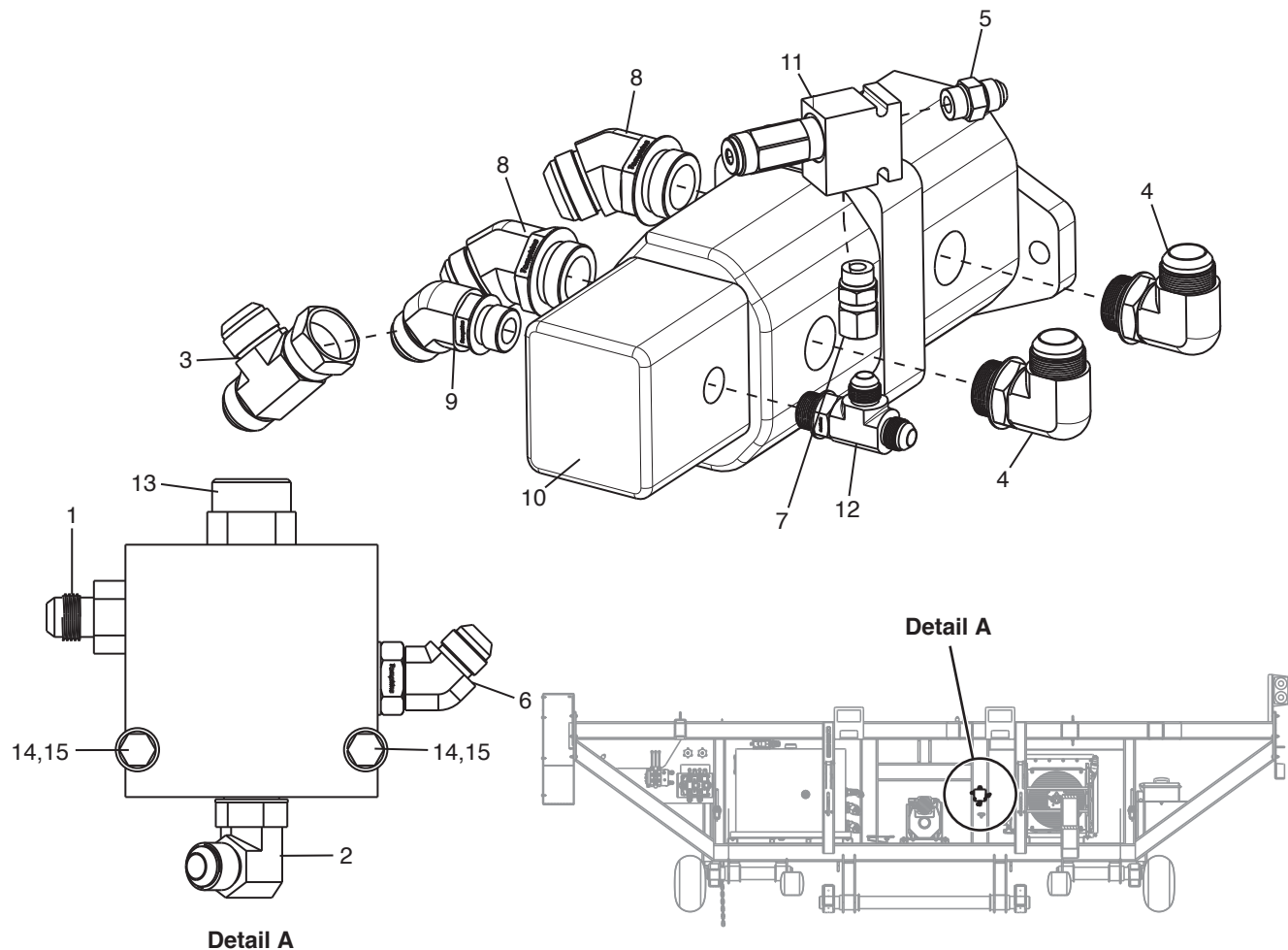


Hydraulic Reservoir Tank

#	QTY.	PART #	DESCRIPTION
1	4	4005	BOLT, 3/8" X 1-1/4" GRADE 5
2	4	4065	WASHER, 3/8 LOCK
3	1	N29612	PLUG, 24 MOR
4	1	N29106	FILTER, HYDRAULIC TANK
5	1	N16162	ELBOW, 1/4" BLK 90 DEG STREET
6	1	N30419	TEE, 24MJC-24FJC-24MJC SWL
7	1	N29727	ELBOW, 90 DEG - 24MJC - 24MOR
8	1	N29615	ADAPTER, 24FJC - 16MJC
9	1	N29499	GUAGE, FLUID LEVEL SIGHT
10	1	N30462	BREATHER, TANK 3/4"
11	1	N40038	TANK LH, GBU 12
12	1	N26333	ELBOW, 90 DEG - 8MJC - 12MOR
13	1	N29547	PLUG, 20MOR
14	1	N31225	ADAPTER, 20MOR - 12FOR
15	2	N30454	STRAINER, FLOW-EZY S50
16	1	N29497	STRAINER, FLOW-EZY 20 ORB
17	1	N37639	VALVE, CHECK 20MOR - 20MJIC
18	1	N34209	ELBOW, 45 DEG - 20MJC - 20FJC
19	1	N33748	ADAPTER, 20FJC - 16MJC
20	2	N30457	ELBOW, 45 DEG - 32MJC - 32MP
21	2	N30415	ADAPTER, 32FJC - 24MJC
22	2	N30111	ADAPTER, 24FJC - 20 MJC

