



**BRIDGEVIEW MFG. INC.**



## ***BALE KING 5225***

### ***Bale Processor***



### ***Operator's & Parts Manual***

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**Your Authorized Dealer**

**Your Serial Number**

The Serial Number is located the front tub panel, next to the operator manual box.

	<p><b>⚠ WARNING</b></p> <p><b>Failure to read and understand operator's manual &amp; all safety signs could result in serious injury. Manual must remain with machine.</b></p>
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## INTRODUCTION

Thank you for purchasing a **Bale King** bale processor. With the proper operation and service as outlined in this manual, the Bale King will provide you with years of trouble free operation.

This is a complete safety, operation and parts manual for the Bale King 5225. The manual covers in detail how to safely and effectively use your new processor. The procedures outlined in this manual should be followed to ensure safe operation and longevity of your machine. The parts manual covers all parts you may need to order in case of accident or breakdown. Please read completely through this manual before beginning operation of your new machine.

### ***Safety Precautions***

**The following safety precautions MUST be followed to ensure safe operation of the Bale King Bale processor.**

- **ALWAYS** turn **OFF** the tractor when leaving the operating platform.
- **DO NOT** stand in front of the discharge chute while the machine is running.
- **DO NOT** walk or move under the bale forks when they are in the upward position, unless the cylinder safety lock is in place.
- **DO NOT** enter the machine while in operation.
- **DO NOT** clean machine while in operation.
- **DO NOT** stick any device into the machine to clear debris while the machine is in operation.
- **ALWAYS** turn off the machine when cleaning the machine, removing twine, or hooking/unhooking the machine
- **ALWAYS** use safety chain when towing the machine on the highway.
- **DO NOT** operate if any part of the **PTO safety shielding** is missing or is not secured.



## ***Safety Decals***

### **Power Take-off**

The operator must obey all safety labels and must maintain the proper shielding. A high percentage of drive-line injuries occur when safety shielding is missing or not functioning properly. This model has a rotating driveshaft at the front of the machine as well as between the grain tank and processor tub. Decals are placed at both locations.



**! DANGER**

**ROTATING PTO DRIVELINE HAZARD**

To prevent serious injury or death:

- Keep body, hair, and clothing away from rotating PTO driveline.
- Do not operate equipment unless all driveline, tractor, and equipment shields are in place and in good working order.
- Make certain the driveline shields turn freely on driveline.
- Make certain the driveline is securely attached at both ends.
- Do not exceed operating speed of 1000 rpm.
- Keep u-joint angles small and equal. Do not exceed maximum recommended length for PTO driveline.

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**DANGER:** *Contact with a rotating drive-line can cause serious injury or death.*



## Discharge



**DANGER:** *Do not stand on the discharge side of the machine while it is in operation.*





## Rear Fork Lift Area



***DANGER: Stand clear of lift area. Do not stand under the forks unless safety locks are installed.***

**Deflector Safety Lock:** Unlock for Operation, Lock for Transport and Storage.







## FEATURES & OPERATION

### ***Power Take-off***

The Bale King bale processor has a PTO shaft which is splined on both ends. The implement end uses a 1-3/4"-20 spline with wedge lock bolts. Install onto the driveshaft and tighten the wedge bolts. The bolts should be torqued to **160 ft-lb** and re-torqued after 8 hrs of use.

The tractor end comes standard with a 1-3/8"-21 spline quick detach constant velocity joint. An optional 1-3/4"-20 spline yoke is available through your Bale King dealer.

The Bale King 5225 Processor has an additional driveshaft travelling from the front of the unit, through the tank and to the front of the gearbox. This shaft has a male 1 3/4"-20 spline end on the PTO shaft end, the other end features a 1 3/4"-20 spline yoke with wedge lock bolts. These bolts should also be torqued to **160 ft-lb** and re-torqued after 8 hours of use.

The Bale King processor is designed to use a minimum of **100 HP**. The drive shaft is shear-bolt protected. The machine must be operated at **1000 PTO RPM**.

**NOTE: *Spread yokes and twisted drive shafts are signs of OVERLOAD, not a manufacturer's defect and therefore not covered by warranty.***

- **DO NOT** operate the machine using a spline adaptor. Use of adaptors will **void warranty** due to damage caused to the tractor PTO, PTO driveshaft, or implement.
- **DO NOT** operate at 540 rpm, or use any kind of adaptor to connect to a 540 rpm spline.
- **Always** ensure that the PTO shaft is attached securely to the tractor. When the processor is not hooked to the tractor, store the shaft on the PTO holder.
- **DO NOT** transport the processor without securing the PTO shaft. It may bounce off the holder and be damaged.
- **Always** ensure that the drawbar is adjusted to **16"** from the end of the tractor PTO shaft to the center of the hole in the drawbar.



## Operation

To engage the rotor for processing a bale, be sure the PTO shaft is properly connected to the tractor. Engage the PTO at idle. After the PTO is fully engaged, increase PTO speed until it reaches 1000 RPM.

The processor must not run at any speed less than 1000 PTO RPM as it may result in the flails springing back against the rotor after they come in contact with the bale. This “*backslap*” may cause flails to fatigue and excessive vibration which may cause the bearings to fail. Bales may be dumped into the tub while the rotor is stopped or while it is running.

## Shear Bolt

All new Bale King processors are equipped with a **shear bolt** clutch located at the implement end of the PTO shaft. The correct size shear bolt is **3/8 x 2” Fine Thread Grade 5 with Stover Lock Nut**. Any other size or grade will **damage** the shear assembly. Spare shear bolts are shipped with each new machine and are stored along the front top lip of the tub.

If your shear bolt is shearing excessively you may be over-loading the machine. If this occurs raise the grate assembly to make the machine less aggressive, or roll the bale more slowly. **Always ensure that your machine is running at 1000 PTO RPM.**

**NOTE: Please consult your local dealer to help pinpoint any problems.**

## PTO Holder

A PTO shaft holder is standard with your new Bale King, for safe storage of the PTO shaft when the processor is not in use.

When unhooking the PTO shaft from the tractor, lift the free end of the PTO shaft up and place it in the holder provided. This will keep the shaft away from the hitch when hooking the tractor to the machine and keep it clear from snow and ice.

The hydraulic hoses may need to be adjusted to best fit your tractor, to avoid damage from rubbing on the PTO shaft shield. This can be done by loosening the bolt on top of the plastic hose clamp, then pushing or pulling on the hoses to adjust the length.



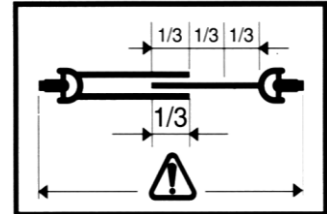


## PTO Use and Maintenance

Shut **OFF** the tractor engine and remove the key before doing any maintenance on the machine. Use **ONLY** genuine **Weasler** parts when replacing any worn or damaged PTO components.

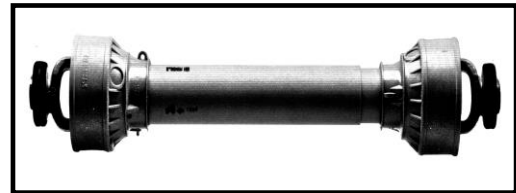
### *Length:*

Confirm the minimum and maximum working lengths of the drive-line. The telescoping tubes must overlap at least  $\frac{1}{3}$  of their length when in use. The PTO is designed to be used with a drawbar length of 16" from the end of the PTO shaft. Adjust your tractor accordingly.



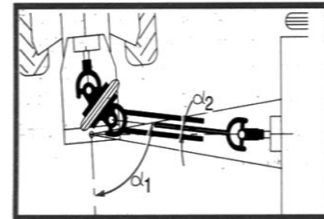
### *Shielding:*

Be sure that the shielding is not damaged and rotates freely on the drive shaft.



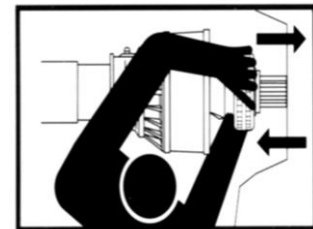
### *Working Angles:*

Constant Velocity joints can operate up to 80 degrees for short periods of time. Do not operate for long periods on sharp angles.



### *Attachment:*

Be sure the drive-line is properly attached and all bolts and screws are tight on the implement input shaft and on the tractor PTO shaft.

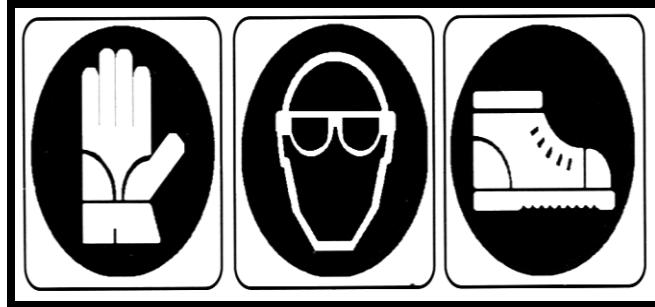


### *Storage:*

When not in use, cover or protect the drive shaft from the weather. When removed from the machine store both halves together to prevent damage. Check all components for proper function and lubrication before use.



**BEFORE ATTEMPTING ANY REPAIR PROCEDURES,  
ALWAYS USE APPROPRIATE EQUIPMENT SUCH AS  
SAFETY GLASSES, SAFETY SHOES, AND GLOVES**



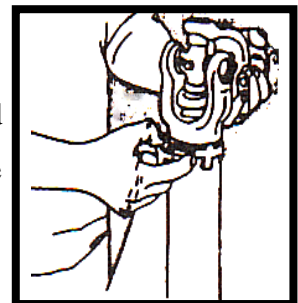
*Shield Removal:*

- To remove the shield, pop out the red snap, then rotate the guard on the bearing to line up the three tabs with the openings and pull it off away from the knuckle joint.
- Remove the nylon bearing from the shaft by spreading it open.



*Shield Assembly:*

- Be sure to lubricate the groove in the inner yokes where the shield bearing rides. Reinstall shields in the reverse order that they were removed.

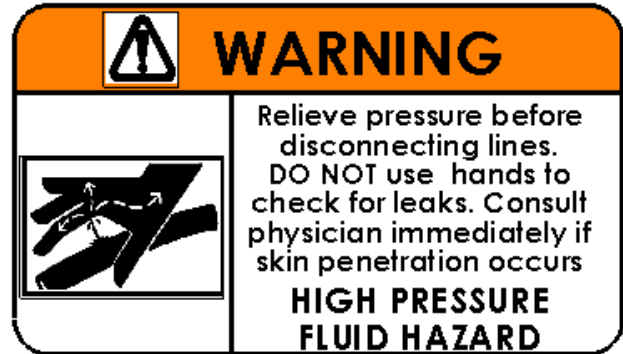




## Hydraulics

**WARNING:** *Pressurized hydraulic fluid can cause serious injury.*

- When working with hydraulic equipment, eye and hand protection should be worn.
- Do not test for leaks with bare hands.
- Relieve any pressure before removing a hose or fitting.
- Never work under components raised by hydraulic equipment unless supported externally.



There are three sets of hydraulic hoses to connect to the tractor. Each hose has a coloured marker to identify its function. They should be connected at best convenience for the tractor's controls. The hoses are paired by colour and the following tables show the operation when pushing oil into the hose with the longer marker.

### 5225 - 3 Remotes

Hose Marker	Function
Long Red	Turn agitators clockwise
Long Blue	Lift rear fork Lift grain tank lid Lift discharge deflector
Long Yellow	Engage grain auger

The two diverters on this unit allows the processor to have 5 functions using only 3 remotes. The function is determined by a control box, mounted in the cab of the tractor. The control box connects to the processor via a 4 prong connector. The in cab control box requires a 12V ground (white) and a 12V power (black). A wiring diagram is provided at the end of this manual.

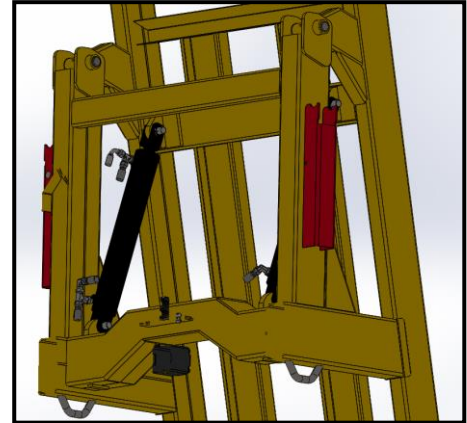
Always set the tractor's hydraulic flow at a lower rate and adjust it upward until the desired speed is reached. Excessive oil flow may damage the flow divider cartridge or other components



## ***Cylinder Maintenance***

The hydraulic cylinders are easily removed for repair or maintenance simply by:

- Lowering the fork (or deflector) to the down position and unhooking the hydraulic lines. Be sure there is no pressure on the lines and mark the line locations so there is no confusion when reinstalling the cylinders. Check hydraulic schematics.
- Removing the cotter pin closest to the frame of the machine and sliding the cylinder pins out
- To reinstall, reverse the removal procedure

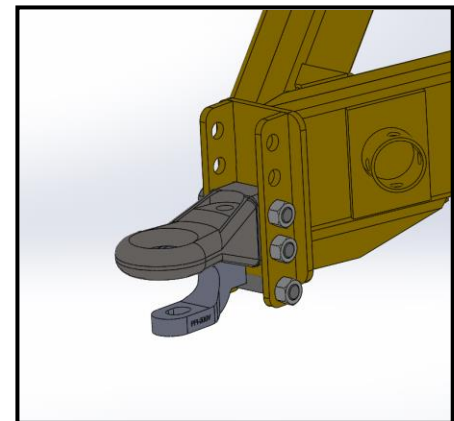


**NOTE:** *Always cover exposed cylinder shafts with grease to avoid rusting of shafts if the unit is not used for extended periods of time. Rusted cylinder shafts are NOT covered by warranty*

**NOTE:** *Check all hoses and fittings periodically for leaks. Tighten or replace any dripping components or any worn out hoses.*

## ***Implement Tongue***

The adjustable hitch on the Bale King features a cast single tongue with hammer strap insert. This allows for use with tractors equipped with a hammer strap or with a single drawbar. It also allows the machine to move independently over rough terrain without bending the draw pin.



- Make sure that the drawbar is set to **16 inches** behind the PTO shaft for proper PTO length.
- Adjust the hitch height to match the drawbar height and allow the machine to sit level.
- DO NOT install the insert if using a tractor with a hammer strap as this will bend the hitch pin

**NOTE:** Make sure that the jack in on the outside stub for lifting, and the inside stub during transport. DO NOT lift the machine with the jack on the inside stub.

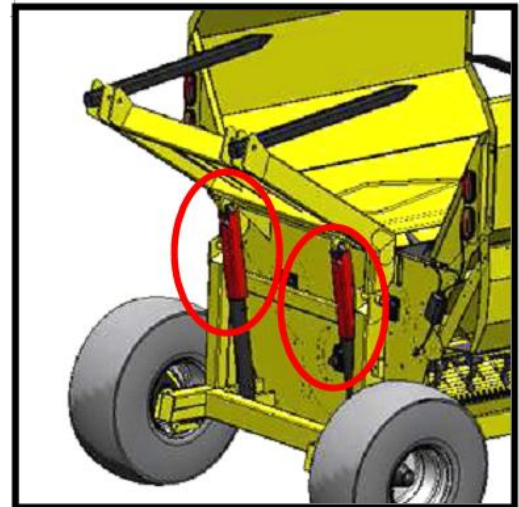
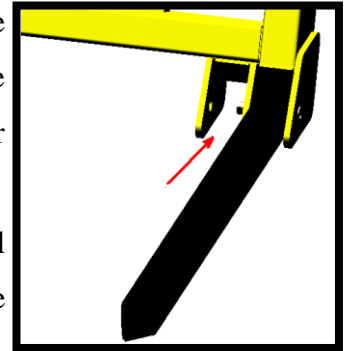




## **Rear Fork Tines**

The rear fork bale tines can be adjusted side to side by removing the pin connecting the tine to the machine and replacing the tine in the other available gap. Always use tines in the same position on either side to keep the stress on the forks and cylinders balanced.

For transport and safety when working under the forks, install the red safety locks onto the lift cylinder, and fasten in place using the supplied pin.





## **Hoop Grate Adjustment**

There are seven adjustment settings for the hoop grate on the bale processor. These settings determine the rate of feed of the bale you are processing and the how fine the cut will be. **Move the handle “UP” for a more aggressive cut.**

- **Position #1:** Highest grate setting for finest cut and slowest rate of feed. Used for tough processing feeds such as silage bales and some types of hay.
- **Position #2 - #6:** Normal operating range. Machine gets more aggressive as grate is lowered (handle moves “up”).
- **Position #7:** Lowest grate position, most aggressive fastest rate of feed.

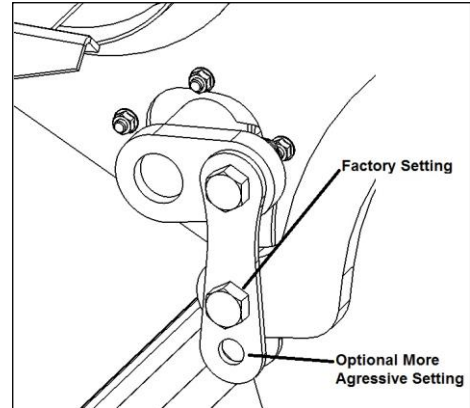
The Bale King should be adjusted according to bale conditions to achieve a rate of feed of approximately **1.5 to 2 minutes**. Light brittle material such as wheat straw may allow faster processing while tough stringy material such as slough hay, green feed, or flax will require slower processing. Hoop grate adjustment should be checked periodically.

**NOTE: Processing a bale too rapidly may cause unnecessary machine deterioration.**





For cases where a faster feed rate is desired, there is a second setting on the shackle connection between the hoop and handle (inside the front tub wall). To switch to a more aggressive setting, remove the bottom 3/4" bolt and nut, and reposition the bolt and bushing to the lower hole. Support the hoops externally to prevent injury.

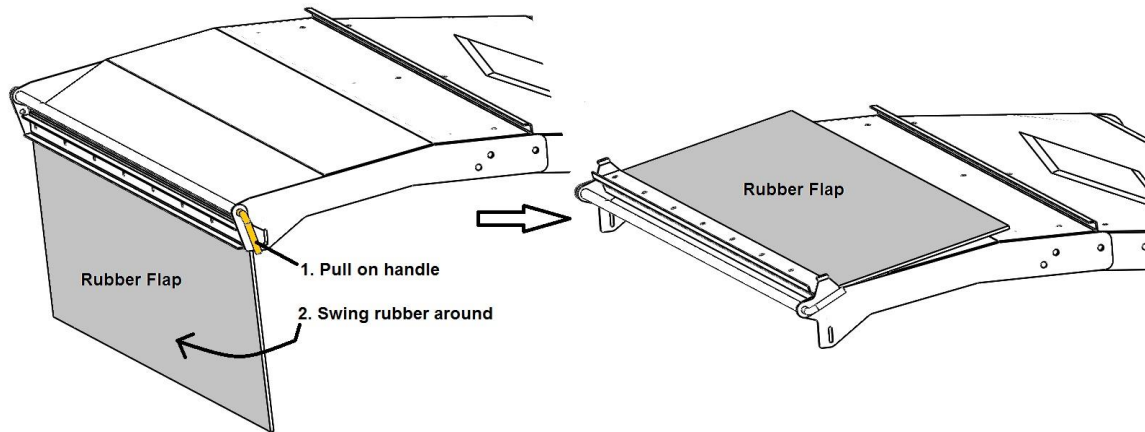


**NOTE:** *Upper grate position should be approximately 1/4" flail recession. Lower grate position should allow 1-1/2" flail protrusion. Contact your Bale King dealer if this can't be achieved.*



## **Deflector**

The Bale King 5225 is equipped with a hydraulic side deflector to change the discharge distance and distribution. It also comes with a flipping rubber flap for superior control of the spread pattern.



Moving the deflector to the **down** position and flipping the rubber down (above left) will allow the hay to be laid in a windrow, or bunk feeder. Swinging the deflector **up** will allow you to spread straw out over a large area. If you also flip the rubber up (above right), you will be able to "fine tune" the discharge, to control the height and distance.

To flip the rubber, simply pull on the handle and swing into position. Then push the handle so that the tabs catch in the notches and lock into place.

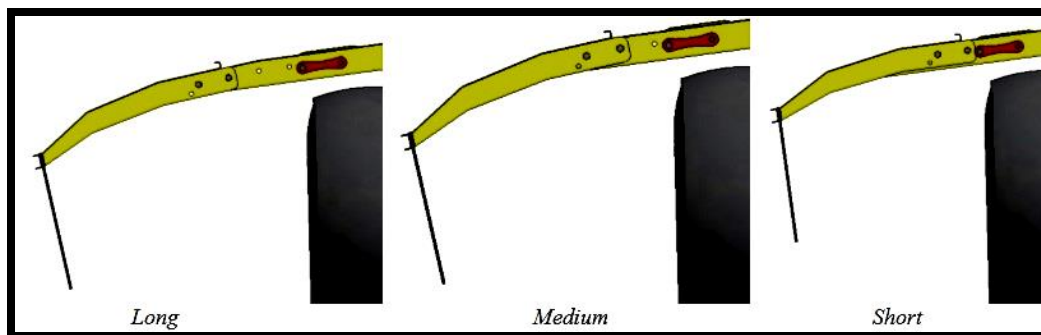


The Bale King 5225 deflector comes with the additional feature of adjustable width:

- First move the deflector to its lowest position.
- Remove the seven bolts (2 front, 3 top, 2 rear) connecting the inner and outer deflector pieces.
- Slide the outer deflector to the desired width and replace the bolts.

