



BRIDGEVIEW MFG. INC.



BALE KING 5100/5100TR

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.


	<div>! WARNING</div> <div><p>Failure to read and understand operator's manual & all safety signs could result in serious injury. Manual must remain with machine.</p></div>
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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 5100. 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.

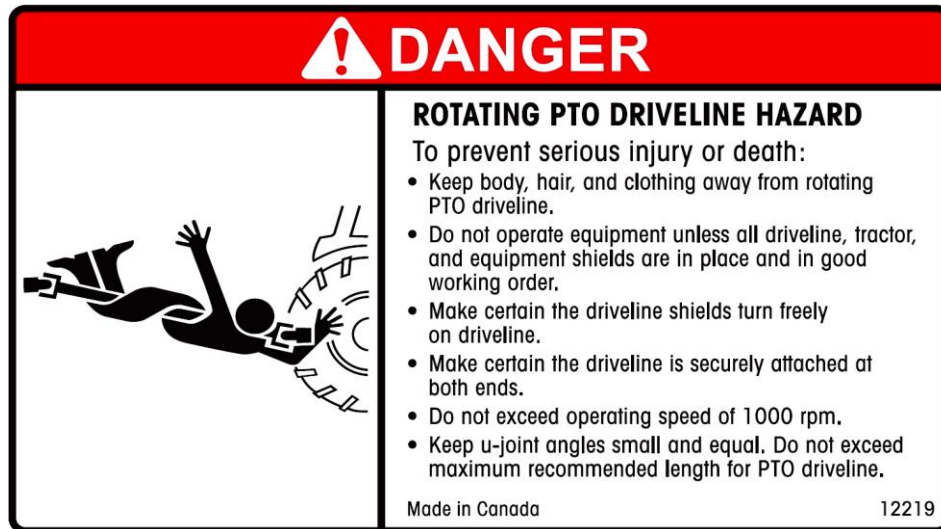
- **ALWAYS** turn **OFF** the tractor when leaving the operating platform.
- **DO NOT** stand in front of the discharge chute while the machine is running.
- **DO NOT** walk or move under the bale forks when they are in the upward position, unless the cylinder safety lock is in place.
- **DO NOT** enter 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.



399CEE072

399CEE051



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.*

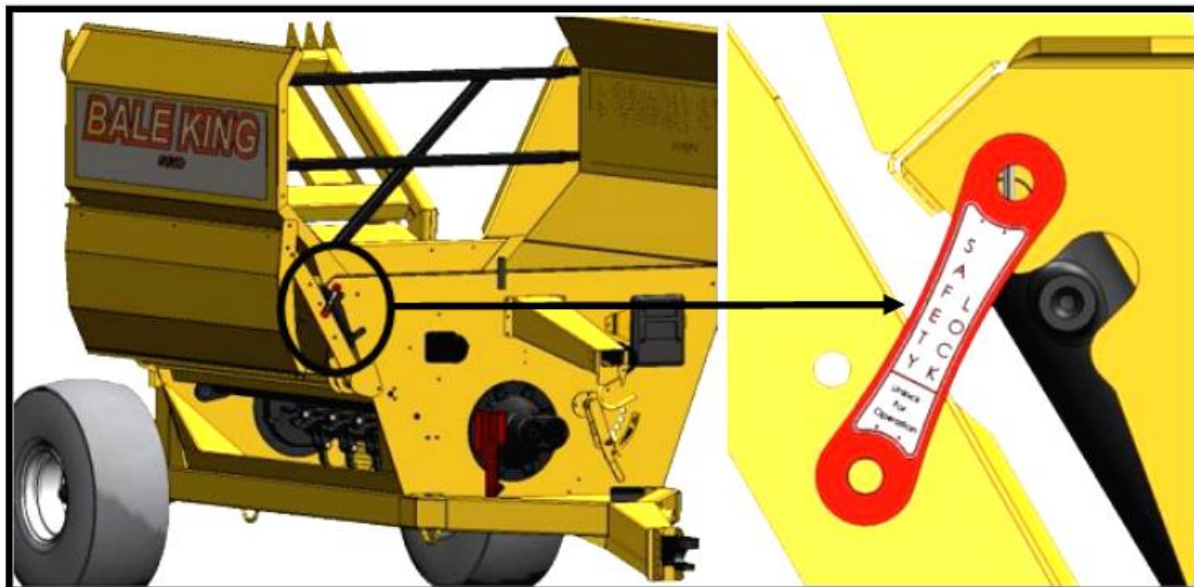


Rear Fork Lift Area



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 gearbox 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 processor is designed to use a minimum of **75 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" Grade 5**. 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.

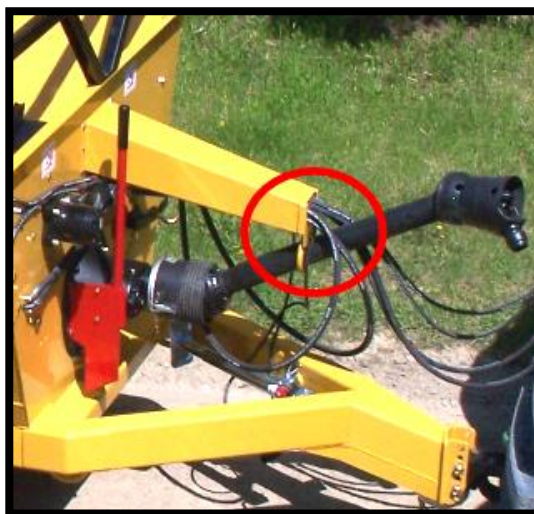
If your shear bolt is shearing excessively you may be over-loading the machine. If this occurs raise the grate assembly to make the machine less aggressive, or roll the bale more slowly. **Always ensure that your machine is running at 1000 PTO RPM.**

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.



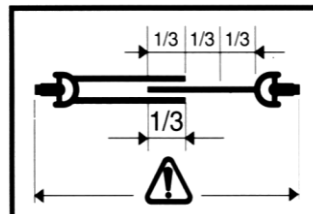
PTO Use and Maintenance

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.



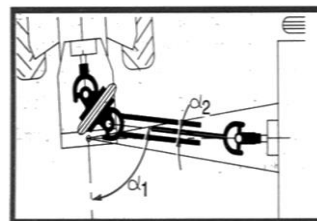
Shielding:

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



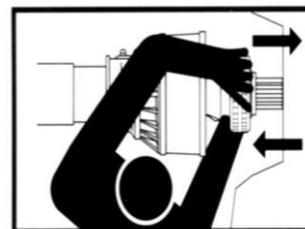
Working Angles:

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.

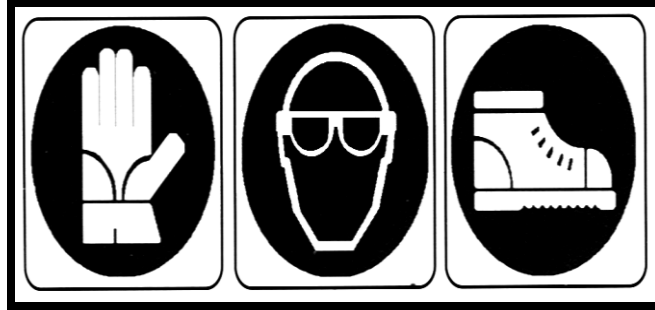


Storage:

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**



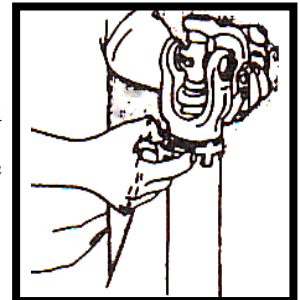
Shield Removal:

- 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.

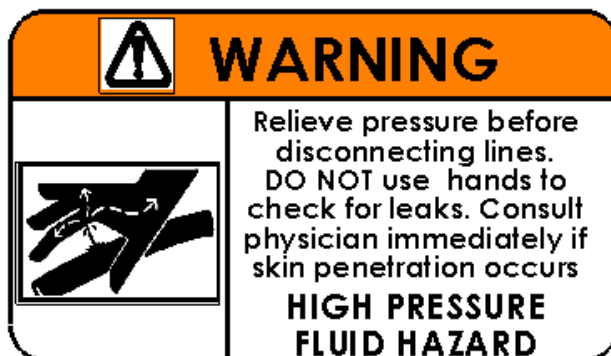




Hydraulics

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. Note that the hoses are paired by colour and the following tables show the operation when pushing oil into the hose with the longer marker.

5100 - 3 Remotes

Hose Marker	Function
Long Red	Turn agitators clockwise
Long Blue	Lift rear fork
Long Yellow	Lift discharge deflector

An optional diverter kit (**BMI # 25091**) is available to allow the Bale King 5100 to run using only two sets of hoses. The function is then determined by a control box, mounted in the cab of the tractor.

5100 - 2 Remotes

Hose Marker	Function
Long Red	Turn agitators clockwise
Long Blue	Lift rear fork or deflector

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.



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



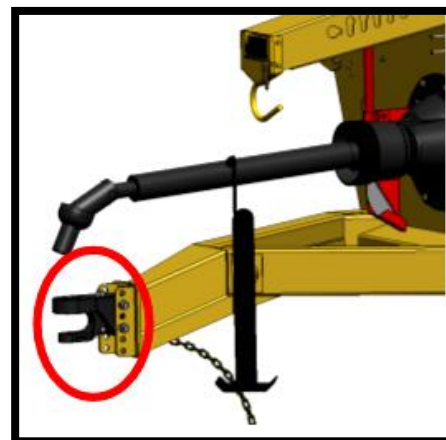
NOTE: *Always cover exposed cylinder shafts with grease to avoid rusting of shafts if the unit is not used for extended periods of time. Rusted cylinder shafts are NOT covered by warranty*

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



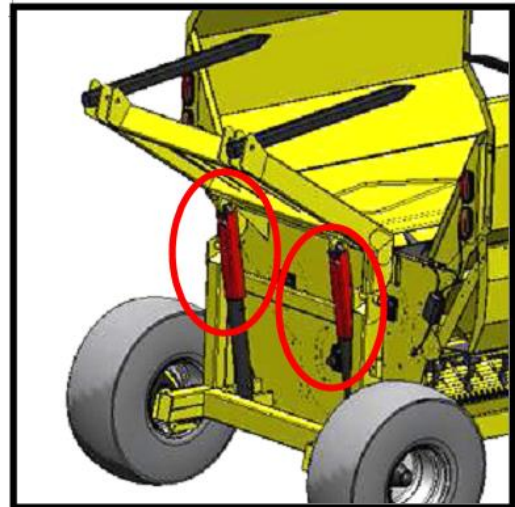
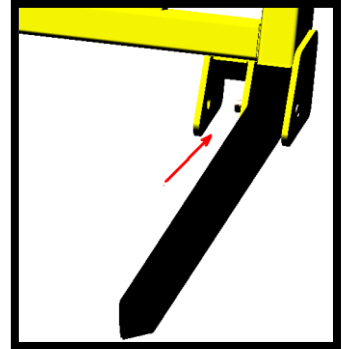
NOTE: Make sure that the jack in on the outside stub for lifting, and the inside stub during transport. DO NOT lift the machine with the jack on the inside stub.



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.

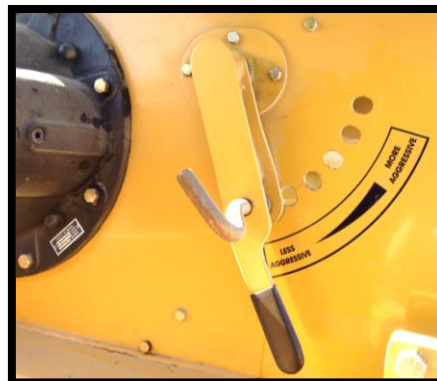




Hoop Grate Adjustment

There are six 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.**

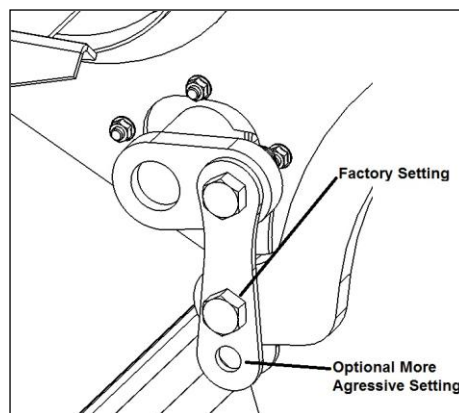
- **Position #1:** Highest grate setting for finest cut and slowest rate of feed. Used for tough processing feeds such as silage bales and some types of hay.
- **Position #2 - #5:** Normal operating range. Machine gets more aggressive as grate is lowered (handle moves “up”).
- **Position #6:** Lowest 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.

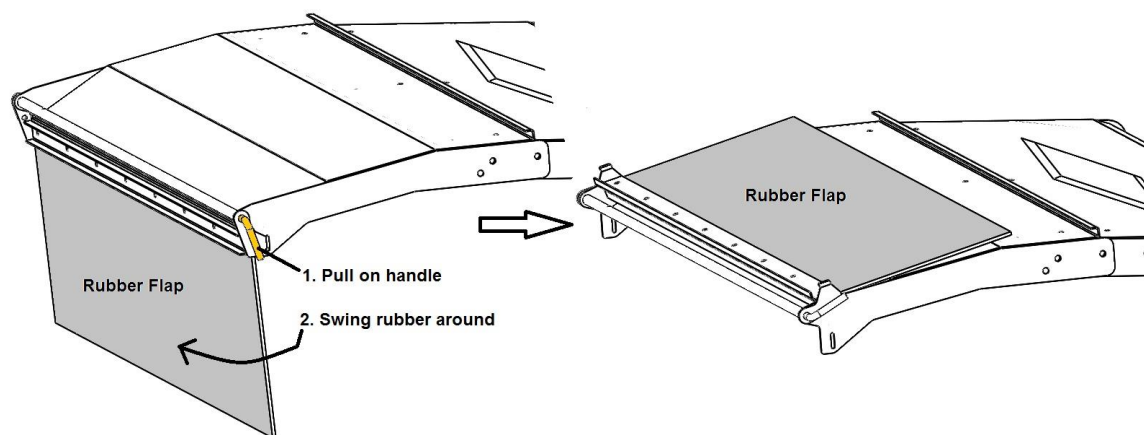


NOTE: Upper grate position should be approximately 1/4" flail recession. Lower grate position should allow 1-1/2" flail protrusion. Contact your Bale King dealer if this can't be achieved.



Deflector

The Bale King 5100 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.

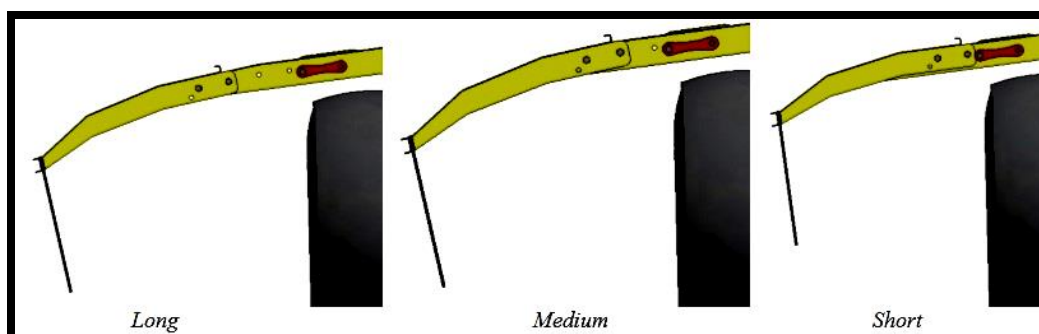


The Bale King 5100 deflector comes with the additional feature of adjustable width:

- 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.

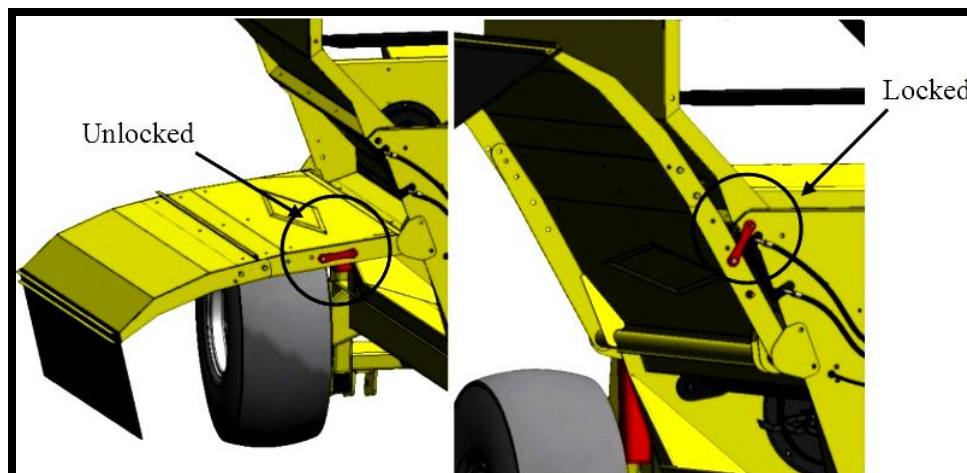
There are three different deflector length settings to accommodate your desired width:

	Bunk Feeding Width (Distance from Tire)	Transport Width Total (RHS, LHS)
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.

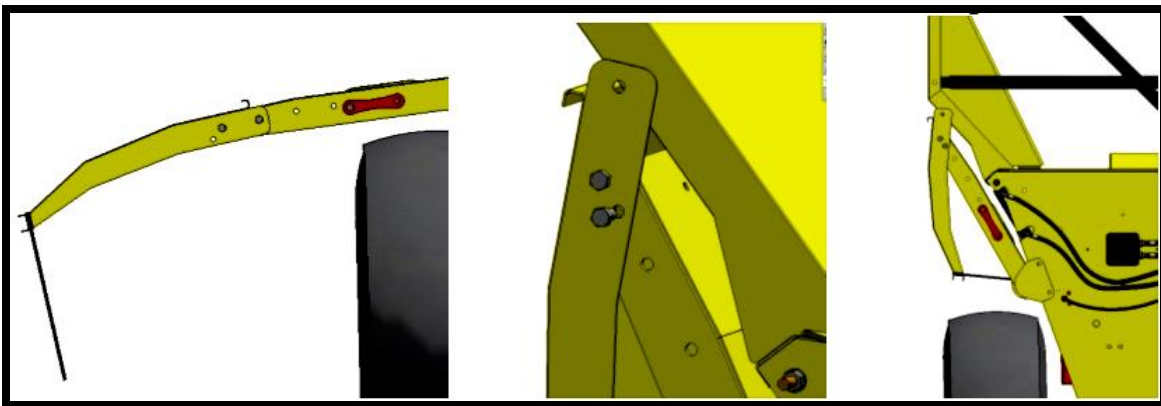
For transport and storage, the deflector lock should be put in place by swinging the lock as shown and fastening with a lynch pin.





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.

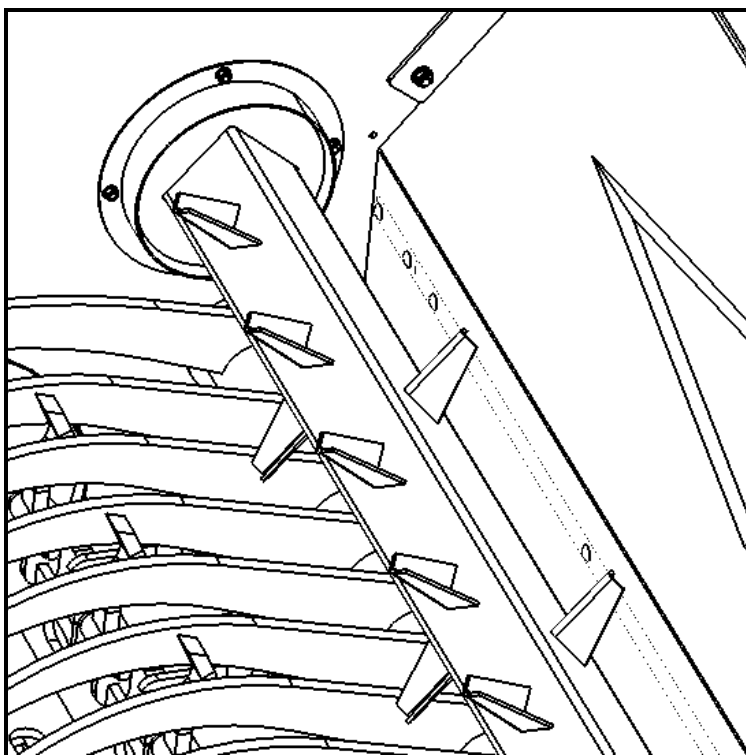


Agitators

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.
- 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.

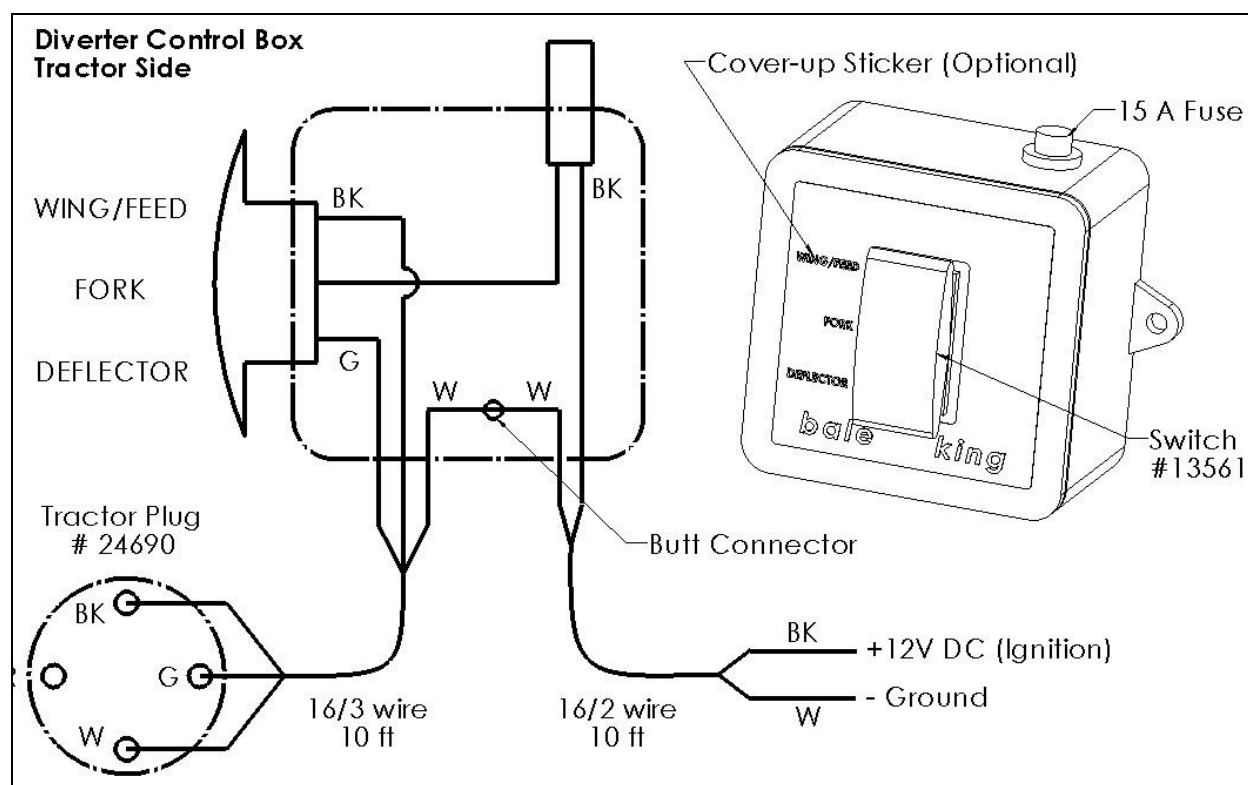
Note: Carry the bale as low as possible to lessen the stress on the cylinder shafts. Carrying the bale too high may bend hydraulic cylinder shafts.