Parts Identification

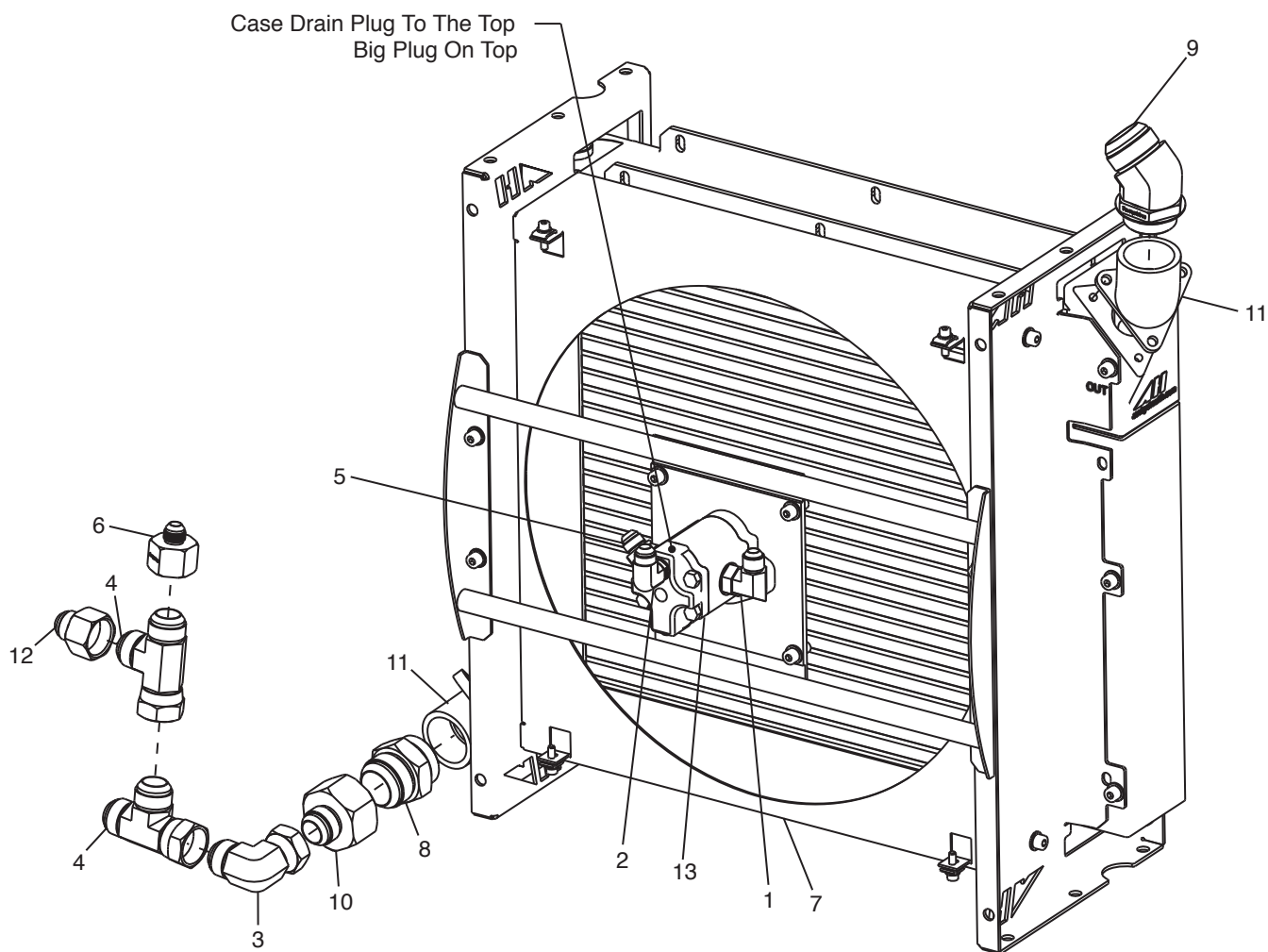
Hydraulic Pump and Regulator



Detail A

#	QTY.	PART #	DESCRIPTION
1	1	N12444	ADAPTER, 8MJIC - 10MOR
2	1	N16173	ELBOW, 90 DEG - 8-MJC - 10MOR
3	1	N19272	TEE, 16MJIC-16FJIC-16MJIC, 6602-16
4	2	N41121	ELBOW, 90 DEG-16MJIC-16MOR
5	1	N20228	ADAPTER, 8MJC - 8MOR
6	1	N21381	ELBOW, 45 DEG - 8MJC - 10MOR
7	1	N24835	ADAPTER, 8MOR - 8FJIC
8	2	N29525	ELBOW, 45 DEG - 20MJC - 20MOR
9	1	N29722	ELBOW, 45 DEG - 16MJIC - 12MOR
10	1	N37628	PUMP, HYDRAULIC STACK
11	1	N37629	VALVE, RELIEF 3000 PSI
12	1	N38300	TEE, 8MJIC - 10MORB - 8MJIC
13	1	N39096	FR12-30F, HYDRAFORCE
14	2	4204	BOLT, 5/16" X 2-1/2" GRADE 5
15	2	N28927	WASHER, FLAT 5/16 SAE

