

BALE KING

By:



BRIDGEVIEW



Bale King 6100

Bale processor

OPERATOR & PARTS MANUAL

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02 April 2013

Your Authorized Dealer

Your Serial Number

The Serial Number is located near the front of the left hand wall of the tub.



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Introduction

Thank you for purchasing the Bale King 6100 Bale processor by Bridgeview Manufacturing. By following the instructions in this manual, the Bale King will provide you with years of trouble free operation.

This document is a complete safety, operation and parts manual for the Bale King 6100. The manual explains how to safely and effectively use your bale processor. The procedures outlined in this manual must be followed to ensure safe operation and longevity of your machine. The parts section of this manual lists all the parts you may need to order in case of accident or breakdown.

**!!BEFORE OPERATING YOUR MACHINE, READ THIS
MANUAL ENTIRELY!!**

Warranty Information

Bridgeview Manufacturing Inc. provides warranty to the BALE KING 6100 series to its original owner for a period of two years from the date of purchase according to the following provisions:



Normal Farm Use	Commercial, Government, or Rental Use
First year warranty covers parts* and labour. Second year warranty covers parts* only.	One year warranty covers parts* and labour.
*EXCEPTION: Flails are considered a wearing part and are covered against breakage for 60 days from date of purchase.	

- Warranty **does** cover manufacturing defects in original material and workmanship.
- Warranty **does not** cover damage to the machine and/or its components caused by operation or maintenance outside the guidelines of this manual.
- Warranty **does not** cover wear and tear incurred during normal operation as outlined in this manual.
- Warranty will be **VOID** and Bridgeview Manufacturing Inc. is not liable in any way if the Bale King 6100 is used for any purpose other than the use specified in this manual.
- Tire warranty is covered by the **Tire Manufacturer**.

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- Tampering or altering the diverter valve (steel cap removed or damaged) **VOIDS** Warranty on agitator components.
- Warranty **VOID** if any type of spline adaptor is used between the PTO and tractor.

Requests for warranty service should be directed to an authorized Bale King dealer. Any repairs after the warranty period are the owner's responsibility. Any expenses for overtime requested by the owner to have the machine repaired during the warranty period will be the owner's responsibility. Warranty work will be performed at an authorized dealers premises and no travel time will be reimbursed. Freight costs associated with warranty repairs are not reimbursable. Warranty does not cover downtime. Warranty will be **VOID** if any component is altered or modified in any way from its original manufactured state, unless written permission is given by Bridgeview Manufacturing.

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Bridgeview Manufacturing Inc. reserves the right to make changes or improvements at any time without notice or obligation.



Safety Precautions

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

- **ALWAYS** turn off the PTO when leaving the operating platform.
- **DO NOT** stand in front of the discharge chute while the machine is in operation. Projectiles can travel up to 50m.
- **DO NOT** walk or move under the bale forks unless the cylinder safety lock is in place.
- **DO NOT** enter the machine while in operation.
- **DO NOT** clean the 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

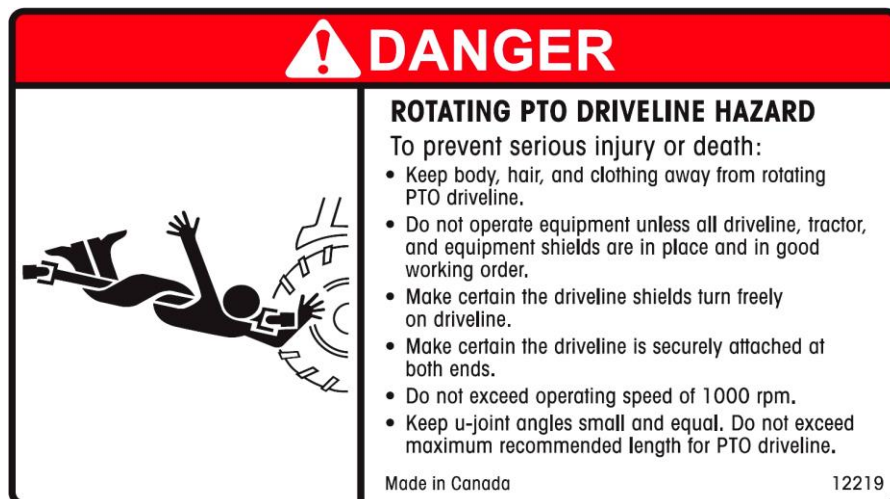


- **ALWAYS** use the provided road safety chains when towing the machine on a public road.
- **DO NOT** operate the machine if any part of the **PTO safety shielding** is missing or is not secured.

Safety Decals

Power Take off

The operator must obey all safety labels and must ensure the original shielding remains in place. A high percentage of drive-line injuries occur when safety shielding is missing or not functioning properly.



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

Discharge

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



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





Features

Power Take-Off



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

The tractor end of the PTO shaft is 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 **100 HP**. The drive shaft is shear-bolt protected. The machine must be operated at **1000 PTO RPM**. **Idling back can cause premature wear to rotor.**



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.

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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, secure the shaft to 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 tractor drawbar is adjusted to **16"** from the end of the tractor PTO shaft to the center of the hole in the drawbar.