- 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.



Optional Diverter Kit

The Bale King 5100 processor has an optional diverter kit (**BMI # 25091**) which allows it to operate using only 2 hydraulic remotes. The fork and deflector functions are then controlled by a cab-mounted switch box. This box must be wired up to the tractor's electrical system.



The diverter kit also features a pilot operated check valve to ensure that the deflector will not fall down due to leaking across the valve.

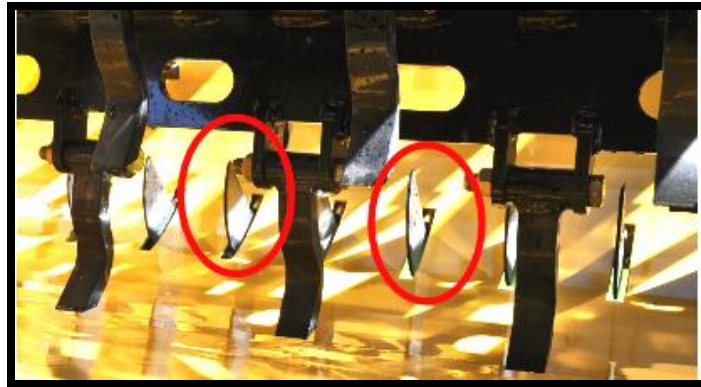
A 4-pin plug is used to power the diverter valve on the processor. If no power is supplied, the hydraulics will still control the rear forks, but the deflector will not be functional. If the switch in the tractor is activated, the deflector can be controlled. On 5100TR machines, this box can also control grain flow ("Feed").



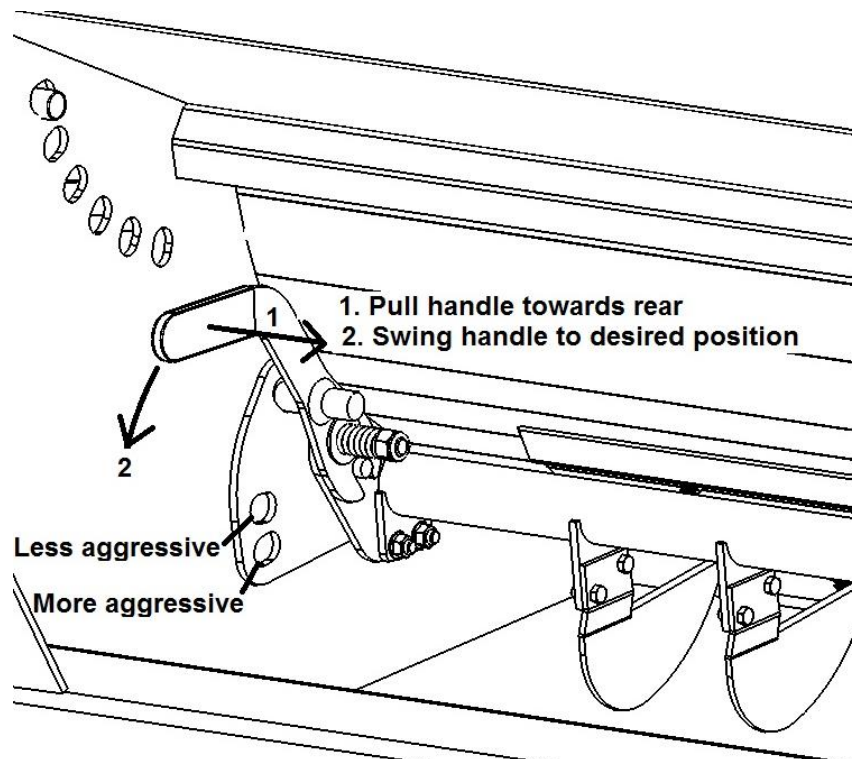
Optional Fine Chop Kit

The Bale King 5100 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.



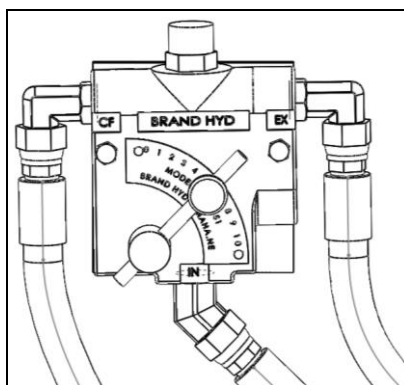


Optional Total Ration Grain Tank (5100TR)



The Bale King 5100 has an available 40 bushel grain tank, which allows grain to be discharged on top of a windrow of processed hay, or independently out the right side of the machine. This bolt-on kit changes the processor to a 5100TR (Total Ration).

The tank is located on the left side of the machine and features a large opening, 5 ft off the ground for easy filling. A flow control valve allows you to adjust the speed of the augers so that you can meter the grain flow for different situations. It is recommended to determine your desired rate based on driving speed and the flow rate of the tractor. Setting the valve to "0" will give no grain, while setting it to "10" will be full speed.



The grain tank has the option of running using two, three, or four sets of hoses. Each hose has a coloured marker to identify its function. They should be connected at best convenience for the tractor's controls. Note that the hoses are paired by colour and the following tables show the operation when pushing oil into the hose with the longer marker.



5100TR - 4 Remotes Set-up

Hose Marker	Function
Long Red	Turn agitators clockwise
Long Blue	Lift rear fork
Long Yellow	Lift discharge deflector
Long Green	Discharge grain

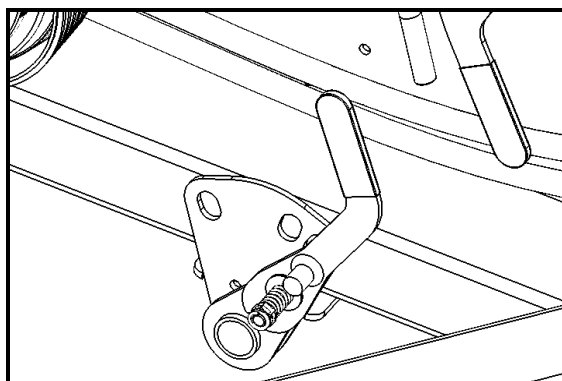
5100TR - 3 Remote Set-up

Hose Marker	Function
Long Red	Turn agitators clockwise
Long Blue	Lift rear fork or deflector
Long Green	Discharge grain

5100TR - 2 Remote Set-up

Hose Marker	Function
Long Red	Turn agitators clockwise
Long Blue	Lift rear fork or deflector, or discharge grain

If a Total Ration grain tank is installed with a fine chop kit, an adaptor (**BMI # 22042**) is available to move the handle to the front of the tub.



Cleanout doors are located at the bottom end of both the cross-auger, and the grain tank. It is recommended that both be cleaned out at the end of every season.

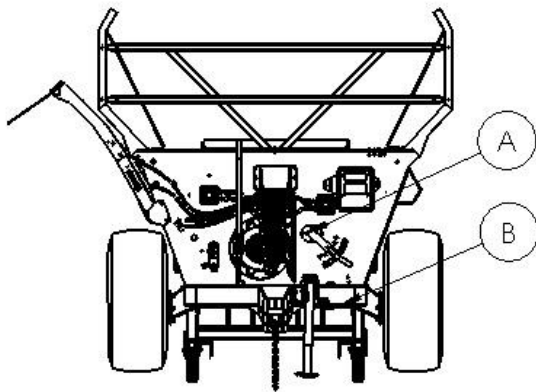


Lubrication and Maintenance

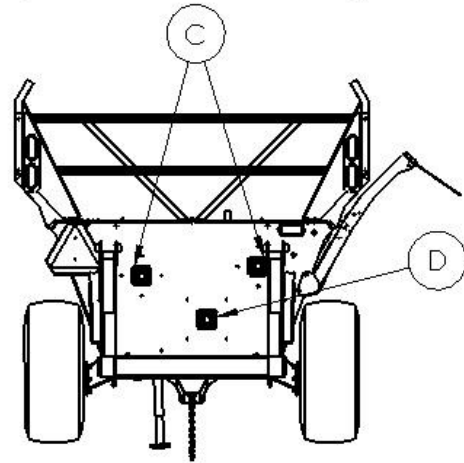
Lubricating the Bale King bale processor should be done on a regular basis.

	Location	Timeline
A	Hoop Handle	150 Bales or 8 hours whichever comes first
B	Fine Chop Handle Adaptor (5100TR Only)	
C	Agitator Bearings (x 2)	
D	Rotor Bearing	
E	Bale Fork Pivot (x 2)	
F	Wheel Hubs (x 2)	Seasonally (or 300 hours)

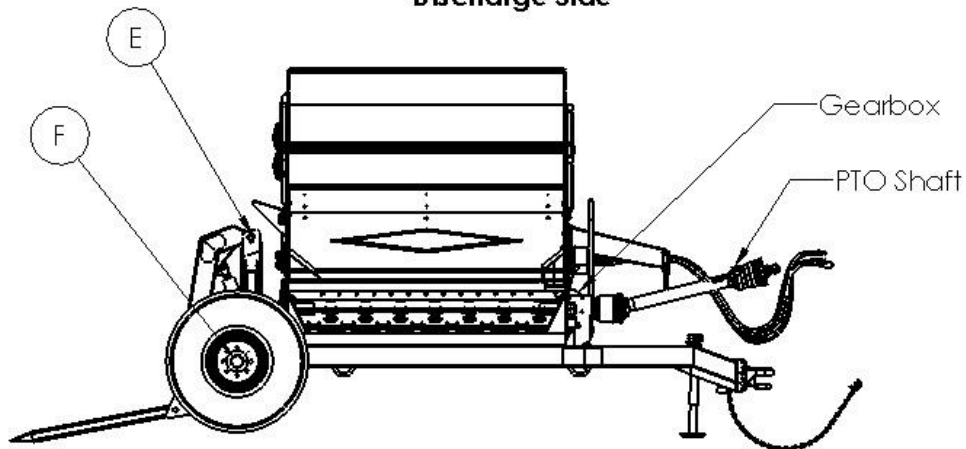
Front



Rear
(Fork Removed for clarity)



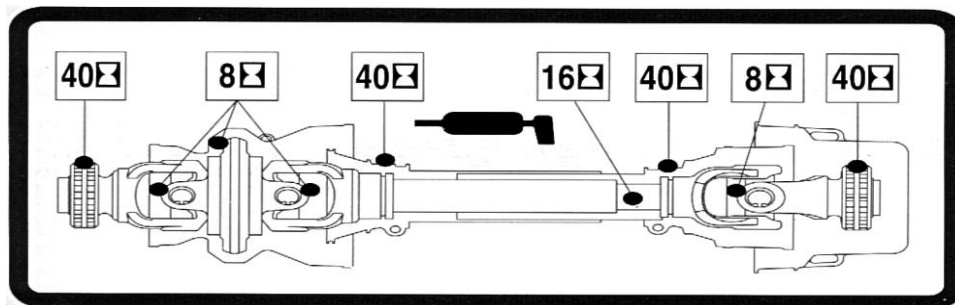
Discharge Side





PTO/Driveline

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



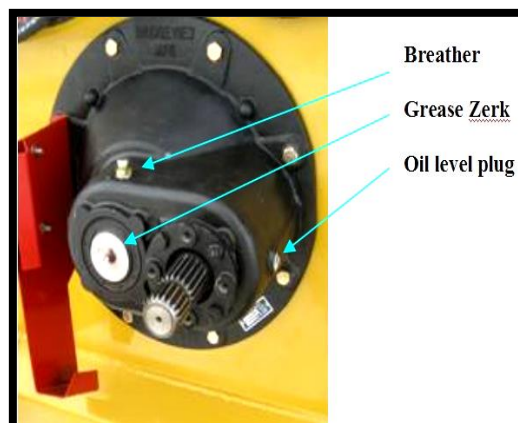
After storage for long periods of time, lubricate and check the function of every driveline component before operating.

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	24 psi
Replace any damaged or worn tires	16Lx16.1 6-ply
Check and tighten wheel bolts on a regular basis	125 ft.lb

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.*



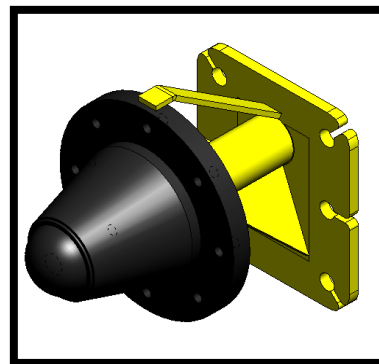
Note: Warranty does not cover damaged rims and hubs due to loose wheel bolts or flat tires. Tire warranty is covered by the tire manufacturer.



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.*

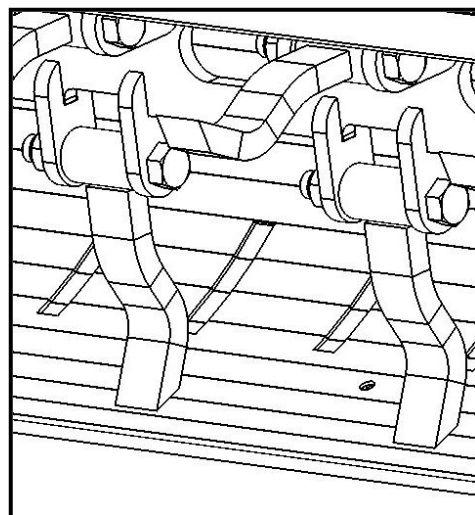


Rotor and Flail Replacement

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.



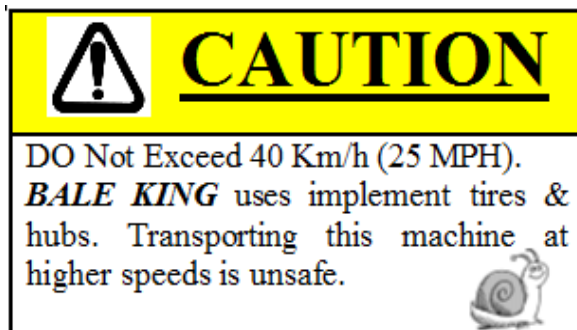


Transportation

The Bale King 5100 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 40 km/h (25 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
Excessive main shear bolt breakage	Engaging PTO at high engine speed or too quickly	<ul style="list-style-type: none"> • Idle tractor to engage PTO then bring up to full operating speed • Feather PTO lever into position
	Excessive twine wrapped on rotor causing flail movement to be restricted	<ul style="list-style-type: none"> • Cut twine off rotor
	Broken flails causing rotor to be out of balance	<ul style="list-style-type: none"> • Replace broken flails (in pairs opposite each other)
	Overloading rotor	<ul style="list-style-type: none"> • Set hoops to less aggressive position • Slow rotation of bale • Change direction of bale rotation
	Incorrect shear bolt used	<ul style="list-style-type: none"> • Use correct shear bolt
	Operating machine at less than 1000 PTO RPM	<ul style="list-style-type: none"> • Operate machine at rated 1000 PTO RPM
Excessive vibration while processing bales	Excessive twine wrapped on rotor causing flail movement to be restricted	<ul style="list-style-type: none"> • Cut twine off rotor
	Broken flails causing rotor to be out of balance	<ul style="list-style-type: none"> • Replace broken flails (in pairs opposite each other)
	Overloading rotor	<ul style="list-style-type: none"> • Set hoops to less aggressive position • Slow rotation of bale • Change direction of bale rotation
	Operating machine at less than 1000 PTO RPM	<ul style="list-style-type: none"> • Operate machine at rated 1000 PTO RPM
	Rotor bearing failure	<ul style="list-style-type: none"> • Replace failed parts
Agitators stopping	Excessive loose material in tub causing agitator to jam	<ul style="list-style-type: none"> • Reverse direction of bale rotation • Turn bale more slowly
	Tractor relief pressure set too low	<ul style="list-style-type: none"> • Set tractor relief pressure to at least 2500 PSI
A single agitator stopping	Mechanical flow divider valve not functioning correctly	<ul style="list-style-type: none"> • Contact your dealer for repairs
	Coupler between motor and agitator broken	<ul style="list-style-type: none"> • Replace failed parts
No grain Flow	Flow control valve set too low	<ul style="list-style-type: none"> • Increase flow rate in tractor or on flow control valve



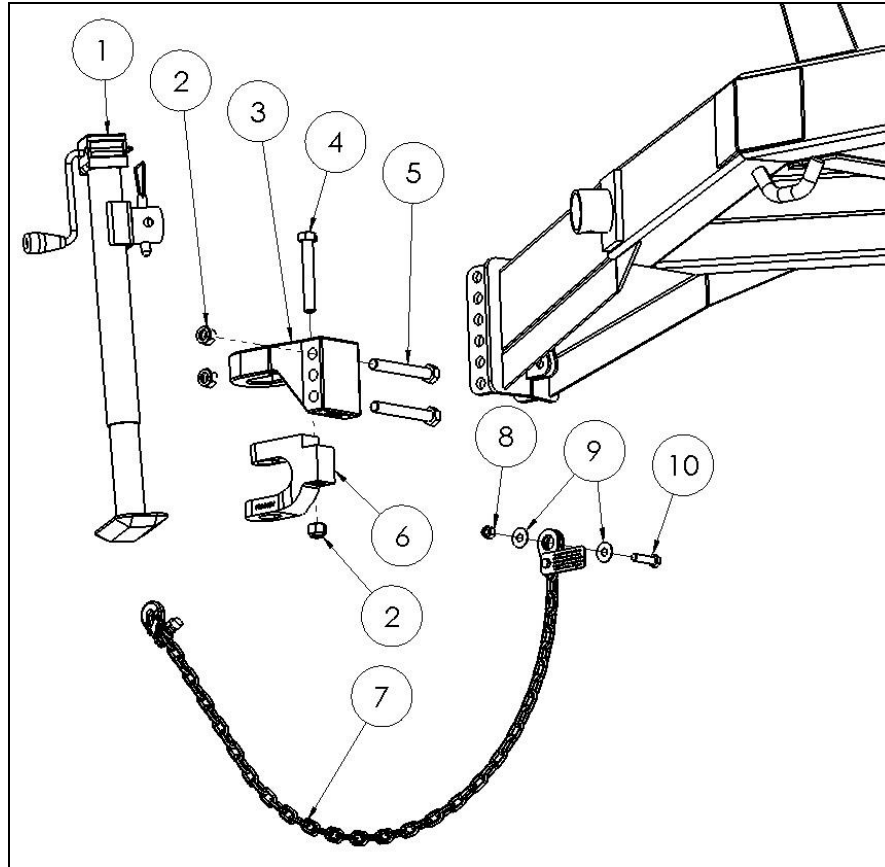
Features and Specifications

Dimensions:	5100	5100TR
Overall Weight	4400 lb	5240 lb
Drawbar Weight	1250 lb	1600 lb
Overall Height	105 in.	105 in.
Overall Length (Forks Up)	187 in.	187 in.
Overall Length (Forks Down)	217 in.	217 in.
Overall Width (Deflector Folded)	102 in.	125 in.
Overall Width (Deflector Up)	112 in.	125 in.
Overall Width (Deflector Down)	135 in.	145 in.
Tread Width (on centers)	78 in.	86 in.
Grain Tank Capacity		40 bushels
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 6 in. Tubing	
Frame Width	52 in.	
Heavy Duty Square Jack	Mounted on Frame	
Heavy Duty Bale Fork Frame	3 x 6 in. Tubing	
Adjustable Bale Fork Width (on centers)	48 in. or 40.5 in.	
Adjustable Hitch Height	4 settings at 1.5 in. intervals	
Spring Lock Lever on Grate and Fine Chop Adjusters		
Dual Hydraulic Lift Cylinders	3" x 18" x 1-1/2" Rod	
Single Hydraulic Deflector Cylinder	1-1/2" x 6" x 3/4" Rod	
Tire Size	16L x 16.1 6 Ply	
Tire Inflation	24 psi	
Wheel Nut Torque	125 ft-lb	
Minimum Horse Power Requirements	75 HP	
Required Number of Hydraulic Remotes	2 or 3 (5100) 2, 3 or 4 (5100TR)	
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.	
Oil Impregnated Bushing in Flails		
Rotor Shaft	1-15/16" Bearing	
Agitator Shaft	1-3/4" Bearings	
Disc Type Twine Guard		
PTO Shaft	Weasler: Cat. 6 80 deg. C.V.	
Shear Bolt	3/8 x 2" Gr. 5	
Gearbox Oil	GL5 80W90	
Gearbox Oil Capacity	500 mL	



PARTS MANUAL

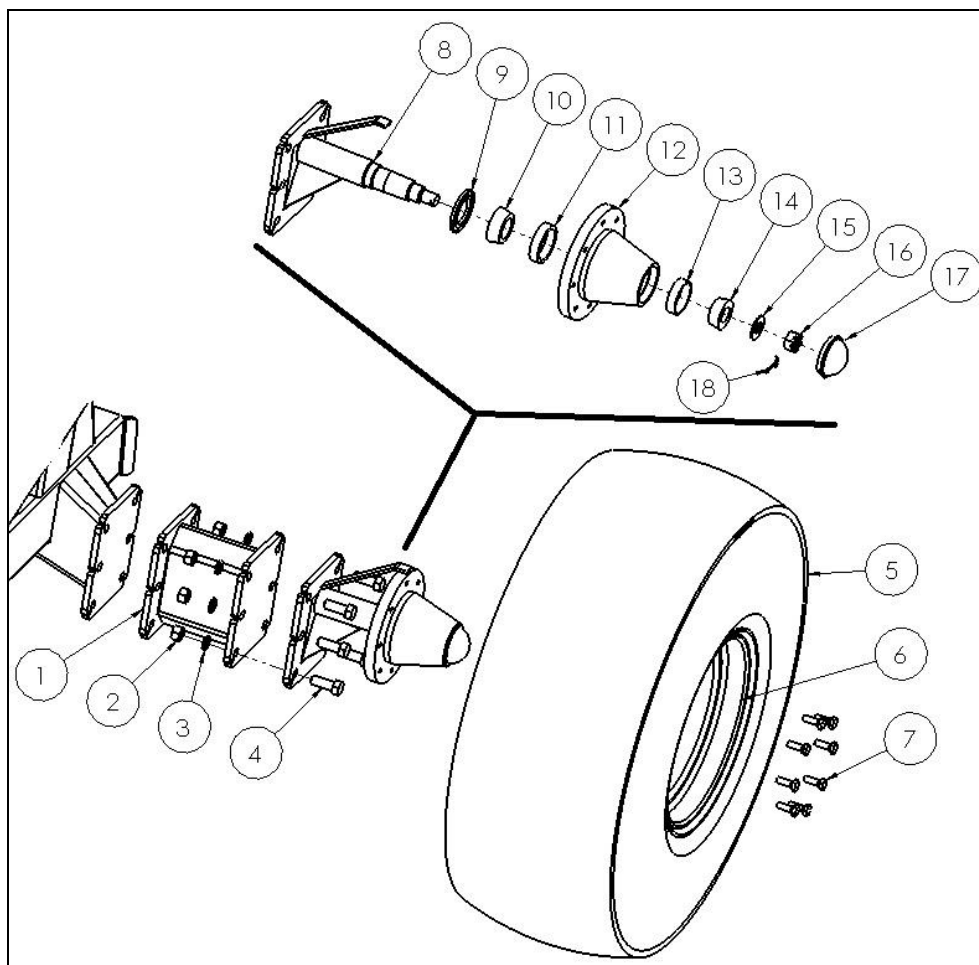
Jack & Hitch



#	DESCRIPTION	PART #	QTY
1	Jack, 5000 lb * Comes with pin *	22166	1
2	Nut, 3/4" Stover Lock	11823	3
3	Hitch Tongue	22440	1
4	Bolt, 3/4" x 5"	10803	1
5	Bolt, 3/4" x 5-3/4"	10802	2
6	Hitch Clevis	22441	1
7	Safety Chain, 11000lb x 53"	21715	1
8	Nut, 1/2" Nylon Lock	10241	1
9	Flat Washer, 1/2"	11668	2
10	Bolt, 1/2" x 2"	10322	1