Hydraulic Oil Cooler



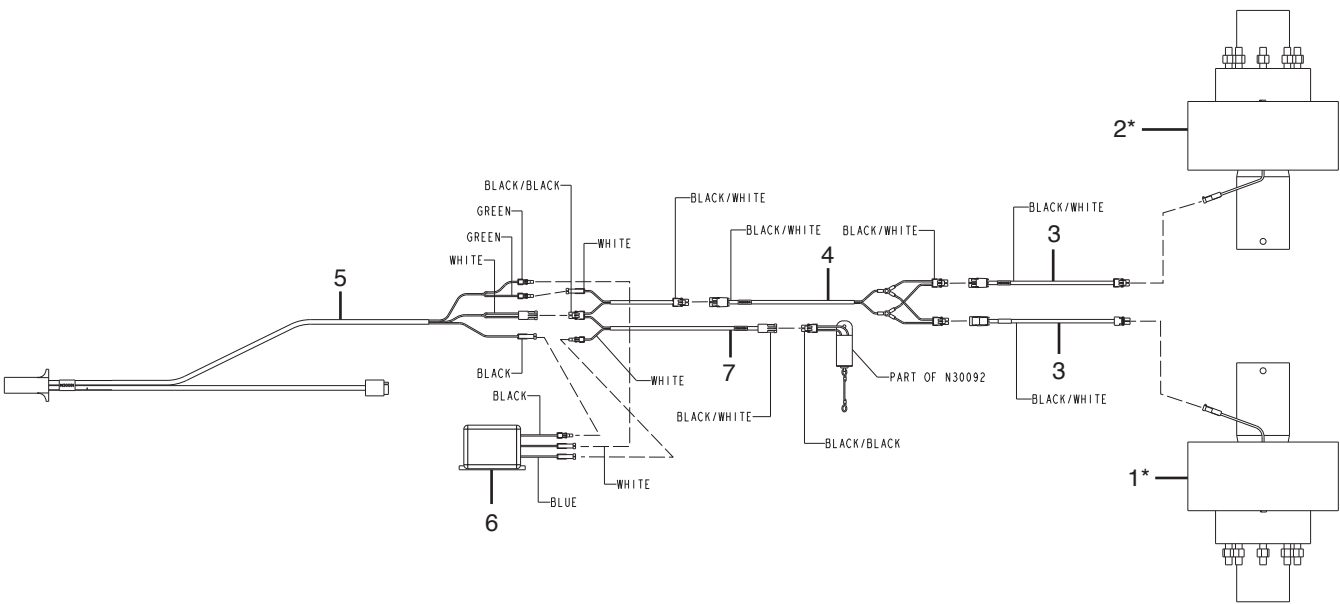
#	QTY.	PART #	DESCRIPTION
1	1	N16173	ELBOW, 90 DEG - 8-MJC - 10MOR
2	1	N17003	ELBOW, 90 DEG - 8MJIC - 6MOR
3	1	N19270	ELBOW, 90 DEG - 16MJIC - 16FJC
4	2	N19272	TEE, 16MJIC-16FJIC-16MJIC, 6602-16
5	1	N21381	ELBOW, 45 DEG - 8MJC - 10MOR
6	1	N28778	ADAPTER, 16FJIC - 8MJIC
7	1	N29104	COOLER, ASA HYDRAULIC OIL
8	1	N29611	ADAPTER, 24MJIC - 24MOR
9	1	N29614	ELBOW, 45 DEG - 24MJC - 24MOR
10	1	N29615	ADAPTER, 24FJC - 16MJC
11	2	N29616	ELBOW, 3-BOLT ORFS - 24FOR
12	1	N29617	ADAPTER, 16FJC - 12MJC
13	1	N37281	MOTOR, GBU 12 COOLER

Hydraulic Hose Assembly

#	QTY.	PART #	DESCRIPTION
1	1	N17001	TEE, 8MJIC-8MJIC-8MJIC
2	1	N40088	HOSE 1.5 X 112" - 24FJX - 24FJX
3	2	N40101	HOSE 1/2" X 45" - 8FJIC - 8FJIC
4	2	N40102	HOSE 1/2" X 32" - 8FJIC - 8FJIC
5	1	N40103	HOSE 1/2" X 14" - 8FJIC - 8FJIC
6	1	N40099	HOSE 1/2" X 56" - 8FJIC - 8FJIC
7	1	N33749	HOSE 1" X 29" - 16FJX - 16FJX
8	2	N29621	HOSE 1.25" X 27" - 20FJX - 20FJX
9	1	N40100	HOSE 3/4" X 60" - 16FJIC - 16FJIC
10	2	N40087	HOSE 1" X 100" - 16FJX - 16FJX
11	1	N40086	HOSE 1" X 122" - 16FJX - 16FJX
12	1	N40085	HOSE 3/4" X 128" - 12FJX - 12FJX
13	1	N40098	HOSE 1/2" X 114" - 8FJIC - 8FJIC

Parts Identification

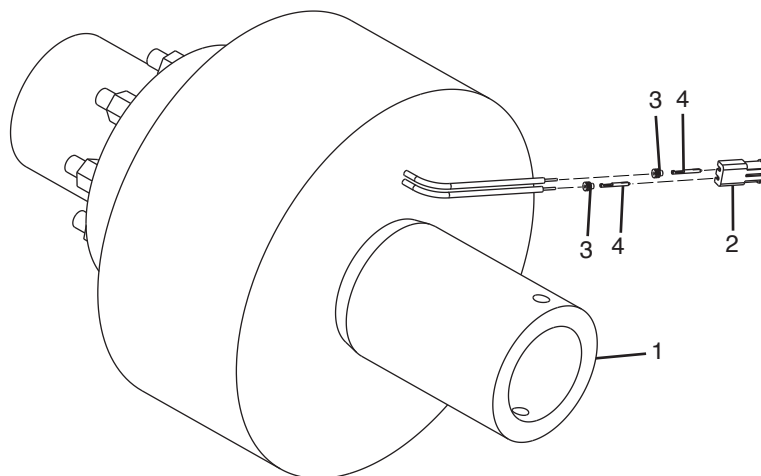
Electrical (Brake) Diagram (N30094)



* For parts breakdown of item 1 (202846) and item 2 (202847), see page 93.