Shear bolt

The Bale King is equipped with a **shear bolt** clutch located at the implement end of the PTO shaft. The correct size shear bolt is **3/8"x2" Gr.5**. Any other size or grade will **damage** the shear assembly. Spare shear bolts are included with the machine and are stored along the front top lip of the tub.

If the shear-bolt breaks often you may be over-loading the machine. If this occurs raise the grate assembly for a less aggressive cut, 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

Always store the PTO shaft in the holder when the processor is not in use.

Proper storage of the shaft in the holder keeps the shaft away from the hitch when hooking the tractor to the machine and prevents it from becoming damaged by snow, ice and debris.



Hydraulics

Pressurized hydraulic fluid can cause serious injury.

- When working with hydraulic equipment, eye and hand protection must be worn.
- Do not test for leaks with bare hands.
- Relieve all pressure before removing a hose or fitting.
- Never work under components supported by hydraulic cylinders (forks, side discharge chute, deck) without hydraulic cylinder safety locks in place.



To operate the Bale King each of the 6 hydraulic hoses on the processor must be connected to the hydraulic remotes on the tractor. Each pair must be connected to the same hydraulic remote.



CAUTION: *If a hydraulic pair is connected to two separate remotes, the Bale King 6100 will not function properly.*

The hoses are color coded for easy identification:

HOSE COLOR AND SIZE	CONTROLS
RED LARGE	AGITATORS
YELLOW LARGE	CONVEYOR CHAIN
BLUE SMALL	DEFLECTOR/FORKS/DECK



WARNING: *Excessive oil flow may damage the flow divider cartridge. Always set the tractor's hydraulic flow at a low rate and adjust it to a higher rate until the desired speed is reached.*

Implement Tongue

The adjustable hitch on the Bale King is a cast single tongue with hammer strap insert. It can be attached to a tractor equipped with a hammer strap or with a single drawbar. The design of the tongue allows the machine to move over rough terrain without bending the draw pin.

ATTENTION: Set the drawbar to **16 inches** behind the PTO shaft to ensure proper PTO length. Adjust the hitch height to equal the height of the drawbar. When the hitch height is properly adjusted the machine should sit level with the tractor. If the machine is not level while attached to the tractor, hitch adjustment is required.



Loading fork



The loading fork on the Bale King 6100 can handle up to 6.5ft bale. The loading fork is designed to load bales into the tub while the deck is inclined or flat. The fork design allows an operator to load all six bales without repositioning the bed tilt.

Hoop Grate Adjustment

The hoop grate adjustment controls the rate of feed and cut of processed material. There are six adjustment settings for the hoop grate on the Bale King processor:





Use the following table to set the hoop grate for bale type, condition and desired cut.

HOOP GRATE ADJUSTER POSITION	CUT	RATE OF FEED	BALE TYPE/CONDITION
Less Aggressive	FINE	SLOW	Silage Bales, Damp/Tough Hay Bales, Green Feed, Flax.
Middle	REGULAR	MEDIUM	Dry Hay Bales
More Aggressive	COARSE	FAST	Dry Straw



Processing Tips

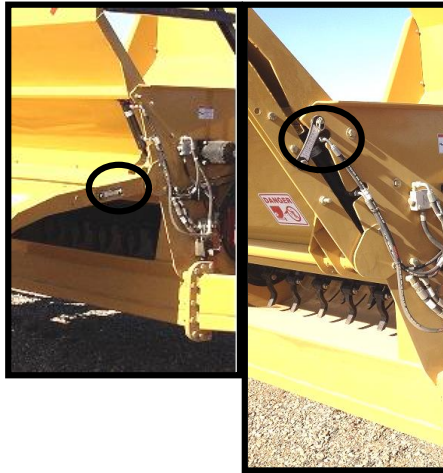
- 1.5 to 2.5 minutes is considered normal processing time for the Bale King 6100.
- Light brittle material like wheat straw may process faster. Tough bale material like slough hay, green feed, or flax requires slower processing. Hoop grate adjustment should be checked regularly.
- Processing a bale too rapidly may cause excessive wear and tear.
- 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.
- Excessive vibration of machine is an indication that the bale is being processed too rapidly. To remedy this, either raise the hoop grate or slow down the agitators.



Deflector

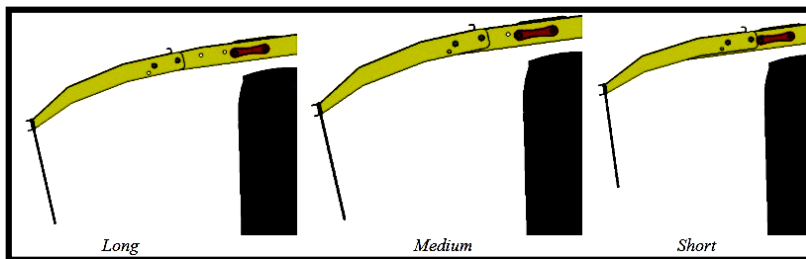
Lowering and raising the side deflector allows an operator to change the distance and distribution of processed material. Processing with the deflector in the down position lays the processed material in a windrow. Processing with the deflector up will spread the material out over a large area.