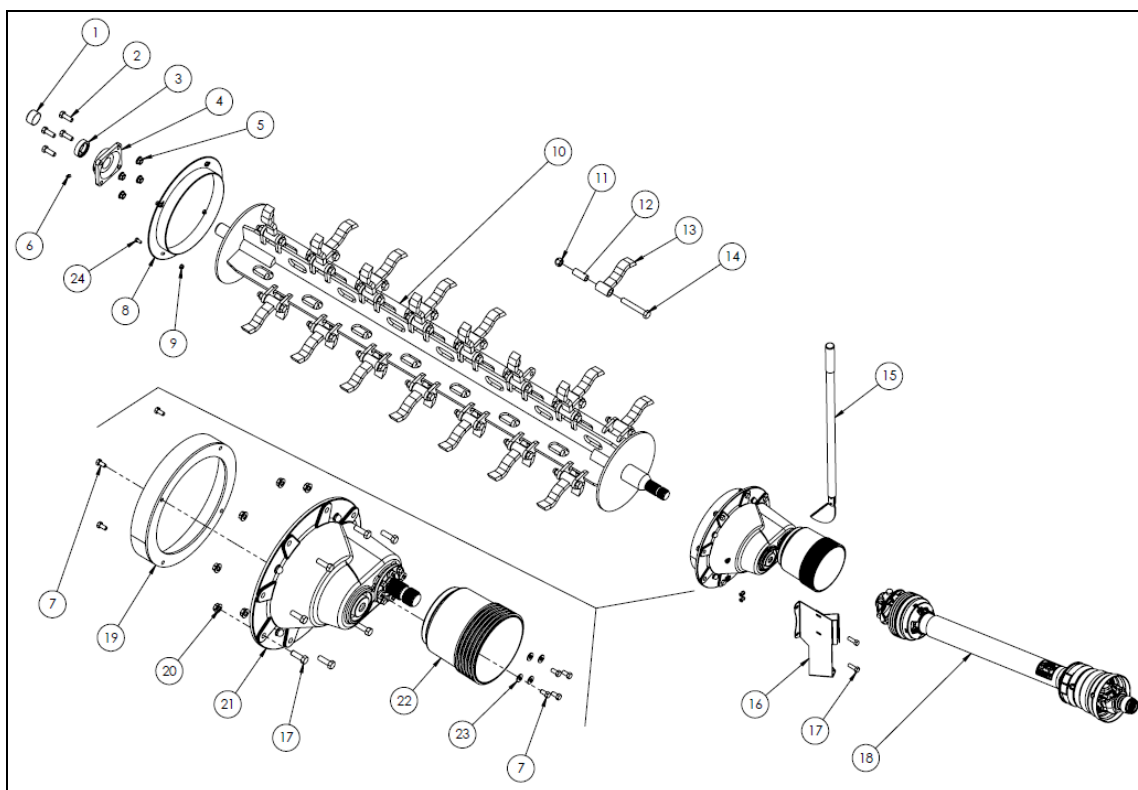
Wheels & Hub



#	DESCRIPTION	PART #	QTY 5100	QTY 5100TR
1	8 Inch Axle Extension * TR Only *	24969		1
2	Nut, 3/4"	10283	12	18
3	Lock Washer, 3/4"	10284	12	18
4	Bolt, 3/4" x 2"	13800	12	18
5	Tire, 16L-16.1 6 ply * See your local tire dealer *	-	2	2
6	Rim, 16.1x14, 8 on 8"	10354	2	2
7	Wheel Stud, 9/16" x 1-3/4" NF	10347	16	16
8	Spindle Plate	22434	2	2
9	Seal, 2" ID	10344	2	2
10	Inner Bearing Cone, 1-3/4" ID	10345	2	2
11	Inner Bearing Race	10349	2	2
12	Hub Housing * Includes #11 & #13 *	10343	2	2
13	Outer Bearing Race	10346	2	2
14	Outer Bearing Cone, 1-3/8" ID	10348	2	2
15	Flat Washer, 1-1/6" ID x 2" OD	10071	2	2
16	Castle Nut, 1" NF	10153	2	2
17	Dust Cap	10350	2	2
18	Cotter Pin, 3/16" x 1-1/2"	10072	2	2



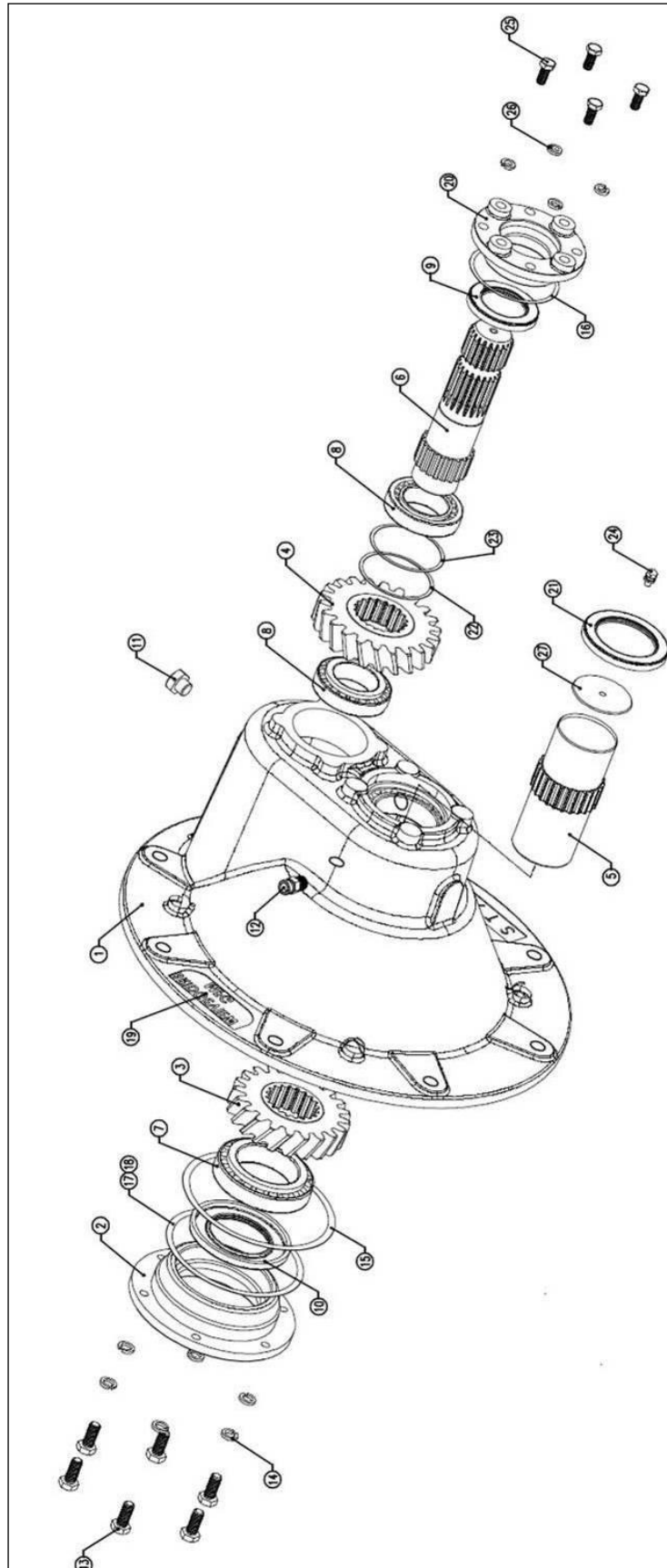
Rotor & Drive Components



#	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	8
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
15	Twine Cutter Handle * See Breakdown *	-	1
16	Twine Cutter Holder * See Breakdown *	-	1
17	Bolt, 1/2" x 1-1/2"	10174	8
18	PTO Shaft * See Breakdown *	-	1
19	Gearbox Twine Guard	23002	1
20	Nut, 1/2" Serrated Flange	10273	8
21	Gearbox Assembly * See Breakdown *	-	1
22	PTO Safety Shield	10421	1
23	Flat Washer, 3/8"	11667	4
24	Bolt, 3/8 x 1"	13806	4



Gearbox





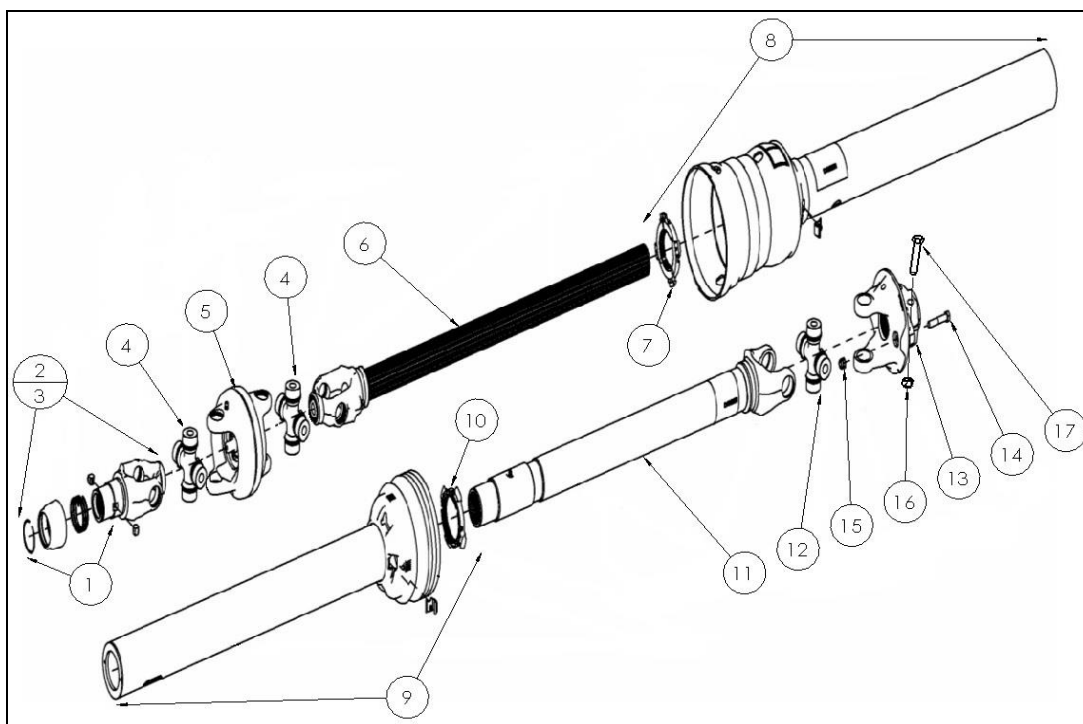
Gearbox

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

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

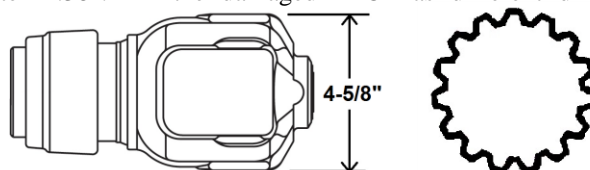


PTO Shaft



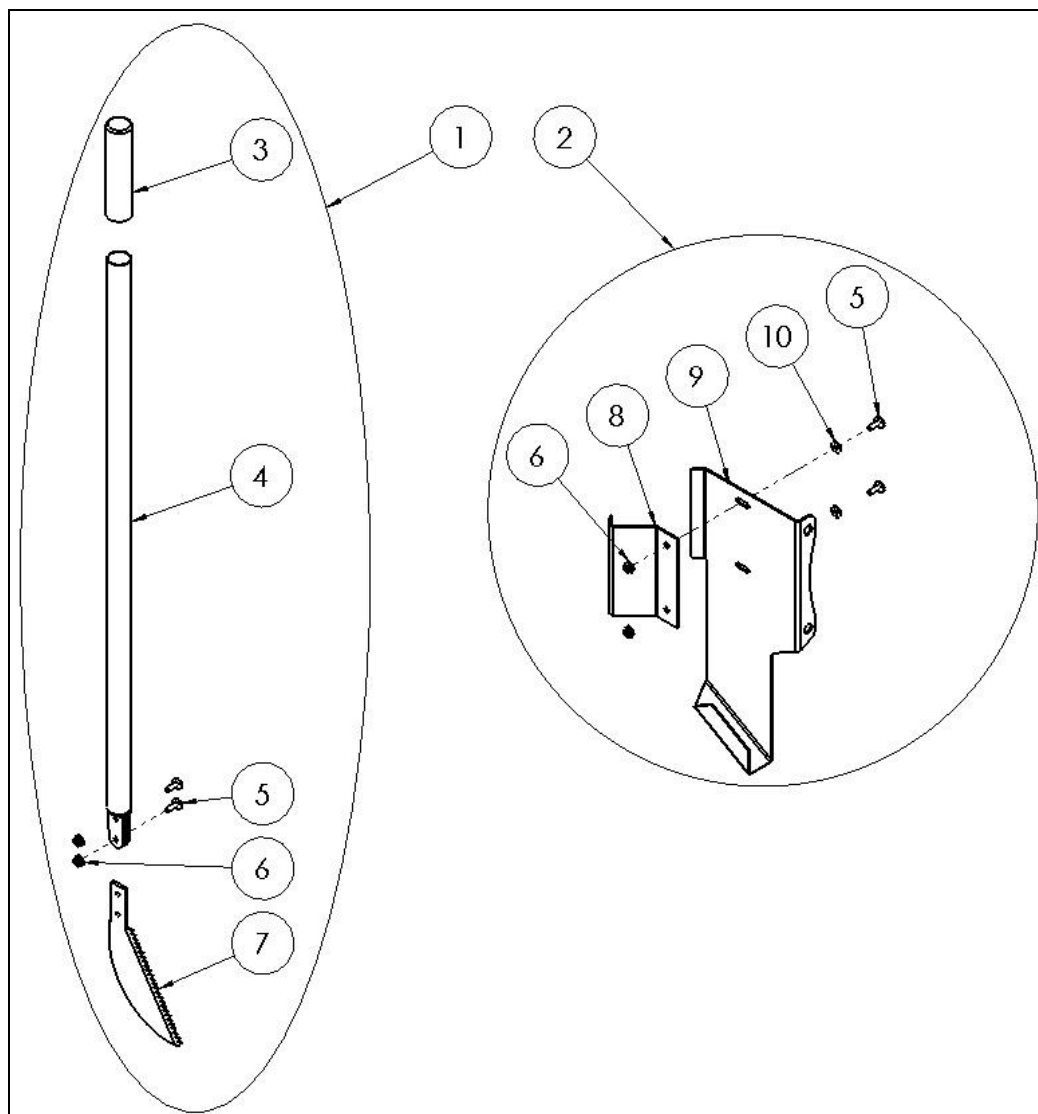
#	DESCRIPTION	PART #	QTY
	Complete PTO Shaft Assembly (1-3/8")	20546	1
1a	Safety Slide Lock Repair Kit (1-3/8"-21 Spline)	17567	(1)
1b	Safety Slide Lock Repair Kit (1-3/4"-20 Spline)	24981	(1)
2	WWCV Auto-Lok Yoke Assembly (1-3/8"-21 Spline)	20549	(1)
3	WWCV Auto-Lok Yoke Assembly (1-3/4"-20 Spline)	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"	11817	1
15	Nut, 3/8" Stover Lock	17586	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.





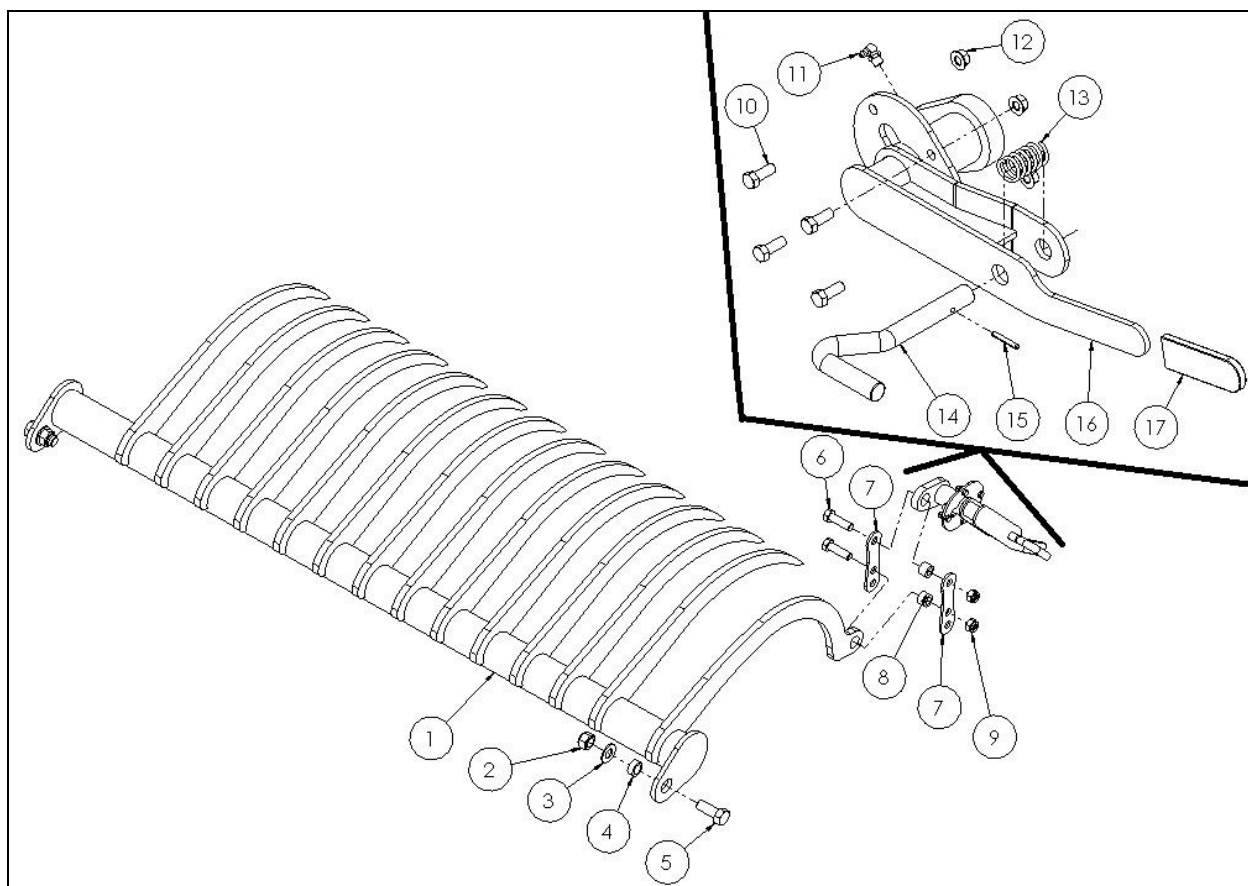
Twine Cutter



#	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



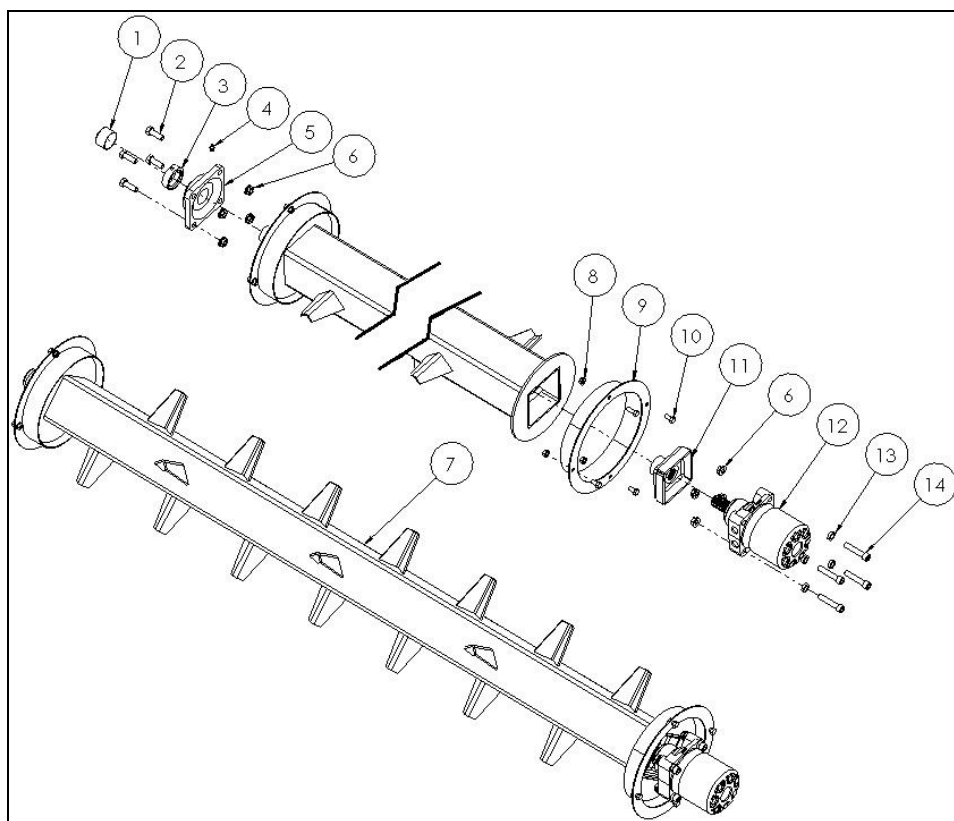
Grates



#	DESCRIPTION	PART #	QTY
1	Grate Assembly	22414	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	Bolt, 3/8" x 1"	13806	4
11	Grease Zerk, 1/4"-28 x 90 degree	16389	1
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	Grate Adjust Handle	22023	1
17	Rubber Cover	10297	1