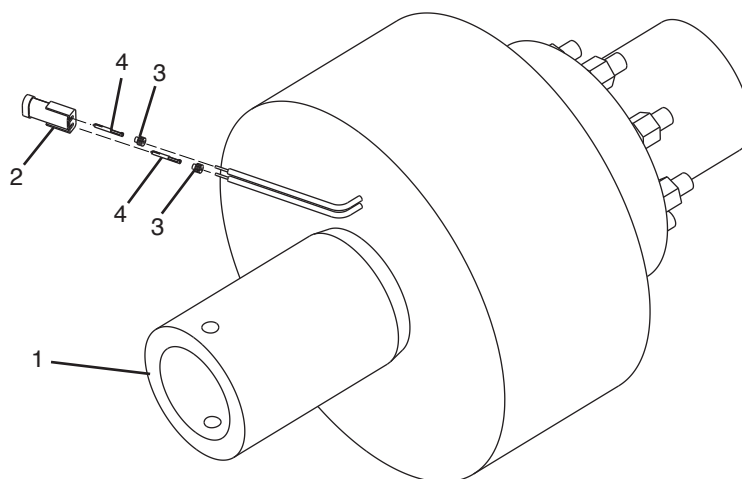
#	QTY.	PART #	DESCRIPTION
1	1	202846	AXLE, GBU12 LEFT WIRED
2	1	202847	AXLE, GBU12 RIGHT WIRED
3	2	N30082	WIRE, GBU12 BRAKE ROTOR
4	1	N30084	WIRE, GBU12 BRAKE SPLITTER
5	1	N30091	HARNESS, GBU12 LIGHT & BRAKE
6	1	N30092	WIRE, BRAKE BATTERY
7	1	N30093	WIRE, BRAKE TWO TO THREE

Axle, GBU12 Left Wired (202846)



#	QTY.	PART #	DESCRIPTION
1	1	202840	12000# 1/2 AXLE ASM SELF ADJ L
2	1	N19839	SHROUD, WP CONTACT 2-WAY
3	2	N30066	SEAL, WP 14-16 GA
4	2	N30067	TERMINAL, WP MALE 14-16 GA

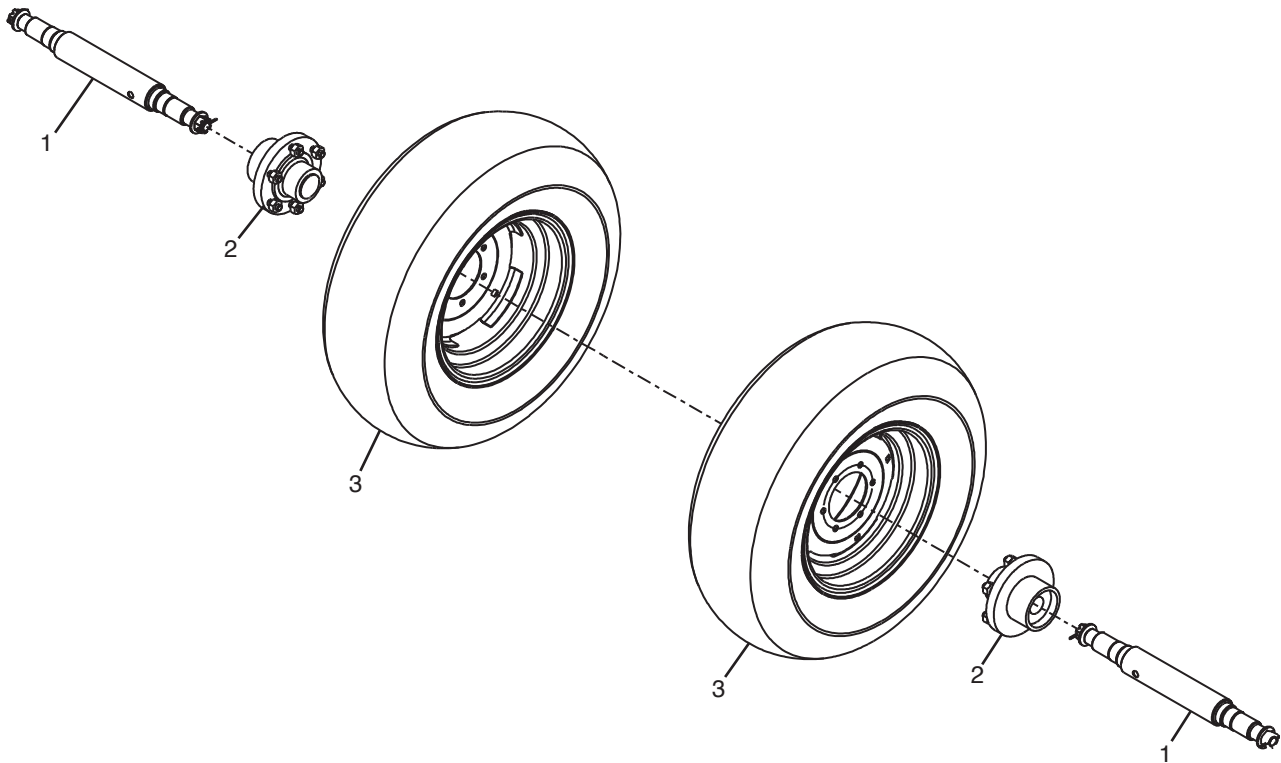
Axle, GBU12 Right Wired (202847)



#	QTY.	PART #	DESCRIPTION
1	1	202841	12000# 1/2 AXLE ASM SELF ADJ R
2	1	N19839	SHROUD, WP CONTACT 2-WAY
3	2	N30066	SEAL, WP 14-16 GA
4	2	N30067	TERMINAL, WP MALE 14-16 GA

Parts Identification

Kit, GBU12 2-1/2" Dual Spindle (N154230)