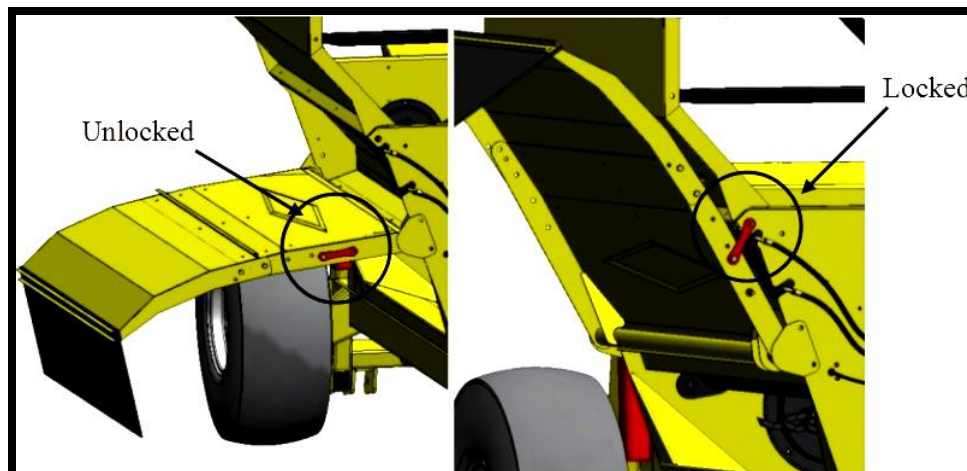
There are three different deflector length settings to accommodate your desired width:

	<b>Bunk Feeding Width (Distance from Tire)</b>	<b>Transport Width Total (RHS, LHS)</b>
Folded	N/A	8'-6" (4'-3", 4'-3")
Short	28 Inches	9'-4" (5'-1", 4'-3")
Medium	32 Inches	9'-8" (5'-5", 4'-3")
Long	35 Inches	9'-10" (5'-7", 4'-3")



**NOTE:** Use only the medium and short settings unless required due to tractor width.

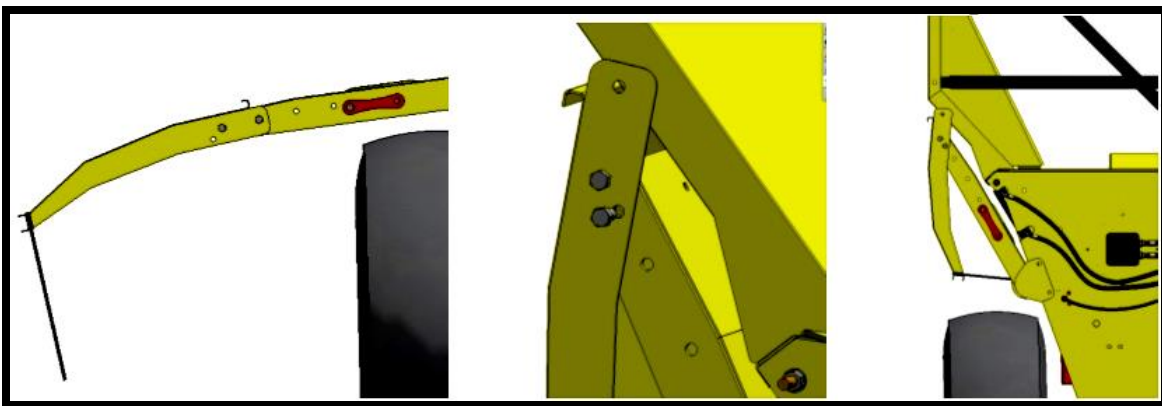
For transport and storage, the deflector lock should be put in place by swinging the lock as shown and fastening with a lynch pin.





The Bale King 5100 deflector also has the ability to fold for more compact long term storage or long distance transport.

- Move the deflector to its lowest position
- Remove the seven bolts (2 front, 3 top, 2 rear) connecting the inner deflector and outer deflector
- Move the outer deflector to the widest setting and replace the bolts on the front and back of the deflector as shown (do not tighten yet, do not replace top bolts)
- Raise the deflector to its highest position with the hydraulics. Remove the bolts closest to the machine center (both front and back) and swing the outer deflector down.



Be sure that the outer deflector fits nicely outside the tub walls. Some fine tuning may be required. Replace the bolts on the front and back in the available holes as shown. The deflector should now fit inside the width of the wings.



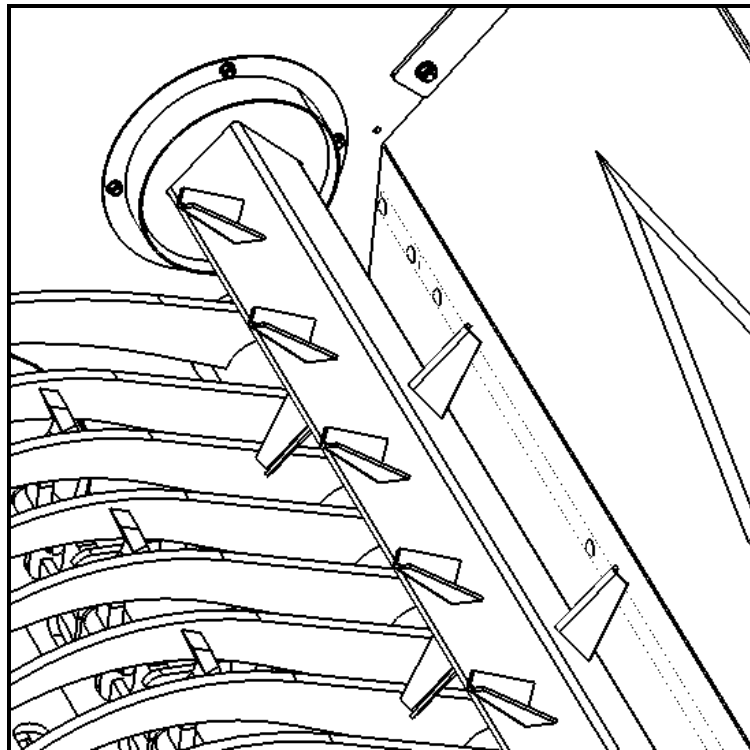


## **Agitators**

The Bale King is equipped with a flow divider/combiner and two hydraulic motors for turning the bale.

Once the main rotor is turning at full speed the bale can be turned in either direction to begin processing. The faster the bale is turned in either direction, the faster it will be processed. It may be necessary to change direction of the bale when loose debris builds on either side of the bale chamber. This will remove the loose debris preventing spillage from the machine. This is especially true when processing soft core bales. By reversing direction regularly, soft core bales will process more evenly.

If the tractor has a flow control, adjust the oil flow so that the agitators run at a low rate. Adjust the flow as needed to find the best speed to process a bale (approximately 30 rpm or 12 gpm flow). Turning bales too fast can result in rotor overloading resulting in flail “backslap” which in turn causes flail and bushing damage. High agitator speed may also cause damage to the hydraulic motors and excessive twine and material build-up on the agitators.





## Loading Bales



**When loading Bales into your Bale King bale processor, the following procedure should be followed:**

- Position the tractor and the Bale King so as to be lined up to back straight into the row of bales. Lowering the forks so they are just off the ground allows the operator to see through the top of the forks.
- When close to the bale, lower the forks completely (you will feel a light vibration as the forks bottom out against the frame.)
- Back completely under the first bale.
- Allow the tractor to move forward while lifting the bale, because the bale fork moves away from the machine while loading.
- If you are loading from the same row you can dump the bale into the machine and back straight into the second bale. If you are going to a different stack for the second bale only raise the first bale enough to clear the ground. Move to the next row and align the machine to the bale before dumping the bale into the tub. This gives you good visibility to line up to the second bale.
- Once you have the first bale in the tub and the second bale on the forks, raise the bale fork about 1/4 of the way up. You can now transport to your feeding or bedding area to begin processing.

**Note: Carry bales as low as possible to reduce stress on the cylinders. Carrying the bale too high may bend the hydraulic cylinder shafts, especially if the bales are unusually heavy.**

- When the first bale has been processed, it is common practice to leave the rotor running at full speed when loading the second bale into the bale chamber from the rear forks.



## **Grain Tank and Auger**

### **Overview**

The Bale King 5225 processor features a 100-bushel grain tank with a hydraulic lid opener. An auger at the bottom of the grain tank brings the grain from the grain tank, under the processor tub, and into a boot where a second discharge auger lifts the grain up and out of the spout.

### **Grain Tank**

The grain tank lid is opened by switching the in-cab control box switch to the “Lid” function and activating the hydraulic controls. If any considerable weight is on top of the lid, the lid should not be opened until the debris is cleared off. Any considerable loads on top of the lid, including snow, could result in a bent lid if the lid is forced open. This type of damage is not covered by warranty. The operator should also watch for any obstructions before opening the lid. Once the lid is open the operator can drive under the auger. While the tank is being filled the operator can move the tractor in forward or reverse to fill the tank evenly. Levelling off the grain helps maximize how much grain can be put in the tank.

A platform is placed on the side of the machine so the operator can view the tank level from outside. The ladder slides in and out from below the platform. The ladder should be slid into storage when driving. Care should be taken when getting on and off the platform. Use the provided handrail to prevent slips. Ensure the platform and ladder area are free of tripping or slipping hazards. Never enter the grain tank when it is full – grain entrapment is a potential hazard. Never enter the grain tank when the tractor is running, contact with running augers could cause loss of limbs or life.





## Tank and Auger Clean-outs

A tank cleanout is located at the rear underside of the grain tank and under the boot where the two augers meet (see pictures to the left). The cleanout doors can be removed by removing four ¼” bolts. The auger can then be ran for a short period to dump any grain out of the cleanouts. With the tractor off and the hydraulic lines disconnected, the operator can climb

inside the tank and sweep or shovel any grain down and out of the tank cleanout. The boot can be cleaned out by reaching inside and pulling out any grain. Compressed air could also help cleaning the boot as long as the operator observes all compressed air related hazards. It is a good idea to clean the tank and auger system out periodically or before long term storage.



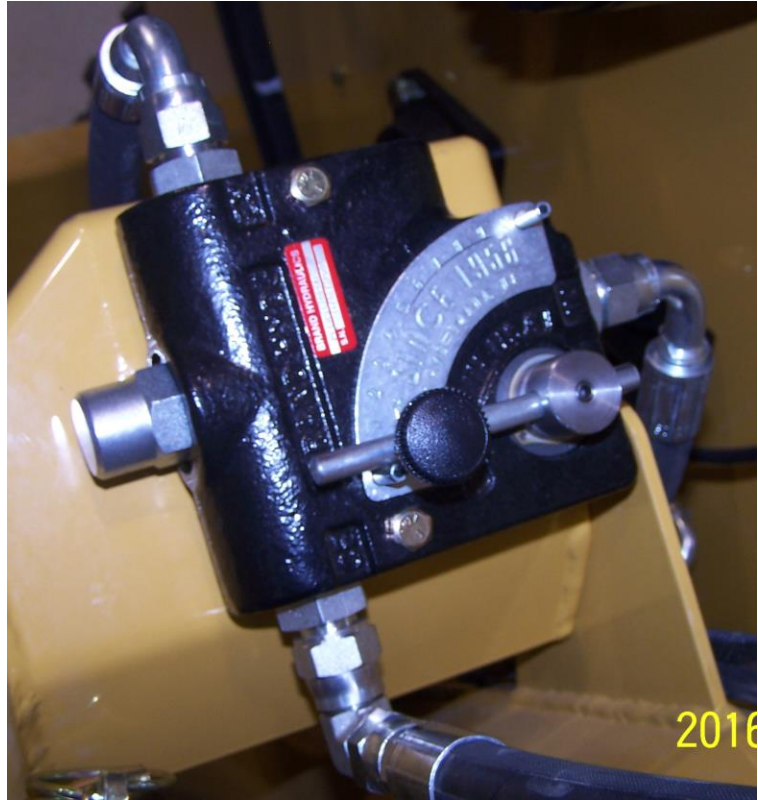
## Auger Operation

The augers are actuated by the hydraulic remote connected to the yellow banded hydraulic hoses. The auger hydraulics have a one-way check valve that only allow hydraulic flow in one direction so the auger only turns in one direction. If the augers do not move when the remote switch is moved, switch directions or switch the hoses on the tractor. The augers should be attached to a remote that is detented (locks into flow position).

The auger speed can be adjusted by adjusting the flow control valve which is located on the right fork upright arm at the rear of the machine. A setting of 0 will result in no auger movement, A setting of 10 will result in the fastest auger speed possible.



If the operator wishes to feed at a certain feed rate the auger speed can be adjusted to come reasonably close to the desired rate. The operator must first measure the discharge volume or weight per unit of time. This can be done by running the tractor at bale processing engine speed (1000 PTO RPM) and timing how long it takes to fill a small container or pail full of grain. The grain is then either weighed or measured for volume.



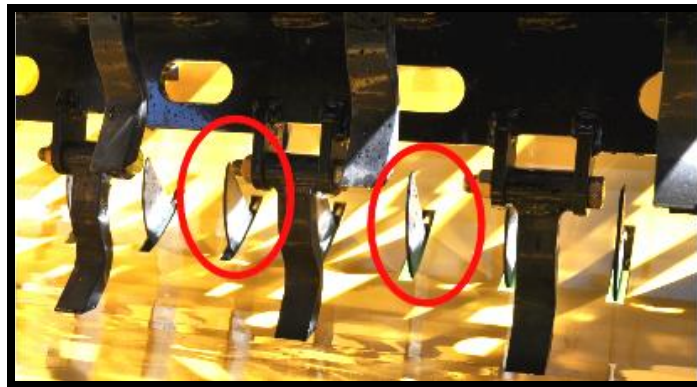




## ***Optional Fine Chop Kit***

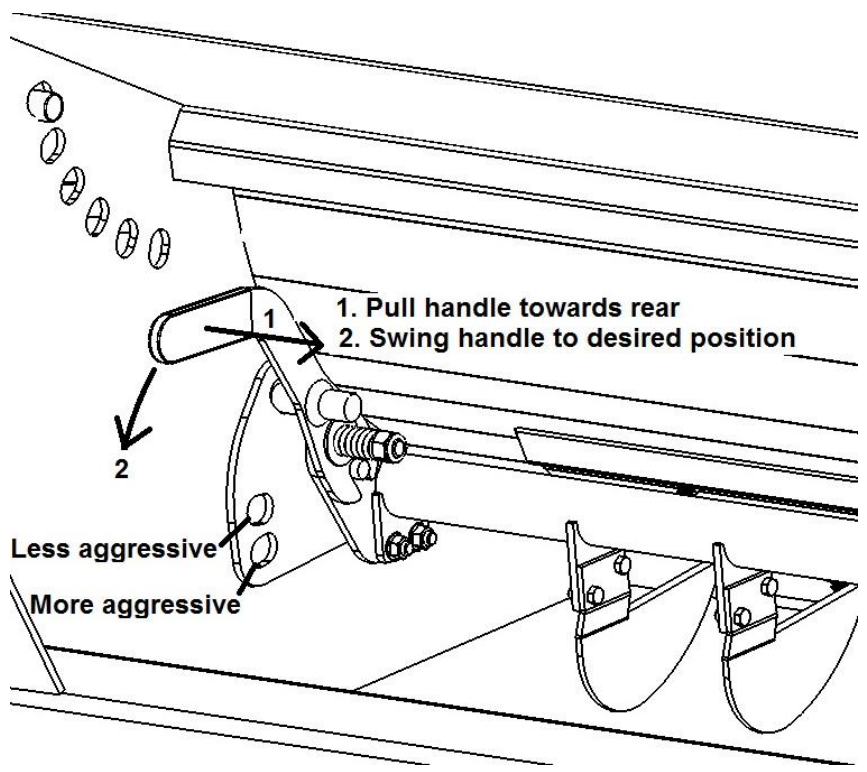
The Bale King 5225 processor has an optional fine chop knife kit (**BMI # 22139**) available to go into the lower tub area. This option is available if you require a finer cut on the material which you are processing such as slough hay and silage bales.

It is recommended that the knives be lowered when bedding straw as it will affect your spread pattern. Adjust the machine as needed.



There are two settings for the fine chop, depending on how fine you wish to cut the material. These settings achieved by pulling on the handle (towards the back of the machine), then selecting the desired hole.







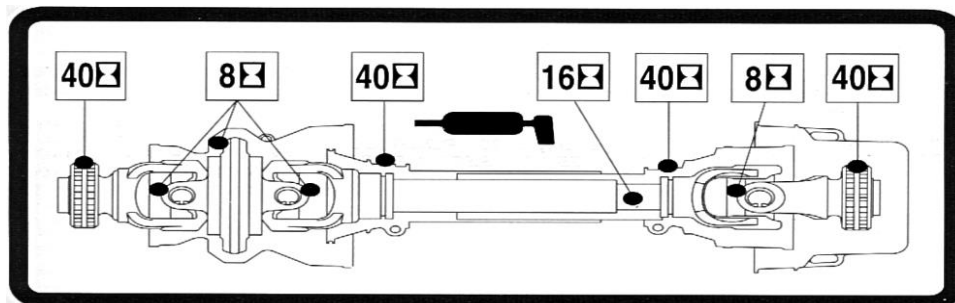
## Lubrication and Maintenance

Lubricating the Bale King bale processor should be done on a regular basis.

	Location	Timeline
A	Hoop Handle	150 Bales or 8 hours whichever comes first
B	Agitator Bearings (x 2)	
C	Rotor Bearing	
D	Bale Fork Pivot (x 2)	
E	Front Driveshaft Bearing	
F	Wheel Hubs (x 2)	Seasonally (or 300 hours)

## PTO

Frequent lubrication is required. Grease the driveline parts as required on the chart.



## Driveshaft

The driveshaft running between the gearbox and PTO has one universal joint located between the gearbox and back grain tank wall. Access can be gained by opening the PTO guard. This joint should be greased **every 8 hours**.

**After storage** for long periods of time, lubricate and check the function of every driveline component before operating.

Failure to grease all the joints will **VOID** warranty.



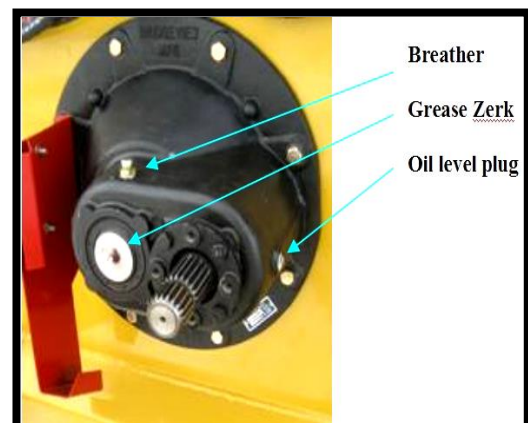
## Gearbox

There is one grease zerk on the front of the gear box. Apply 3-5 pumps of good quality grease every 8 hours or 150 bales, whichever comes first.

If the gearbox is removed to replace the rotor or perform any other service, add **80 pumps** of grease to the grease zerk upon reinstallation.

The gear box requires GL5 80W90 gear oil. The oil should be filled to the level plug (approximately 500 mL) and checked on a regular basis. The oil should also be changed at the following intervals:

- 25 hours after first use
- 50 hours after first use
- Every 300 hours or annually (which ever comes first)





## ***Tire Inflation and Rating***

Wheel bearings should be inspected annually for adjustment and lubricated annually. Inspect more often for extensive traveling.

- To tighten the wheel bearings, lift up each wheel (one at a time) until the wheel spins freely.
- Remove dust cap and the cotter pin which retains the castle nut.
- Tighten the nut until the wheel will rotate approximately two turns when given a firm spin.
- Align castle nut to closest hole and insert the cotter pin.
- Pack hub full of grease and reinstall the dust cap.

Proper tire inflation will help to alleviate puncture problems when towing and operating on rough terrain.

Check for proper tire inflation	<b>70 psi</b>
Replace any damaged or worn tires	<b>12-16.5 12 Ply</b>
Check and tighten wheel bolts on a regular basis	<b>125 ft.lb</b>

***Note: When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly.***



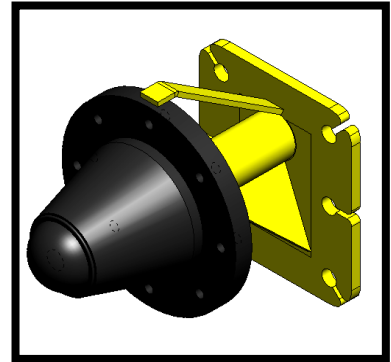
Note: Warranty does not cover damaged rims and hubs due to loose wheel bolts or flat tires. Tire warranty is covered by the tire manufacturer.



## Twine Removal

Twine guards are installed on the machine to keep bale twines out of important areas such as bearings.

- The wheel hubs have a twine guard to keep anything from getting tangled in the wheel bearing. Check for and remove any twine which may have wrapped around the spindle.
- The main rotor and the agitators are equipped with removable twine guards. The guards are mounted to the front and rear walls of the machine. The twine guards are bolted and need to be removed if you need to remove or tighten the bolts on the bearings or the hydraulic motors.
- Remove any twine which may have wrapped around the agitators.



**WARNING:** Before attempting the removal of twine from the rotor, be sure that the machine is stopped and the tractor is shut **OFF**. Place the tractor in park. Twines can be removed with the use of the supplied knife, or any other knife.



An electric device is also available from suppliers to melt the twine & allow it to be pulled off. Once melted, the twine should be removed immediately to prevent damage to the rotor. It is **NOT PERMITTED** to leave the twine burning on the rotor as this has several adverse effects:

- It may take the temper out of the steel, rendering it weaker.
- Loose straw and hay remaining in the machine may ignite causing a fire in the processor.
- Excessive buildup of melted plastic.
- Dry out bushings causing them to wear prematurely.

**NOTE:** *Bridgeview Manufacturing Inc. VOIDS warranty for any damage caused by twine burning in the processor.*

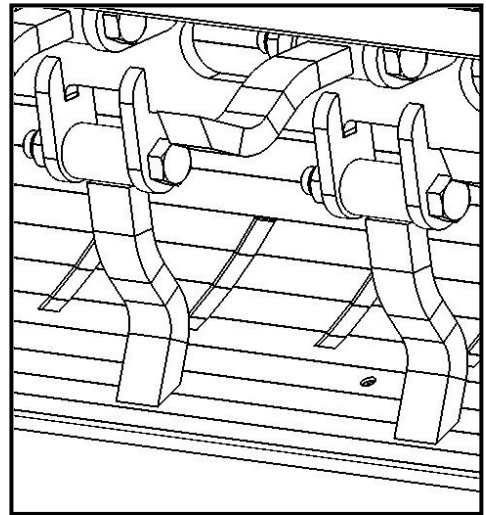


## ***Rotor and Flail Replacement***

When reinstalling the rotor, follow the removal procedure in reverse. Once the rotor is in place, install the bearing with the grease zerk facing the **discharge side**, and the gearbox with the **breather UP**. Apply **Loc-Tite** to the bearing bolts and torque to **110 ft-lb**. Center the rotor side to side and check flail clearance on the hoop grates. and ensure that there is **1/2" to 5/8"** clearance between the flails and bottom of the tub. Tighten the bearing lock collar in the **direction of rotation**. Check that the gearbox oil level is up to the bottom of the side plug, and add 80 pumps of grease to the gearbox zerk.