Agitators

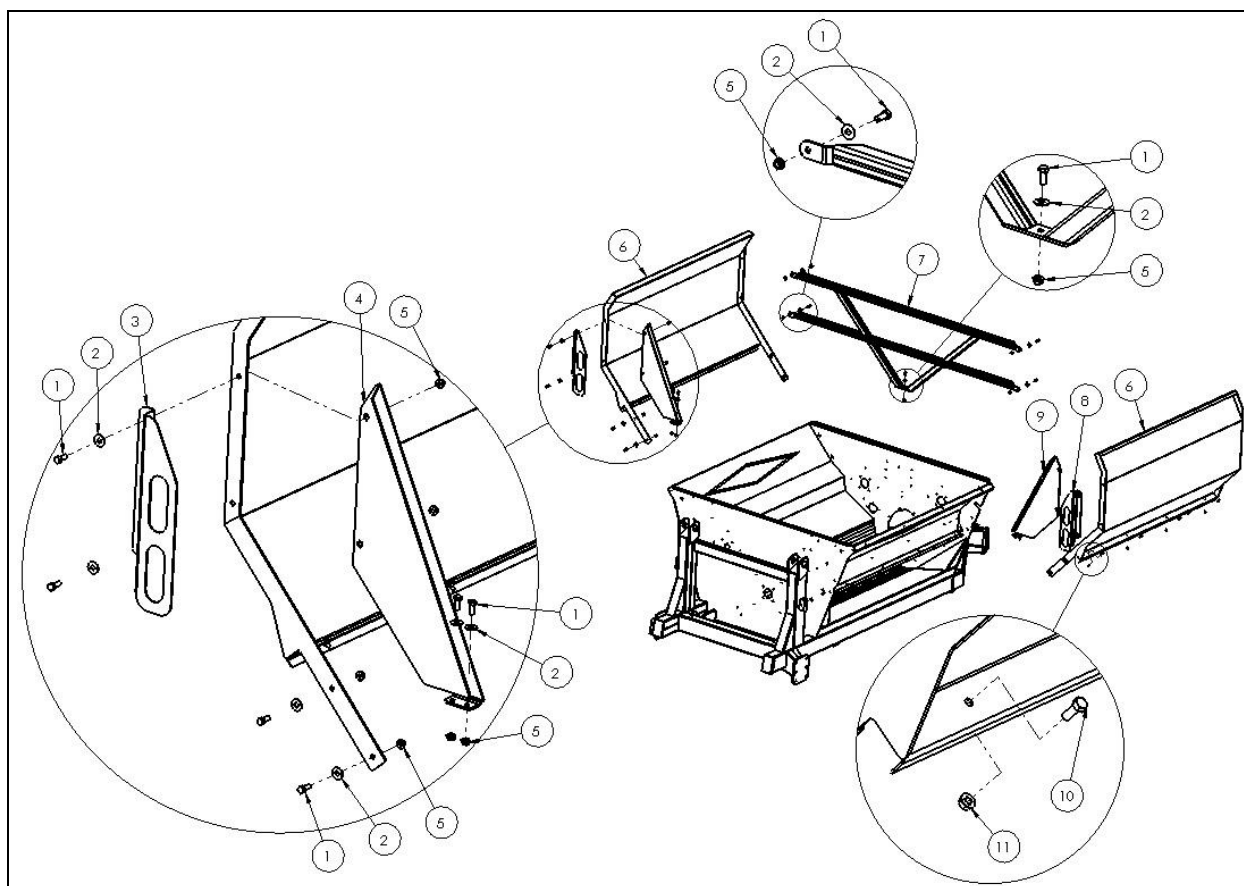


#	DESCRIPTION	PART #	QTY 5100	QTY 5100TR
1	Agitator Shaft Cap	17381	2	2
2	Bolt, 1/2" x 1-1/2"	10174	8	8
3	Lock Collar	10040	2	2
4a	Grease Zerk, 1/8" NPT Straight	10270	2	1
4b	Grease Zerk, 1/8" NPT 45 degree * TR Only *	15640		1
5	Agitator Bearing * Includes # 3 & 4a *	10038	2	2
6	Nut, 1/2" Serrated Flange	10273	8	8
7	Agitator	22418	2	2
8	Nut, 3/8" Serrated Flange	10271	16	16
9	Agitator Twine Guard	22419	4	4
10	Bolt, 3/8" x 3/4"	11816	16	16
11	Agitator Insert	22084	2	2
12	Agitator Motor, 8" Long (S/N BK6416 & up) * Seal Kit Agitator Motor, 6-1/2" Long (S/N BK6415 & below) # * Seal Kit	25872 25891 21720 22820	2	2
13	Lock Washer, 1/2"	14447	8	8
14	Socket Head Bolt, 1/2" x 3" (S/N BK6416 & up) Socket Head Bolt, 1/2" x 2-1/2" (S/N BK6415 & below)	25952 16863	8	8

NOTE: Check the serial number (S/N) of your machine before ordering.



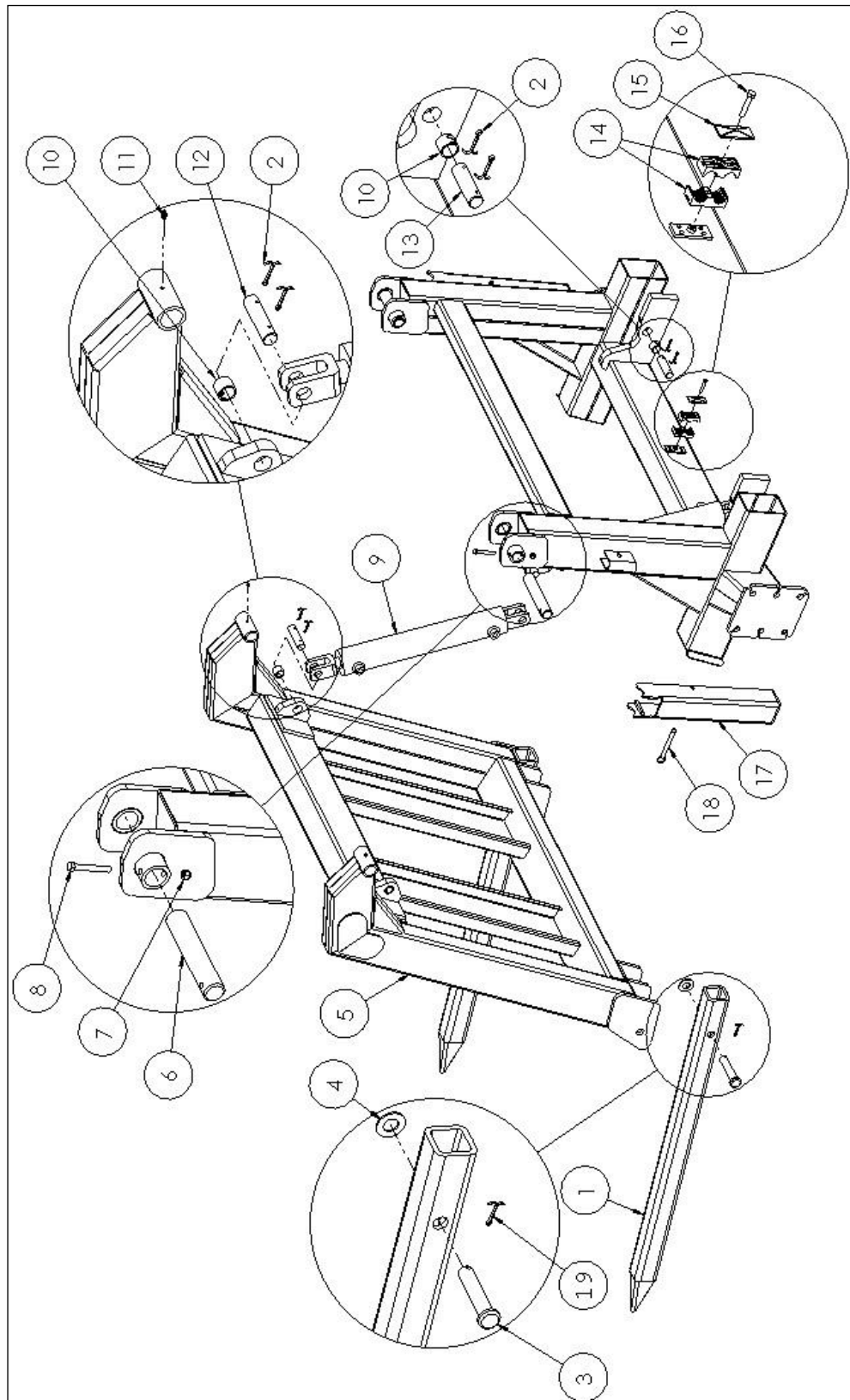
Wings & Front Rack



#	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



Rear Forks



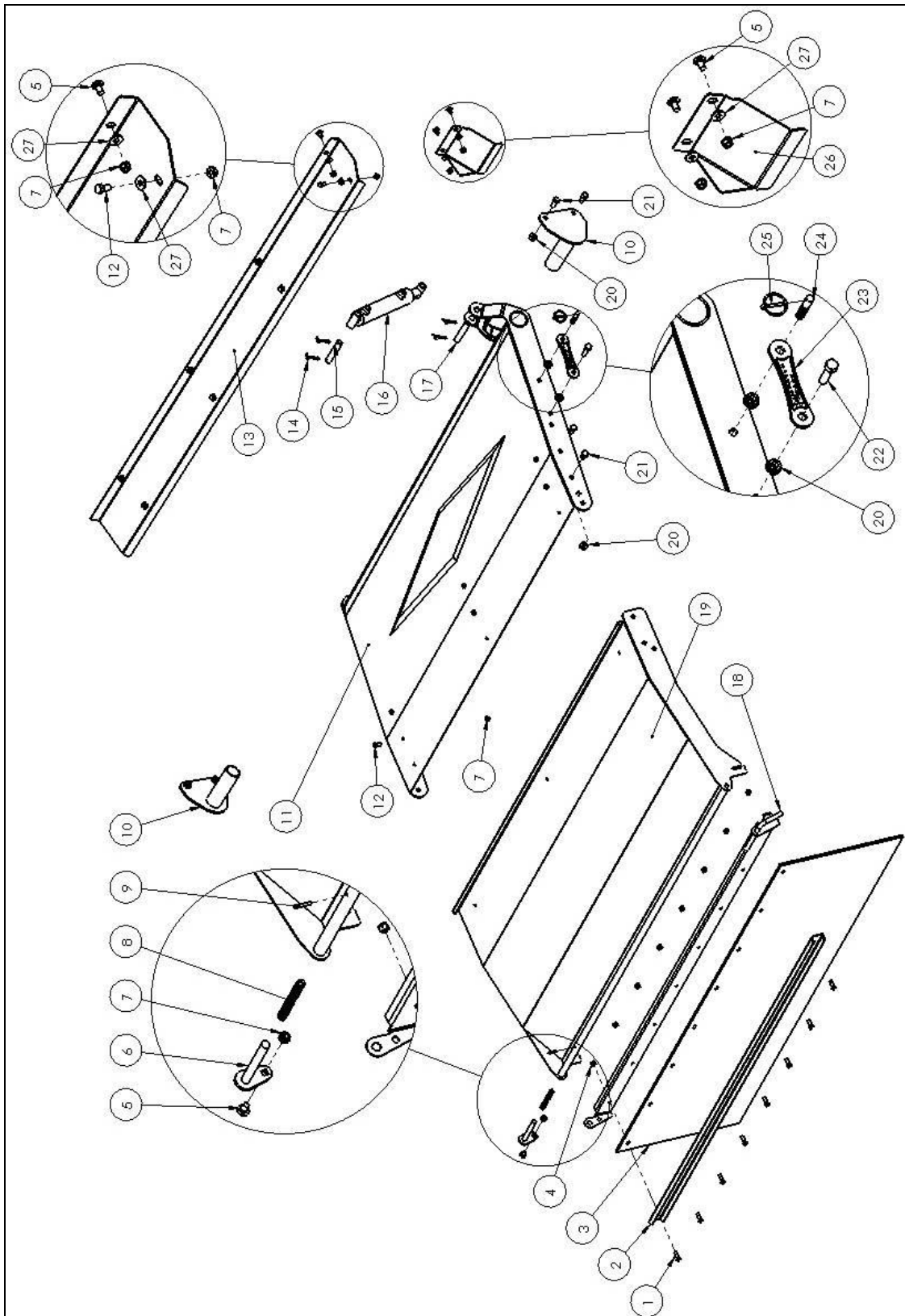


Rear Forks

#	DESCRIPTION	PART #	QTY
1	Fork Tine	22421	2
2	Cotter Pin, 3/16" x 1-1/2"	10072	8
3	Fork Tine Pin	10031	2
4	Flat Washer, 1"	14472	2
5	Rear Fork Frame	22420	1
6	Rear Fork Pivot Pin	22006	2
7	Nut, 3/8" Nylon Lock	10806	2
8	Bolt, 3/8" x 2-3/4"	20908	2
9	Hydraulic Cylinder, 3" x 18" x 1-1/2" * Seal Kit	21717 20807	2
10	Bushing Insert, 1"	23708	4
11	Grease Zerk	16364	2
12	Cylinder Pin, 1" x 4-1/16"	22190	2
13	Cylinder Pin, 1" x 3-1/2"	10339	2
14	Hydraulic Hose Clamp	21561	2
15	Hydraulic Hose Clamp Cap	21725	1
16	Bolt, 5/16" x 1-3/4"	21726	1
17	Cylinder Safety Lock	21860	2
18	Quick Pin	21709	2
19	Cotter Pin, 1/4" x 2"	10580	2



Deflector & Hose Cover





Deflector & Hose Cover

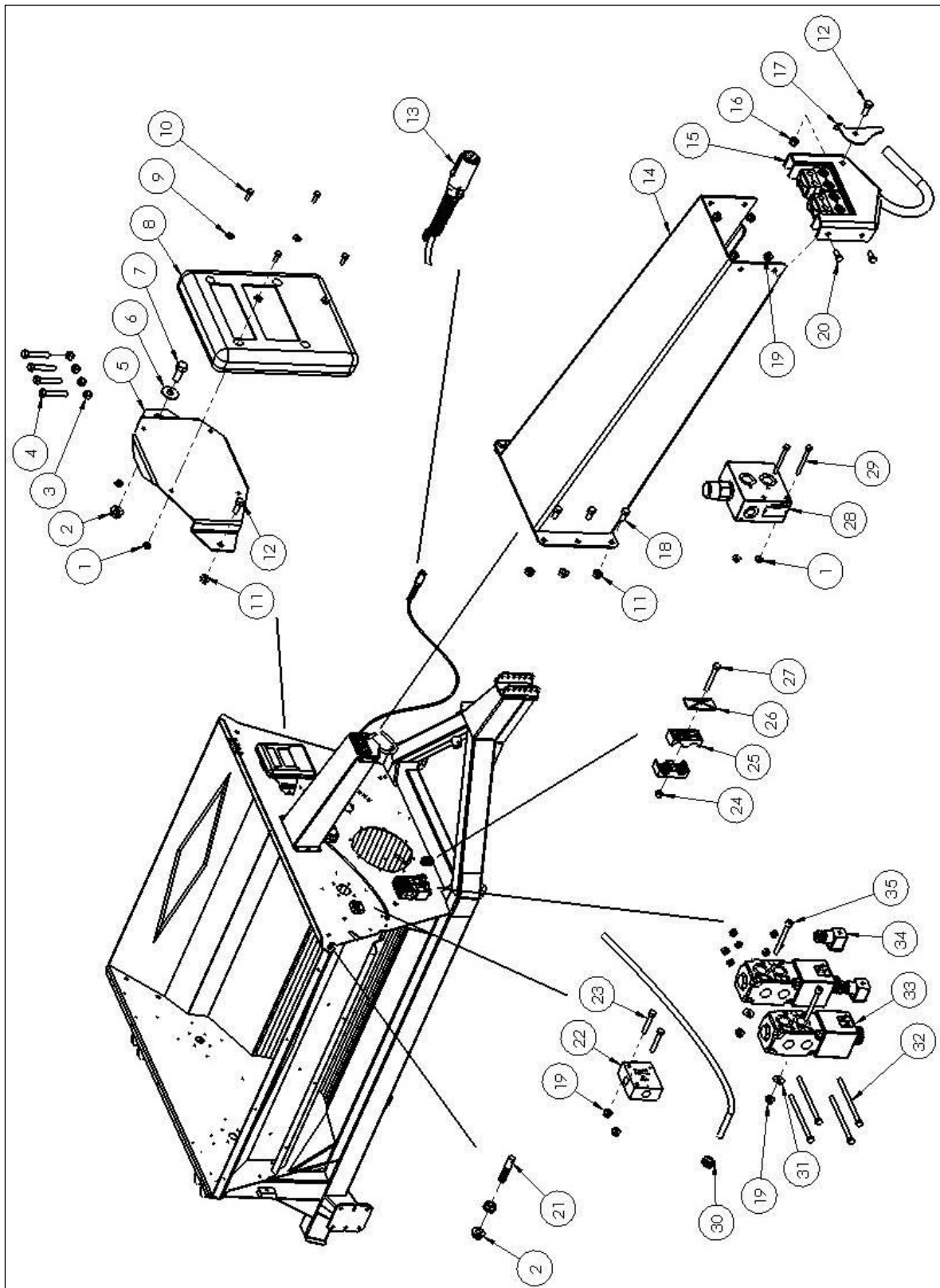
#	DESCRIPTION	PART #	QTY
1	Bolt, 3/8" x 1"	13806	8
2	Deflector Rubber Channel	22423	1
3	Deflector Rubber	10477	1
4	Nut, 3/8" Nylon Lock	10806	8
5	Carriage Bolt, 3/8" x 3/4"	14072	7
6	Deflector Flipper Pin	24464	1
7	Nut, 3/8" Serrated Flange	10271	20
8	Compression Spring	24461	1
9	Roll Pin, 3/16" x 1-1/4"	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 Outer Deflector - Rigid #	24462 25078	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

NOTE: For machines with a rigid rubber deflector, order kit **#25078** to upgrade to a flip-style deflector.

@ NOTE: For machines without a front cover, order kit **#23220**



Front Tub Components





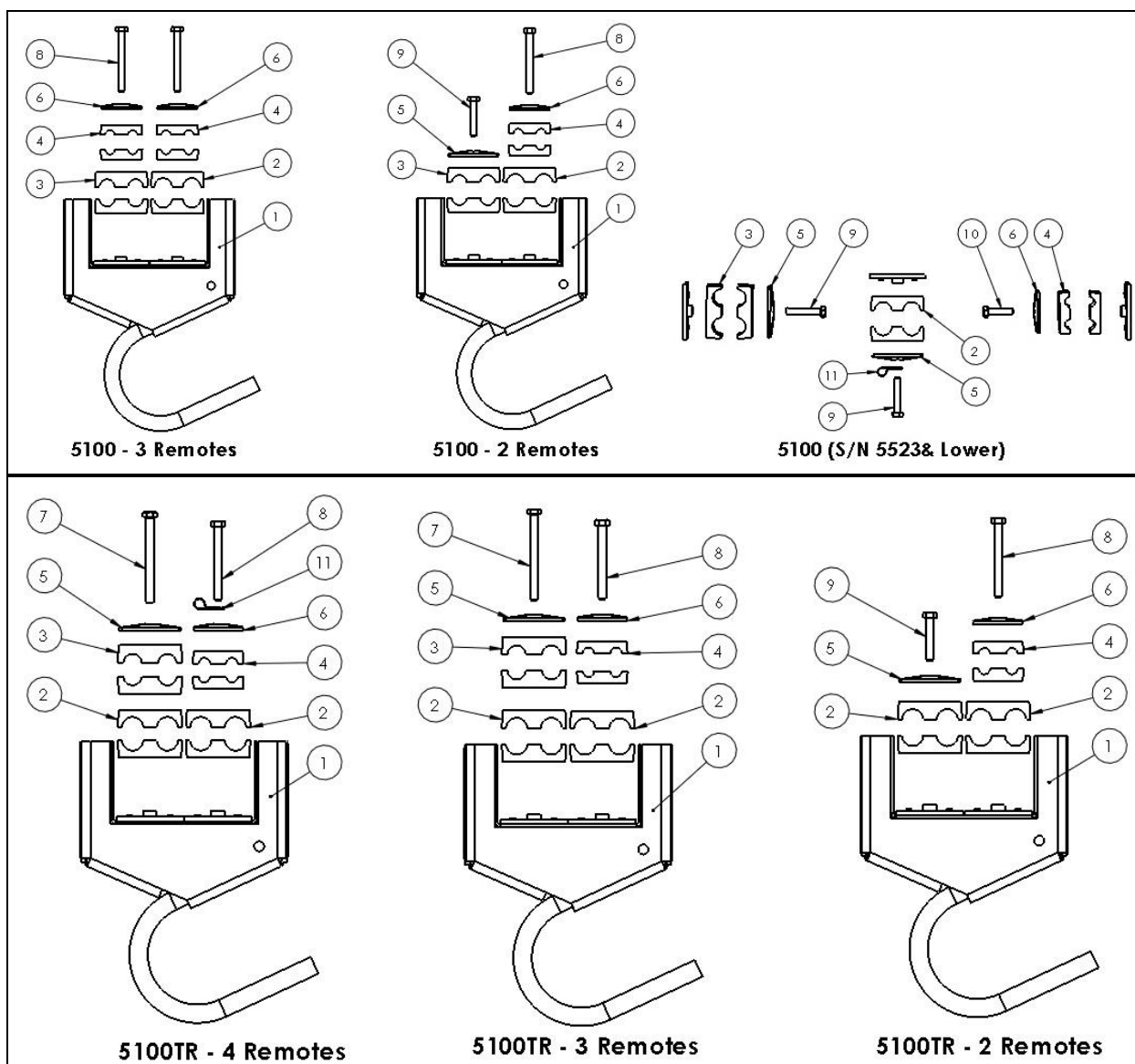
Front Tub Components

#	DESCRIPTION	PART #	QTY
1	Nut, 1/4" Serrated Flange	11812	6
2	Nut, 1/2" Serrated Flange	10273	3
3	Nut, 3/8" Stover Lock	17586	4
4	Shear Bolt, 3/8" x 2" Gr. 5	10279	4
5	Manual Holder Bracket	22439	1
6	Flat Washer, 1/2"	11668	1
7	Bolt, 1/2" x 1-1/4"	10240	1
8	Operator Manual Holder	22409	1
9	Flat Washer, 1/4"	11666	4
10	Bolt, 1/4" x 3/4"	11809	4
11	Nut, 3/8" Serrated Flange	10271	8
12	Bolt, 3/8" x 1"	13806	2
13	7-pin Trailer Plug	12177	1
14	PTO/Hose Holder Channel	22435	1
15	Hose Clamps * See Breakdown *	-	1
16	Nut, 3/8" Nylon Lock	10806	1
17	PTO Holder Lock	22450	1
18	Bolt, 3/8" x 1"	13806	7
19	Nut, 5/16" Serrated Flange	11814	8
20	Bolt, 5/16" x 3/4"	20903	4
21	Stud, 1/2"	13231	1
22	Pilot Operated Check Valve	19114	1
23	Bolt, 5/16" x 2"	15572	2
24	Nut, 5/16" Nylon Lock	11815	1
25	Hydraulic Hose Clamp	21561	2
26	Hydraulic Hose Clamp Cap	21725	1
27	Bolt, 5/16" x 2-1/2"	19115	1
28	Flow Divider Valve (4-1/4" deep, S/N BK6416 & up) (2-1/4" deep, S/N BK5517 - 6415) #	25778 23368	1
29	Bolt, 1/4" x 5" (S/N BK6416 & up) Bolt, 1/4" x 2-3/4" (S/N BK5517 - 6415)	25951 11811	2
30	Grommet	21428	1
31	Flat Washer, 5/16"	12496	2
32	Diverter Stack Kit * Includes bolts, washers, & nuts *	12895	1
33	Diverter Valve * Nut & O-Ring Kit * Magnet Kit	11743 17977 11789	2
34	Diverter Valve Plug	13657	2
35	Socket Head Bolt, 5/16" x 3"	11783	2

NOTE: Some parts shown are optional. Check the serial number (S/N) of your machine before ordering.