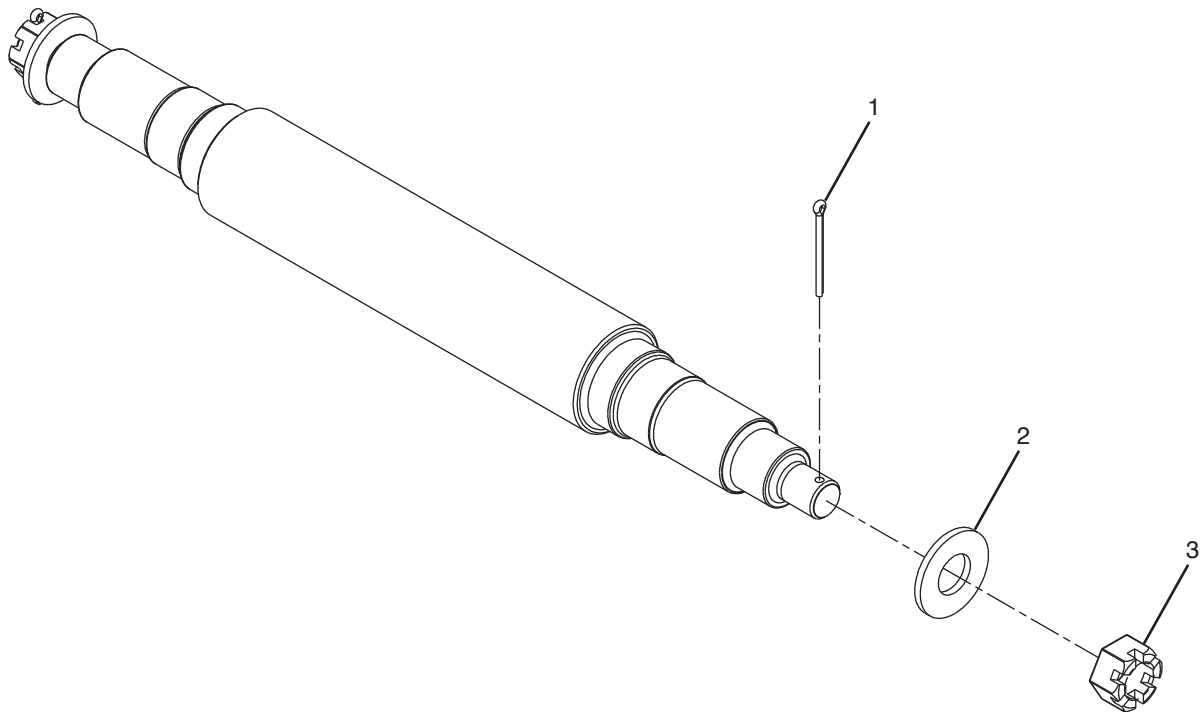


* For parts breakdown of item 1, Spindle (N123534), see page 95.

** For parts breakdown of item 2, Hub (N29054), see page 96.

#	QTY.	PART #	DESCRIPTION
1	2	N123534	SPINDLE, GBU12 2-1/2" DUAL
2	2	N29054	HUB, 6 BOLT 6" PAT W/STUDS
3	2	N29027	WHEEL, 11L-15 HIWAY F RATING

Spindle, 2-1/2" Dual (N123534)

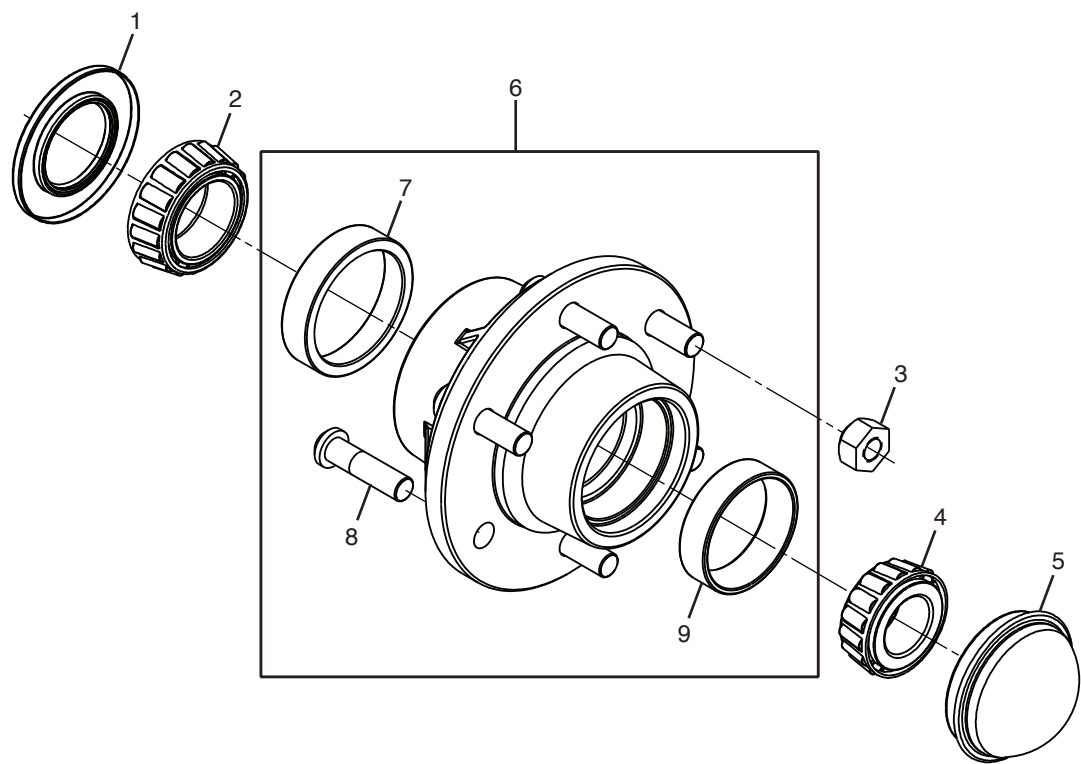


To order a complete spindle (which includes items 1-3) use part number N123534.