Flail replacement is accomplished by removing the 3/4"x 4-3/4" bolt holding the flail to the rotor. The flail is then lifted away from the rotor. The bushing can now be removed by using slight pressure to push it out of the flail. Inspect the bolt, bushing, and the flail for wear. If wear is excessive, replace with new parts.

Bridgeview Manufacturing Inc. recommends when changing flails to change in **PAIRS** (opposite each other). Processing bales with broken flails causes the rotor to be out of balance and excessive vibration may cause machine deterioration.







## ***Transportation***

The Bale King 5225 can be safely towed on public roads, provided the following precautions are met:

- Tow vehicle and hitch must be rated at least 5300 lb gross, and 1600 lb tongue.
- NEVER exceed 32 km/h (20 mph).
- ALWAYS ensure that the safety chain is properly installed
- Tow vehicle must have a 7 pin round trailer plug (or adaptor)
- Plug in lights and check for proper function (flashing amber lights, red tail lights)
- Ensure that the supplied SMV (Slow Moving Vehicle) sign is clearly visible from the rear
- Lift the forks all the way up and install the safety locks
- If possible, the deflector should be in the folded position
- Ensure that the deflector safety lock is installed
- Ensure that the PTO and hydraulic hoses are properly secured

*NOTE: With the deflector folded and no grain tank, the overall width of the processor is 8'-6".*



*Check with local authorities regarding transport on public roads. Follow all applicable laws and regulations.*



## Trouble-shooting Guide

Problem	Possible Cause	Remedy
<b>Excessive main shear bolt breakage</b>	Engaging PTO at high engine speed or too quickly	<ul style="list-style-type: none"> <li>• Idle tractor to engage PTO then bring up to full operating speed</li> <li>• Feather PTO lever into position</li> </ul>
	Excessive twine wrapped on rotor causing flail movement to be restricted	<ul style="list-style-type: none"> <li>• Cut twine off rotor</li> </ul>
	Broken flails causing rotor to be out of balance	<ul style="list-style-type: none"> <li>• Replace broken flails (in pairs opposite each other)</li> </ul>
	Overloading rotor	<ul style="list-style-type: none"> <li>• Set hoops to less aggressive position</li> <li>• Slow rotation of bale</li> <li>• Change direction of bale rotation</li> </ul>
	Incorrect shear bolt used	<ul style="list-style-type: none"> <li>• Use correct shear bolt</li> </ul>
	Operating machine at less than 1000 PTO RPM	<ul style="list-style-type: none"> <li>• Operate machine at rated 1000 PTO RPM</li> </ul>
<b>Excessive vibration while processing bales</b>	Excessive twine wrapped on rotor causing flail movement to be restricted	<ul style="list-style-type: none"> <li>• Cut twine off rotor</li> </ul>
	Broken flails causing rotor to be out of balance	<ul style="list-style-type: none"> <li>• Replace broken flails (in pairs opposite each other)</li> </ul>
	Overloading rotor	<ul style="list-style-type: none"> <li>• Set hoops to less aggressive position</li> <li>• Slow rotation of bale</li> <li>• Change direction of bale rotation</li> </ul>
	Operating machine at less than 1000 PTO RPM	<ul style="list-style-type: none"> <li>• Operate machine at rated 1000 PTO RPM</li> </ul>
	Rotor bearing failure	<ul style="list-style-type: none"> <li>• Replace failed parts</li> </ul>
<b>Agitators stopping</b>	Excessive loose material in tub causing agitator to jam	<ul style="list-style-type: none"> <li>• Reverse direction of bale rotation</li> <li>• Turn bale more slowly</li> </ul>
	Tractor relief pressure set too low	<ul style="list-style-type: none"> <li>• Set tractor relief pressure to at least 2500 PSI</li> </ul>
<b>A single agitator stopping</b>	Mechanical flow divider valve not functioning correctly	<ul style="list-style-type: none"> <li>• Contact your dealer for repairs</li> </ul>
	Coupler between motor and agitator broken	<ul style="list-style-type: none"> <li>• Replace failed parts</li> </ul>
<b>No grain flow</b>	Flow control valve set too low	<ul style="list-style-type: none"> <li>• Increase flow rate in tractor or on flow control valve</li> </ul>

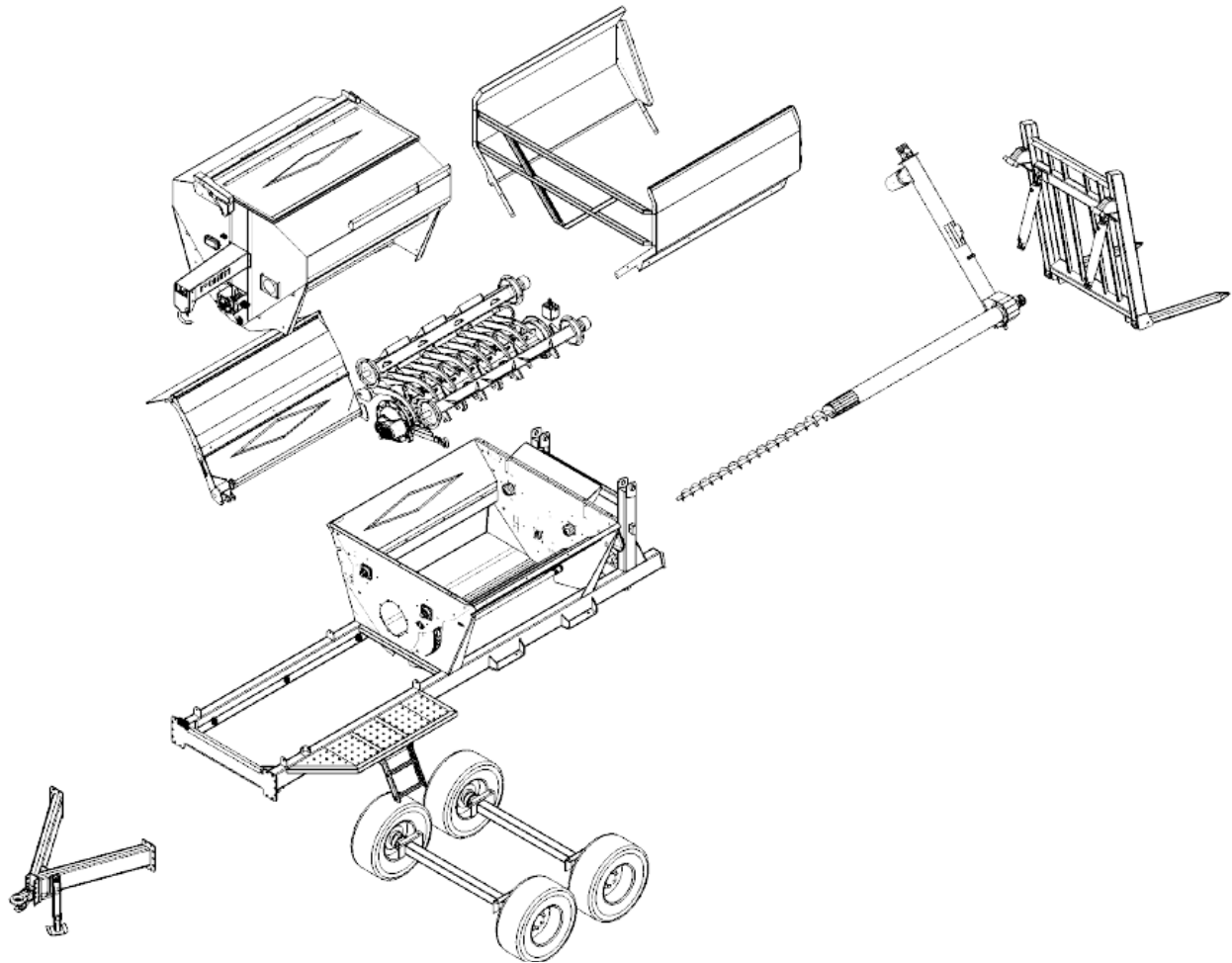


## FEATURES AND SPECIFICATIONS

<b>Dimensions:</b>	<b>Bale King 5225</b>
Overall Weight	7250 lb
Drawbar Weight	1250 lb
Overall Height	112 in.
Overall Length (Forks Up)	351 in.
Overall Length (Forks Down)	320 in.
Overall Width (Deflector Folded)	112 in.
Overall Width (Deflector Up)	112 in.
Overall Width (Deflector Down)	135 in.
Tread Width (on centers)	93 in.
Grain Tank Capacity	100 bushels
Grain Tank Opening	33 x 33 in.
Grain Tank Height	83 in.
Tub Opening	80 x 91 in.
Rotor Extended Tip Diameter	27 in.
Discharge Opening	12 x 80 in.
Heavy Duty Reinforced Frame and Axle Assembly:	
Main Frame	4 x 8 in. Tubing
Frame Width	52 in.
Heavy Duty Square Jack	Mounted on Frame
Heavy Duty Bale Fork Frame	4 x 8 in. Tubing
Adjustable Bale Fork Width (on centers)	48 in. or 40.5 in.
Adjustable Hitch Height	3 settings at 2.25 in. intervals
Spring Lock Lever on Grate and Fine Chop Adjusters	
Dual Hydraulic Lift Cylinders	3" x 20" x 1-1/2"
Single Hydraulic Deflector Cylinder	1-1/2" x 6" x 3/4"
Single Hydraulic Lid Cylinder	1-1/2" x 6" x 3/4"
Tire Size	12-16.5 12 Ply
Tire Inflation	70 psi
Wheel Nut Torque	125 ft-lb
Minimum Horse Power Requirements	100 HP
Required Number of Hydraulic Remotes	3
Rated PTO RPM	1000 RPM
Flail Tip Speed at 1000 RPM	7000 FPM
Number of Flails	28
Flail Size	3/4 x 1-1/2 x 7 in.
Flail Bushing	Oil Impregnated Bushing Brass
Rotor Shaft	1-15/16" Bearing
Agitator Shaft	1-3/4" Bearings
PTO Shaft	Weasler: Cat. 6 80 deg. C.V.
Shear Bolt	3/8 x 2" Fine Thread Gr. 5
Gearbox Oil	GL5 80W90
Gearbox Oil Capacity	500 mL



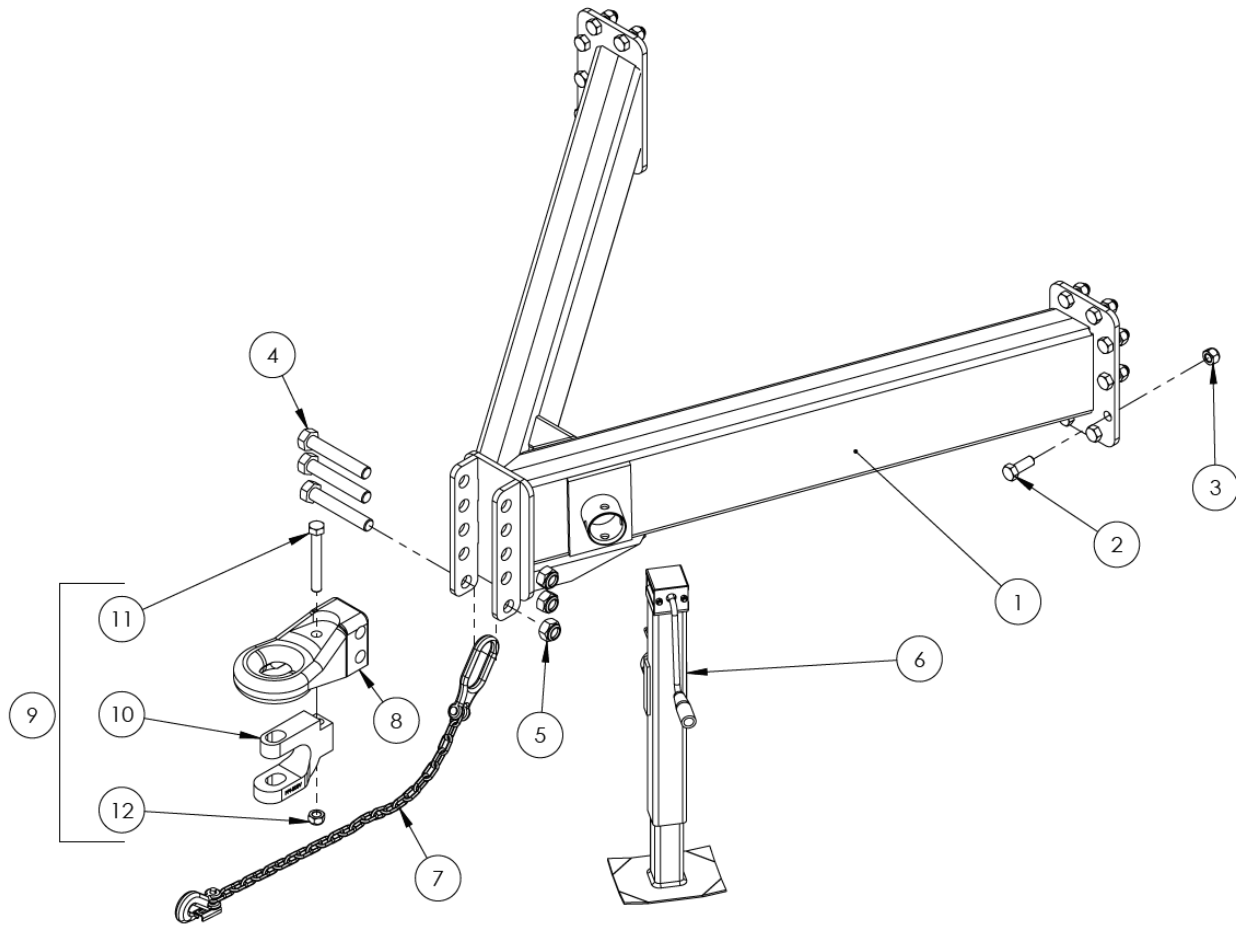
## PARTS MANUAL



Item #	Description	Item #	Description
1	Hitch	6	Main Frame
2	Axles & Wheels	7	Back Fork
3	Inner Tub Component & Drive	8	Grain Tank
4	Upper Tub Component	9	Auger System
5	Deflector	10	Option



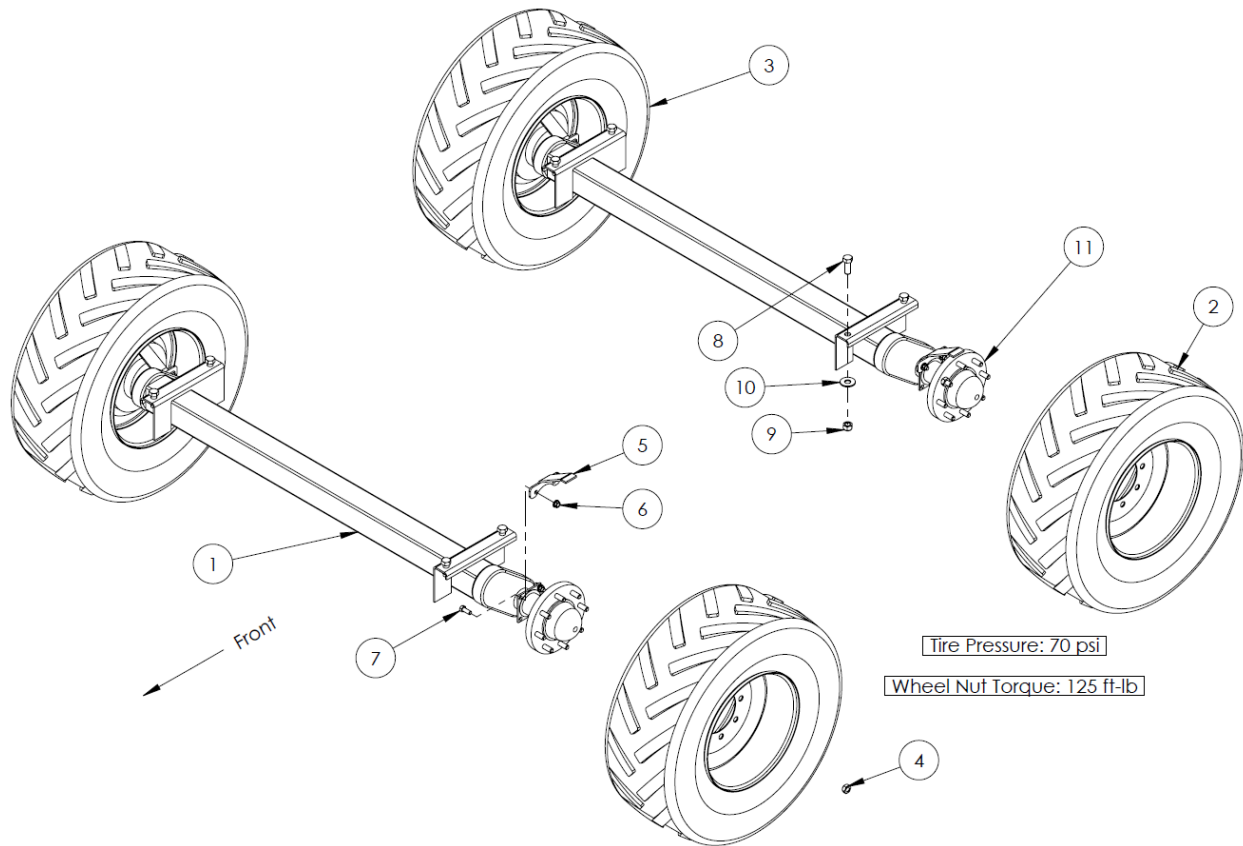
## Hitch



#	DESCRIPTION	PART #	QTY
1	Hitch Frame	30365	1
2	Bolt, 3/4" x 2"	13800	14
3	Nut, 3/4" Stover Lock	11823	14
4	Bolt, 1" x 6"	21728	3
5	Nut, 1" Stover Lock	21746	3
6	Jack, Top Wind	23677	1
7	Safety Chain	23559	1
8	Cast Tongue	23404	1
9	Optional Clevis Kit *Includes 10,11,12*	25540	1
10	Clevis Tongue	22441	1
11	Bolt, 3/4 x 5-1/2"	26406	1
12	Nut, 3/4" Stover Lock	11823	1



## Axles & Wheels

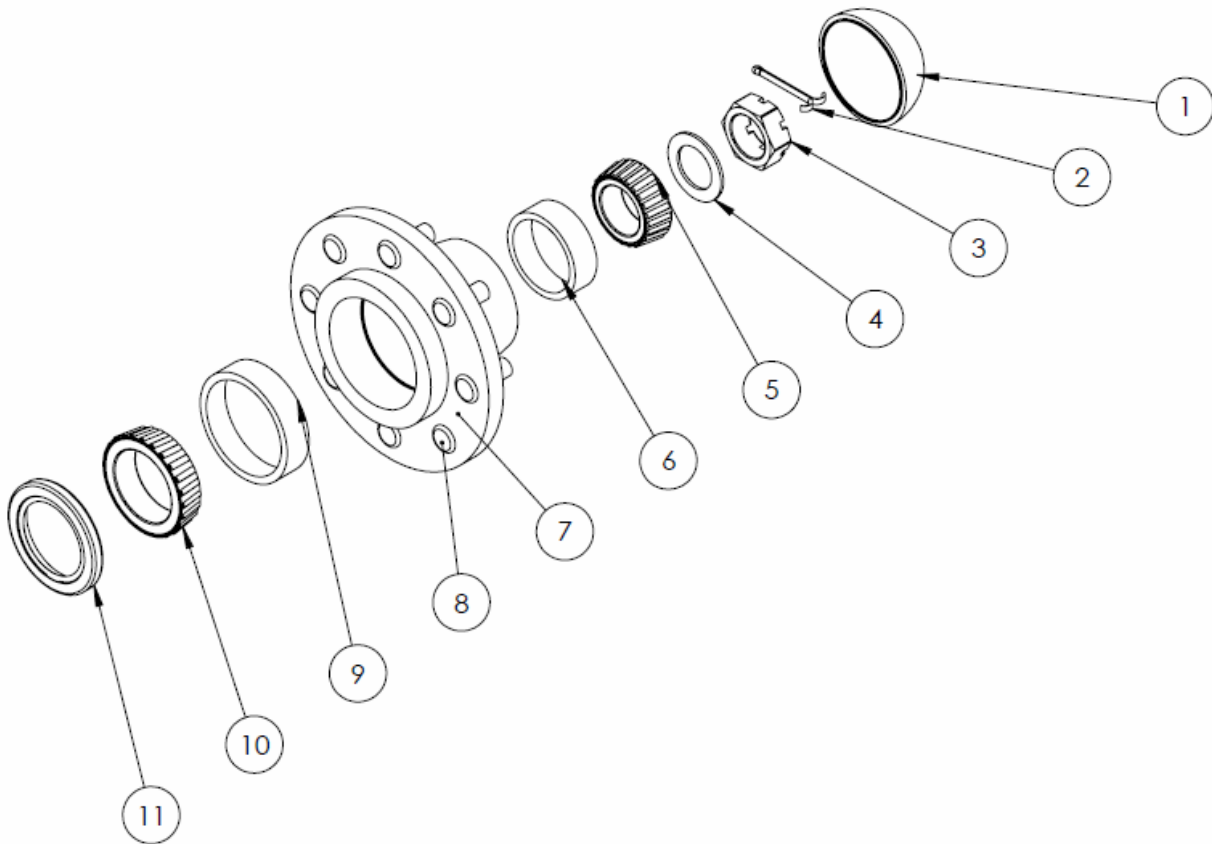


#	DESCRIPTION	PART #	QTY
1	Torflex Axle	27411	2
2	12-16.5 NHS Tire and Wheel Assembly - Left	27432	2
3	12-16.5 NHS Tire and Wheel Assembly - Right	27431	2
4	5/8" Lug Nut	23183	32
5	Twine Guard	23414	4
6	Nut, 1/2" Serrated Flange	10273	8
7	Bolt, 1/2" x 1-1/4"	10240	8
8	Bolt, 3/4" x 2"	13800	8
9	Nut, 3/4" Stover Lock	11823	8
10	Flat Washer, 3/4"	13717	8
11	Hub Assembly	See breakdown	4