PTO Holder

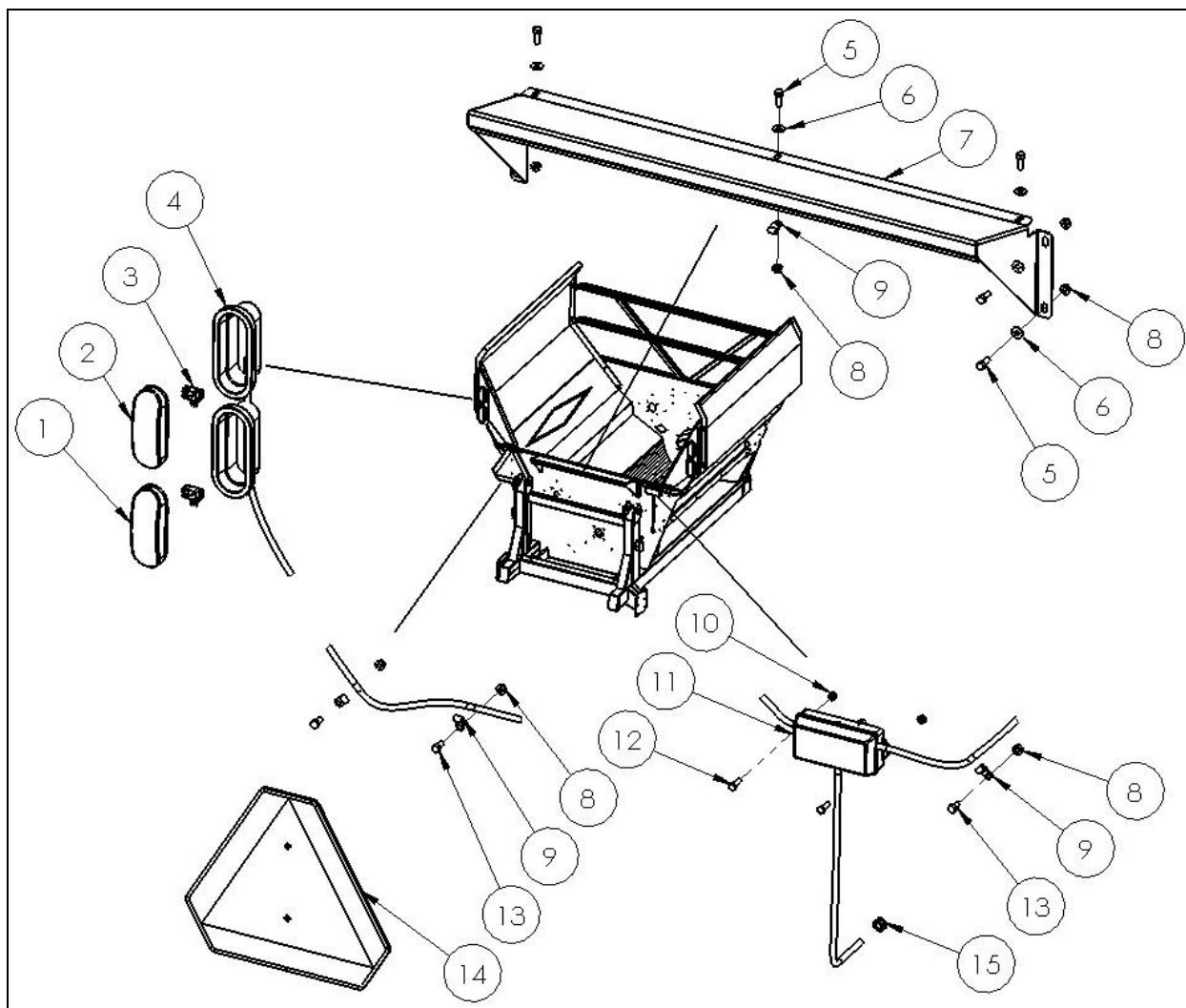


#	DESCRIPTION	PART #
1	PTO/Hose Holder Front Plate	22838
2	Hydraulic Hose Clamp, 1/2"	21561
3	Hydraulic Hose Clamp, 3/8"	22180
4	Hydraulic Hose Clamp, 1/4"	22181
5	Hydraulic Hose Clamp Cap, Large	21725
6	Hydraulic Hose Clamp Cap, Small	22182
7	Bolt, 5/16" x 3-1/2"	13765
8	Bolt, 5/16" x 3"	22844
9	Bolt, 5/16" x 1-3/4"	21726
10	Bolt, 5/16" x 1-3/8"	22183
11	Wiring Clamp	13629

NOTE: Quantities are as required



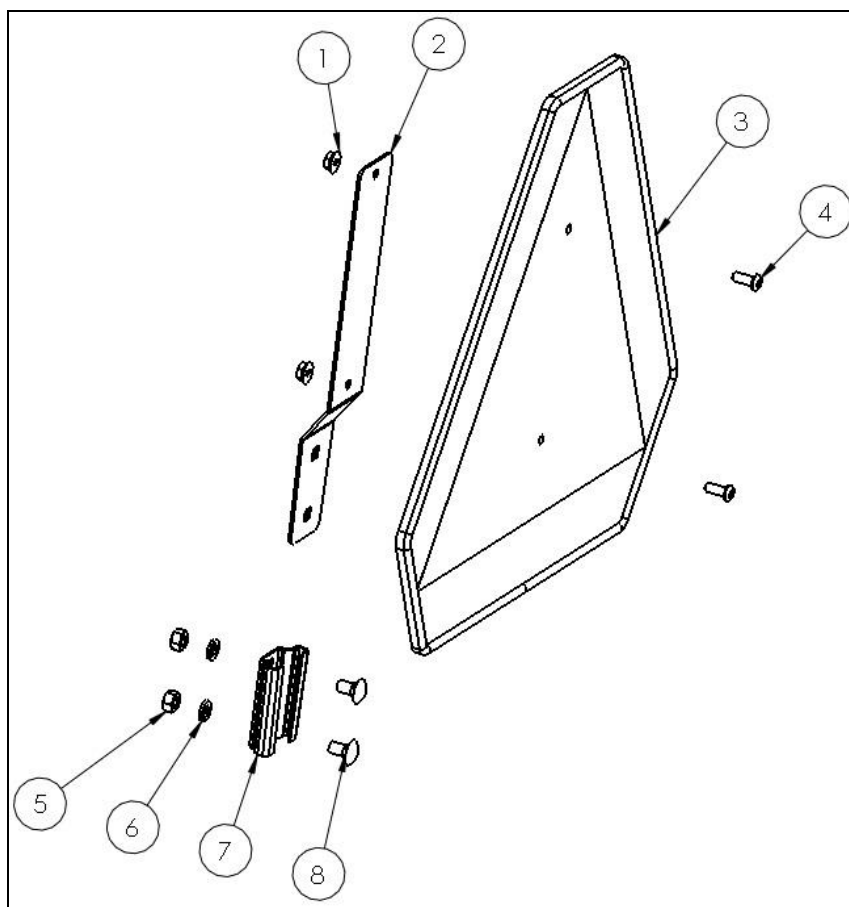
Rear Tub Components



#	DESCRIPTION	PART #	QTY
1	Light, Amber LED	21722	2
2	Light, Red LED	21721	2
3	Light Pigtail	21422	4
4	Light Grommet	21723	4
5	Bolt, 3/8" x 1"	13806	7
6	Flat Washer, 3/8"	11667	7
7	Rear Cover Panel	22437	1
8	Nut, 3/8" Serrated Flange	10271	10
9	Cable Clamp	13629	4
10	Nut, 5/16" Nylon Lock	11815	2
11	Junction Box * See wiring diagram *	13668	1
12	Bolt, 5/16" x 1"	20906	2
13	Bolt, 3/8" x 3/4"	11816	3
14	Slow Moving Vehicle Sign Kit * See breakdown *	22411	1
15	Grommet	21428	1



Slow Moving Vehicle (SMV) Sign Kit

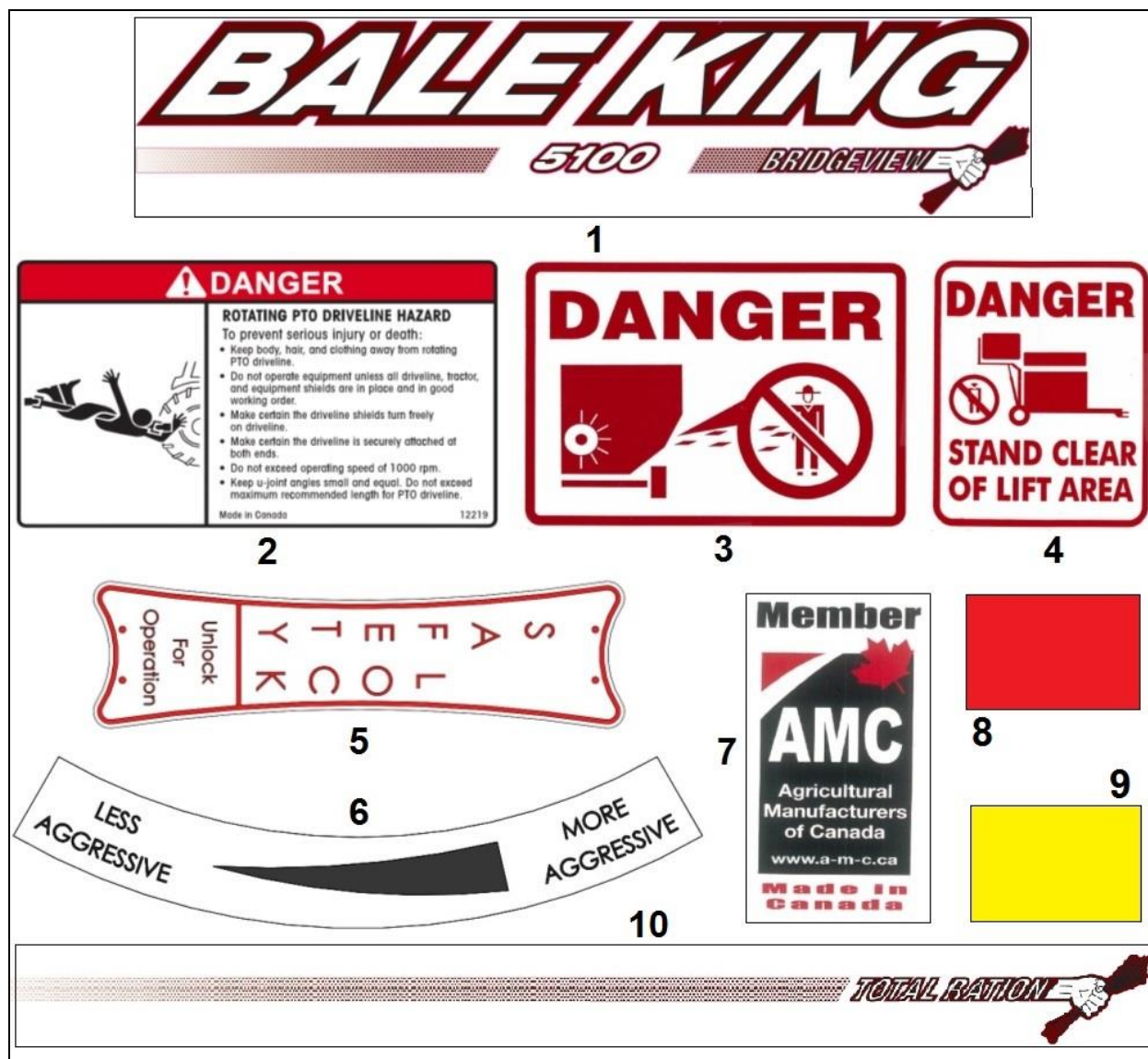


NOTE: Only the parts shown above are used on the Bale King 5100. Additional parts are included in the SMV sign kit which are not required.

#	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"	-	-



Decals

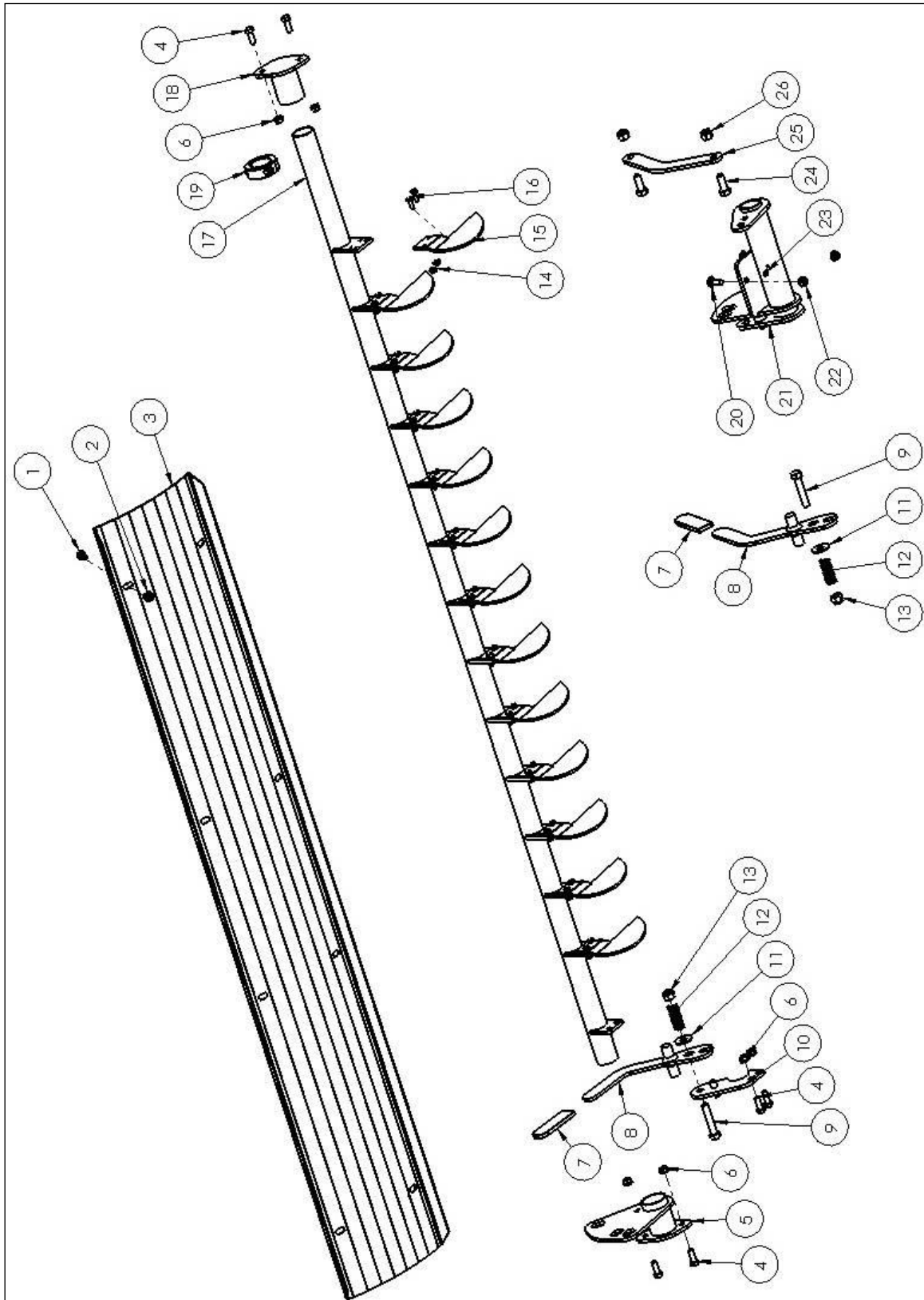


#	DESCRIPTION	PART #	QTY
1	"BALE KING 5100"	22163	2
2	"DANGER", PTO	12219	2
3	"DANGER", Discharge	12230	4
4	"DANGER", Stand Clear of Lift	12229	1
5	AMC Member	12239	1
6	Hoop Adjustment	22165	1
7	Deflector Safety Lock	22292	1
8	Red Reflector	13324	3
9	Amber Reflector	13325	3
10	"TOTAL RATION" *	24862	(1)

* TR only



Fine Chop





Fine Chop

#	DESCRIPTION	PART #	QTY
1	Fin Bolt, 3/8" x 3/4"	10807	8
2	Nut, 3/8" Serrated Flange	10271	8
3	Fine Chop Cover Plate	22438	1

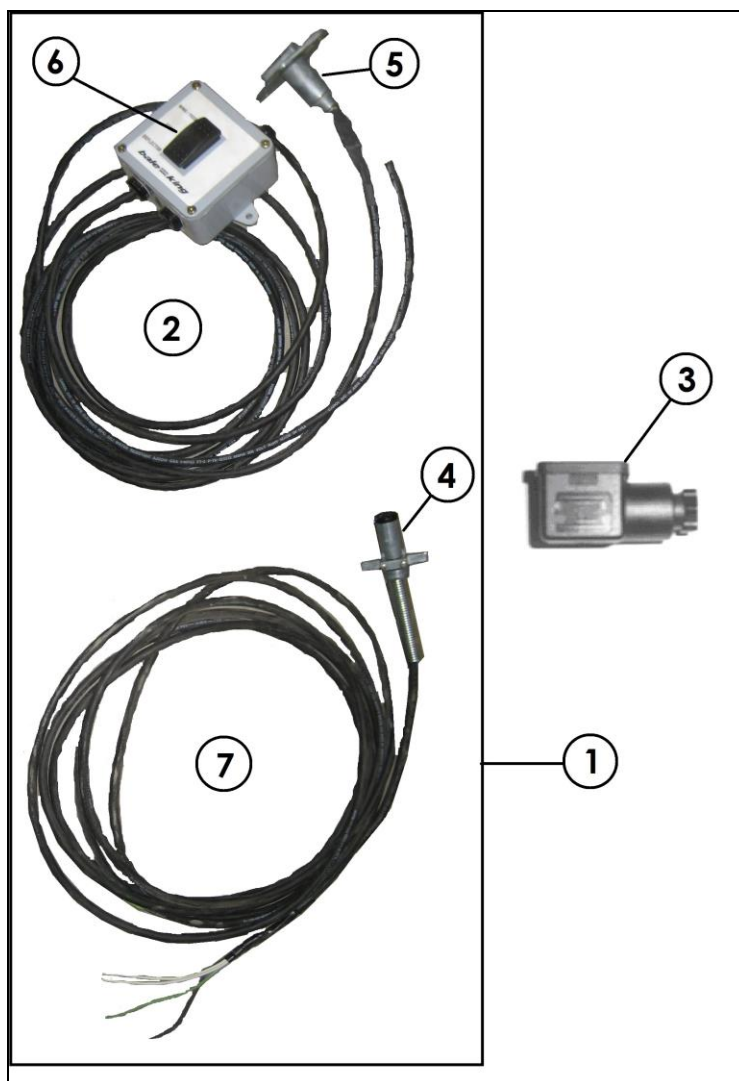
	Fine Chop Kit * Optional *	22139	1
4	Bolt, 3/8" x 1"	13806	6
5	Fine Chop Pivot Front	22443	1
6	Nut, 3/8" Serrated Flange	10271	6
7	Rubber Handle	10297	1
8	Fine Chop Handle	22446	1
9	Bolt, 1/2" x 2-1/2"	10804	1
10	Fine Chop Handle Mount	22445	1
11	Flat Washer, 1/2"	11668	1
12	Compression Spring	21713	1
13	Nut, 1/2" Nylon Lock	10241	1
14	Nut, 1/4" Serrated Flange	11812	26
15	Fine Chop Blade	10404	13
16	Bolt, 1/4" x 3/4"	11809	26
17	Fine Chop Bar *NOTE: On newer kits, handle mount (#10) is part of this piece	22442	1
18	Fine Chop Pivot Rear	22444	1
19	Split Collar	12792	1

	Fine Chop Adaptor Kit * TR Only *	22042	1
20	Carriage Bolt, 3/8" x 1"	15718	2
21	Fine Chop Adaptor Pivot	25051	1
22	Nut, 3/8" Serrated Flange	10271	2
23	Grease Zerk	16374	1
24	Bolt, 1/2" x 1-1/4"	10240	2
25	Fine Chop Adaptor Linkage	25048	1
26	Nut, 1/2" Nylon Lock	10241	2



Diverter Control Box

4-pin Round Plug



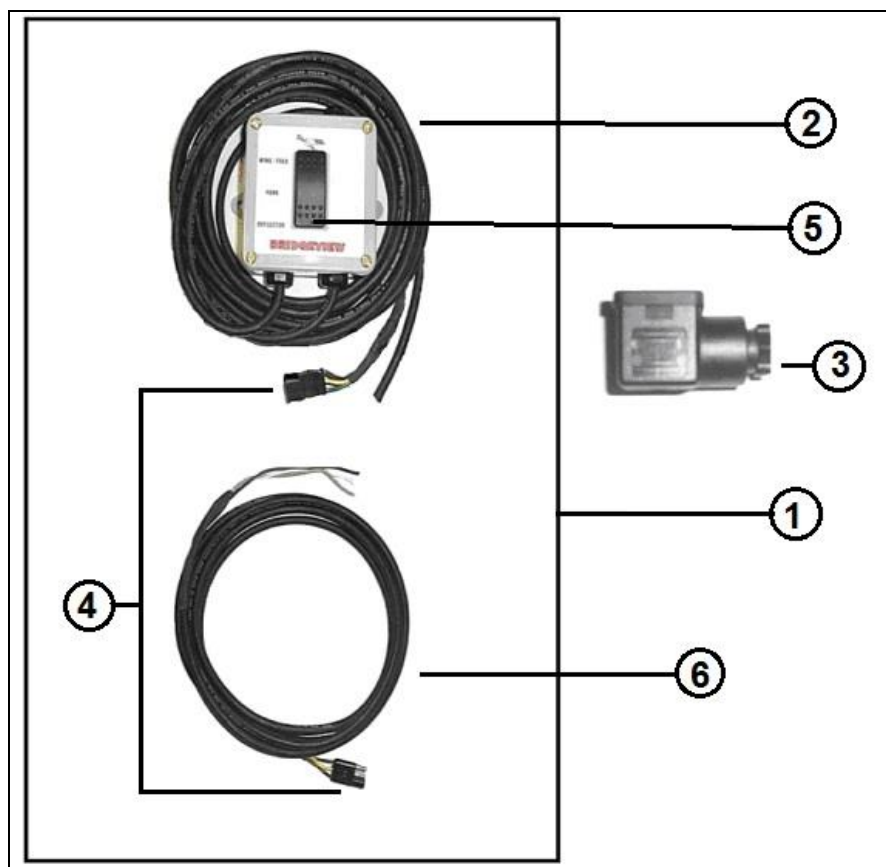
#	DESCRIPTION	PART #	QTY
	Diverter Kit with Line Lock * 5100 Optional *	25091	1
1	Complete Control Box with Harness (5100 Series)	24466	1
2	Complete Control Box with Cab to Hitch Harness (5100 Series)	-	1
3	Square Plug for Diverter Valve	13657	*
4	4-pin Trailer Plug	24691	1
5	4-pin Tractor Plug	24690	1
4,5	4-pin Trailer & Tractor Plug Kit	25079	1
6	3-way Switch	13561	1
7	Complete Hitch to Valve Harness (5100 Series)	24693	1
8	Cover-up Sticker (for "Wing/Feed")	25125	#

* **NOTE:** 1 plug is needed for each diverter valve.