For transport and storage, the deflector lock must be put in place by moving the deflector into the full upright position. Place the deflector lock over the pins on the deflector and processor then affixing the clips to secure the lock to the processor.



The Bale King 6100 deflector length is adjustable. To adjust deflector length:

- Move the deflector the lowest position.
- Remove 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 and tighten the bolts.





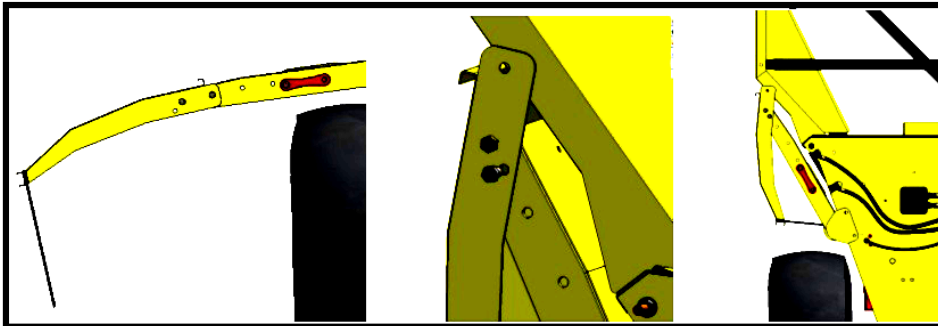
There are three (3) deflector length positions for processing. For storage and transport the deflector can be folded in half.

	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")

To secure the deflector in the folded position safely two people are required as the deflector is heavy. To secure the deflector in the folded position:

- Using the hydraulic controls move the deflector to its lowest position
- Remove the seven bolts (2 front, 3 top, 2 rear) connecting the inner deflector and outer deflector
- Support the outer deflector and move it to the widest setting. 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 using the hydraulic controls.
- 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 outside the tub walls. Some adjustment may be required for it to fit. Replace the bolts on the front and back in the available holes as shown. The deflector should now fit inside the width of the processor.





Agitators

The Bale King is equipped with two hydraulic motor driven agitators to turn the bale.

The agitators must rotate the bale continuously for smooth processing. Reverse rotation if loose debris builds up on either side of the bale chamber. By reversing direction regularly, soft core bales will process more evenly.



Adjust your tractor's flow control speed to about 34 RPM. Fine tune from 34 RPM to achieve desired processing speed.

Optional Fine Chop Kit

The Bale King has an optional fine chop knife kit available to go on the lower tub area. This option is available if you require a fine 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. 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.





Loading deck

The Bale King 6100 can carry 5 bales on the deck and 1 bale inside the tub. It is equipped with a pair of heavy duty conveyor chains to load bales. Set the flow rate on the tractor for the desired loading speed.



Torflex axles

The Bale King is equipped with a pair of Torflex axles that allow a smooth ride over rough terrain. .

Safety Operation

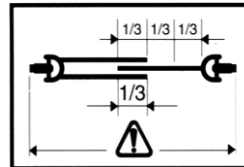
Power and take off Use



Prior to first use of the Bale King, the PTO connectors and shaft length must be adjusted to your tractor.

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

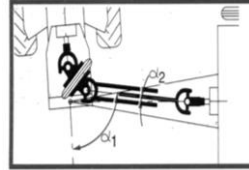
Be sure that the shielding is not damaged and rotates freely on the drive shaft.





Working Angle

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 the elements. When removed from the machine store both halves together to prevent damage. Check all components for proper function and lubrication before use.

Hook up the machine

1. Connect Bale King to tractor drawbar
2. Shut OFF the tractor.
3. Hook up PTO, hydraulic hoses, light plug and the electrical harness into the control box.
4. Remove the jack stand and attach it to the storage jack stub located on the left side of the machine.
5. Attach the safety chain to a secure and safe location on the tractor.
6. Visually inspect and verify that the tractor and processor are safe to operate. Perform any required performance checks to ensure the equipment will operate as expected.





Loading the processor

To load bales on the processor:

1. Position the processor so the back of the deck is aligned with the center of the bale(s) you wish to load.
2. Raise the deck until the skid shoe gently touches the ground.
3. Back slowly under the row of bales and rotate the conveyor chain to draw the bales up the deck, matching tractor speed to the chain speed. Let the chain run until the first bale reaches end of the deck.
4. Stop rotating the chain and load the first bale into the tub with the fork.
5. Rotate the conveyor chain to draw bales up onto the deck while backing slowly under the row of bales.
6. Lower the fork to its home position before you load the deck with the final bale.
7. Lower the deck when the final bale is loaded. Allow tractor to roll forward as you lower the deck.

TIP: Once first bale is on the deck, lower deck slightly to minimize twine build-up on the rear pulley.





Processing bale

Set hoop grate according to the table on page 11. Adjust fine chop if your machine is equipped with it.

1. Engage the PTO when the tractor is idle.
2. Raise PTO speed to 1000 RPM
3. Set deflector: - Bedding – deflector fully raised / Windrow – deflector fully lowered
4. Rotate bale with agitators left or right. Reverse directions periodically to ensure even processing. (Approx agitator speed is 32 – 34 RPM).

Unhook the machine

Shut OFF the tractor and remove the key before unhooking the machine.