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

Parts Identification

Hub, 6 Bolt 6" (N29054)



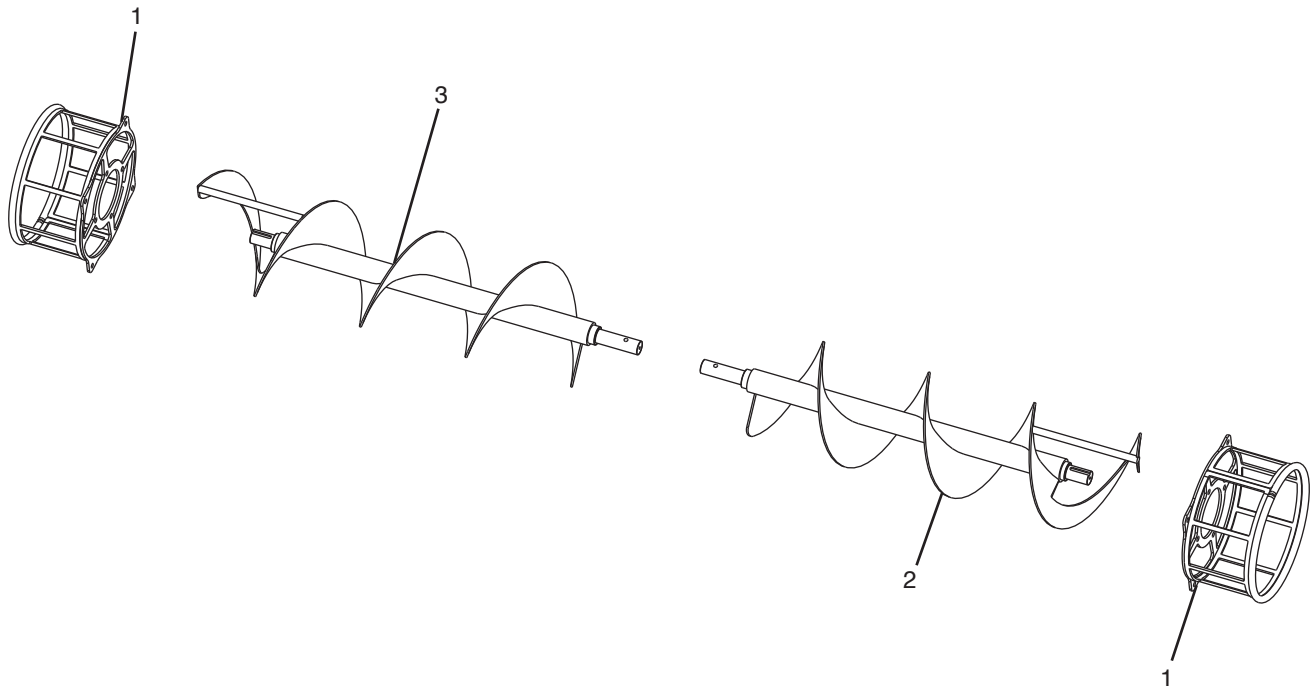
To order a complete 6-bolt hub assembly, use part number N29054.

To order a hub casting with studs and cup bearings, use part number N89170 (item 6).

#	QTY.	PART #	DESCRIPTION
1	1	N89176	SEAL, 6-BOLT HUB N29054
2	1	N89172	BEARING, TAPERED ROLLER 1.796
3	6	N23764	NUT, LUG 9/16-18UNF (N23778)
4	1	N89174	BEARING, TAPERED ROLLER 1.375
5	1	N89178	CAP, 6-BOLT HUB N29054
6	1	N89170	HUB, 6-BOLT W/STUD & CUPS
7	1	N89164	CUP, BEARING INNER HUB N29054
8	6	N27304	STUD, HUB 9/16"-18UNF
9	1	N89166	CUP, BEARING OUTER HUB N29054

Parts Identification

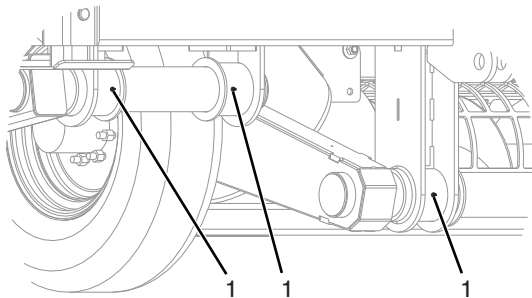
Kit, GBU12 Cross Auger 10 ft. Extension (N29758)