## Hub Assembly

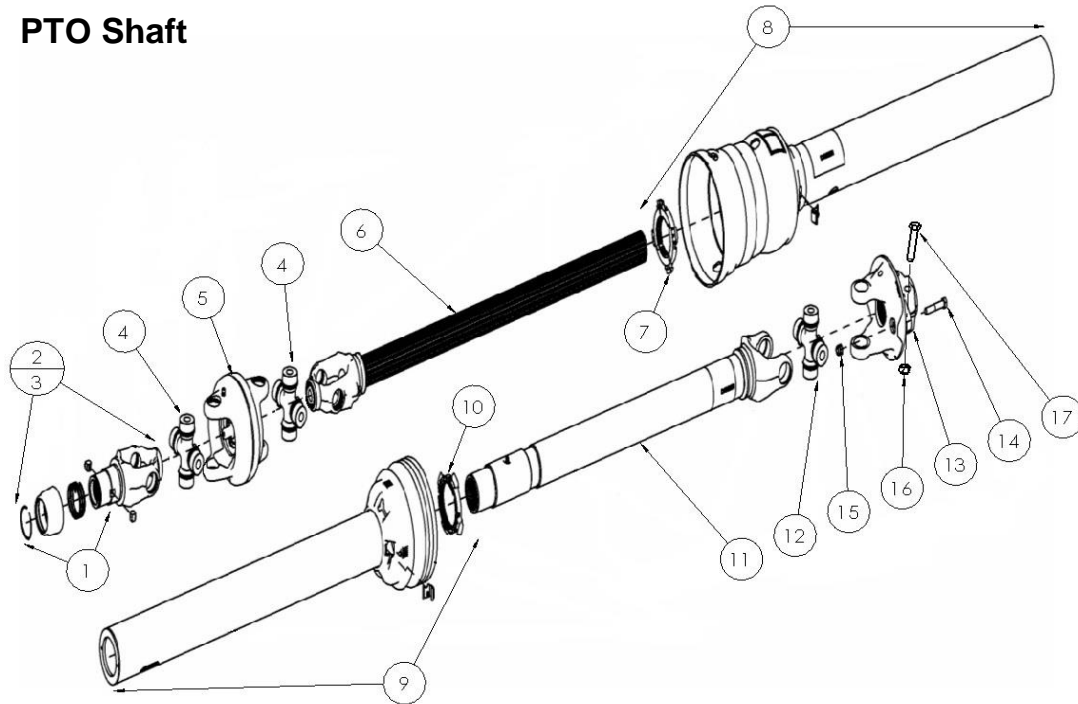


#	DESCRIPTION	PART #	QTY
1	Dust Cap	23563	1
2	Cotter Pin, 1/4"	23565	1
3	Castle Nut, 1-3/4"	23566	1
4	Washer	23564	1
5	Outer Bearing	23568	1
6	Outer Bearing Race	23570	1
7	Hub	23572	1
8	Wheel Studs, 5/8"	23573	8
9	Inner Bearing Race	23571	1
10	Inner Bearing	23567	1
11	Seal	23569	1



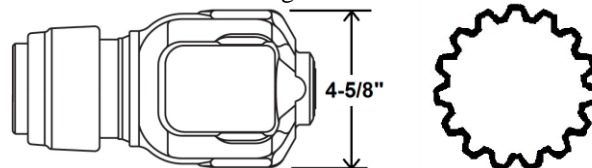
## Inner tub component

### PTO Shaft



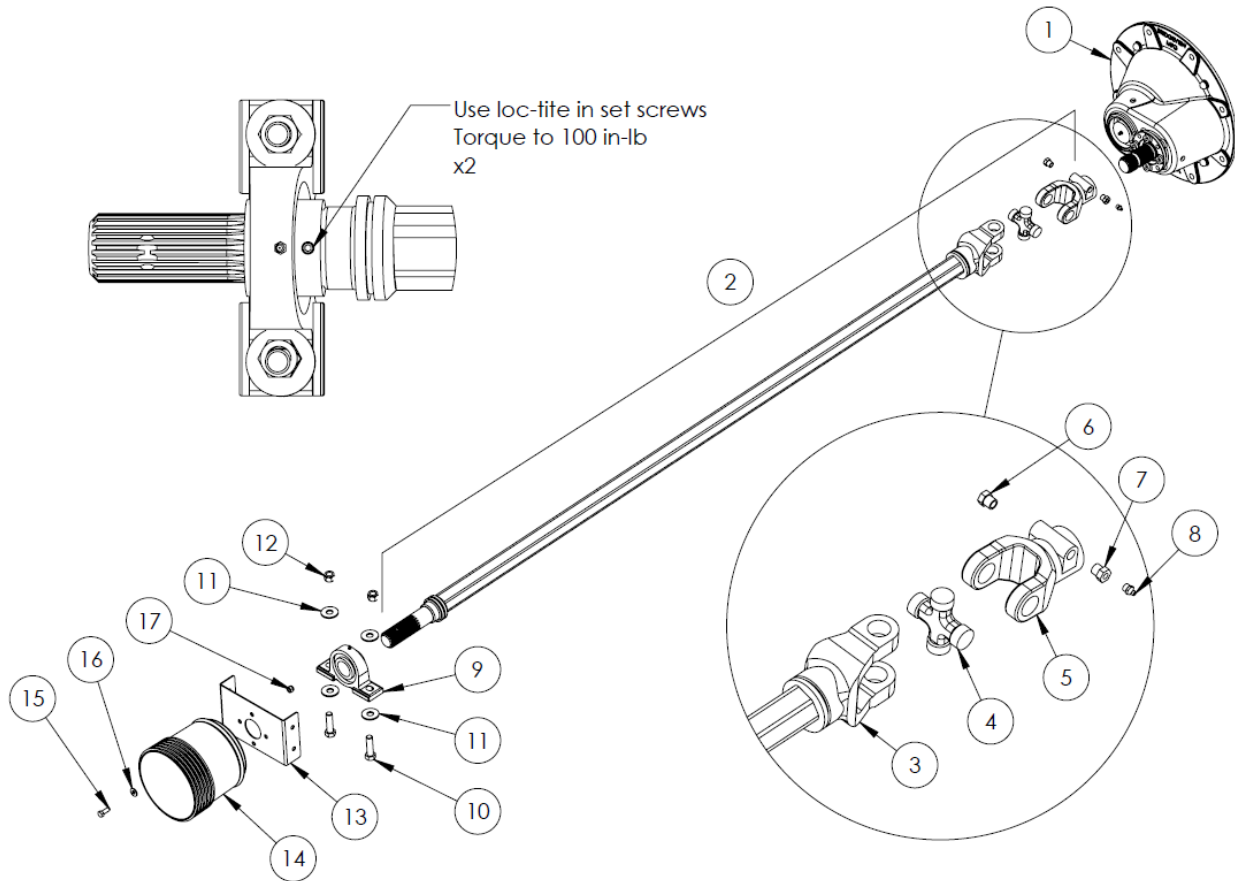
#	DESCRIPTION	PART #	QTY
	Complete PTO Shaft Assembly (1-3/8")	20546	1
1a	Safety Slide Lock Repair Kit (1-3/8"-21 Spline)	17567	(1)
1b	Safety Slide Lock Repair Kit (1-3/4"-20 Spline)	24981	(1)
2	WWCV Auto-Lok Yoke Assembly (1-3/8"-21 Spline)	20549	(1)
3	WWCV Auto-Lok Yoke Assembly (1-3/4"-20 Spline)	20556	(1)
4	CV Cross and Bearing Kit (Equal Length)	20550	2
5	CV Center Housing	20551	1
6	Yoke & Shaft Assembly Tractor Side	20552	1
7	Guard Repair Kit Tractor Side	20553	1
8	Guard Assembly Tractor Side	17583	1
9	Guard Assembly Implement Side	17585	1
10	Guard Repair Kit Implement Side	17572	1
11	Yoke & Tube Assembly Implement Side	17584	1
12	U-joint Cross & Bearing Kit	17573	1
13	Shear Assembly * Does not come with bolts 14 or 16 *	17581	1
14	Shear Bolt, 3/8" x 2" Fine Thread	33285	1
15	Nut, 3/8" Fine Thread Stover Lock	33286	1
16	Nut, 5/8" Stover Lock	24982	2
17	Bolt, 5/8" x 3-1/2"	24983	2

**NOTE:** Ensure that the PTO shaft on the machine is correct to the drawings below. Equal length CV cross (4.19") with bearing cup diameter 1.38". If the damaged PTO has different dimensions, consult the Bridgeview Manufacturing website.





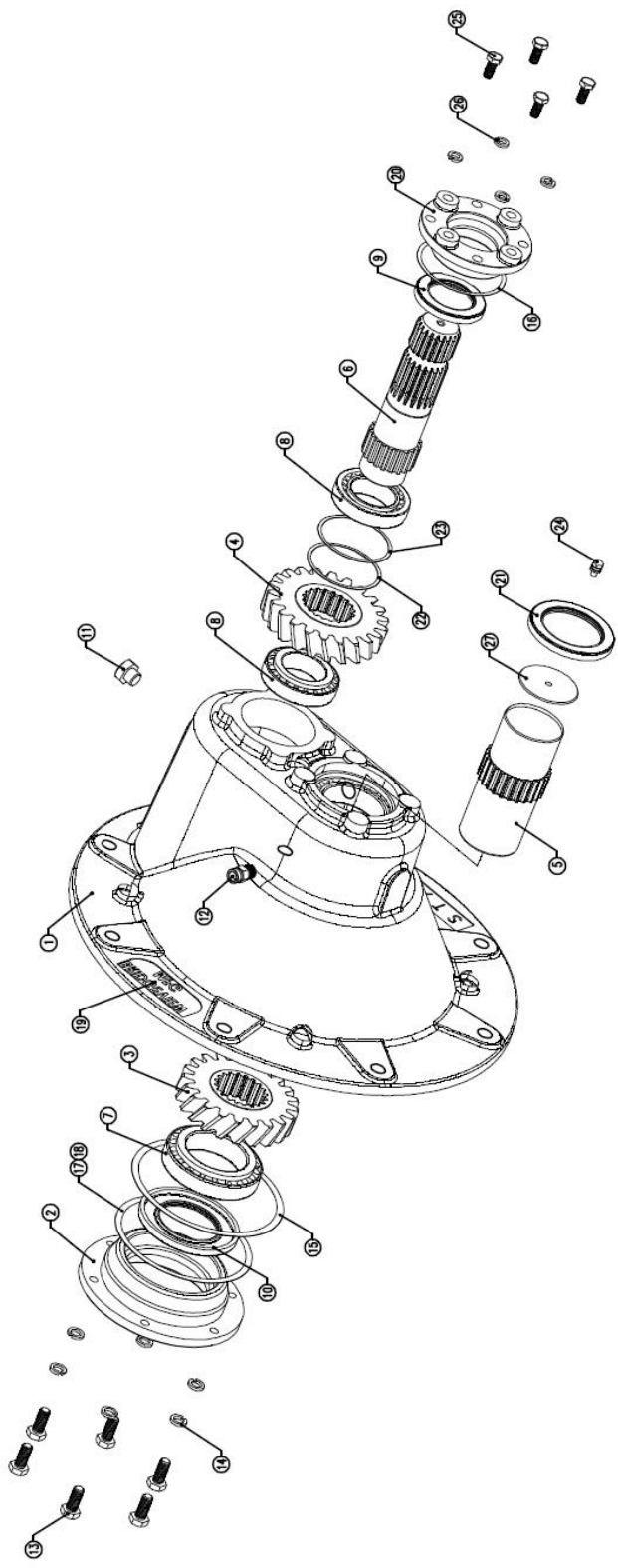
## Drive Shaft



#	DESCRIPTION	PART #	QTY
1	Complete Gearbox Assembly	See breakdown	1
2	Complete PTO Assembly (includes 3-8)	30437	1
3	Shaft, 20 Series	10126	1
4	Cross, 20 Series	10127	1
5	Yoke, 20 Series	24696	1
6	Brass Plug	30439	1
7	Brass Bushing	30440	1
8	Grease Zerk	10270	1
9	1-3/4" Pillow Block Bearing	30355	1
10	Bolt, 5/8" x 2-1/4"	20910	2
11	Washer, 5/8" Flat	13975	2
12	Nut, 5/8" Nylon Lock	10364	2
13	PTO Guard Bracket	30377	1
14	PTO Shield & Mount	32679	1
15	Bolt, 3/8" x 1"	13806	4
16	Washer, 3/8" Flat	11667	4
17	Nut, 3/8" Nylon Lock	10806	4



# Gearbox





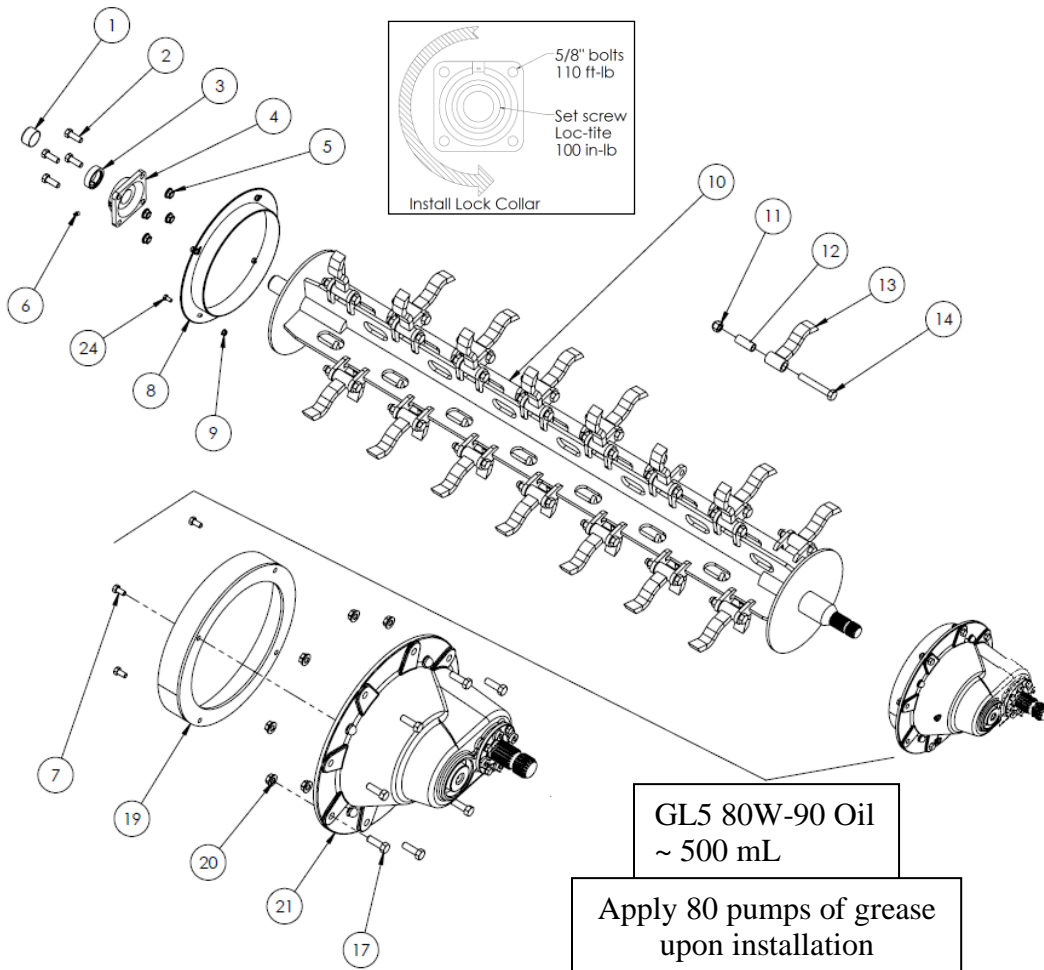
## Gearbox

#	DESCRIPTION	PART #	QTY
	Complete Gearbox Assembly	22158	1
<b>1</b>	Housing	-	1
<b>2</b>	End Cap	-	1
<b>3</b>	Output Gear	-	1
<b>4</b>	Input Gear	-	1
<b>5</b>	Output Shaft	-	1
<b>6</b>	Input Shaft	-	1
<b>7</b>	Bearing (32012) 60mm	10496	2
<b>8</b>	Bearing (32009) 45mm	10497	2
<b>9</b>	Seal, 45 x 60 x 8	24013	1
<b>10</b>	Seal, 60 x 100 x 10	10498	1
<b>11</b>	Pipe Plug, 3/8" NPT	24014	2
<b>12</b>	Relief Plug, 3/8" NPT	24015	1
<b>13</b>	Bolt, M8 x 25 Gr. 8.8	24026	6
<b>14</b>	Lock Washer, M8	24016	6
<b>15</b>	O-Ring	24017	1
<b>16</b>	O-Ring	24018	1
<b>17</b>	Shim, 125 x 164 x 0.1	24022	2
<b>18</b>	Shim, 125 x 164 x 0.3	24023	2
<b>19</b>	Name Plate (Bridgeview)	-	1
<b>20</b>	End Cap	-	1
<b>21</b>	Seal, 60 x 85 x 10	10500	1
<b>22</b>	Shim, 68 x 74.5 x 0.1	24024	2
<b>23</b>	Shim, 68 x 74.5 x 0.3	24025	2
<b>24</b>	Grease Zerk, 1/4"-28 Straight	12080	1
<b>25</b>	Bolt, M10 x 25	15087	4
<b>26</b>	Lock Washer, M10	24021	4
<b>27</b>	Press Cup	24446	1

**NOTE:** Items with no part number are not sold separately. A complete gearbox is required.



## Rotor



GL5 80W-90 Oil  
~ 500 mL

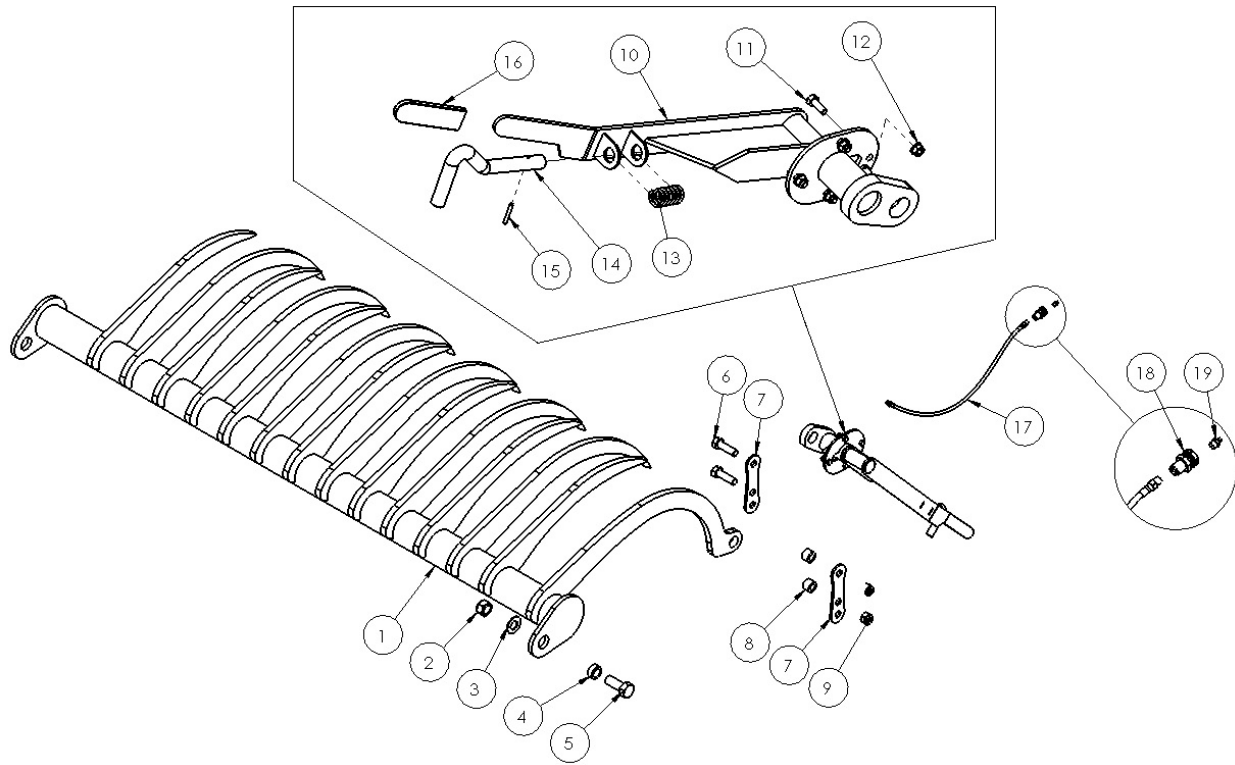
Apply 80 pumps of grease  
upon installation

#	DESCRIPTION	PART #	QTY
1	Rotor Shaft Cap	17380	1
2	Bolt, 5/8" x 1-3/4" NF Gr. 8	10274	4
3	Lock Collar	10268	1
4	Rotor Bearing * Includes # 3 & 6 *	10221	1
5	Nut, 5/8" NF Serrated Flange Gr. 8	15398	4
6	Grease Zerk, 1/8" NPT Straight	10270	1
7	Bolt, 3/8" x 3/4"	11816	4
8	Rotor Twine Guard, Rear	22413	1
9	Nut, 3/8" Serrated Flange	10271	4
10	X-Rotor Weldment	22449	1
11	Nut, 3/4" Stover Lock	11823	28
12	Brass Flail Bushing	10005	28
13	Rotor Flail	22412	28
14	Bolt, 3/4" x 4-3/4"	10443	28
17	Bolt, 1/2" x 1-1/2"	10174	8
19	Gearbox Twine Guard	23002	1
20	Nut, 1/2" Stover Lock	20154	8
21	Gearbox Assembly * See Breakdown *	-	1
24	Bolt, 3/8 x 1"	13806	4