NOTE: Only used on 5100TR with 3 remote kit.



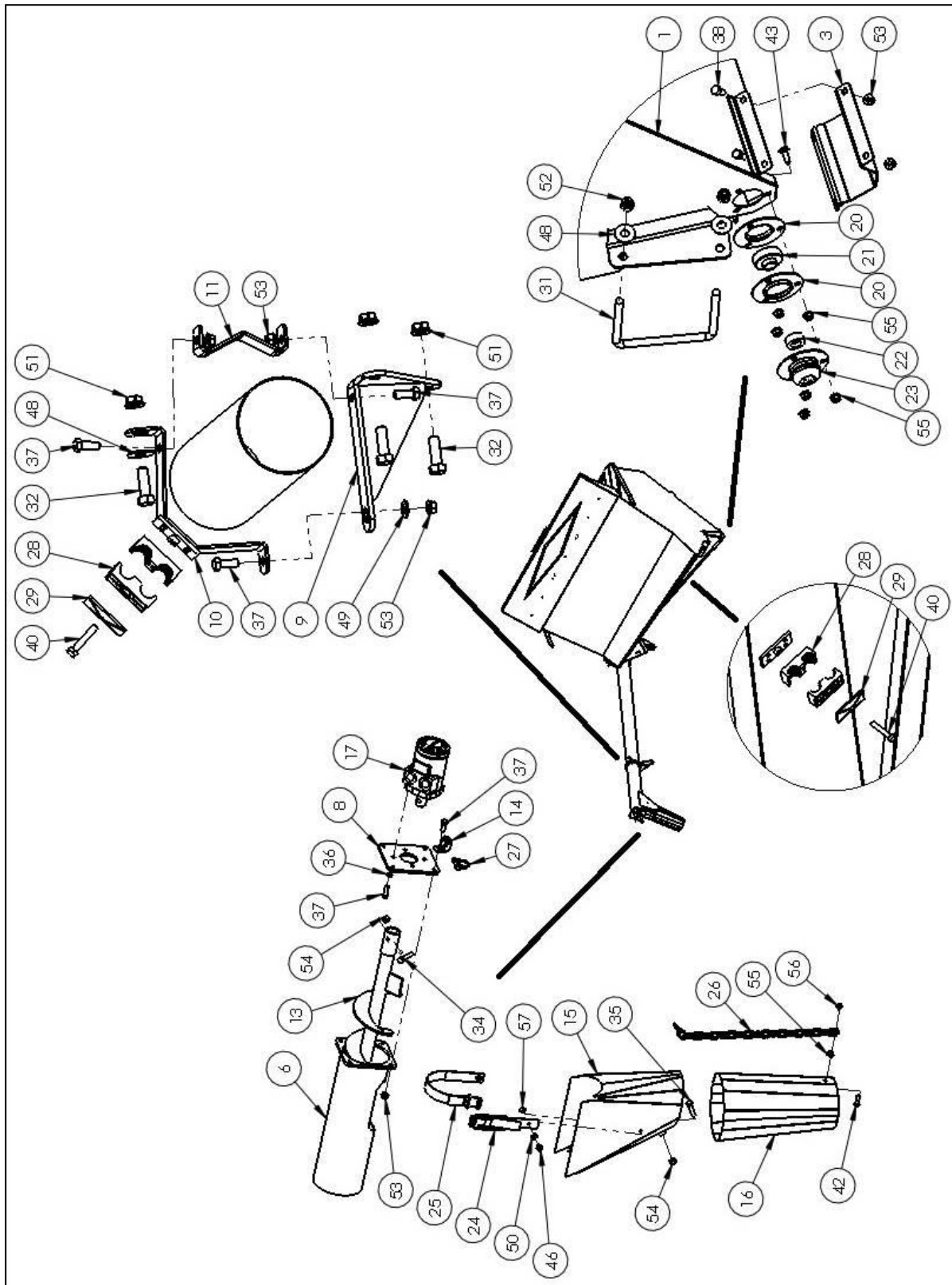
3-pin Flat Plug

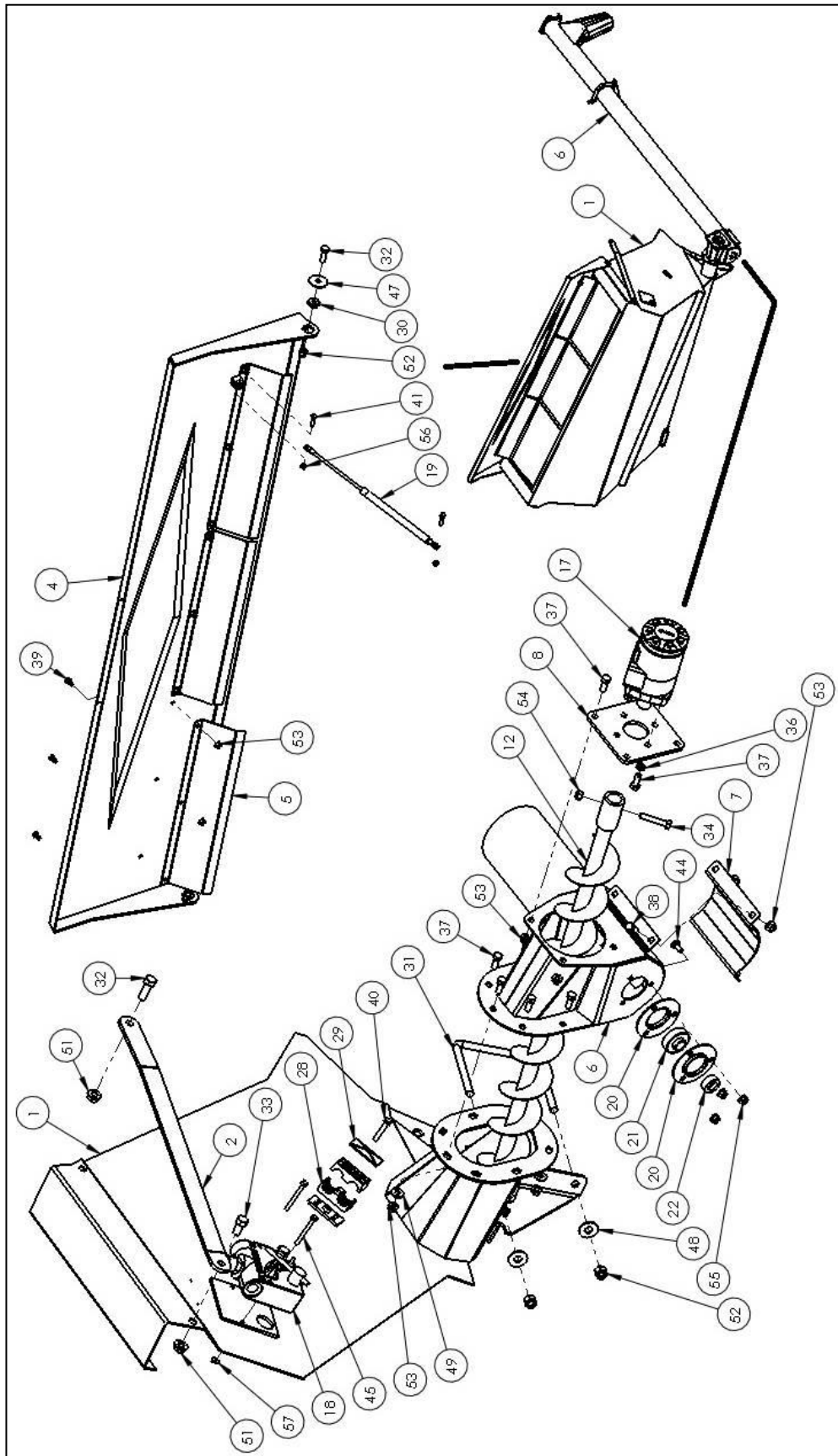


#	DESCRIPTION	PART #	QTY
1	Complete Control Box with Harness (5100 Series)	24466	1
2	Complete Control Box with Cab to Hitch Harness (5100 Series)	11793	1
3	Square Plug for Diverter Valve	13657	1
4	4-pin Round Plug Kit	25079	1
5	3-Way Switch	13561	1
6	Complete Hitch to Valve Harness (5100 Series)	11794	1



Total Ration Grain Tank







Total Ration Grain Tank (S/N 25580 & up)

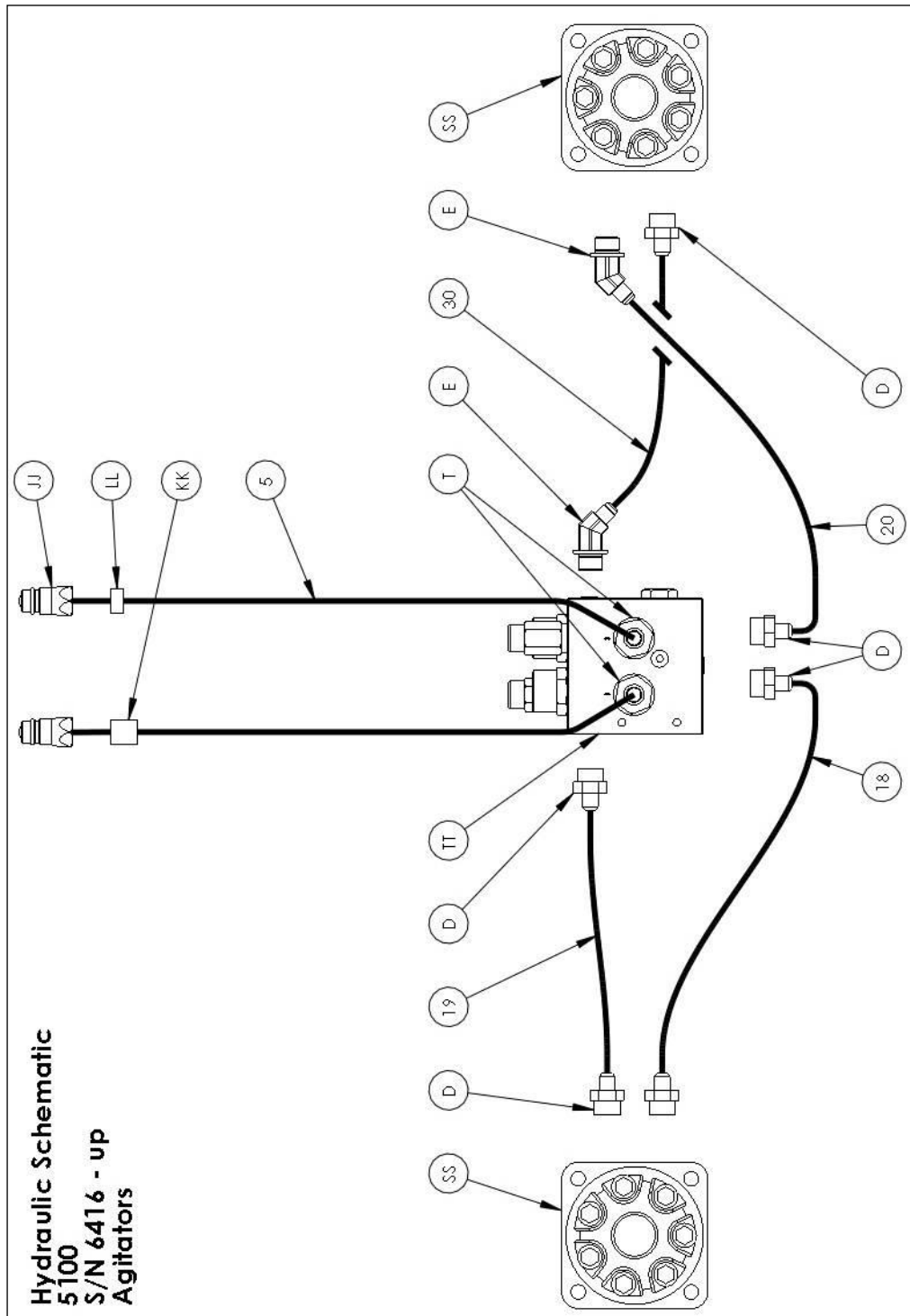
NOTE: For tanks with S/N below 25579, contact Bridgeview for parts.

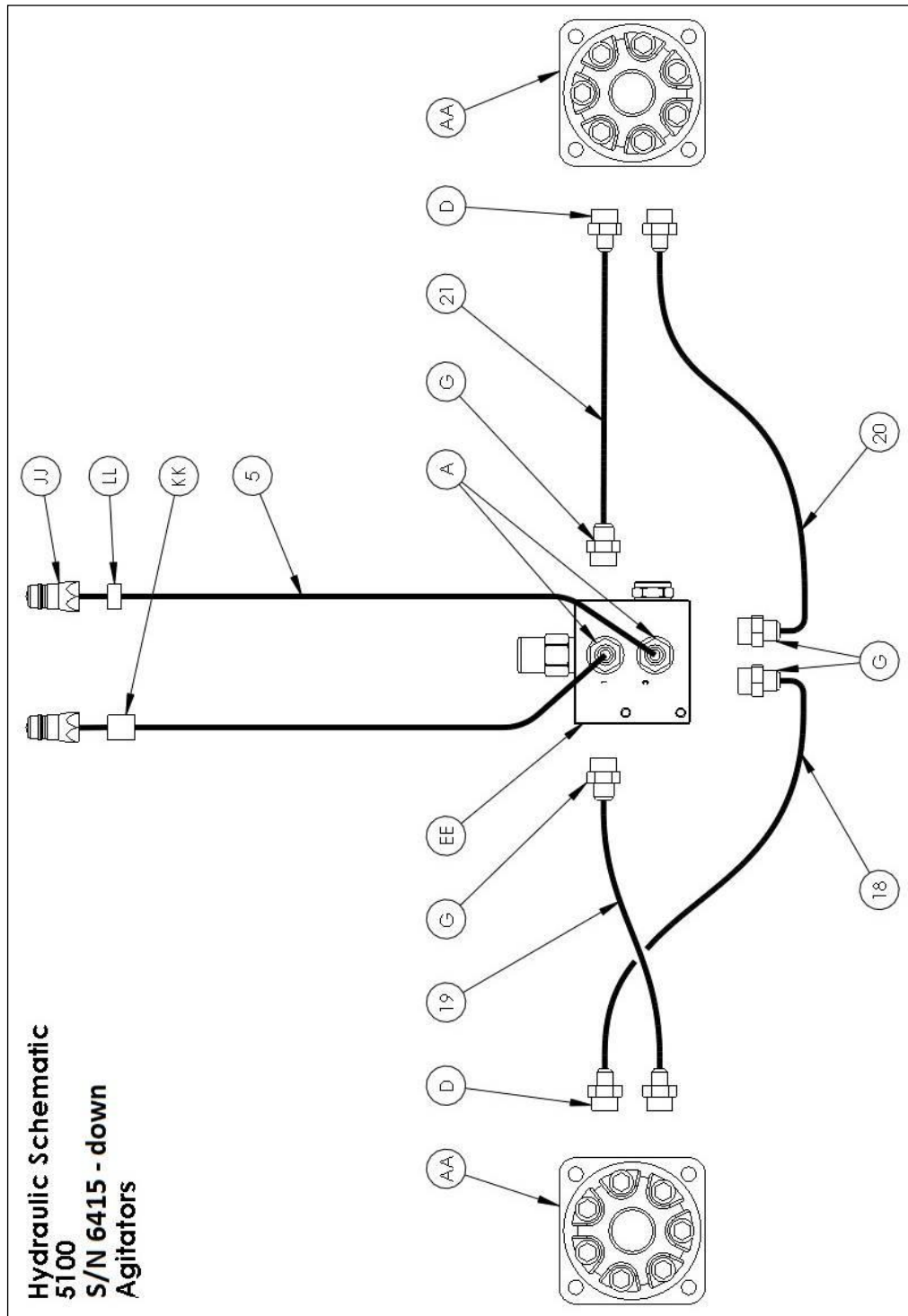
#	DESCRIPTION	PART #	QTY
	Total Ration Grain Tank Kit	22040	1
	2 Remote Kit * CHOOSE ONE *	22045	(1)
	3 Remote Kit * CHOOSE ONE *	22044	(1)
	4 Remote Kit * CHOOSE ONE *	22043	(1)
	Fine Chop Adaptor Kit * REQ'D FOR FINE CHOP ONLY*	22042	OPTIONAL
1	Total Ration Grain Tank	25084	1
2	Grain Tank Top Connector	25093	2
3	Grain Tank Cleanout Door	25096	1
4	Grain Tank Lid	25085	1
5	Grain Tank Lid Baffle	25092	3
6	Cross Auger Pipe	25820	1
7	Cross Auger Cleanout Door	25095	1
8	Auger Motor Mount	25826	2
9	Cross Auger Support - Base	25088	1
10	Cross Auger Support - Upper	25089	1
11	Cross Auger Support - Clamp	25094	1
12	Grain Tank Auger	25041	1
13	Cross Auger	25042	1
14	Auger Spout Chain Catch	25097	1
15	Auger Spout - Top	25123	1
16	Auger Spout - Bottom	25124	1
17	Hydraulic Motor * Seal Kit	25810 25827	2
18	Flow Control Valve	10455	1
19	Gas Shock	16808	1
20	Bearing, 3-Bolt Pressed Flange Housing	10368	4
21	Bearing, 3/4" * Includes # 22 *	10366	2
22	Bearing Lock Collar	10367	2
23	Bearing Cover	25117	1
24	Strap w/ Buckle	25122	1
25	Strap w/o Buckle		
26	Chain, 3/16" x 20 links	25121	1
27	Lock Pin, 1/4" x 1-1/4"	13951	1
28	Hydraulic Hose Clamp, 1/2"	21561	6
29	Hydraulic Hose Clamp Cap, Large	21715	3
30	Bushing, 1/2" ID x 1-1/4" OD	10239	2
31	Square U-bolt, 1/2" x 6" x 5-1/2"	25056	2
32	Bolt, 1/2" x 1-1/2"	10174	7
33	Bolt, 1/2" x 1"	10824	2
34	Bolt, 3/8" x 2"	10279	2
35	Bolt, 3/8" x 1-1/2"	11660	1
36	Lock Washer, 3/8"	13971	8
37	Bolt, 3/8" x 1"	13806	26
38	Bolt, 3/8" x 3/4"	11816	8
39	Fin Bolt, 3/8" x 3/4"	10807	9
40	Bolt, 5/16" x 1-3/4"	21726	3
41	Bolt, 5/16" x 1-1/4"	24418	2
42	Bolt, 5/16" x 1"	20906	1
43	Carriage Bolt, 5/16" x 1"	17884	3
44	Carriage Bolt, 5/16" x 3/4"	11662	3
45	Bolt, 1/4" x 2-1/2"	11811	2
46	Truss Head Bolt, 1/4" x 1/2"	22619	2
47	Fender Washer, 1/2"	10238	2
48	Flat Washer, 1/2"	11668	4
49	Flat Washer, 3/8"	11667	8
50	Flat Washer, 1/4"	11666	2
51	Nut, 1/2" Serrated Flange	10273	2
52	Nut, 1/2" Nylon Lock	10241	6
53	Nut, 3/8" Serrated Flange	10271	35
54	Nut, 3/8" Nylon Lock	10806	3
55	Nut, 5/16" Serrated Flange	11814	10
56	Nut, 5/16" Nylon Lock	11815	3
57	Nut, 1/4" Serrated Flange	11813	4