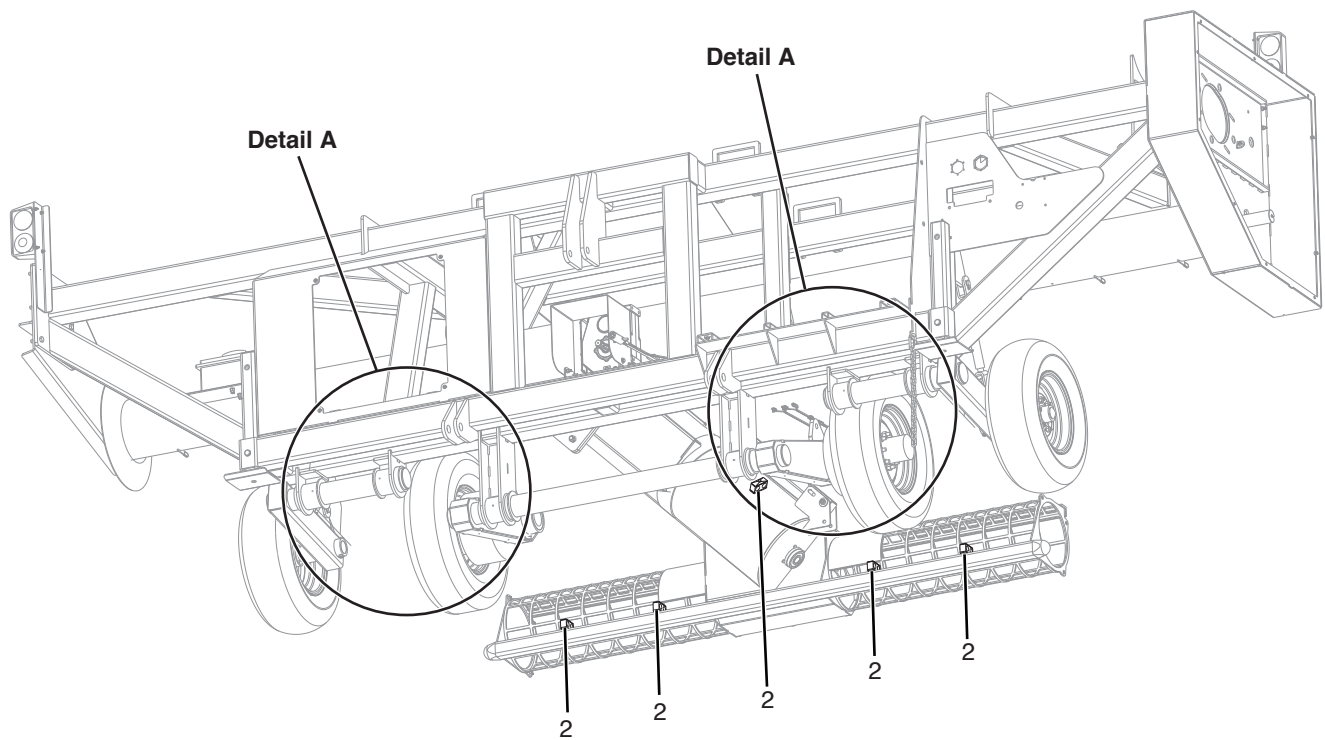
#	QTY.	PART #	DESCRIPTION
1	2	N29672	MOUNT, GBU12-10 CRS 10 AUG MTR
2	1	N29680	AUGER, HYD GBU LEFT 10 CROSS
3	1	N29684	AUGER, HYD GBU RT 10' CROSS

Parts Identification

Grease Zerks, Hose Clamps



Detail A



#	QTY.	PART #	DESCRIPTION
1	6	4105	GREASE-ZERK, 1/4" SCREW-IN
2	5	N29640	CLAMP, 3/4" HYD HOSE DOUBLE

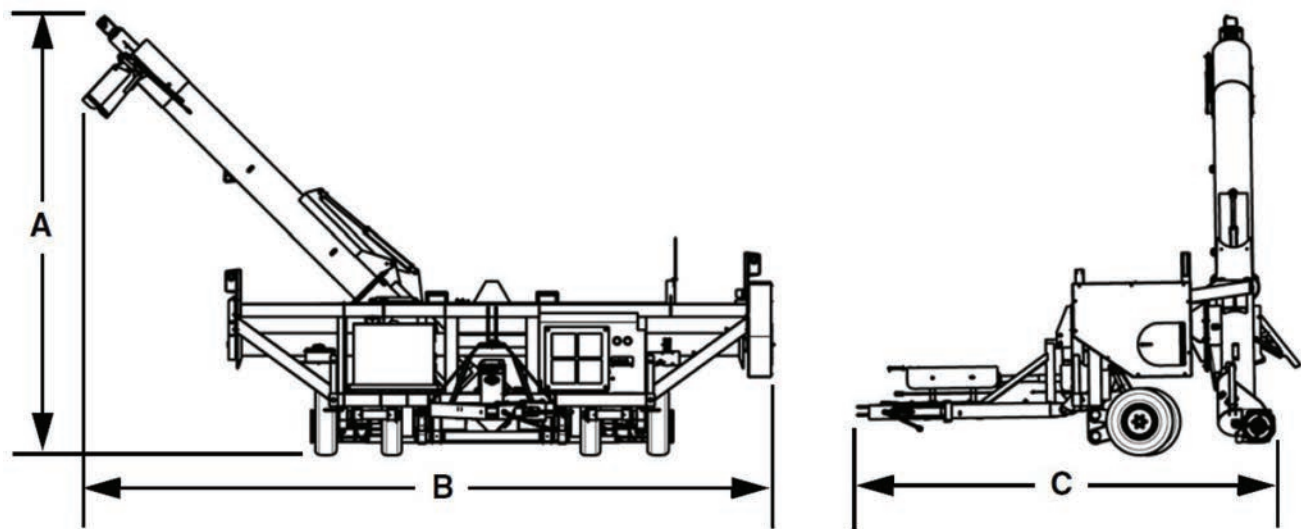
Specifications

DESCRIPTION	12' GRAIN BAG UNLOADER
Operating Capacity	12,000 Bushels/Hr
Operating Weight	11,000 lbs.
Minimum Tractor Horsepower	150 HP
Maximum Rear-PTO RPM	1000 RPM
Main Discharge Auger	17 in. (431.8 mm)
Main Auger Drive	Hydraulic (480 RPM)
Cross Auger Feed	12"
Cross Auger Drive	Hydraulic (250 RPM)
PTO Driveline	Walterscheid W2400 - 600 Series
Wheels	12.5L - 15 Suregrip Traction
Transport Wheels	235 / 70 R 17.5 Hiway
Transport Brake System	Electric Trailer Brakes
Transport Wheel Cylinders	3" x 8"
Operating Height	17' 2" (206")
Operating Width	27' - 1" (324")
Operating Length	16' 3" (195")