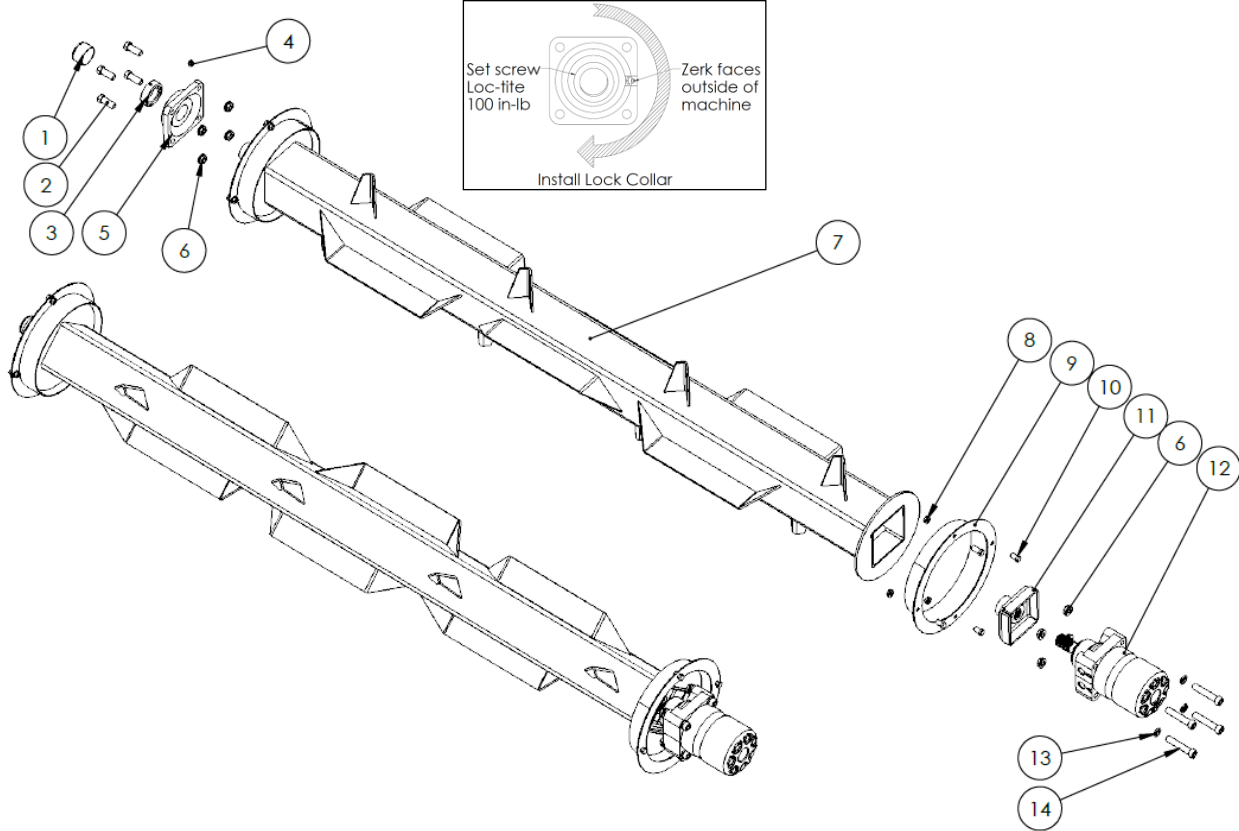
## Grates



#	DESCRIPTION	PART #	QTY
1	Grate Assembly	29944	1
2	Nut, 1" Stover Lock	21746	2
3	Flat Washer, 1"	14472	2
4	Grate Pivot Bushing	22417	2
5	Bolt, 1" x 2-1/2"	21820	2
6	Bolt, 3/4" x 2-1/2"	14470	2
7	Grate Shackle	22416	2
8	Grate Shackle Bushing	22415	2
9	Nut, 3/4" Nylon Lock	10007	2
10	Grate Adjust Handle	30374	1
11	Bolt, 3/8" x 1"	13806	4
12	Nut, 3/8" Serrated Flange	10271	4
13	Grate Handle Spring	19471	1
14	S-Handle	22187	1
15	Roll Pin, 3/16" x 1-1/4"	10302	1
16	Rubber Cover	10297	1
17	Grease Zerk Extension Hose	16829	1
18	Grease Zerk Bulkhead Fitting	16830	1
19	Grease Zerk	10270	1



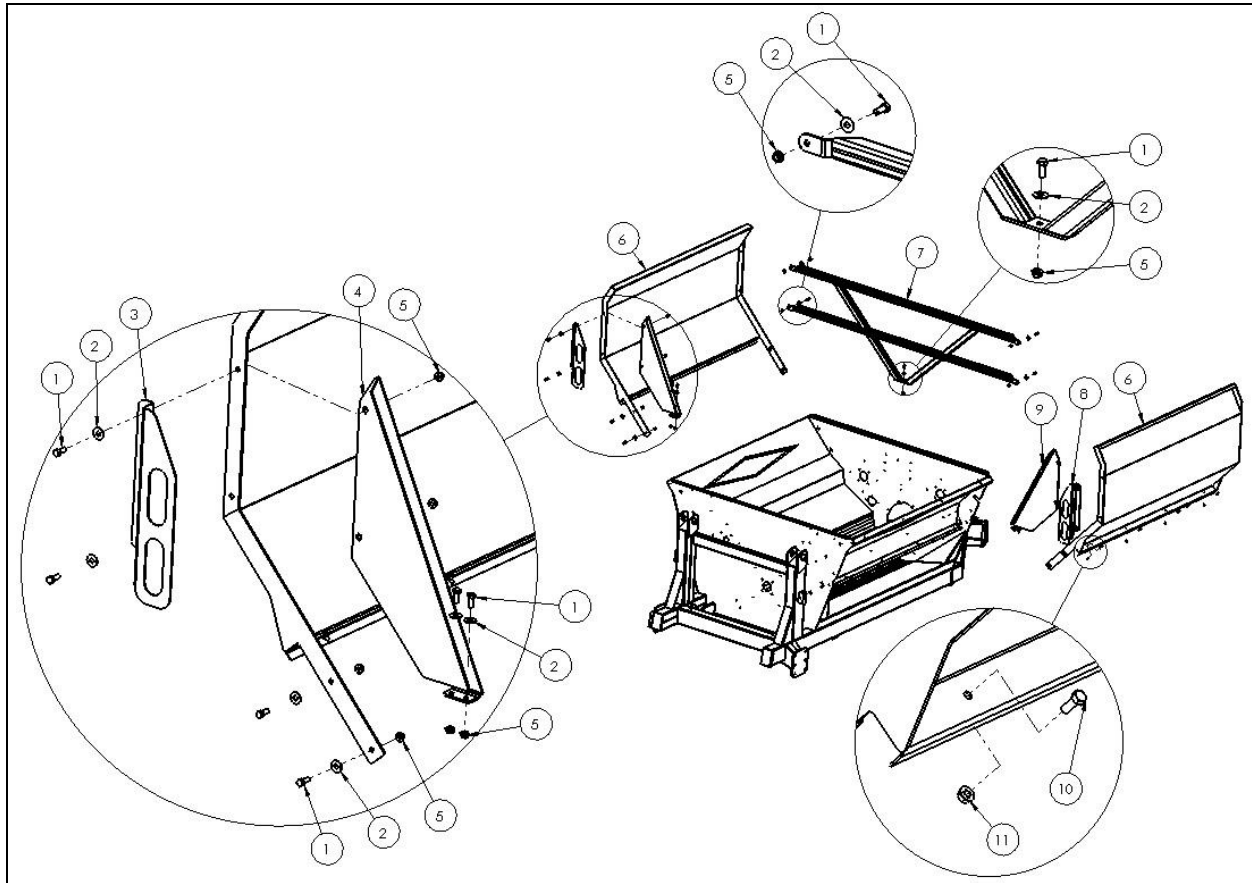
## Agitators



#	DESCRIPTION	PART #	QTY
1	Agitator Shaft Cap	17381	2
2	Bolt, 1/2" x 1-1/2"	10174	8
3	Lock Collar	10040	2
4	Grease Zerk, 1/8" NPT Straight	10270	2
5	Agitator Bearing * Includes # 3 & 4 *	10038	2
6	Nut, 1/2" Serrated Flange	10273	8
7	Agitator	29662	2
8	Nut, 3/8" Serrated Flange	10271	16
9	Agitator Twine Guard	22419	4
10	Bolt, 3/8" x 3/4"	11816	16
11	Agitator Insert	22084	2
12	Agitator Motor, 8" Long * Seal Kit	25872 25891	2
13	Lock Washer, 1/2"	14447	8
14	Socket Head Bolt, 1/2" x 3"	25952	8



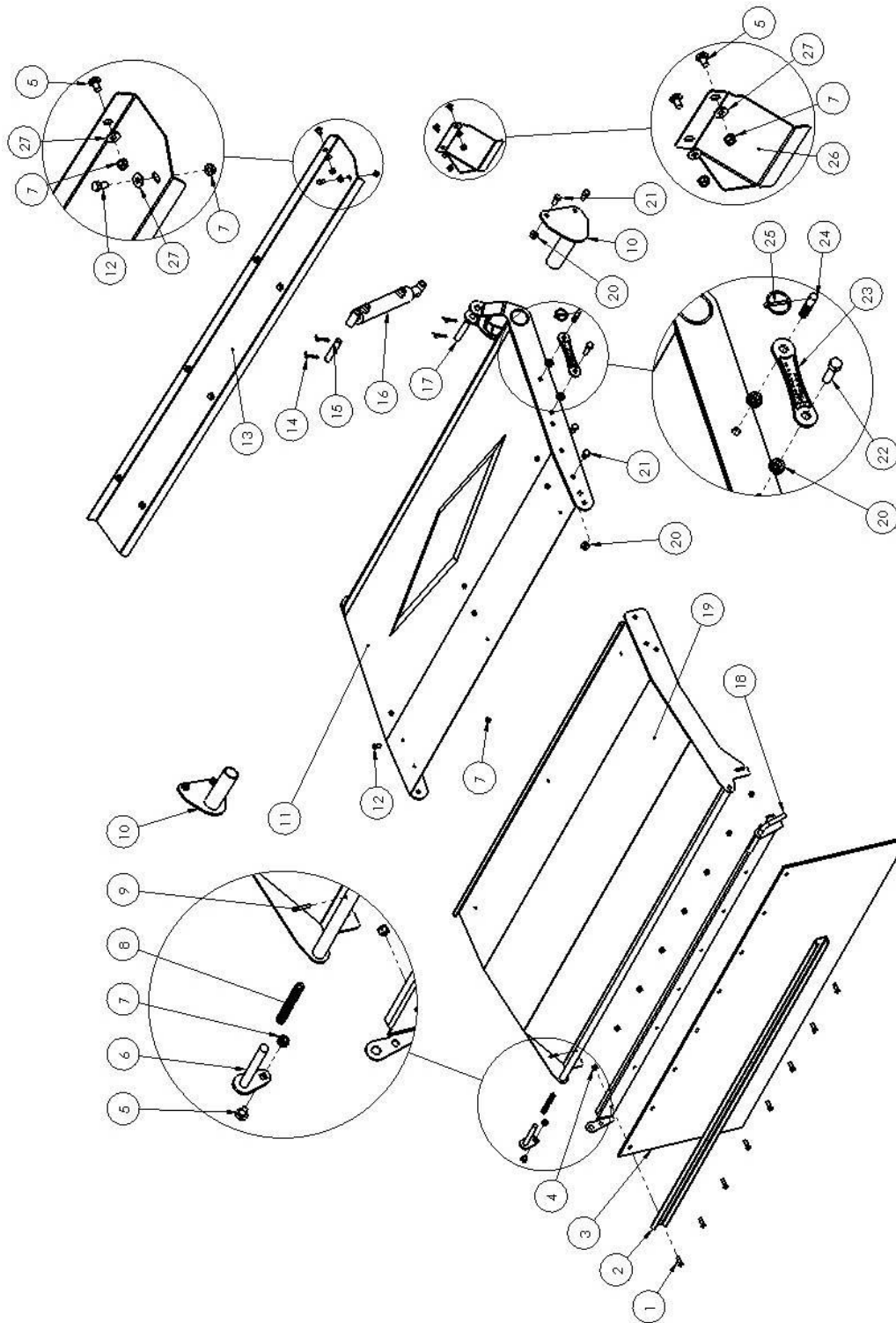
## Upper Tub Components



#	DESCRIPTION	PART #	QTY
1	Bolt, 1/2" x 1-1/4"	10240	21
2	Flat Washer, 1/2"	11668	21
3	Light Bracket - Left	22433	1
4	Rear Wing Gusset - Left	22430	1
5	Nut, 1/2" Serrated Flange	10273	21
6	Wing	22428	2
7	Front Rack	22427	1
8	Light Bracket - Right	22432	1
9	Rear Wing Gusset - Right	22431	1
10	Bolt, 3/8" x 1"	13806	8
11	Nut, 3/8" Serrated Flange	10271	8



## Deflector & Hose Cover



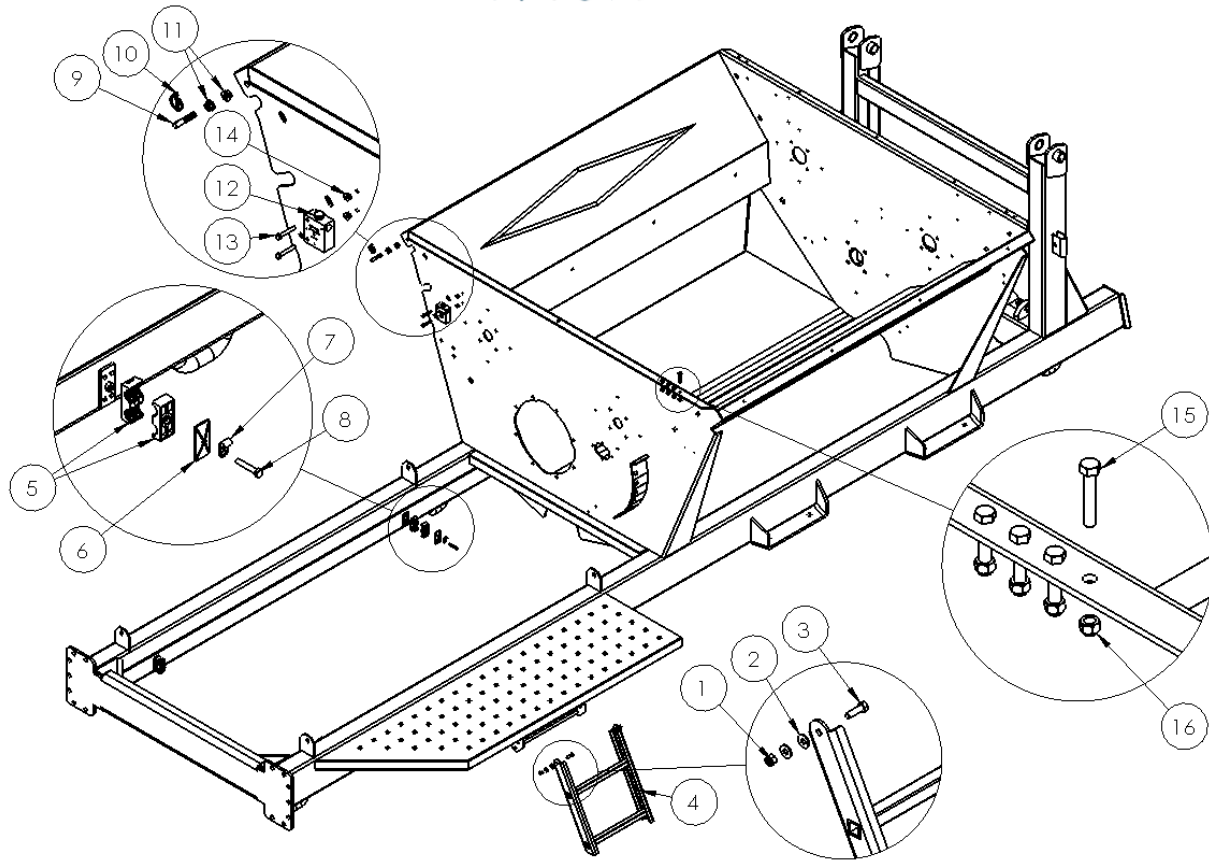


## Deflector

#	DESCRIPTION	PART #	QTY
1	Bolt, 3/8" x 1"	13806	8
2	Deflector Rubber Channel	22423	1
3	Deflector Rubber	10477	1
4	Nut, 3/8" Nylon Lock	10806	8
5	Carriage Bolt, 3/8" x 3/4"	14072	7
6	Deflector Flipper Pin	24464	1
7	Nut, 3/8" Serrated Flange	10271	20
8	Compression Spring	24461	1
9	Roll Pin, 3/16" x 1-1/4"	10302	1
10	Deflector Pivot	22426	2
11	Inner Deflector	22425	1
12	Bolt, 3/8" x 3/4"	11816	13
13	Hose Cover	22436	1
14	Cotter Pin, 3/16" x 1-1/4"	11669	4
15	Cylinder Pin, 3/4" x 3" Usable	22007	1
16	Hydraulic Cylinder, 1-1/2" x 6" x 3/4" * Seal Kit	21711 23738	1
17	Cylinder Pin, 3/4" x 3" Usable	22007	1
18	Deflector Rubber Flipper	24463	1
19	Outer Deflector - Flip-Style	24462	1
20	Nut, 1/2" Serrated Flange	10273	12
21	Bolt, 1/2" x 1"	10824	8
22	Bolt, 1/2" x 2"	10322	1
23	Deflector Lock	22422	1
24	Pin Stud	13231	1
25	Lynch Pin	13233	1
26	Hose Cover Front	22945	1
27	Flat Washer, 3/8"	11667	10



## Main Frame

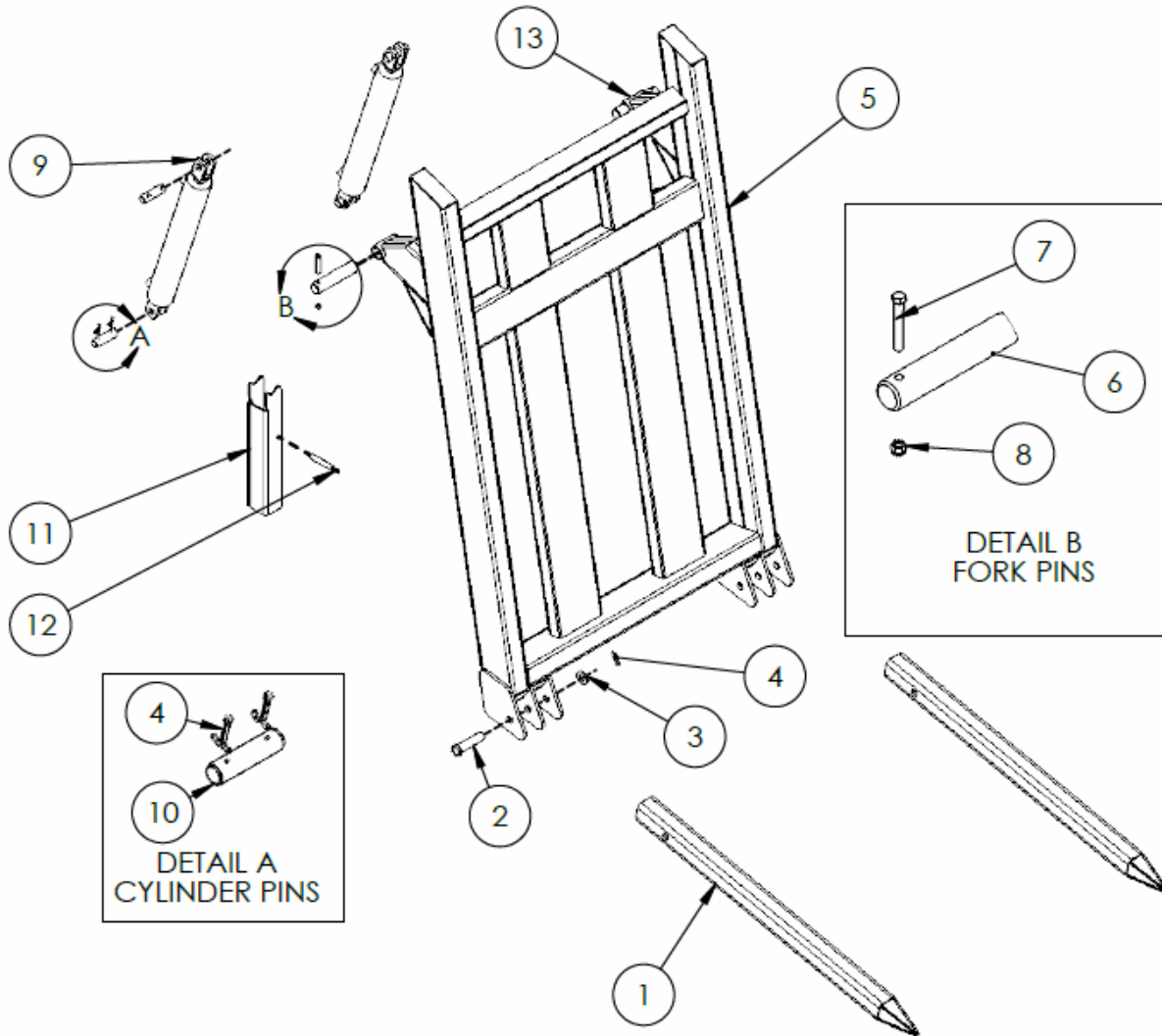


#	DESCRIPTION	PART #	QTY
1	Nut, 3/8" Nylon Lock	10806	2
2	Flat Washer, 3/8"	11667	11
3	Bolt, 3/8" x 1-1/4"	10253	2
4	Grain Tank Step	30362	1
5	Hose Clamp	21561	30
6	Hose Clamp Top	21725	15
7	Wiring Clip	13629	4
8	Bolt, 5/16 x 1-3/4"	21726	15
9	Threaded Pin	13231	1
10	Lynch Pin	13233	1
11	Nut, 1/2" Serrated Flange	10273	2
12	Line Lock Valve	25778	1
13	Bolt, 5/16 x 2"	15572	2
14	Nut, 5.16" Serrated Flange	11814	2
15	Bolt, 3/8 x 2" Fine Thread	33285	4
16	Nut, 3/8" Fine Thread Stover Lock	33286	4