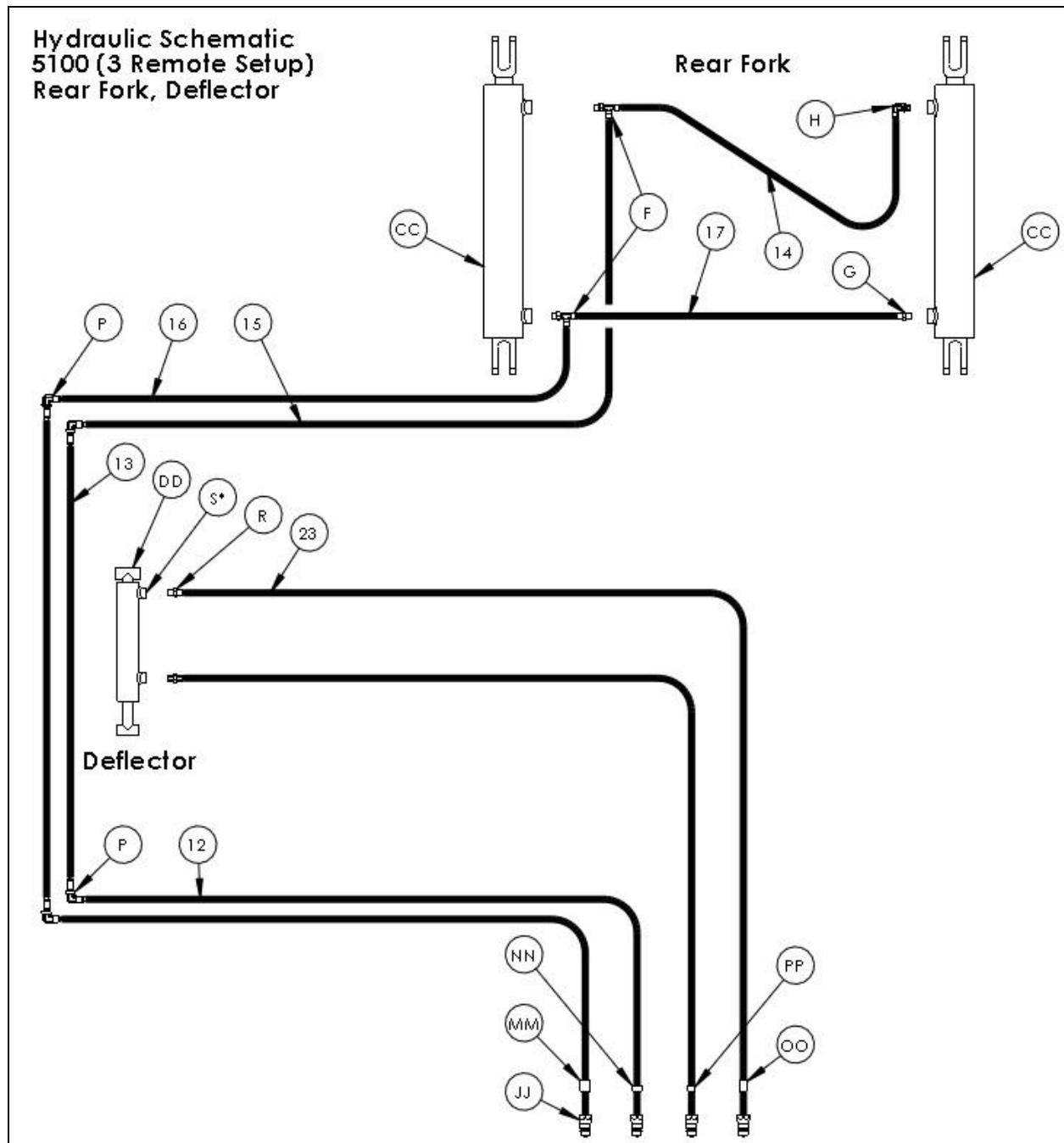


HYDRAULIC AND ELECTRICAL SCHEMATICS

Hydraulics

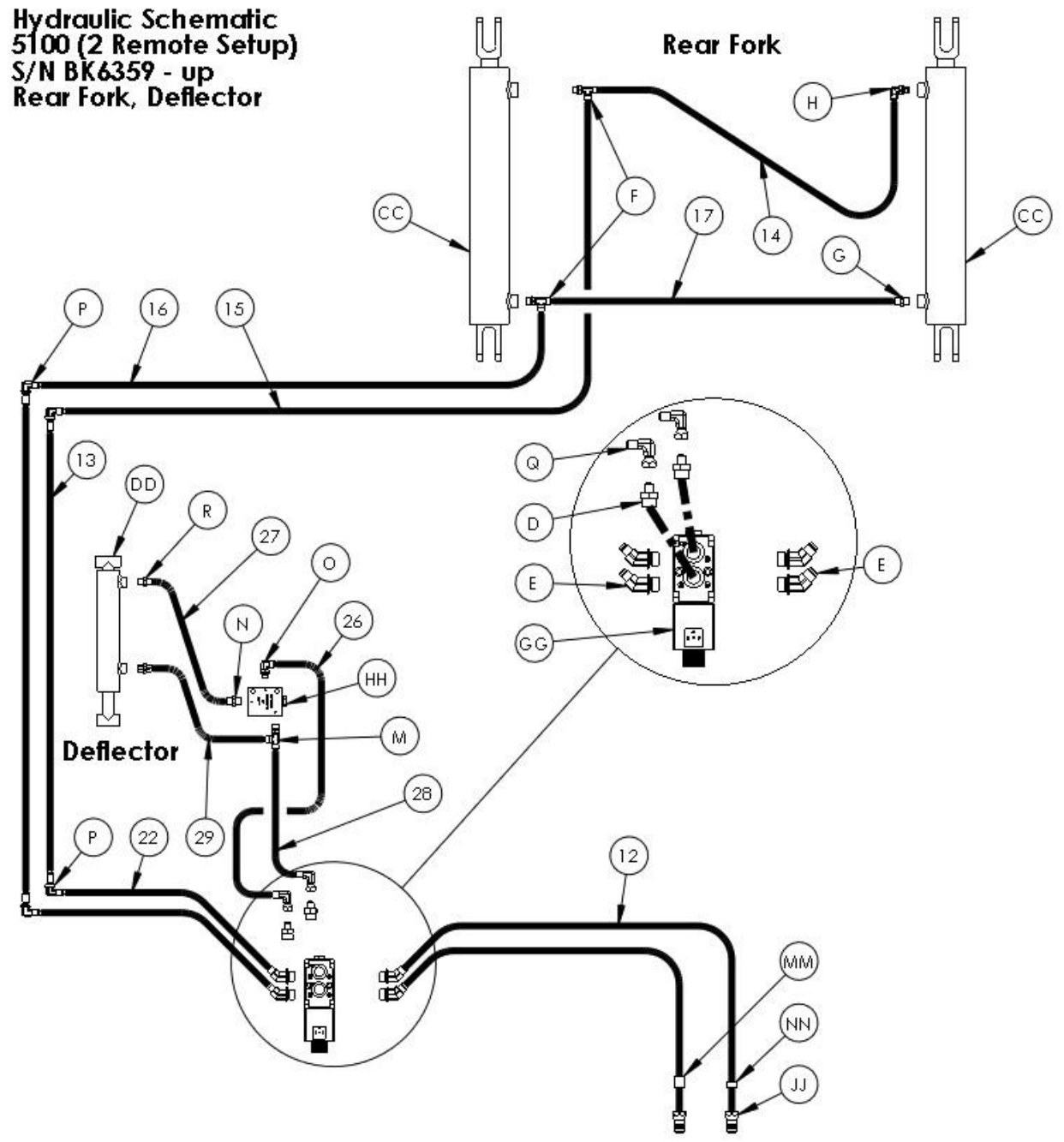






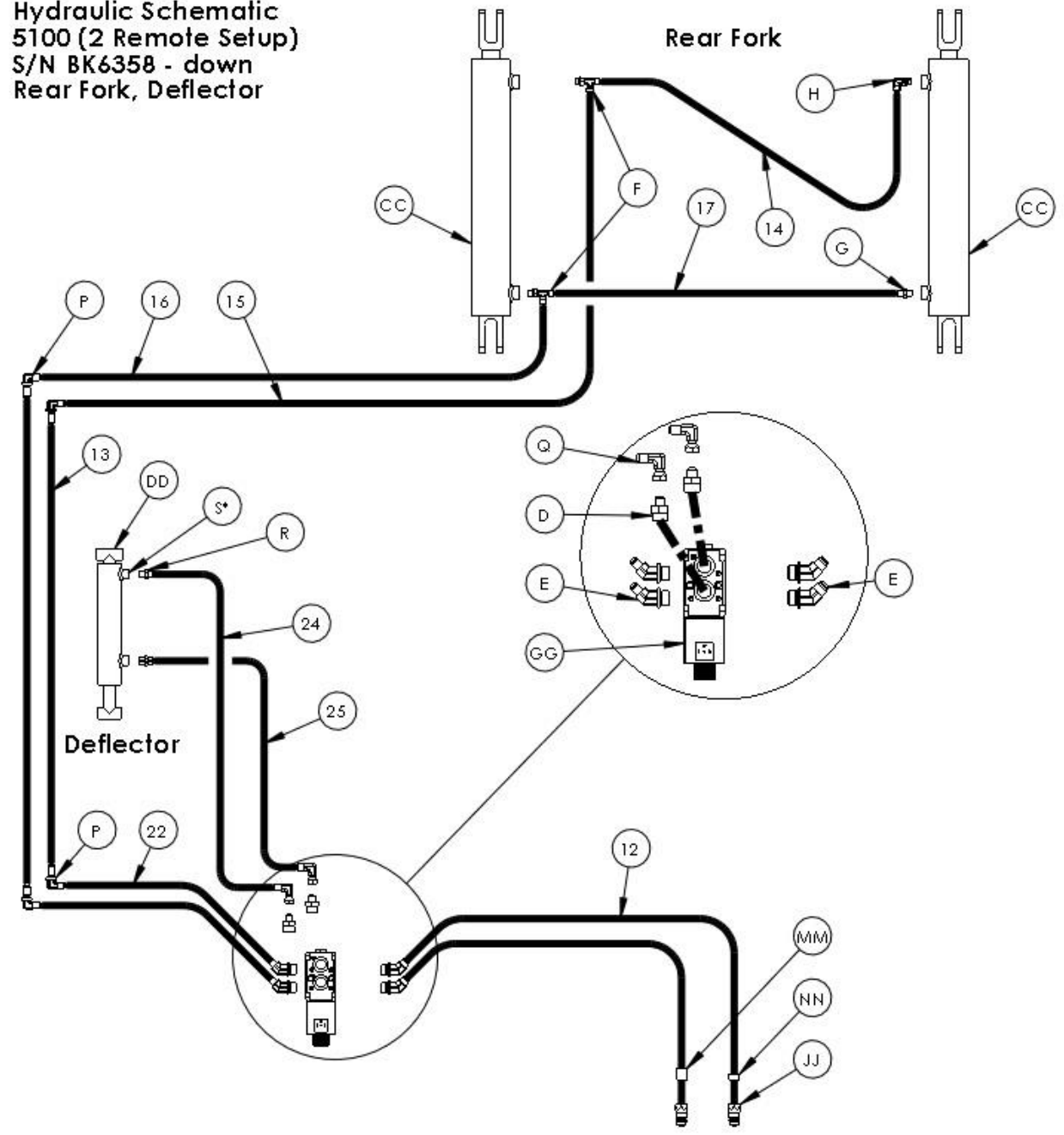


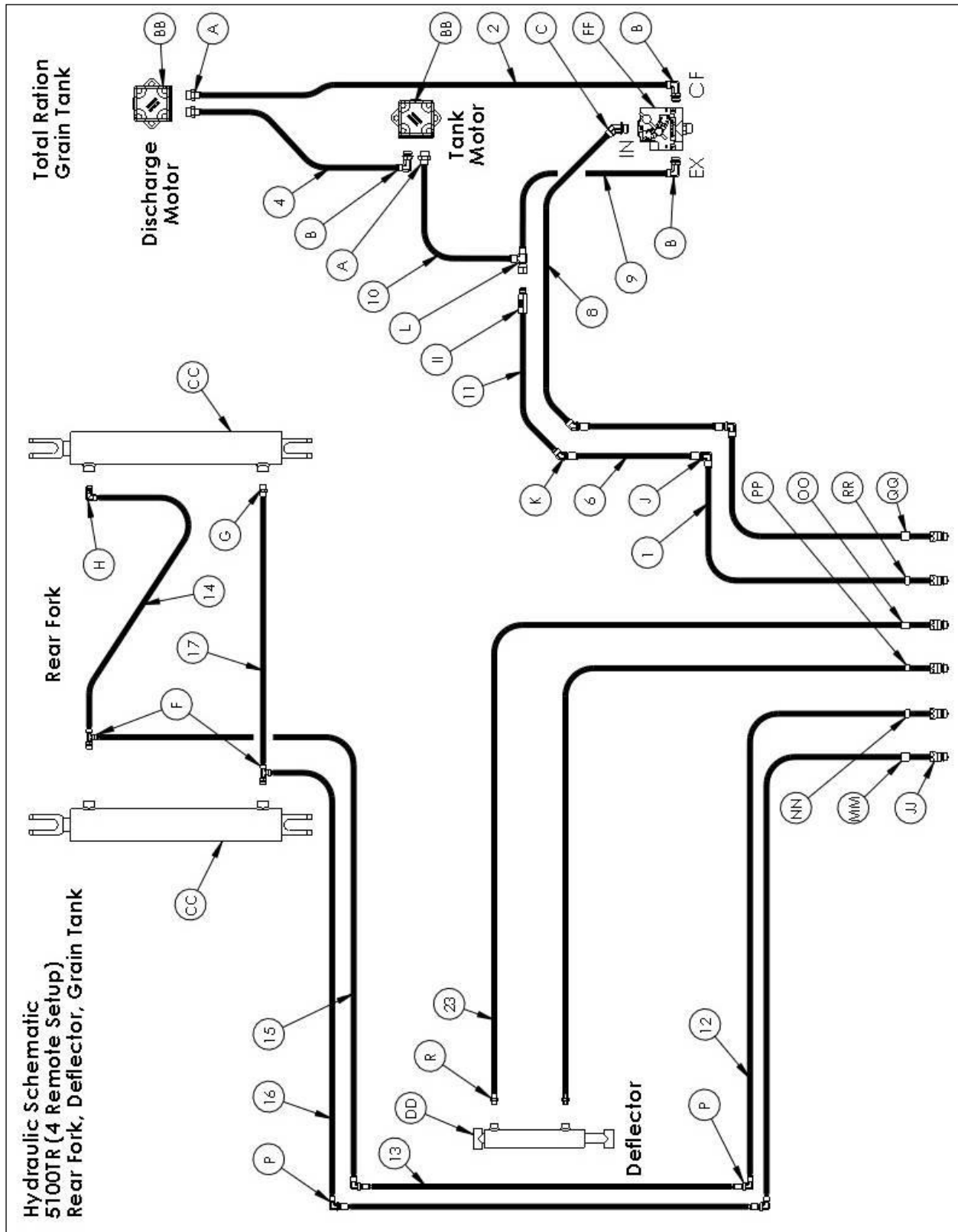
**Hydraulic Schematic
5100 (2 Remote Setup)
S/N BK6359 - up
Rear Fork, Deflector**

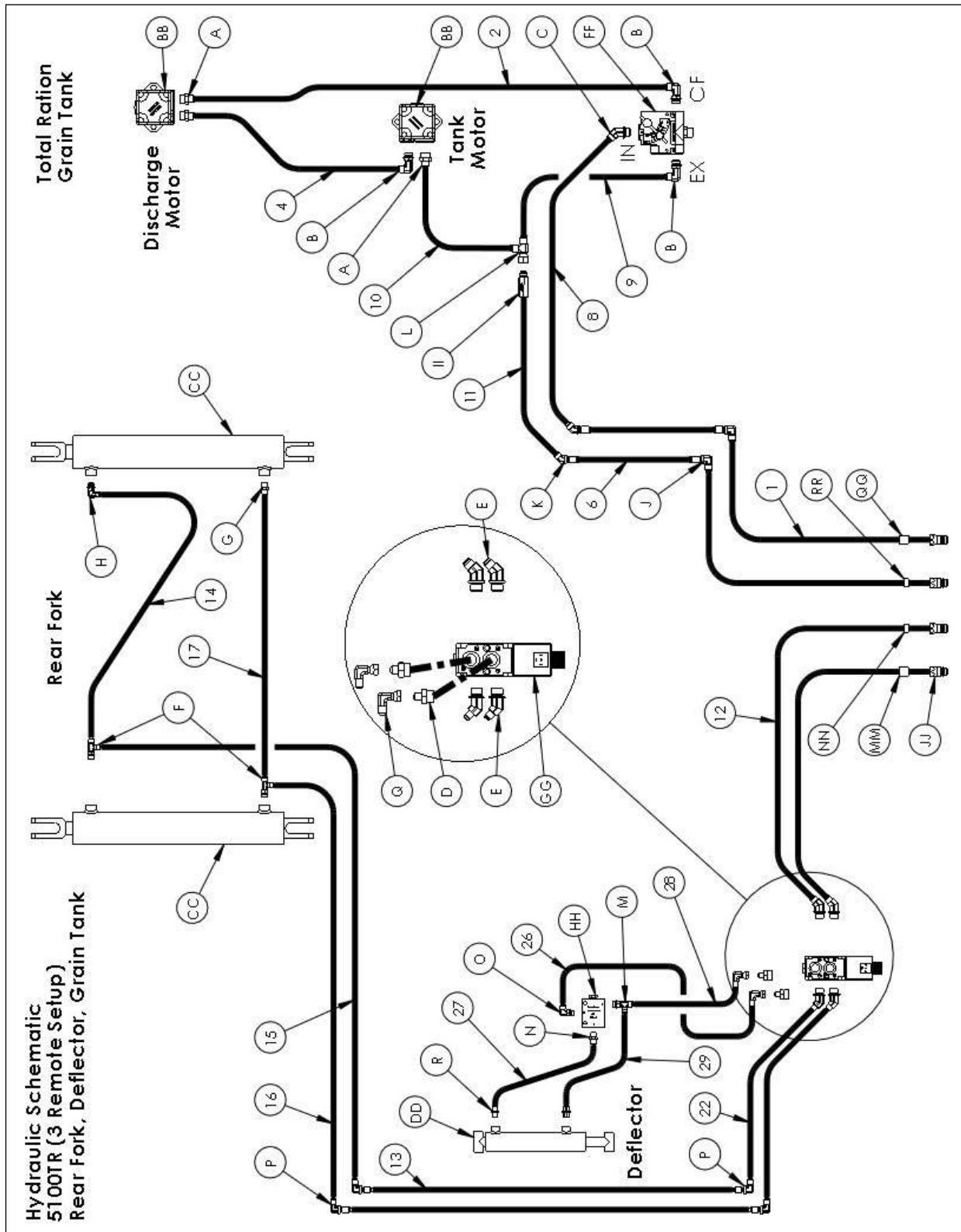


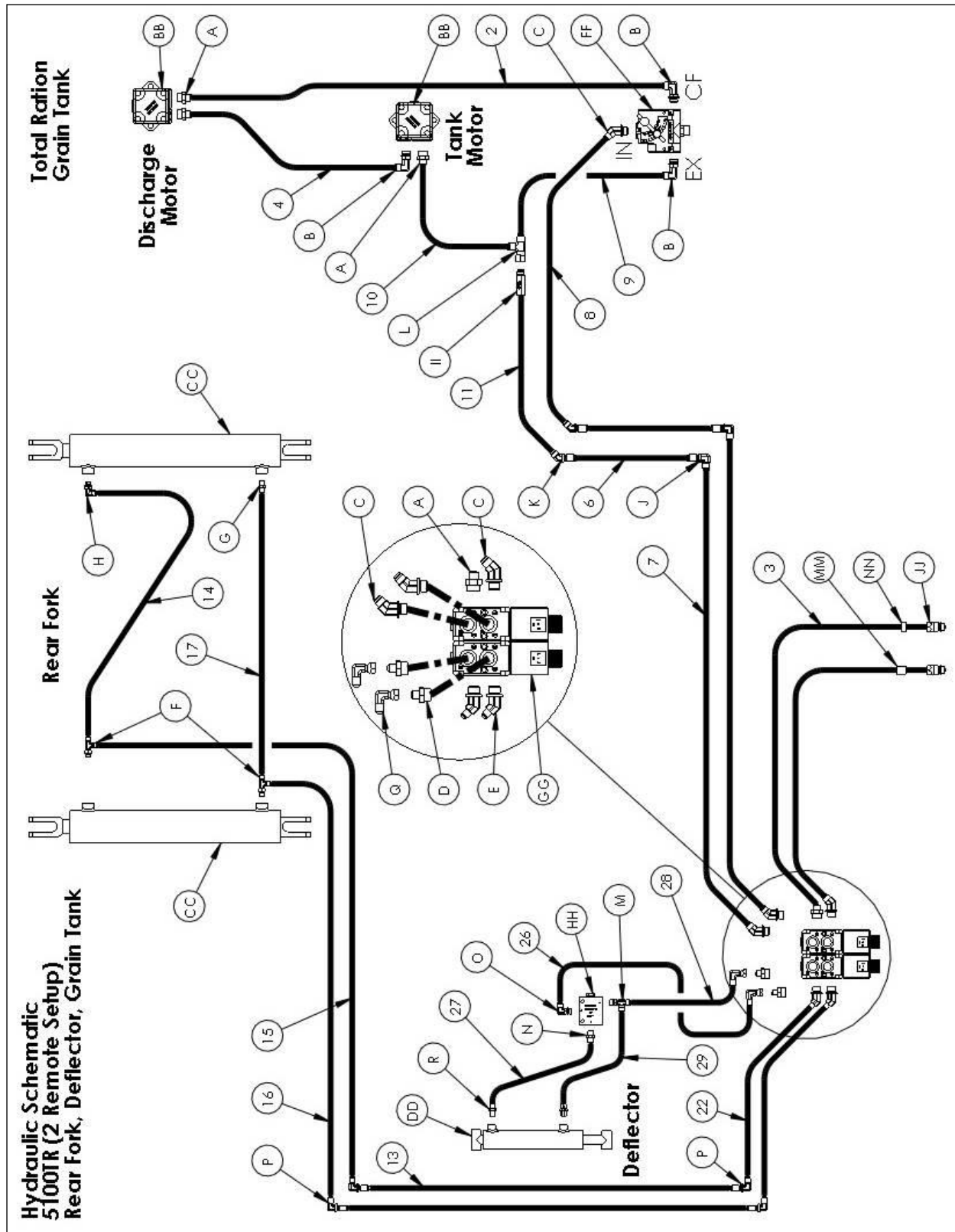


**Hydraulic Schematic
5100 (2 Remote Setup)
S/N BK6358 - down
Rear Fork, Deflector**











Hydraulic Components

#	DESCRIPTION	PART #
AA	Hydraulic Motor - Agitator (6-1/2" Long) * Seal Kit	21720 22820
BB	Hydraulic Motor - Grain Tank * TR Only * * Seal Kit	25810 25827
CC	Hydraulic Cylinder - Rear Forks * Seal Kit * Stopper Kit	21717 20807 21860
DD	Hydraulic Cylinder - Deflector * Seal Kit	21711 23738
EE	Flow Divider Valve (2-1/4" Deep)	23368
FF	Flow Control Valve * TR Only *	10455
GG	Diverter Valve * Nut & O-Ring * Magnet * Stack Kit	11743 17977 11789 12895
HH	Pilot-operated Check Valve	19114
II	Check Valve, 8MJ-8FB	12171
JJ	Pioneer Tip, 8FB	17379
KK	Hose Marker, Long Red	20790
LL	Hose Marker, Short Red	18140
MM	Hose Marker, Long Blue	18497
NN	Hose Marker, Short Blue	18141
OO	Hose Marker, Long Yellow	16520
PP	Hose Marker, Short Yellow	16521
QQ	Hose Marker, Long Green	16522
RR	Hose Marker, Short Green	17053
SS	Hydraulic Motor - Agitator (8" Long) * Seal Kit	25872 25891
TT	Flow Divider Valve (4-1/4" Deep)	25778

A	Adaptor, 10MB-8MJ	10161
B	Adaptor, 10MB-8MJ90	12169
C	Adaptor, 10MB-8MJ45	23844
D	Adaptor, 10MB-6MJ	11739
E	Adaptor, 10MB-6MJ45	22722
F	Adaptor, 8MBR-8MJT	22159
G	Adaptor, 8MB-6MJ	11740
H	Adaptor, 8MB-6MJ90	10200
I	Adaptor, 8MB-4MJ	22160
J	Adaptor, 8MJ90BH	10531
K	Adaptor, 8MJ45BH	22189
L	Adaptor, 8FJXR-8MJT	11768
M	Adaptor, 6MBR-6MJT	23726
N	Adaptor, 6MB-6MJ	10162
O	Adaptor, 6MB-6MJ90	10201
P	Adaptor, 6MJ90BH	10187
Q	Adaptor, 6MJ-6FJX90	12162
R	Adaptor, 6MB-6MJ Orifice (1/32")	17436
S*	Adaptor, 6MB-6FB * Serial Numbers BK5516 & below *	-
T	Adaptor, 12MB-8MJ	25937

NOTE: Quantities vary depending on machine set-up. Order as required.