Make sure the processor is empty to prevent damage to the hitch jack.

1. Support the processor with the hitch jack.
2. Unhook hydraulics, electrical harnesses and the PTO shaft. Arrange them on PTO holder.
3. Remove hitch pin.

Twine Removal

- Twine or net wrap should be removed after approximately 25 bales.
- Excessive twine build-up may hinder flail operation, can cause rotor imbalance and will make removal more difficult.

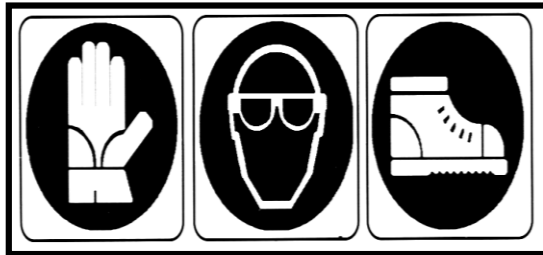




Maintenance and trouble shooting

This section drives you through some maintenance, troubleshooting tips.

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



Power take-off

NOTE: Use *ONLY* genuine Weasler parts when replacing any worn or damaged PTO components.

PTO Shield

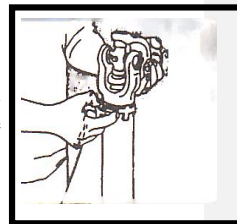
Shield Removal

- 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.



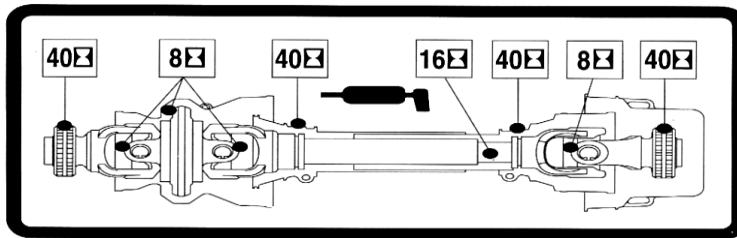
Verification on the shield

The entire shield must turn freely on the shaft. Operating without shields can cause serious injury to the operator.



Greasing the PTO shaft

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



Before a long period of storage grease all the components on the PTO shaft.



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

Failure to grease all the joints VOIDS 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 250 bales).

The gear box requires GL5 80W90 gear oil. The oil should be filled to the level plug and checked on a regular basis.

Oil change interval

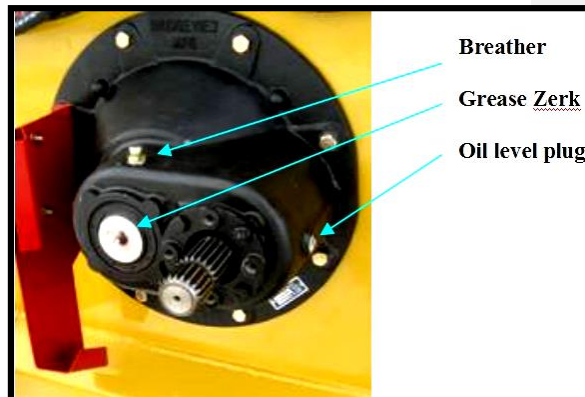
- 50 hours after first use

After the breaking-in period do the oil change every 300 hours or annually (which ever comes first)

Hydraulics

Hydraulic hose

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





Hydraulic cylinder



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

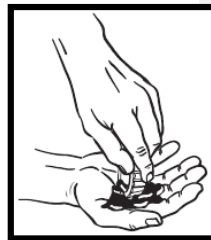
Wheels and tires

Examine tires for cuts, bruises, cracks, bulges and penetrations. Inspect and lubricated axles every year.

Hub Removal

Procedure for maintenance and replacing hubs.

1. Elevate and support the rear axle.
2. Check for excessive wheel end play by pulling the tire assembly towards you and by pushing the assembly away from you. Slight end play is acceptable.
3. Rotate tire slowly forwards and backwards. The wheel assembly should turn freely and smoothly. If a excessive wheel end play, restriction to rotation, noise, or "bumpy" rotation you have to replace the bearing unit.
4. Remove the wheel.
5. Remove the dust cap carefully prying progressively around the flange of the cap.
6. Remove the cotter pin from the spindle nut.
7. Unscrew the spindle nut and remove the spindle washer.
8. Remove the hub from the spindle, being careful not to allow the outer bearing cone to fall out. The inner bearing cone will be retained by the seal.
9. Clean all the part and make sure the bearing and the spindle will not get contaminated.





Bearing and seal inspection

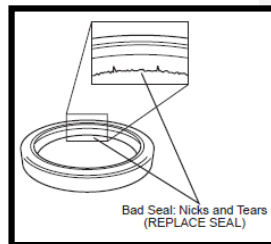
If the bearing presents any pitting or corrosion then the bearing must be replaced. The bearing cup inside the hub must be inspected. When replacing bearing, they should be replaced in sets.

If the bearing is good then repack it with grease.

Whenever the hubs are removed, inspect the seal to ensure that it is not nicked or torn and is still capable of properly sealing the bearing cavity. If there is any question of condition, replace the seal.