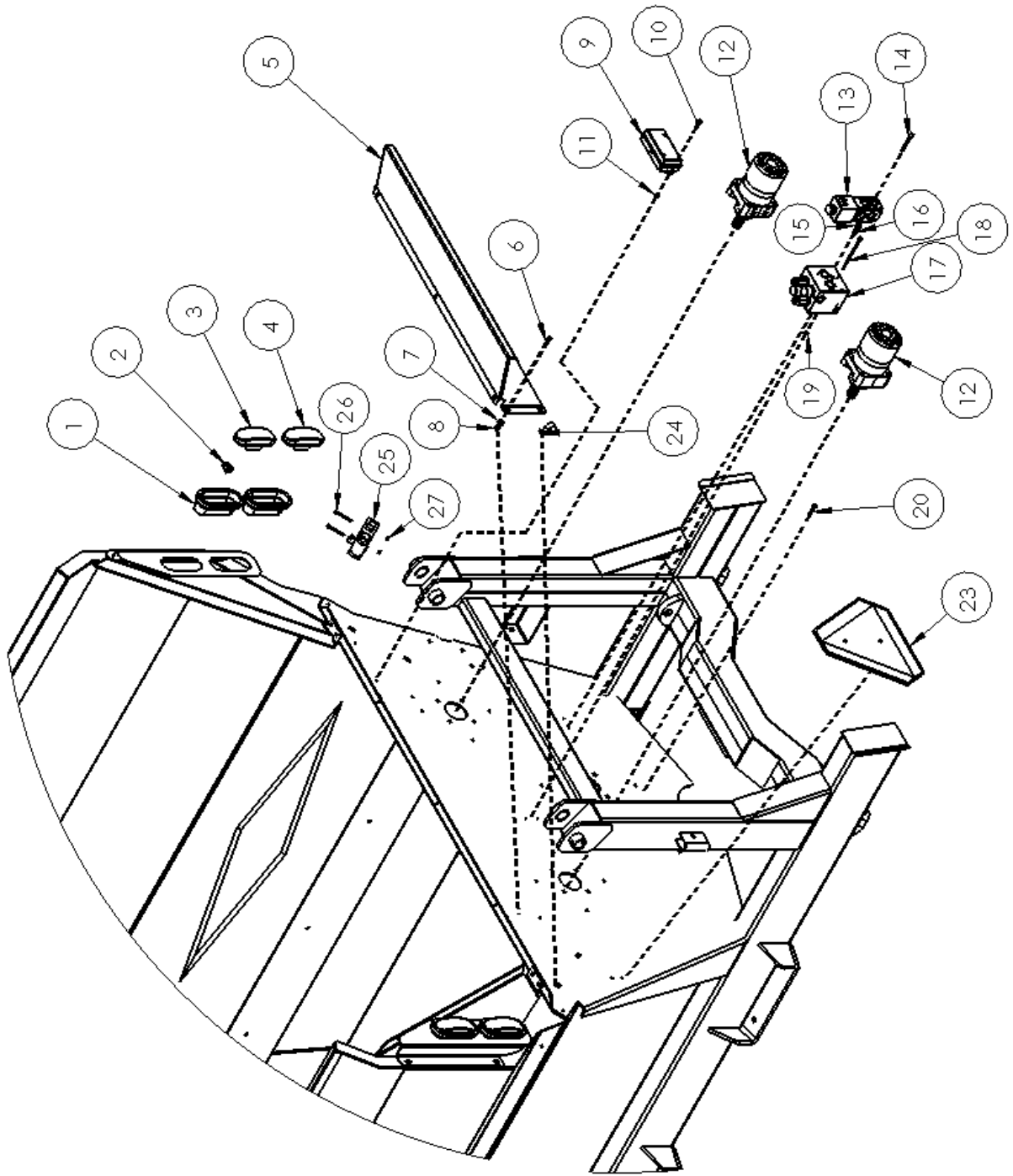
## Rear Forks



#	DESCRIPTION	PART #	QTY
1	Fork Tine	22421	2
2	Fork Tine Pin	10031	2
3	Flat Washer, 1"	14472	2
4	Cotter Pin, 3/16" x 1-1/2"	10072	8
5	Rear Fork Frame	22420	1
6	Rear Fork Pivot Pin	22006	2
7	Bolt, 3/8" x 2-3/4"	20908	2
8	Nut, 3/8" Nylon Lock	10806	2
9	Hydraulic Cylinder, 3" x 20" x 1-1/2" * Seal Kit	17444 17611	2
10	Cylinder Pin, Top Cylinder Pin, Bottom Cylinder Pin Bushing	22190 10339 23708	2 2 4
11	Cylinder Safety Lock	21860	2
12	Quick-Lock Pin with Handle, 1/2" x 4-1/2"	21709	2
13	Grease Zerk, 1/4" Self Tapping	16364	2



## Rear Tub Components



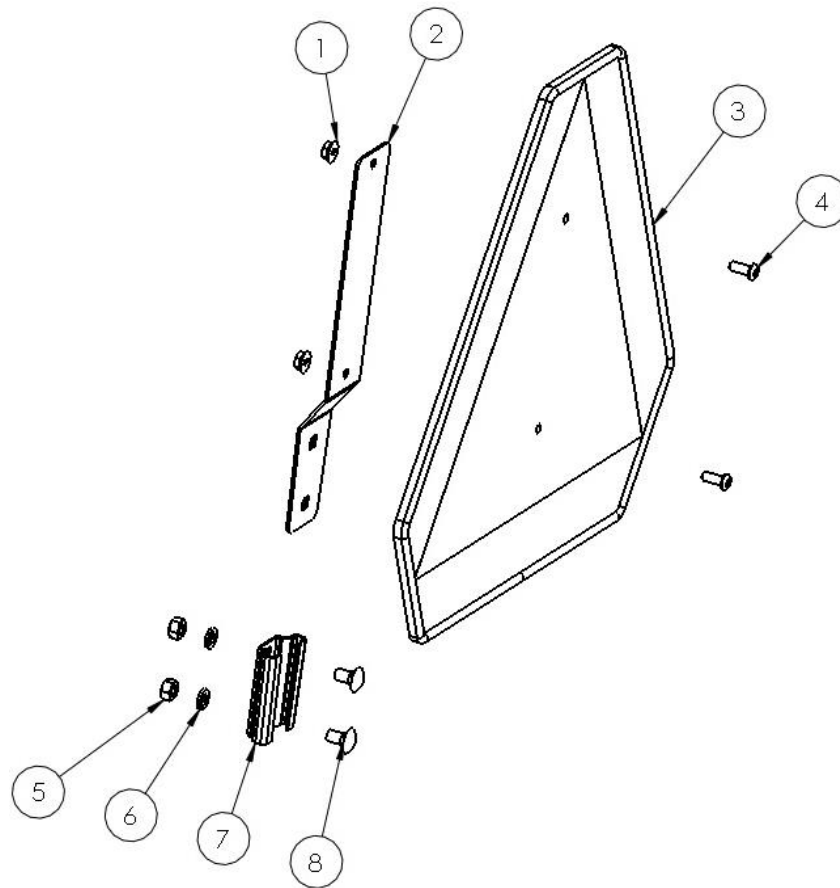


## Rear Tub Components

#	DESCRIPTION	PART #	QTY
1	Light Grommet	21723	4
2	Light Pigtail	21422	4
3	Light, Red LED	21721	2
4	Light, Amber LED	21722	2
5	Rear Cover Panel	22437	1
6	Bolt, 3/8" x 1"	13806	7
7	Flat Washer, 3/8"	11667	7
8	Nut, 3/8" Serrated Flange	10271	10
9	Junction Box * See wiring diagram *	13668	1
10	Bolt, 5/16" x 1"	20906	2
11	Nut, 5/16" Nylon Lock	11815	2
12	Agitator Motor, 8" Long *See breakdown*	25872	2
13	Diverter Valve	11743	1
	*Nut & O-Ring Kit	17977	(1)
	*Magnet Kit	11789	(1)
14	Bolt, 5/16" x 3" Socket Head	11783	2
15	Washer, 5/16" Flat	12496	2
16	Nut, 5/16" SFN	11814	2
17	Flow Divider Combiner Valve	25778	1
18	Bolt, 1/4" x 5"	25951	2
19	Nut, 1/4" SFN	11812	2
20	Bolt, 5/16" x 1-3/4"	21726	1
21	Hose Clamp, Top Plate (Large)	21715	1
22	Hose Clamp, 1/2" Plastic Block	21561	2
23	Slow Moving Vehicle Sign Kit * See breakdown *	22411	1
24	Cable Clamp	13629	6
25	Flow Control Valve	10455	1
26	Bolt, 1/4 x 2-1/2"	11811	2
27	Nut, 1/4" SF	11812	2



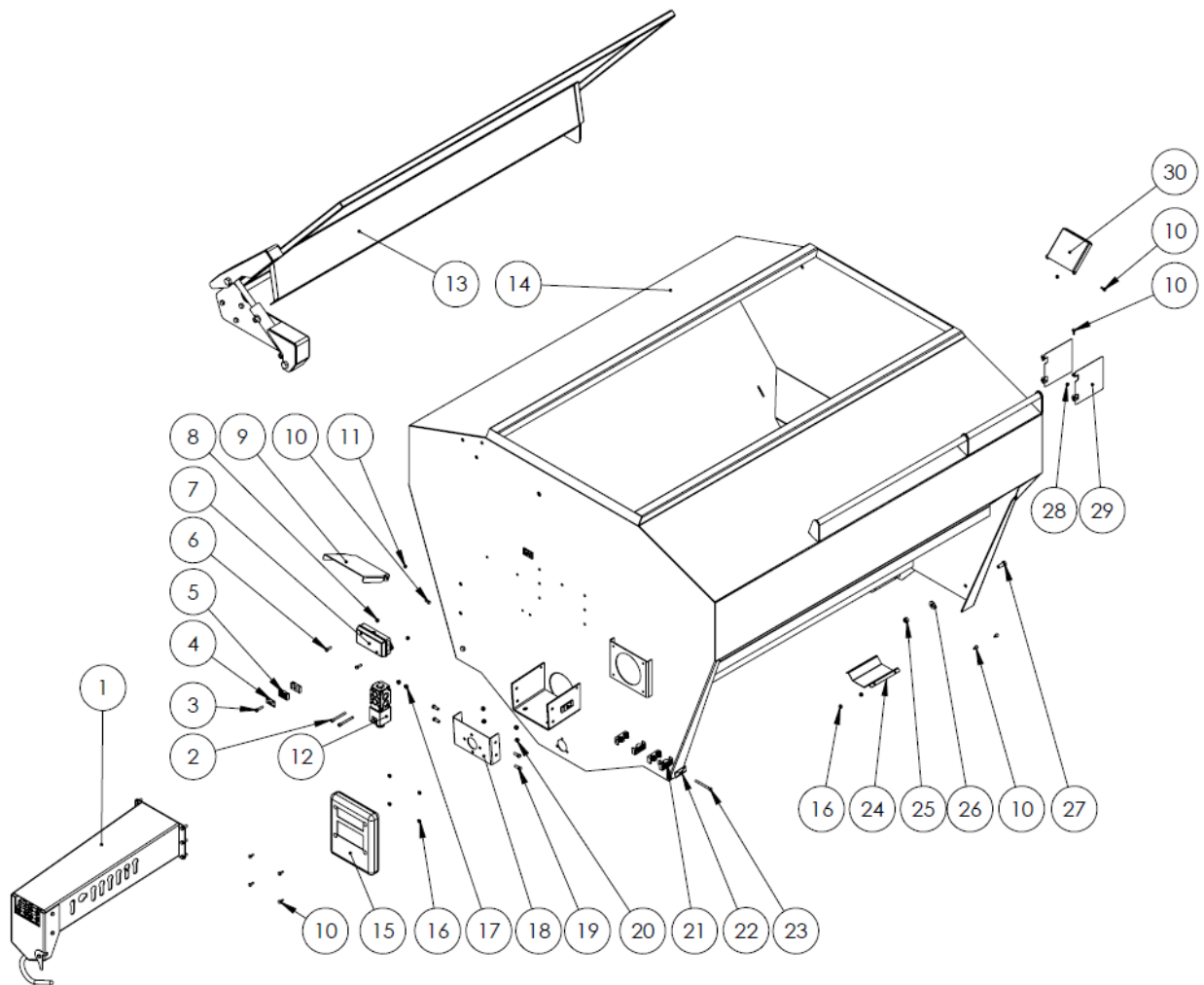
## Slow Moving Vehicle (SMV) Sign Kit



#	DESCRIPTION	PART #	QTY
	Complete SMV Sign Kit	22411	1
1	Nut, 1/4" Serrated Flange	-	2
2	Galvanized Sign Bracket	-	1
3	Plastic SMV Sign	-	1
4	Pan Head Bolt, 1/4" x 5/8"	-	2
5	Nut, 5/16"	-	2
6	Lock Washer, 5/16"	-	2
7	Galvanized Tapered Receiver Bracket	-	1
8	Carriage Bolt, 5/16" x 1/2"	-	2
9	Carriage Bolt, 5/16" x 2"	-	-
10	Lock Washer, 1/4"	-	-



# Grain Tank

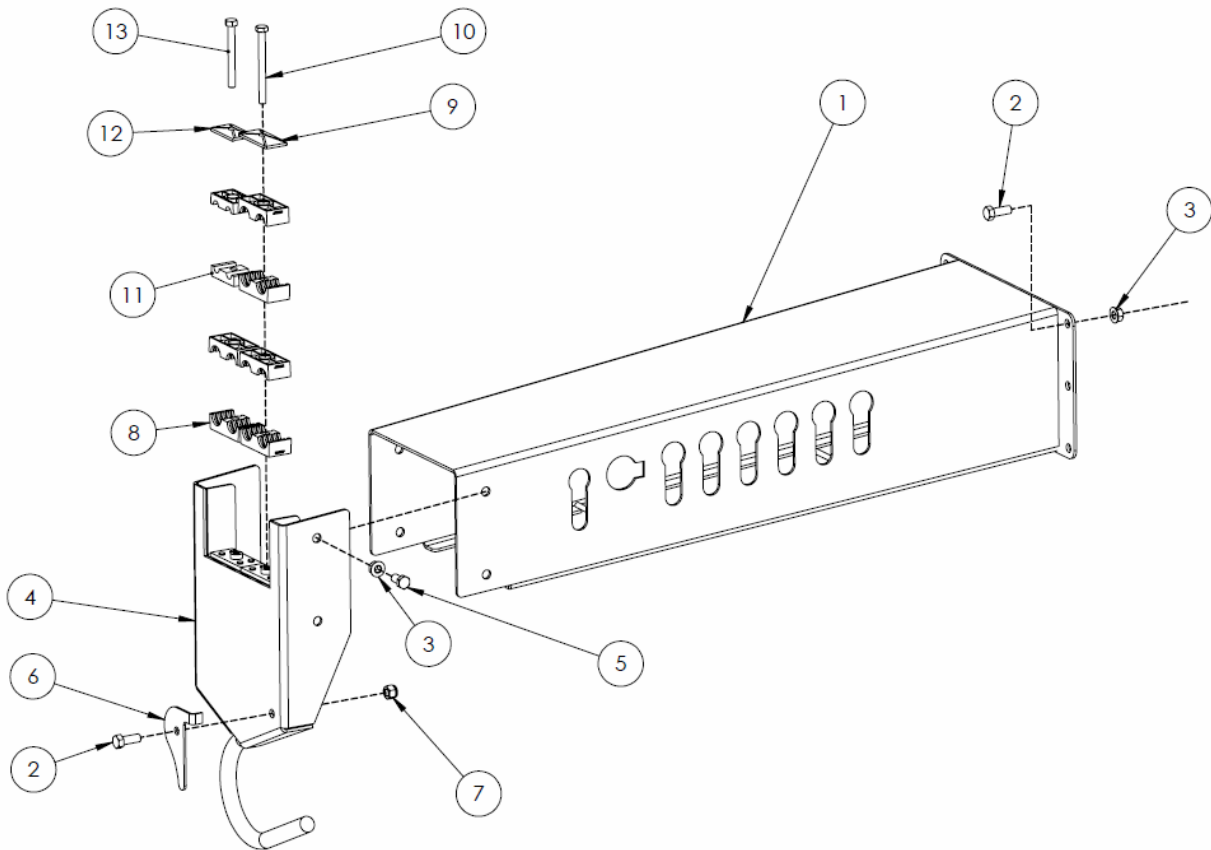




#	DESCRIPTION	PART #	QTY
1	PTO Holder Channel	See Breakdown	1
2	Bolt, 5/16" Serrated Flange nut	11783	2
3	Bolt, 5/16" x 1-3/8"	22183	1
4	Hydraulic Hose Clamp top, 1/4" hose	22182	1
5	Hydraulic Hose Clamp, 1/4"	22181	2
6	Bolt, 5/16" x 1"	20906	2
7	Junction Box	13668	1
8	Nut, 5/16" Nylon Lock	11815	2
9	Bearing Cover Door	30379	1
10	Bolt, 1/4" x 3/4"	11809	15
11	Nut, 1/4" Nylon Lock	11664	8
12	Diverter Valve	11743	1
	*Nut & O-Ring Kit	17977	(1)
	*Magnet Kit	11789	(1)
13	Grain Tank Lid	See Breakdown	
14	Grain Tank	30368	1
15	Operator Manual Holder	22409	1
16	Nut, 1/4" Nylon Lock	11664	8
17	Nut, 5/16" Serrated Flange	11814	2
18	PTO Guard Bracket	30377	1
19	Bolt, 3/8" x 1"	13806	9
20	Nut, 3/8" Nylon Lock	10806	4
21	Hydraulic Hose Clamp, 1/2"	21561	4
22	Hydraulic Hose Clamp Top	21725	1
23	Bolt, 5/16" x 3-1/2"	13765	1
24	Grain Tank Clean Out Door	30380	1
25	Nut, 1/2" Stover Lock	14393	4
26	Washer, 1/2" Flat	11668	8
27	Bolt, 1/2" x 1-1/4"	10240	4
28	Nut, 1/4" Nylon Lock	26923	6
29	Rear PTO Shaft Guard	30382	2
30	Rear Driveshaft Top Guard	30383	1



## PTO Holder

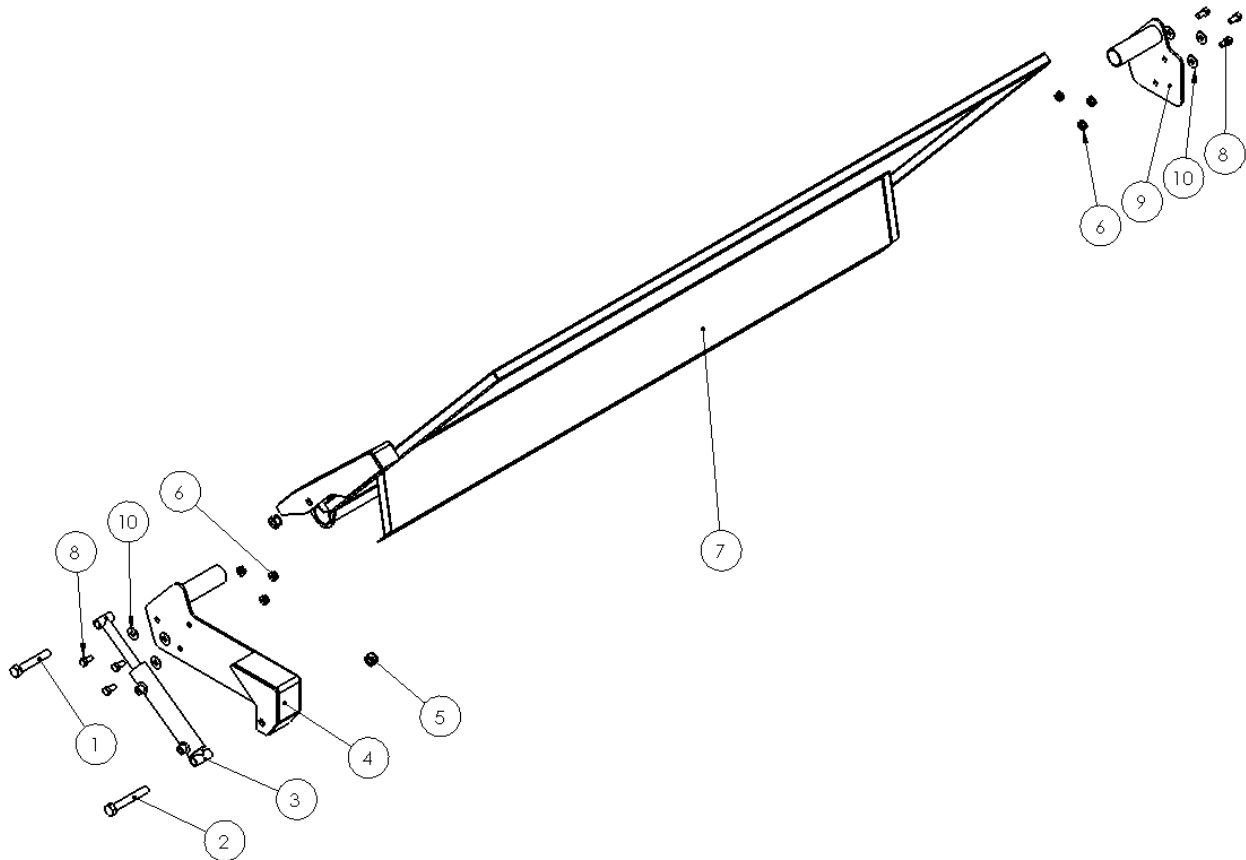


#	DESCRIPTION	PART #	QTY
1	PTO Holder Channel	30372	1
2	Bolt, 3/8" x 1"	13806	8
3	Nut, 3/8" SF	10271	11
4	PTO Hook	30373	1
5	Bolt, 3/8" x 3/4"	11816	4
6	BK5092 – PTO Stopper	21893	1
7	Nut, 3/8" Nylon	10806	1
8	Hose Clamp, 1/2" Plastic Block	21561	6
9	Hose Clamp, Top Plate (Large)	21715	1
10	Bolt, 5/16" x 3-1/2"	13765	1
11	Hose Clamp, 1/4" Plastic Block	22181	2
12	Hose Clamp, Top Plate (Small)	22182	1
13	Bolt, 5/16" x 3"	22844	1