Appendix

Dimensions

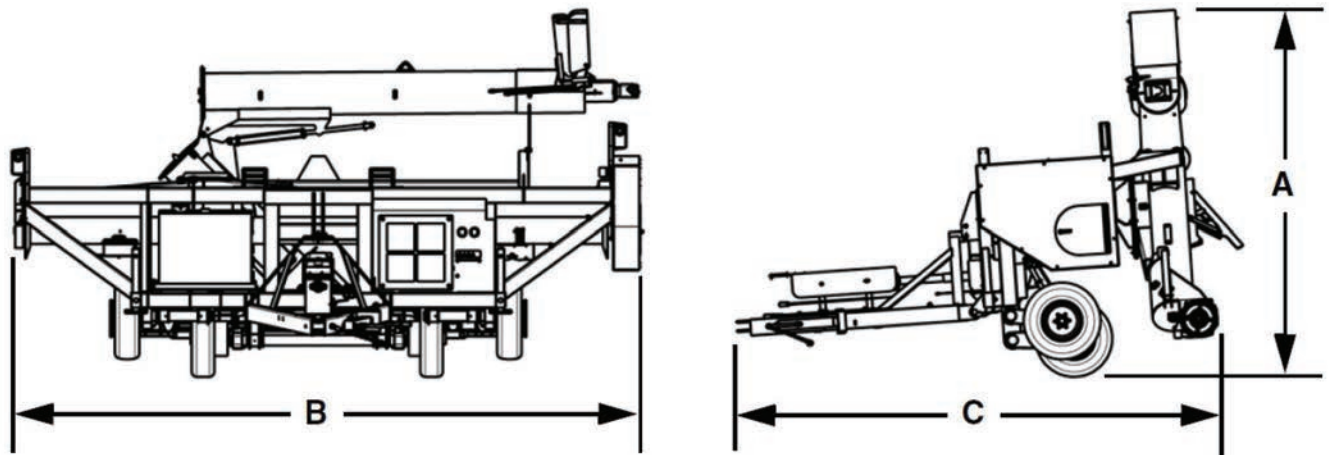
Operation



DESCRIPTION	12' GRAIN BAG UNLOADER
Operating Height (A)	17' 2"
Operating Width (B)	27' 1"
Operating Length (C)	16' 3"
Transport Height	153 in. (12' 9") - (388.6 cm)
Transport Width	236 in. (19' 8") - (599.44 cm)
Transport Length	390 in. (32' 6") - (990.6 cm)

Dimensions

Transportation



DESCRIPTION	12' GRAIN BAG UNLOADER
Operating Height (A)	12' 6"
Operating Width (B)	21' 4"
Operating Length (C)	16' 5"

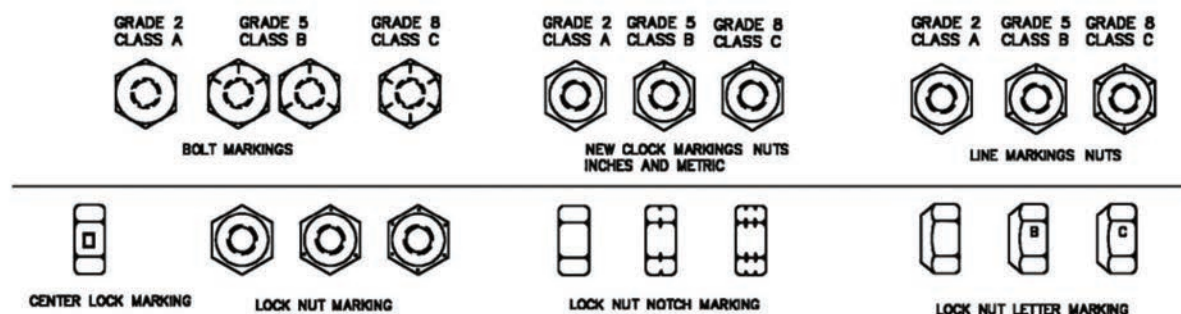
Appendix

Torque Specifications

Inches Hardware and Lock Nuts

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

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



Torque Specifications (Cont'd)

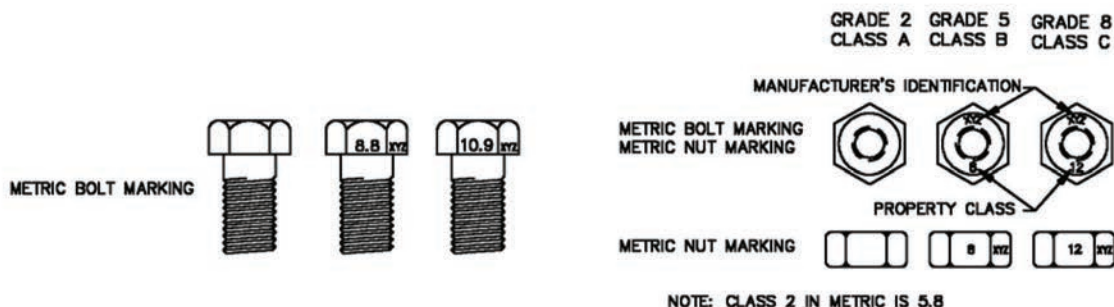
Metric Hardware and Lock Nuts

TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications
(Metric Hardware and Lock Nuts)

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





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Printed in USA
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