Hub installation

If the hub has been removed or bearing adjustment is required, the following adjustment procedure must be followed:



1. After placing the hub, bearings, washers, and spindle nut back on the axle spindle in reverse order as detailed in the previous section on hub removal, rotate the hub assembly slowly while tightening the spindle nut to approximately 50 lbs.-ft.
2. Then loosen the spindle nut to remove the torque. Do not rotate the hub.
3. Finely tighten the spindle nut until it snug.
4. Install cotter pin.
5. Install dust cap.
6. Install the wheels and fasten the nuts.

Tires

Proper tire inflation will prolong the life of the tires.

- Check for proper tire inflation: 25 psi
- Replace any damaged tires: 14Lx16.1 12 ply
- Check and fasten wheel bolts on a regular basis: 125 ft-lb



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.*



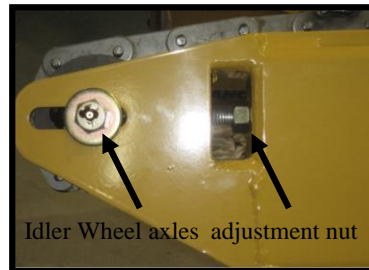
Feeding Chain

Lubricate the 2 chains every 50 hours of work and before a long period of storage.

Chain Adjustment Procedure

Check the tension on all 2 chains.

1. Locate the middle of the deck.
2. Apply 30 lbs of pull on the chain and measure 1 inch between the chain and the deck.
3. Lose the axles on the idler wheel.
4. For tighten the chain just turn the nut clockwise on the idler wheel until you have the right tension.
5. Tighten the nut on the idler wheel.



Twine Removal

- Twine guards are installed to protect the seals and bearings on the wheel hubs, agitator bearings and rotor bearings.
- Inspect all twine guards regularly and remove built up twine.



Note: Shut OFF the tractor and place the tractor in park for twine removal.

- Twine can be removed with the use of the supplied knife, or any other knife.

DO NOT burn the twine from 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.
- Can cause Excessive build-up of melted plastic.
- May dry out bushings causing them to wear prematurely.



Bridgeview Manufacturing Inc. VOIDS warranty if twine burning occurs.

Flail and bushing Replacement

Bridgeview Manufacturing Inc. recommends changing flails **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.

- Inspect bolt, bushings, and flail for wear. Replace if necessary. Do not re-use lock nuts.
- Tighten bolt so brass bushing will not turn
- ALWAYS use Bridgeview PN 10433 $\frac{3}{4}$ X 4 $\frac{3}{4}$ shoulder bolt. Regular bolts will cause premature bushing wear.



Transportation

The Bale King 6100 can be safely towed on public roads if the following precautions are taken:

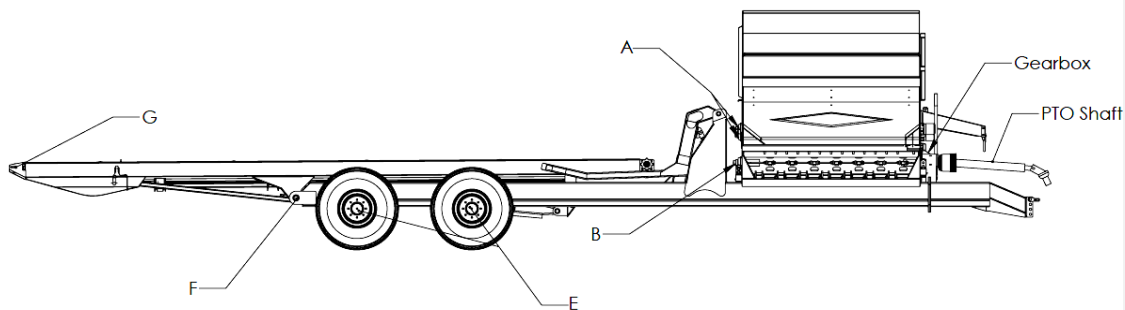
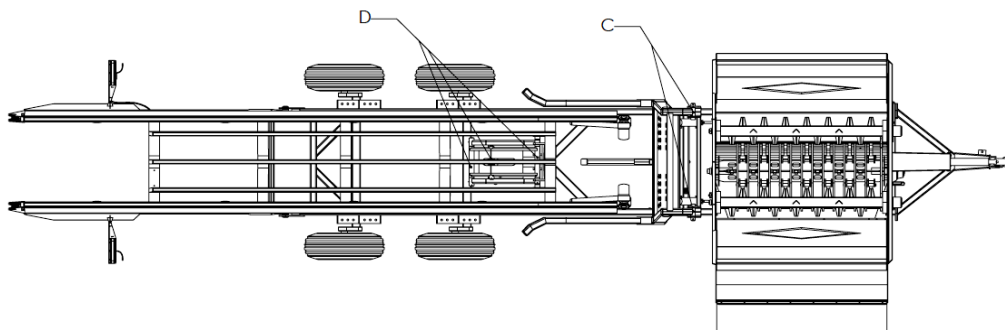
- Tow vehicle must be rated for at least 9000 lb gross weight, and 3000lb tongue weight.
- NEVER exceed 25 mph (40 km/h).
- ALWAYS ensure that the safety chain is properly installed.
- Tow vehicle must have a 7 pin round trailer plug.
- Plug in lights and check for proper functioning (flashing amber lights, solid red lights).
- Ensure that the supplied SMV (Slow Moving Vehicle) sign is clearly visible from the rear.
- Lock side deflector in upright position.
- Ensure that the PTO and hydraulic hoses are properly secured.