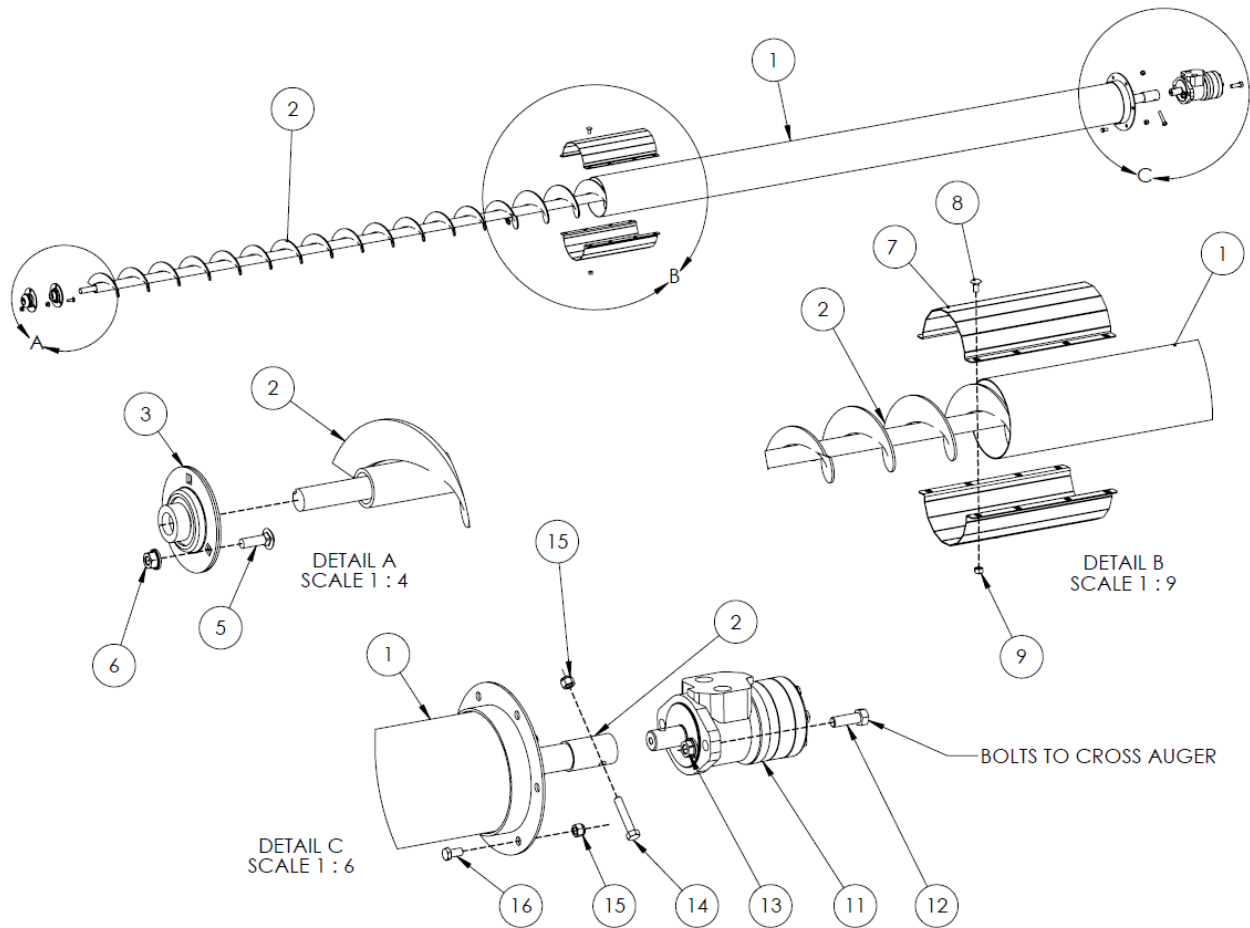
## Grain Tank Lid



#	DESCRIPTION	PART #	QTY
1	Bolt, 3/4" x 4-1/2"	21460	1
2	Bolt, 3/4" x 5.0"	17826	1
3	Hydraulic Cylinder, 1-1/2" x 6" x 3/4" * Seal Kit	21711 23738	1
4	Front Lid Hinge Bracket	30376	1
5	Nut, 3/4" Stover Lock	11823	2
6	Nut, 1/2" Serrated Flange	10273	6
7	Grain Tank Lid	30367	1
8	Bolt, 1/2" x 1.0"	10824	6
9	Rear Lid Hinge Bracket	30375	1
10	Flat Washer, 1/2"	11668	6



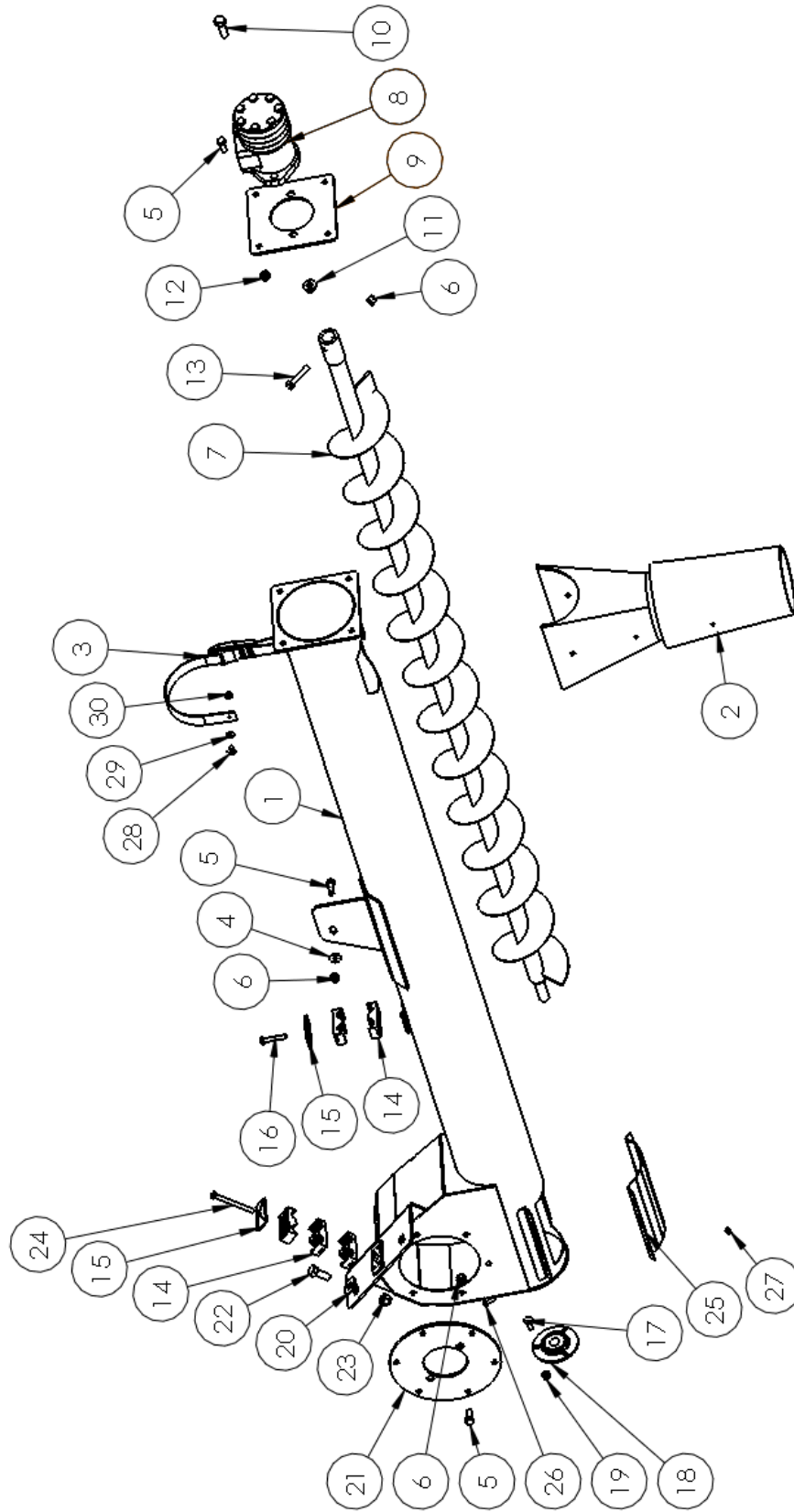
## Auger System – Bottom Auger



#	DESCRIPTION	PART #	QTY
1	Bottom Auger Tubing	30370	1
2	Bottom Auger	17743	1
3a	3-Bolt Pressed Flange Housing	10368	2
3b	Bearing, 3/4" with Lock Collar	10366	1
3c	Lock Collar Only	10367	1
5	Bolt, 5/16" x 3/4" Carriage	11662	3
6	Nut, 5/16" SF	11814	3
7	Pipe Clamp	30378	2
8	Bolt, 3/8" x 3/4" Carriage	14072	8
9	Nut, 3/8" Serrated Flange	10271	8
11	Bottom Auger Motor	31172	1
12	Bolt, 1/2" x 1-3/4"	10805	2
13	Nut, 1/2" Stover	14393	2
14	Bolt, 3/8" x 2"	10279	1
15	Nut, 3/8" NL	10806	7
16	Bolt, 3/8" x 3/4"	11816	6



# Auger System – Top Cross Auger





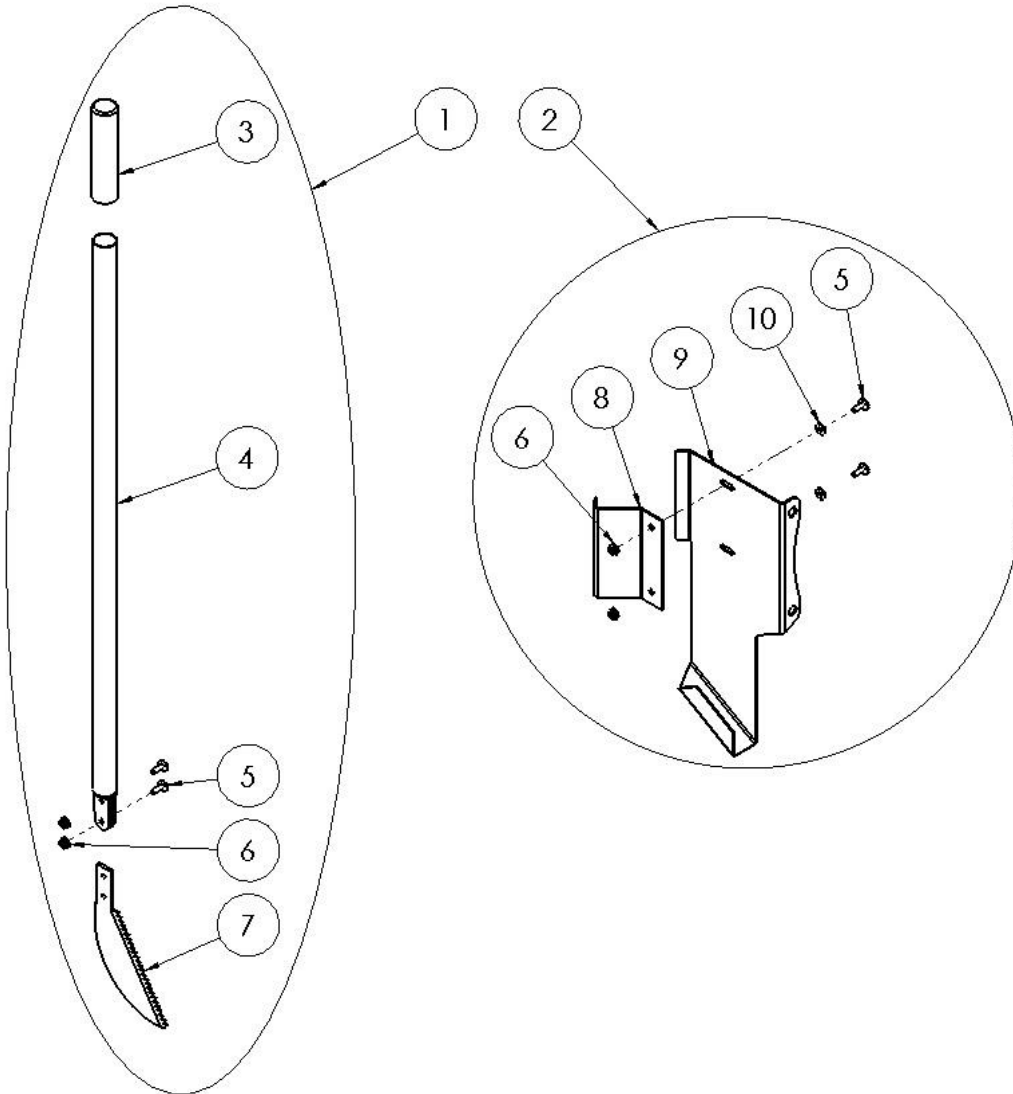
## Top Cross Auger

#	DESCRIPTION	PART #	QTY
1	Discharge Auger Weldment	30371	1
2	Auger Spout	10543	1
3	Auger Spout Strap	25122	1
4	Washer, 3/8" Flat	11667	2
5	Bolt, 3/8" x 1"	13806	12
6	Nut, 3/8" Nylon Lock	10806	8
7	Discharge Auger	13427	1
8	Discharge Auger Motor	30132	1
9	Discharge Auger Motor Plate	30364	1
10	Bolt, 1/2" x 1-3/4"	10805	2
11	Nut, 1/2" Stover Lock	14393	2
12	Nut, 3/8" SF	10271	4
13	Bolt, 3/8" x 2"	10279	1
14	Hose Clamp, 1/2" Plastic Block	21561	6
15	Hose Clamp, Top Plate (Large)	21715	2
16	Bolt, 5/16" x 1-3/4"	21726	1
17	Bolt, 5/16" x 3/4" Carriage	11662	3
18	3-Bolt Pressed Flange Housing	10368	2
	Bearing, 3/4" with Lock Collar	10366	1
	Lock Collar	10367	1
19	Nut, 5/16" SF	11814	6
20	Washer, 1/2"	11668	2
21	Tank Auger Motor Plate	30384	1
22	Bolt, 1/2 x 1-1/4"	10240	2
23	Nut, 1/2" Nylon Lock	14443	2
24	Bolt, 5/16" x 3-1/2"	13765	1
25	Rear Auger Clean-out Door	30363	1
26	Bolt, 1/4" x 3/4"	11809	4
27	Nut, 1/4" Nylon Lock	11664	4
28	Bolt, 1/4" Truss Head	17638	2
29	Washer, 1/4" Flat	11666	2
30	Nut, 1/4" Nylon Lock	11664	2



**Option**

**Twine Cutter**



#	DESCRIPTION	PART #	QTY
1	Twine Cutter Handle Kit	-	1
2	Twine Cutter Holder Kit	21549	1
3	Rubber Handle Cap	17587	1
4	Twine Cutter Handle	20862	1
5	Bolt, 1/4" x 3/4" Truss Head	17638	4
6	Nut, 1/4" Serrated Flange	11812	4
7	Twine Cutter Blade	17438	1
8	Twine Cutter Holder Inside Bracket	17690	1
9	Twine Cutter Holder Outside Bracket	17691	1
10	Flat Washer, 1/4"	11666	2



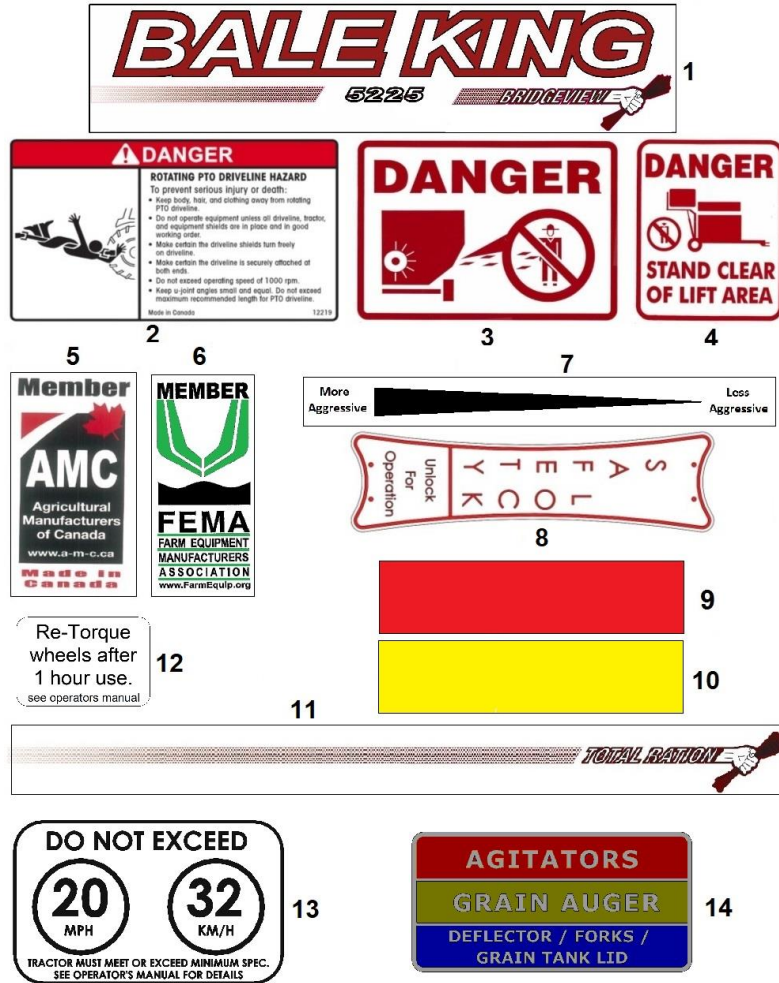


#	DESCRIPTION	PART #	QTY
<b>1</b>	Fin Bolt, 3/8" x 3/4"	10807	8
<b>2</b>	Nut, 3/8" Serrated Flange	10271	8
<b>3</b>	Fine Chop Cover Plate	30381	1
	Fine Chop Kit * Optional *	22139	1
<b>4</b>	Bolt, 3/8" x 1"	13806	6
<b>5</b>	Fine Chop Pivot Front	22443	1
<b>6</b>	Nut, 3/8" Nylon Lock	10806	6
<b>7</b>	Rubber Handle	10297	1
<b>8</b>	Fine Chop Handle	22446	1
<b>9</b>	Bolt, 1/2" x 2-1/2"	10804	1
<b>10</b>	Fine Chop Handle Mount * Not required on newer kits *	22445	1
<b>11</b>	Flat Washer, 1/2"	11668	1
<b>12</b>	Compression Spring	21713	1
<b>13</b>	Nut, 1/2" Nylon Lock	10241	1
<b>14</b>	Nut, 1/4" Nylon Lock	11664	26
<b>15</b>	Fine Chop Blade	10404	13
<b>16</b>	Bolt, 1/4" x 3/4"	11809	26
<b>17</b>	Fine Chop Bar	22442	1
<b>18</b>	Fine Chop Pivot Rear	22444	1
<b>19</b>	Split Collar	12792	1





# Decals

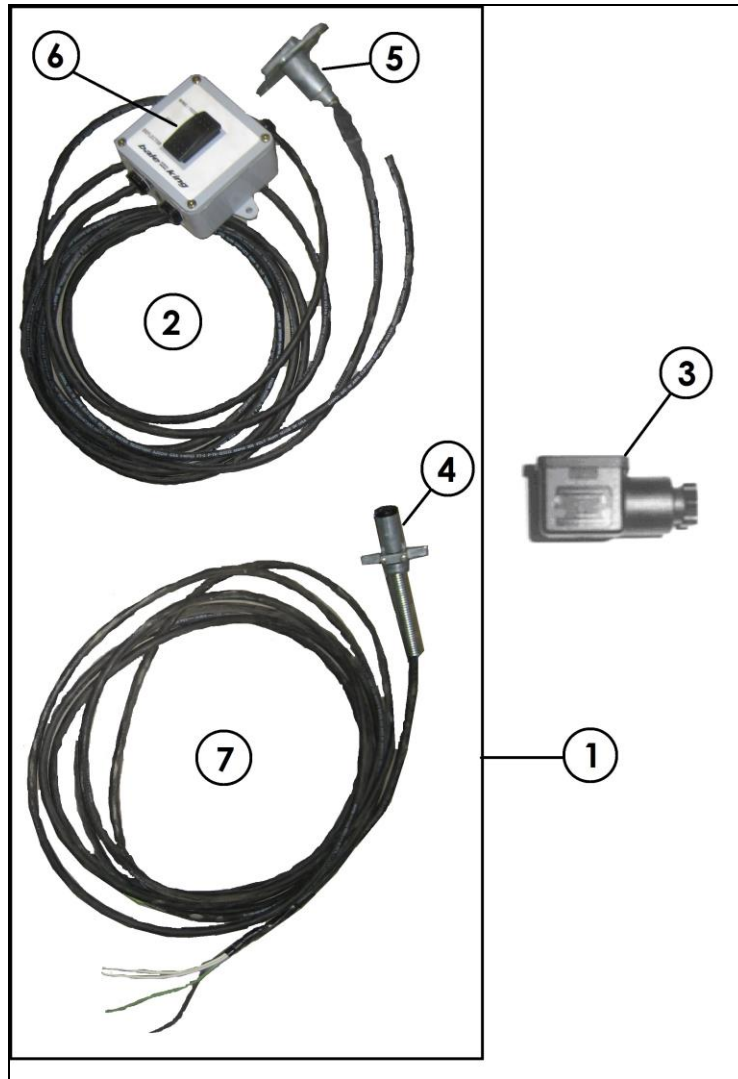


#	DESCRIPTION	PART #	QTY
1	"BALE KING"	32804	2
	"5225"	30337	2
2	"DANGER", PTO	12219	2
3	"DANGER", Discharge	12230	4
4	"DANGER", Stand Clear of Lift	12229	1
5	AMC Member	12239	1
6	FEMA Member	25347	1
7	Hoop Adjustment	30338	1
8	Deflector Safety Lock	22292	1
9	Red Reflector	28383	1
10	Amber Reflector	28384	6
11	"TOTAL RATION"	24862	2
12	Wheel Torque Reminder	28385	4
13	Speed Limit, 20 mph	33159	1
14	Hydraulic Decal	33136	1