Hydraulic Hoses

#	DIAM.	LENGTH	ENDS
1	1/2"	170" OAL	8FJX-8MB
2	1/2"	134" OAL	8FJX-8FJX90
3	1/2"	125" OAL	8FJX90-8MB
4	1/2"	98" OAL	8FJX-8FJX90
5	1/2"	92" OAL	8FJX-8MB
6	1/2"	71" OAL	8FJX-8FJX
7	1/2"	44.5" OAL	8FJX-8FJX90
8	1/2"	38.5" OAL	8FJX-8FJX45
9	1/2"	22" OAL	8FJX-8FJX
10	1/2"	15" OAL	8FJX-8FJX45
11	1/2"	13.5" OAL	8FJX45-8MB
12	3/8"	125" OAL	6FJX-8MB
13	3/8"	79.5" OAL	6FJX-6FJX
14	3/8"	78" OAL	6FJX-8FJX90
15	3/8"	57.5" OAL	6FJX-8FJX
16	3/8"	35.5" OAL	6FJX-8FJX
17	3/8"	33.5" OAL	6FJX-8FJX
18	3/8"	17.25" OAL * 16.5" OAL *	6FJX-6FJX90
19	3/8"	13.5" OAL * 14" OAL *	6FJX-6FJX
20	3/8"	11.25" OAL * 11.75" OAL *	6FJX-6FJX90
21	3/8"	9.25" OAL * 10.25" OAL *	6FJX-6FJX
22	3/8"	8.75" OAL	6FJX-6FJX
23	1/4"	128" OAL	4FJX-6FJX90
24	1/4"	35" OAL	6FJX-6FJX90
25	1/4"	26" OAL	6FJX-6FJX90
26	1/4"	20.25" OAL	6FJX-6FJX90
27	1/4"	16.25" OAL	6FJX-6FJX90
28	1/4"	13.5" OAL	6FJX-6FJX
29	1/4"	12.25" OAL	6FJX-6FJX90
30	3/8"	8.5" OAL	6FJX-6FJX

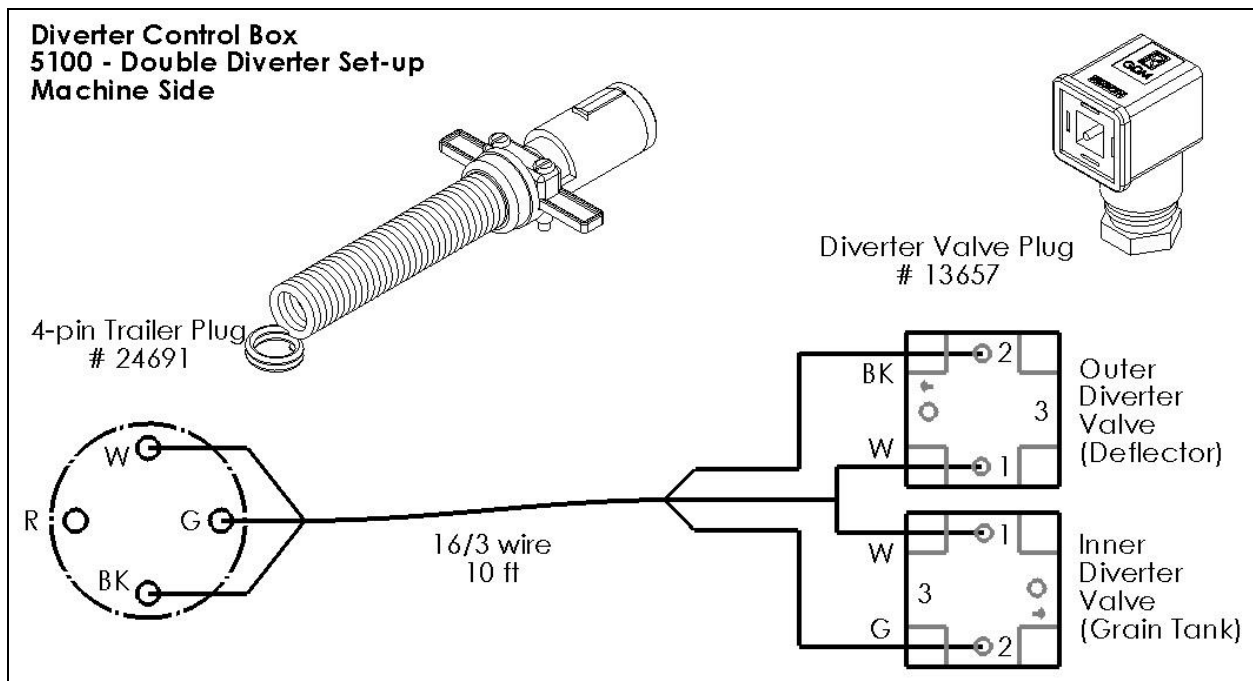
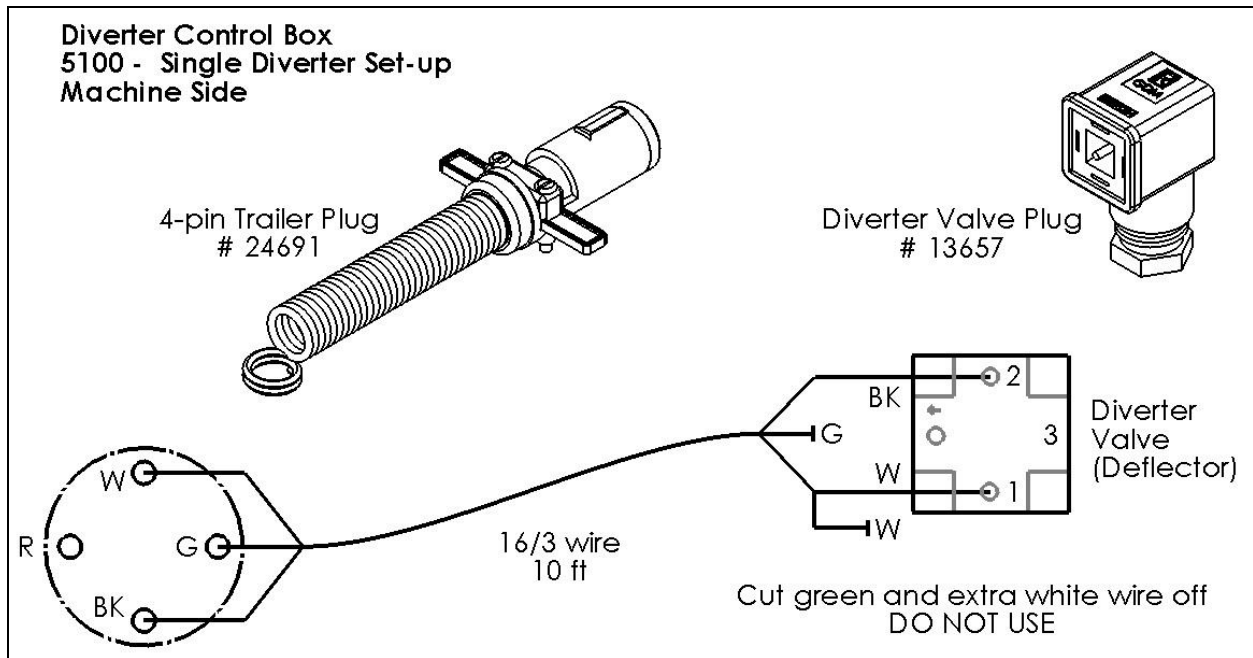
NOTE: Quantities vary based on machine set-up. Hoses are not available for sale. Use the information above to have replacement hoses made up locally.

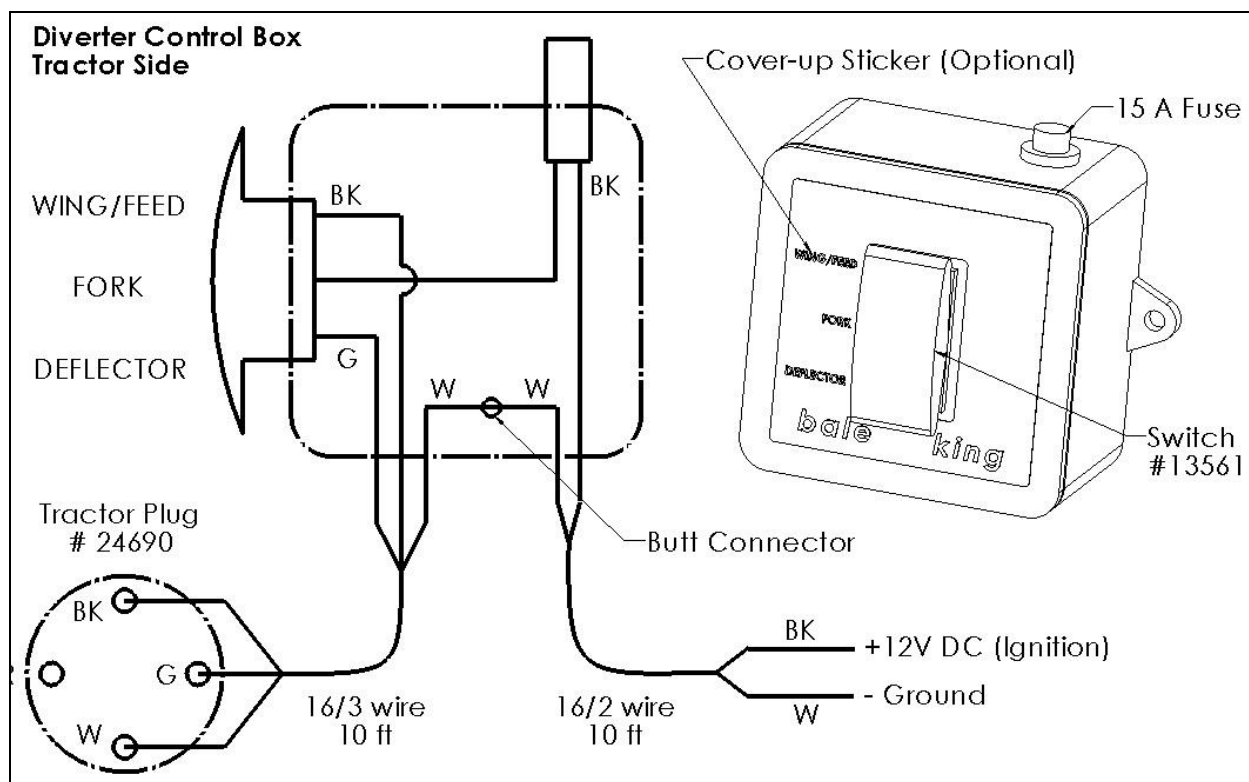
* **NOTE:** For Serial Numbers BK5516 & below



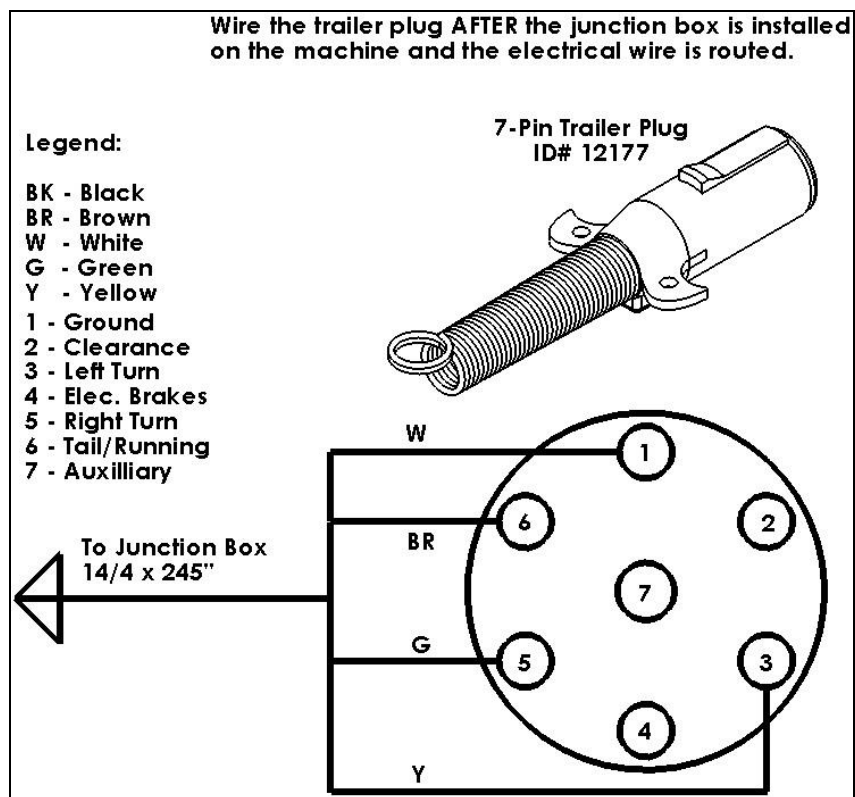
Lights & Electrical

Diverter Controls



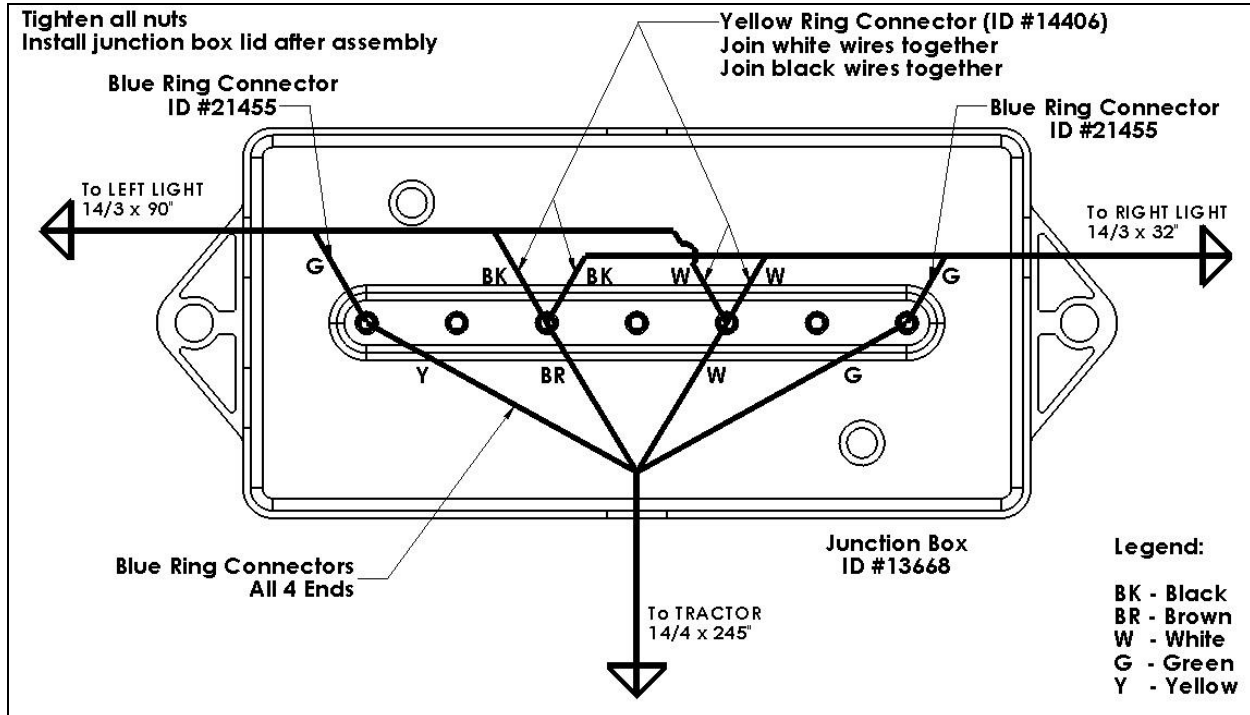


Lights

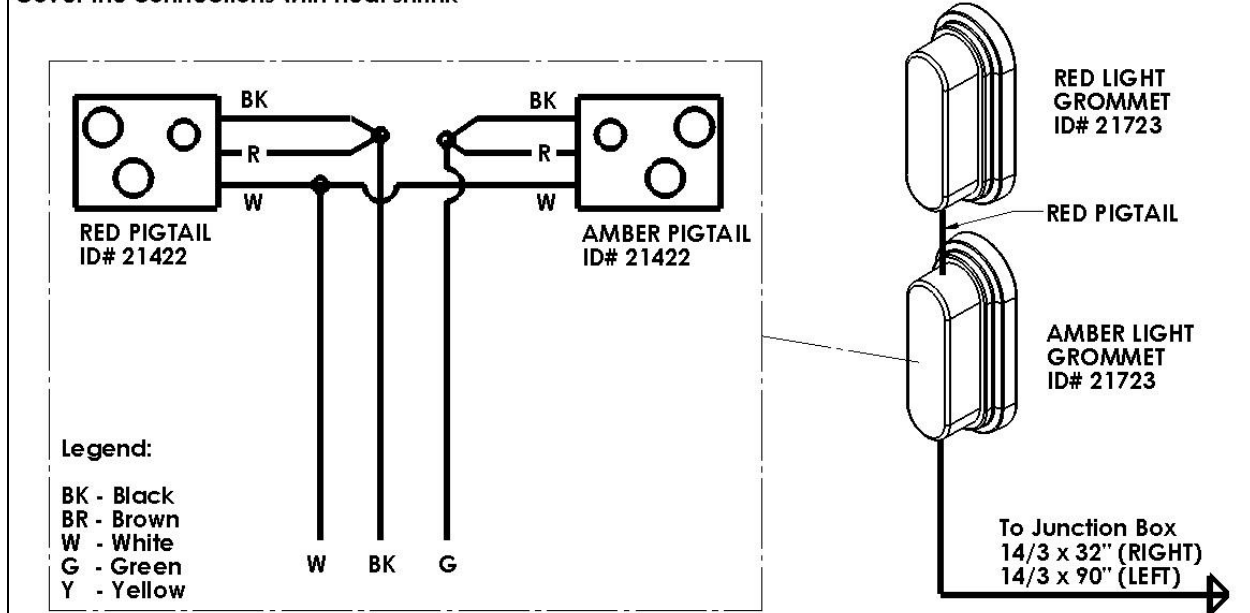




Junction Box: S/N BK6359 - up



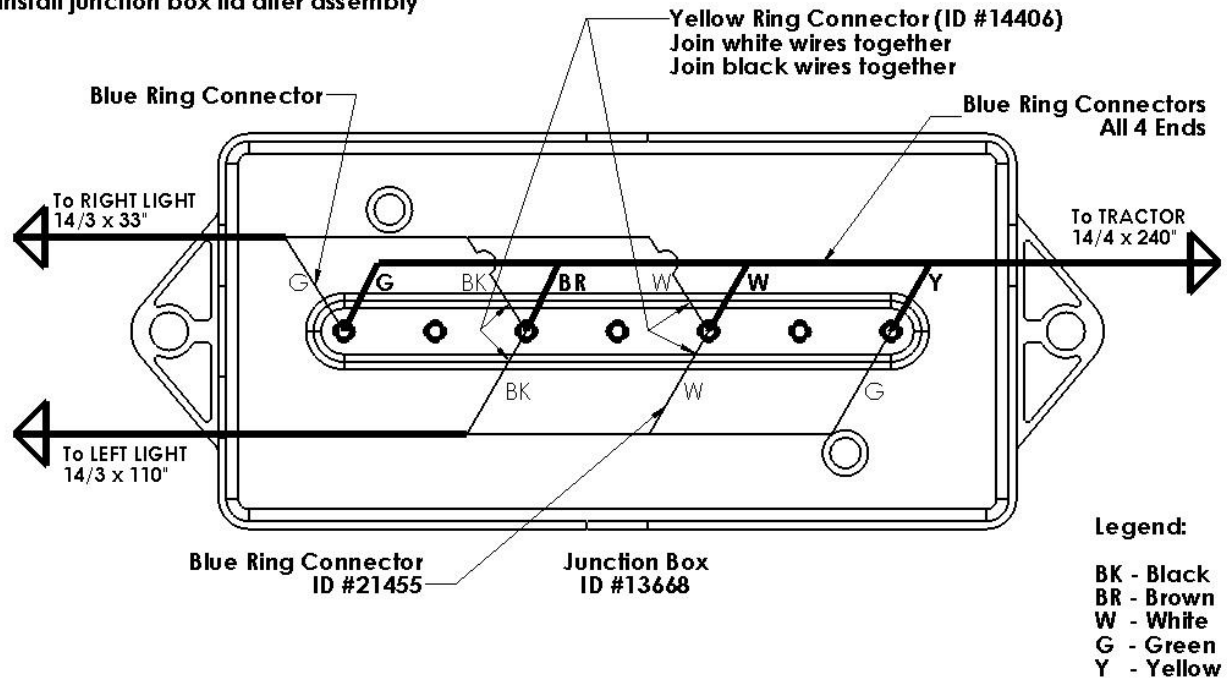
Route the pigtail from the red grommet into the amber grommet
Bring the 14/3 wire into the bottom of the amber grommet
Solder the pigtail connections together to the 14/3 wire
Cover the connections with heat shrink



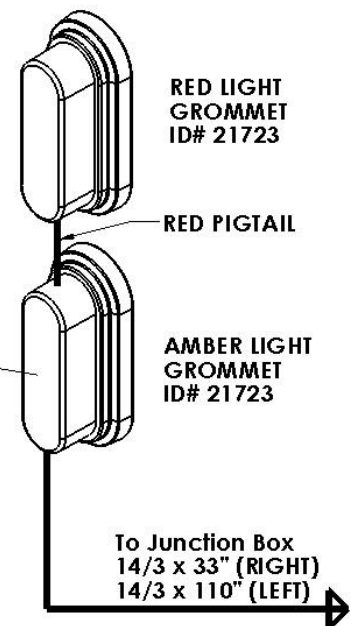
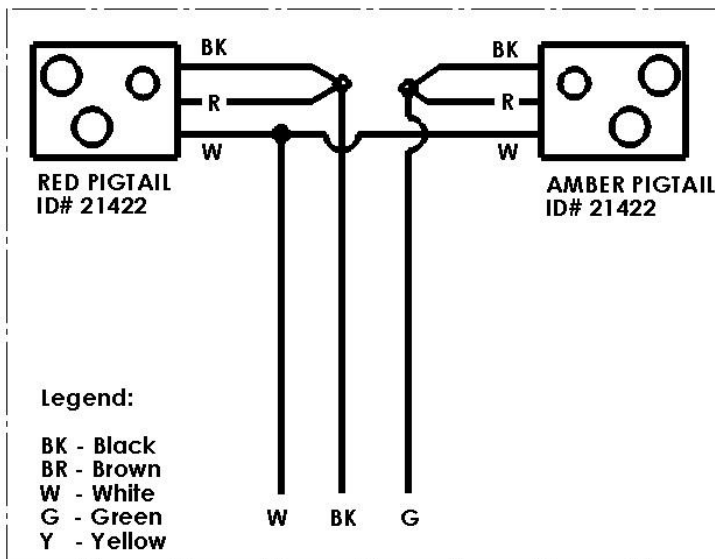


Junction Box: S/N BK5426 - 6358

Tighten all nuts
Install junction box lid after assembly



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