Greasing location

Lubricating should be done on a regular basis.

Item	Location	Timeline
A	Agitator bearing x 2	200 Bales (or 10 hours)
B	Rotor bearing x 1	
C	Back fork pivot x 2	
D	Hoist pivot x 8	1000 Bales (or 50 hours)
E	Wheel hubs x 4	Seasonally (or 300 hours)
F	Deck pivot x 2	1000 Bales (or 50 hours)
G	Idler wheel x2	Weekly





Troubleshoot guide

Problem	Possible Cause	Remedy
Excessive main shear bolt breakage	Engaging PTO at high engine speed or too quickly	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	Cut twine off rotor
	Broken flails causing rotor to be out of balance	Replace broken flails (in pairs opposite each other)
	Overloading rotor	Set hoops to less aggressive position Slow rotation of bale Change direction of bale rotation
	Incorrect shear bolt used	Use correct shear bolt
	Operating machine at less than 1000 PTO RPM	Operate machine at rated 1000 PTO RPM
Excessive vibration while processing bales	Excessive twine wrapped on rotor causing flail movement to be restricted	Cut twine off rotor
	Broken flails causing rotor to be out of balance	Replace broken flails (in pairs opposite each other)
	Overloading rotor	Set hoops to less aggressive position Slow rotation of bale Change direction of bale rotation
	Operating machine at less than 1000 PTO RPM	Operate machine at rated 1000 PTO RPM
	Rotor bearing failure	Replace failed parts
Agitators stopping	Excessive loose material in tub causing agitator to jam	Reverse direction of bale rotation Turn bale more slowly
	Tractor relief pressure set too low	Set tractor relief pressure to at least 2500 psi
A single agitator stopping	Mechanical flow divider valve not functioning correctly	Contact your dealer for repairs
	Coupler between motor and agitator broken	Replace failed parts
A single chain stopping	Mechanical flow divider valve not functioning correctly	Contact your dealer for repairs
	Sprocket is broke	Replace failed parts
	The chain might be off the idler wheel	Put the chain back on and tight the chain
Deflector or Tilt doesn't move.	The control box is not plugged in.	Plug in the control box
	The fuse in the control box is failed.	Replace the fuse



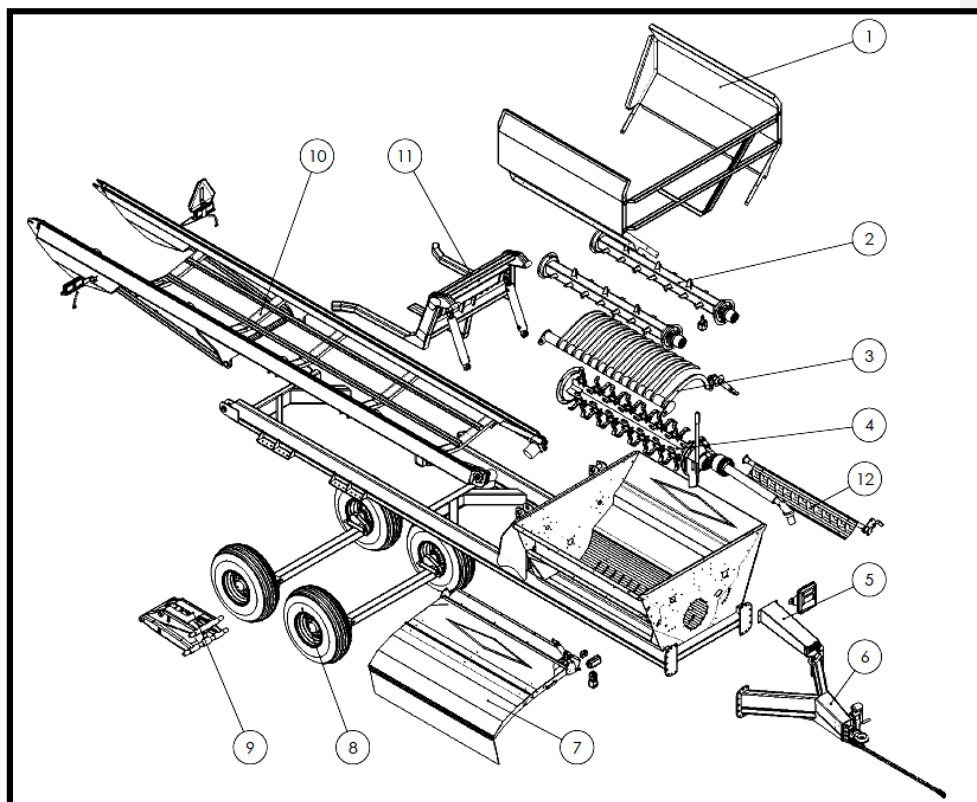
Features and Specifications

Dimensions:

Overall Weight (empty)	9061 lb
Drawbar Weight (empty)	3285 lb
Overall Height	105"
Overall Length	462"
Overall Width (Deflector Folded)	102"
Overall Width (Deflector Up)	118"
Overall Width (Deflector Down)	135"
Tread Width (on centers)	79.25"
Tub Opening	80" x 91"
Rotor Extended Tip Diameter	27"
Discharge Opening	12" x 80"
Spring Lock Lever on Grate and Fine Chop Adjusters	
Dual Hydraulic Lift Cylinders (back fork)	3" x 18" x 1.5" Rod
Single Hydraulic Deflector Cylinder	1-1/2" x 6" x 3/4" Rod
Dual Hydraulic Lift Cylinder (Deck)	4" x 14" x 2.0" Rod
Tire Size	14L-16.1SL (12 ply)
Tire Inflation	25 psi
Wheel Nut Torque	125 ft-lb
Minimum Horse Power Requirements	80-150 HP
Required Number of Hydraulic Remotes	3 (with diverter)
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"
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



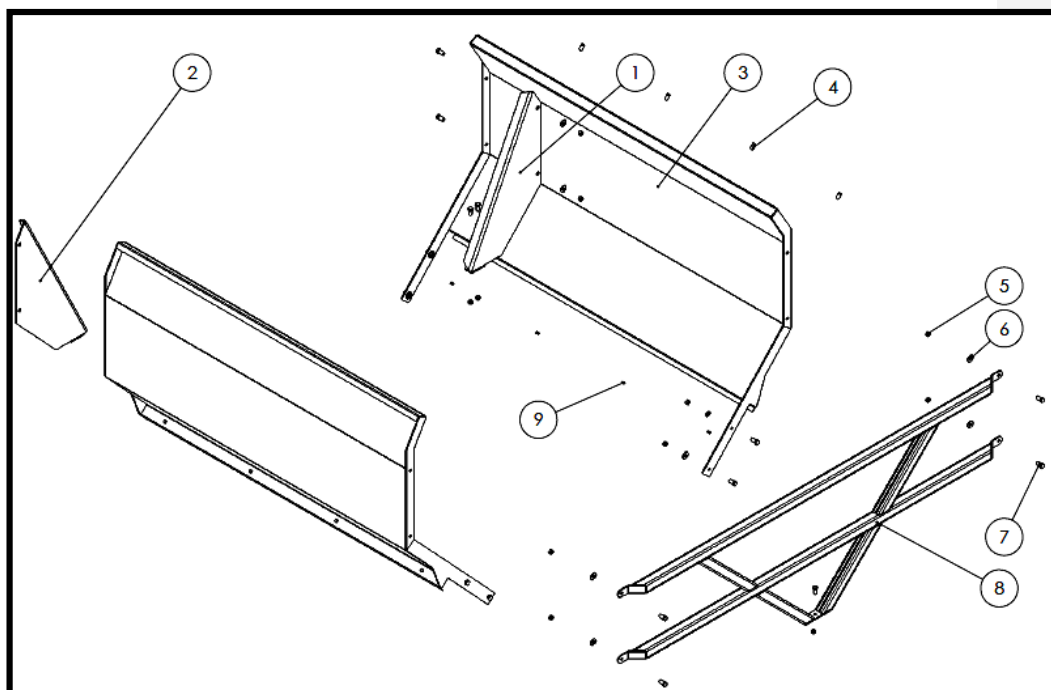
Parts manual



Item #	Description	Item #	Description
1	Upper Tub	7	Deflector
2	Agitator	8	Axles
3	Hoop and handle	9	Scissor Hoist
4	Rotor and twine cutter	10	Main deck
5	PTO holder and manual	11	Loading fork
6	Hitch	12	Fine chop