## Diverter Control Box

### 4-pin Round Plug

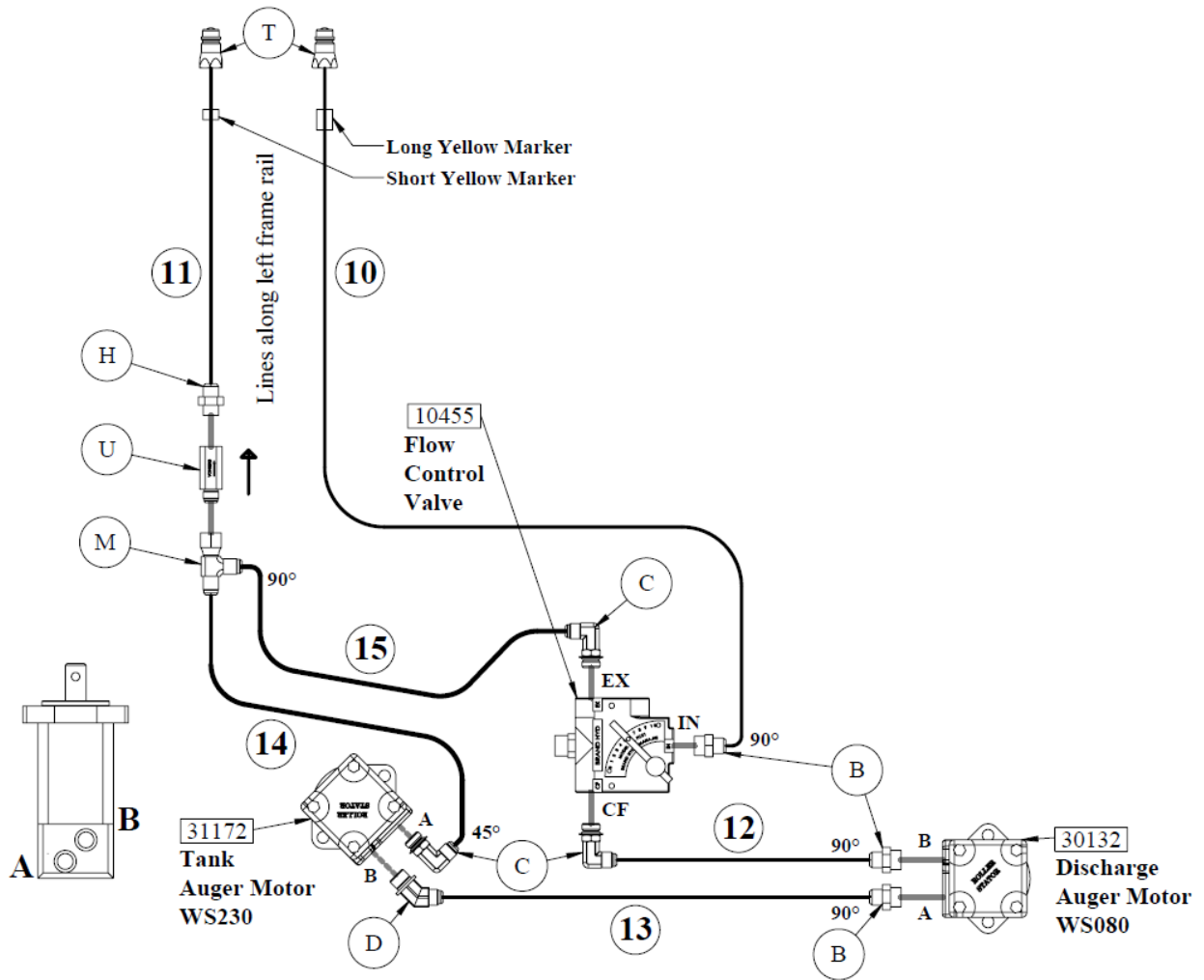


#	DESCRIPTION	PART #	QTY
1	Complete Control Box with Harness	24466	1
2	Complete Control Box with Cab to Hitch Harness	-	1
3	Square Plug for Diverter Valve	13657	2
4	4-pin Trailer Plug	24691	1
5	4-pin Tractor Plug	24690	1
4,5	4-pin Trailer & Tractor Plug Kit	25079	1
6	3-way Switch	13561	1
7	Complete Hitch to Valve Harness	24693	1
8	Cover-up Sticker	30358	1



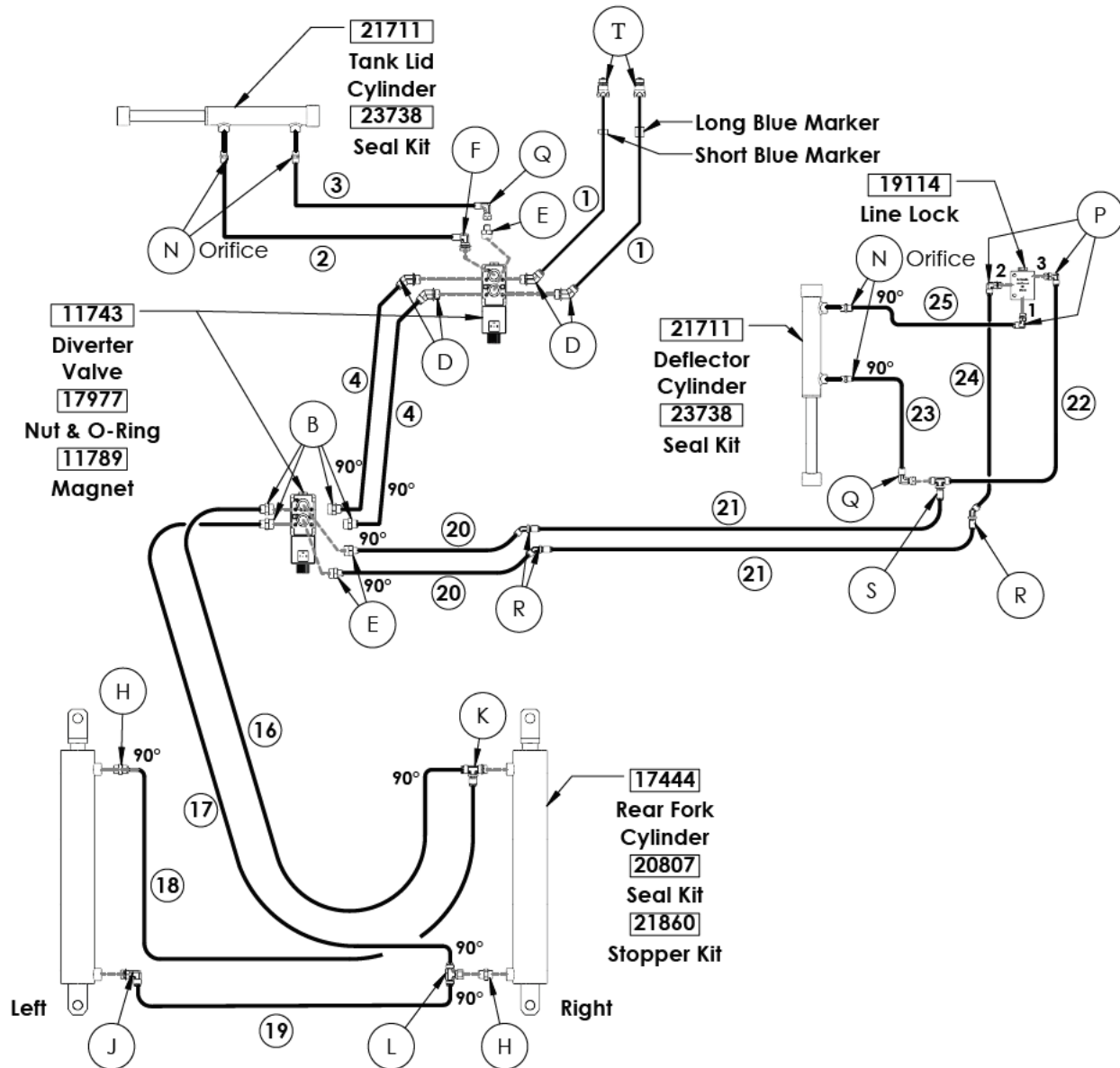


## Auger Schematic





## Fork, Deflector and Lid Schematic





## Hydraulic Components

#	FITTINGS	QTY	PART #
A	Adaptor, 12MB-8MJ	2	25937
B	Adaptor, 10MB-8MJ	7	10161
C	Adaptor, 10MB-8MJ90	3	12169
D	Adaptor, 10MB-8MJ45	5	23844
E	Adaptor, 10MB-6MJ	8	11739
F	Adaptor, 10MB-6MJ90	1	12168
G	Adaptor, 10MB-6MJ45	2	22722
H	Adapter, 8MB-8MJ	2	10561
J	Adapter, 8MB-8MJ90	2	12163
K	Adaptor, 8MBR-8MJT	1	22159
L	Adaptor, 8FJXL-8MJT	1	
M	Adaptor, 8FJXR-8MJT	1	11768
N	Adaptor, 6MB-6MJ Orifice (1/32")	4	17436
P	Adaptor, 6MB-6MJ90	3	10201
Q	Adaptor, 6MJ-6FJX90	2	12162
R	Adapter, 6MJBH-6MJ45	3	21319
S	Adapter, 6MJBHL-6MJT	1	10188
T	Pioneer Tip, 8FB	6	17379
U	Check Valve, 8MJ-8FB	1	12171

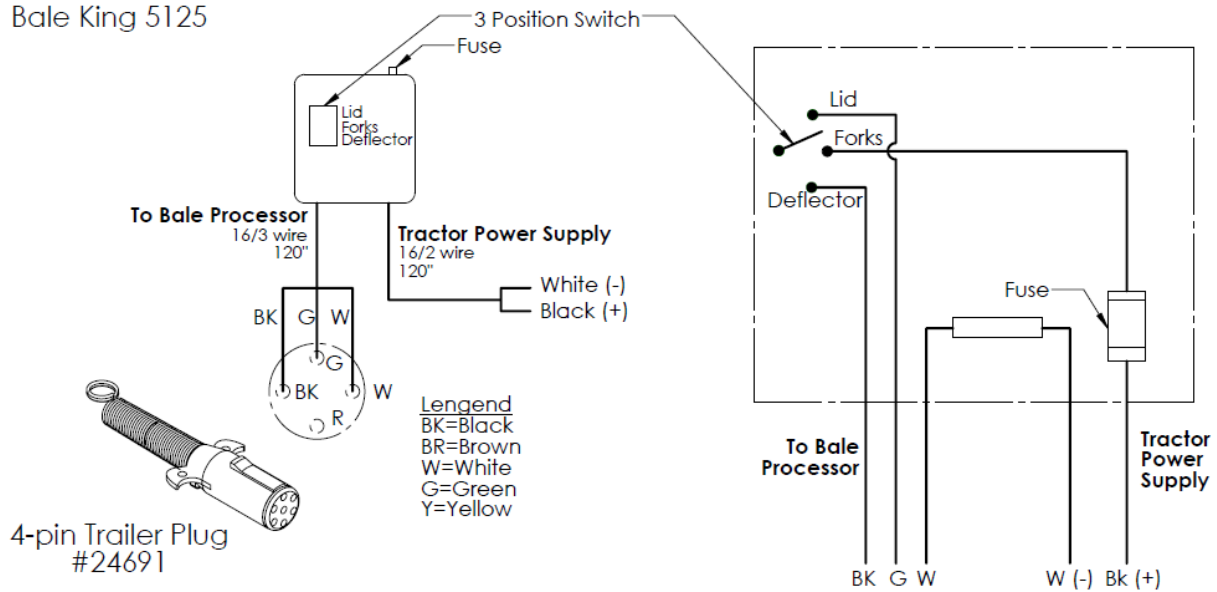
#	QTY	Hose Size	Length	End 1	End 2	Location 1	Location 2
1	2	1/2"	106" OAL	8MB	8FJX	Tractor	Diverter Valve 1 (P1,P2)
2	1	1/4"	33" OAL	6FJX	6FJX90	Diverter Valve 1 (C3)	Grain Tank Lid Cylinder (Ram)
3	1	1/4"	31" OAL	6FJX	6FJX90	Diverter Valve 1 (C2)	Grain Tank Lid Cylinder (Base)
4	2	1/2"	220.5" OAL	8JFX	8FJX90	Diverter Valve 1 (C1,C4)	Diverter Valve 2 (P1,P2)
5	2	1/2"	358" OAL	8MB	8FJX90	Tractor	FDV (1), FDV (3)
6	1	3/8"	17.25" OAL	6FJX	6FJX90	Left Agit Motor (A)	FDV (2)
7	1	3/8"	13.5" OAL	6FJX	6FJX	Left Agit Motor (B)	FDV (5)
8	1	3/8"	11.25" OAL	6FJX	6FJX90	Right Agit Motor (A)	FDV (4)
9	1	3/8"	8.5" OAL	6FJX	6FJX	Right Agit Motor (B)	FDV (6)
10	1	1/2"	384" OAL	8MB	8FJX90	Tractor	FCV (IN)
11	1	1/2"	305" OAL	8MB	8FJX	Tractor	Check Valve
12	1	1/2"	39" OAL	8FJX	8FJX90	FCV (CF)	Discharge Motor (B)
13	1	1/2"	79" OAL	8FJX90	8FJX	Discharge Motor (A)	Tank Motor (B)
14	1	1/2"	39" OAL	8FJX45	8FJX	Tank Motor (A)	Check Valve
15	1	1/2"	69" OAL	8FJX	8FJX90	FCV (EX)	Check Valve
16	1	1/2"	57" OAL	8FJX	8FJX90	Diverter Valve 2 (C1)	Right Fork Cylinder (Ram)
17	1	1/2"	35" OAL	8FJX	8FJX90	Diverter Valve 2 (C4)	Right Fork Cylinder (Base)
18	1	1/2"	80" OAL	8FJX90	8FJX	Left Fork Cylinder (Ram)	Right Fork Cylinder (Ram)
19	1	1/2"	40" OAL	8FJX	8FJX90	Left Fork Cylinder (Base)	Right Fork Cylinder (Base)
20	2	1/4"	16" OAL	6FJX90	6FJX	Diverter Valve 2 (C3,C2)	Rear Bulkhead
21	2	1/4"	79.5" OAL	6FJX	6FJX	Rear Bulkhead	Front Bulkhead
22	1	1/4"	16.25" OAL	6FJX	6FJX	Front Bulkhead (Tee)	Line Lock (3)
23	1	1/4"	11.5" OAL	6FJX	6FJX90L	Front Bulkhead (Tee)	Deflector Cylinder (Ram)
24	1	1/4"	16.25"	6FJX	6FJX	Front Bulkhead (Bottom)	Line Lock (2)
25	1	1/4"	17.25" OAL	6FJX	6FJX90L	Line Lock (1)	Deflector Cylinder (Base)

**NOTE:** Quantities vary based on machine set-up. Hoses are not available for sale from Bridgeview. Use the information above to have replacement hoses made up locally.

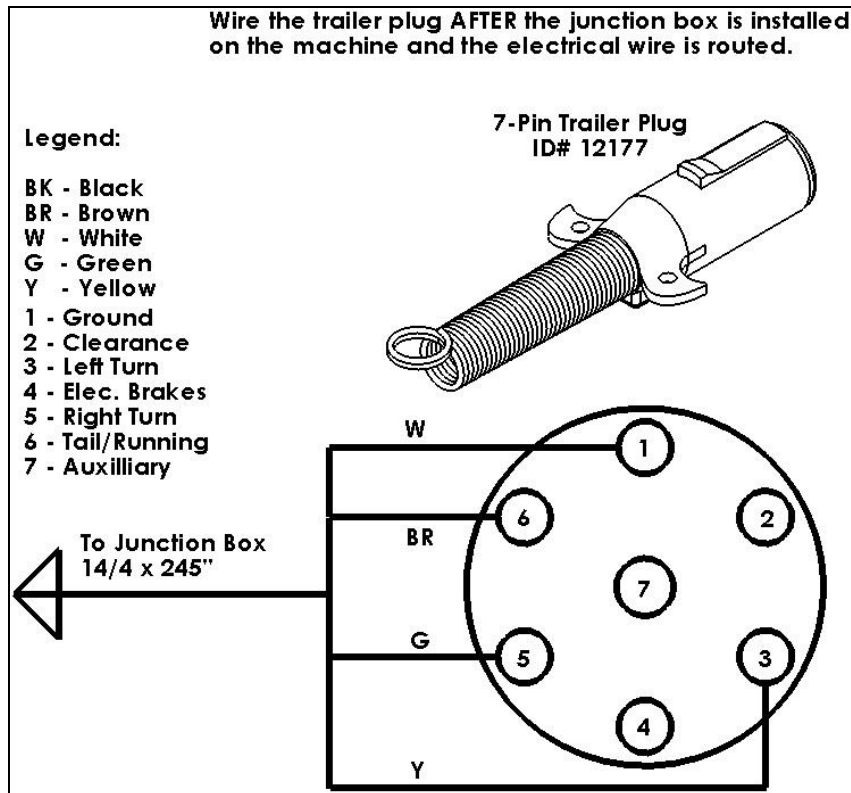


## Diverter Control Box

Bale King 5125



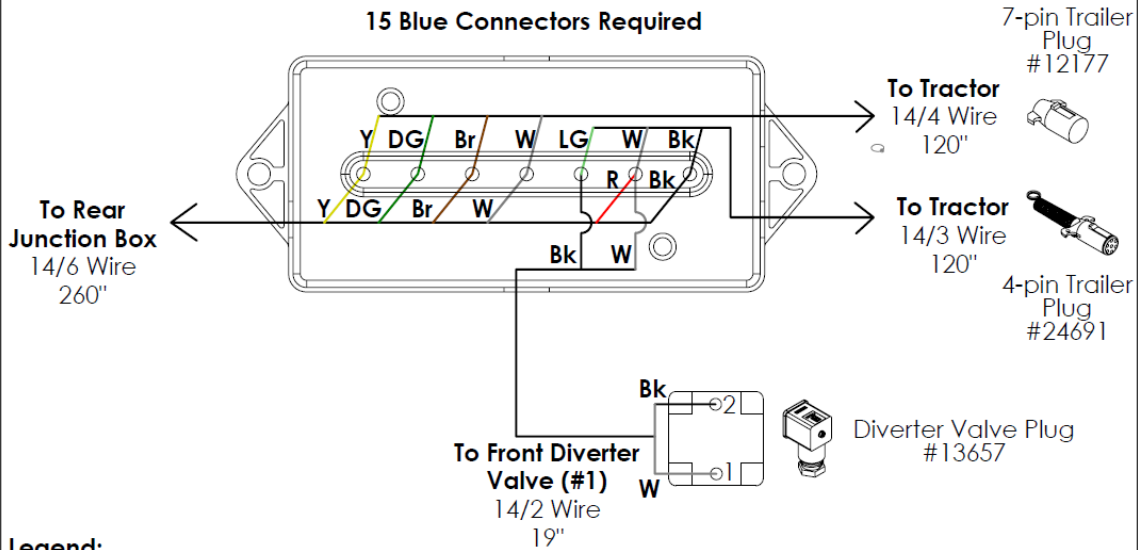
## Light







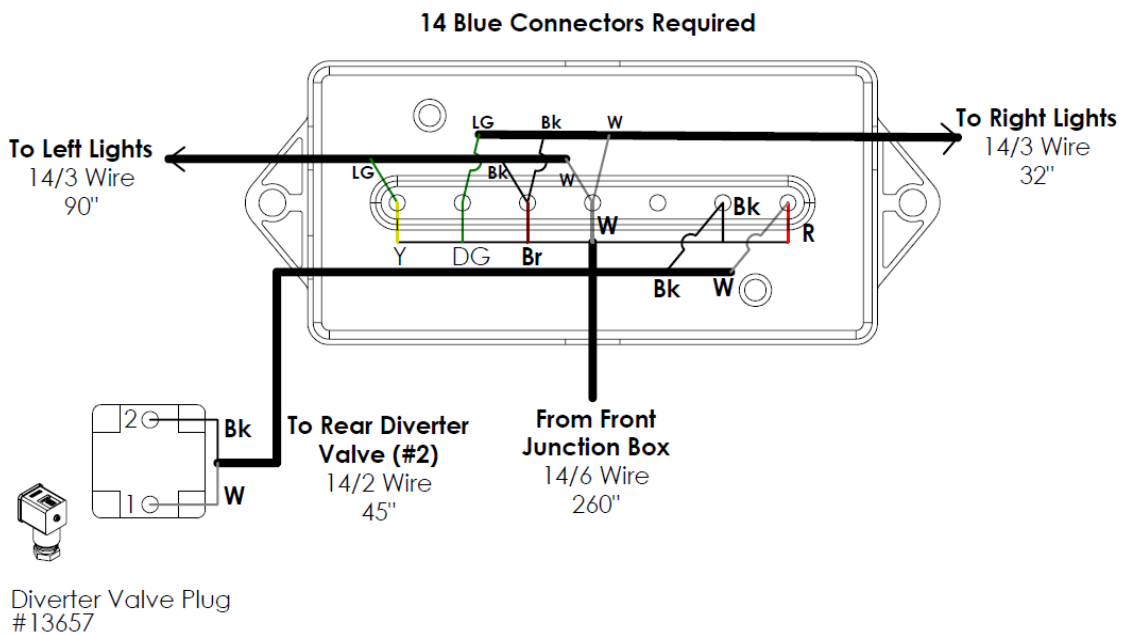
## Front Junction Box



**Legend:**

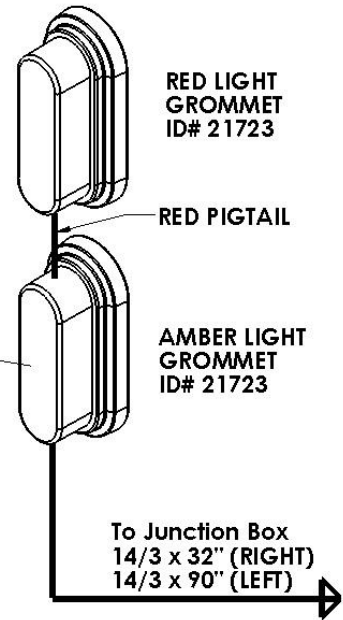
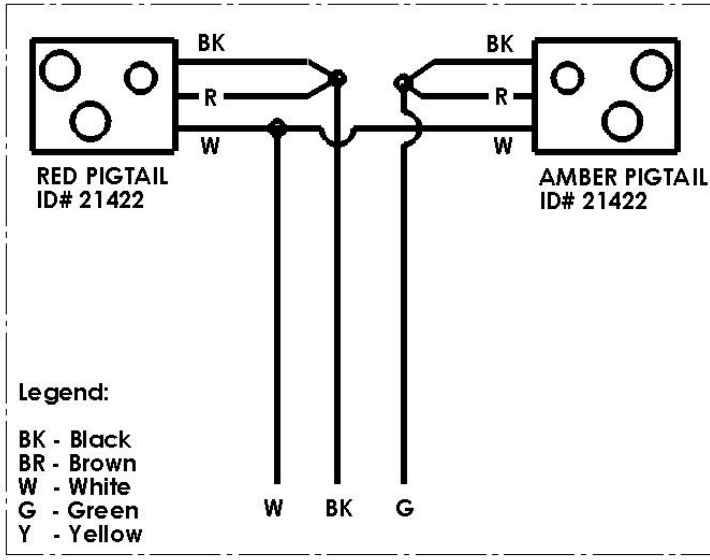
- Y - Yellow - Left Stop/Turn
- DG - Dark Green - Right Stop/Turn
- Br - Brown - Running Lights
- W - White - Ground
- LG - Light Green - Front Diverter Power
- Bk - Black - Diverter Power
- R - Red - Rear Diverter Ground

## Rear Junction Box





Route the pigtail from the red grommet into the amber grommet  
Bring the 14/3 wire into the bottom of the amber grommet  
Solder the pigtail connections together to the 14/3 wire  
Cover the connections with heat shrink





# NOTES

A series of horizontal dashed lines spanning the width of the page, intended for writing notes.