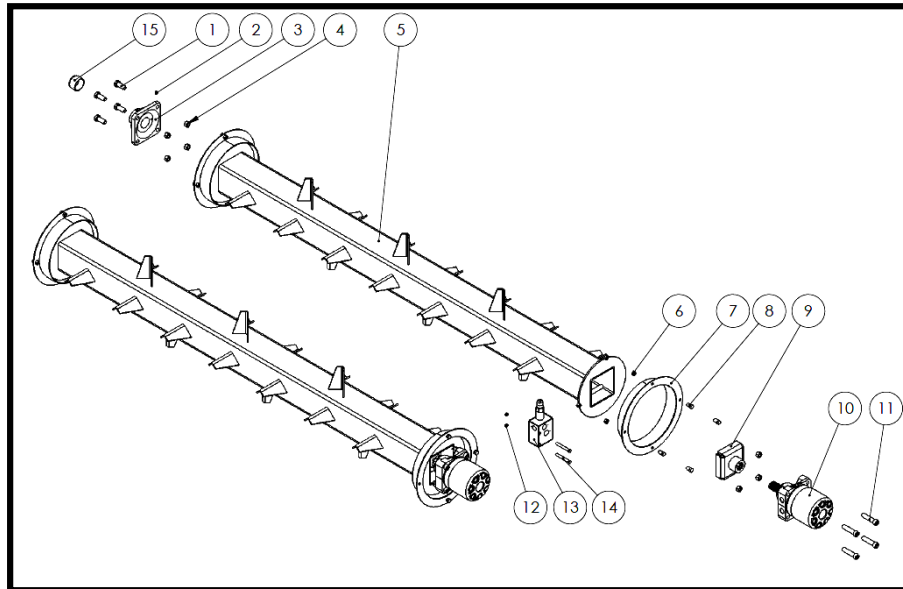
Upper Tub



Item #	Description	ID number	QTY.
1	Wing bolt on bracket (left)	22430	1
2	Wing bolt on bracket (right)	22431	1
3	Top Rack	22428	2
4	3/8" x 1" bolt	13806	8
5	1/2" Serrated Flange Nut	10273	21
6	1/2" Flat Washer	11668	21
7	1/2" x 1-1/4" Bolt	10240	21
8	Front Rack	22427	1
9	3/8" Serrated Flange Nut	10271	8



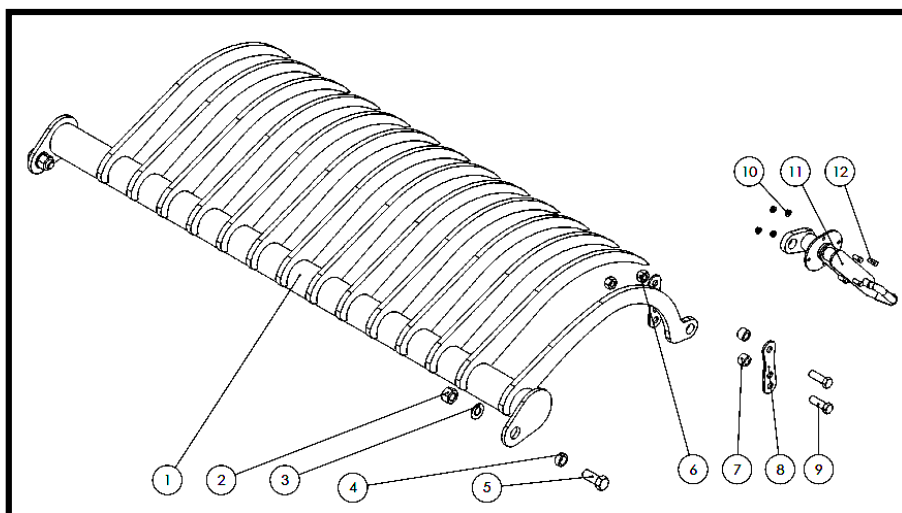
Agitators



Item #	Description	ID number	QTY.
1	1/2" x 1-1/2"	10174	8
2	Grease Zerk (Bearing)		2
3	Agitator Bearing	10038	2
4	1/2" Serrated Flange Nut	10273	16
5	5 Inch Agitator (28 Flail)	22418	2
6	3/8" Serrated Flange Nut	10271	16
7	Agitator Twine Guard	22419	4
8	3/8" x 3/4" Bolt	11816	16
9	Agitator Insert (5 x 5)	22084	2
10	Hydraulic Motor ***Seal Kit for Hydraulic Motor***	21720 10048	2
11	1/2" x 2-1/2" Allen Head Bolt	16863	8
12	1/4" Serrated Flange Nut	11812	2
13	Flow Divider for Motors	23368	1
14	1/4" x 2-3/4" Bolt	11811	2
15	Beater Shaft Cap	17381	2



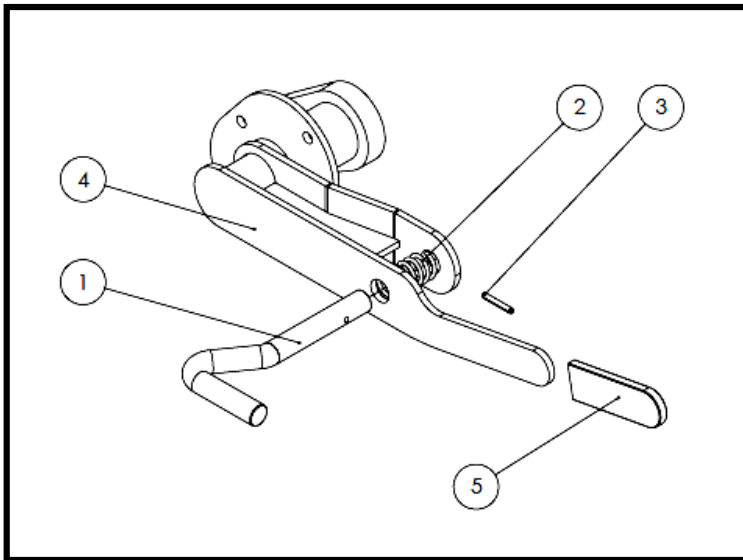
Hoop grate and handle



Item #	Description	ID number	QTY.
1	Hoop grate Assembly	22414	1
2	1" Stover Lock Nut	21746	2
3	1" Flat Washer	14472	2
4	Hoop Pivot Bushing	22417	2
5	1" x 2-1/2" Bolt	21820	2
6	3/4" Nylon lock Nut	10007	2
7	Dog Bone Bushing	22415	2
8	Dog Bone	22416	2
9	3/4" x 2-1/2" Bolt	14470	2
10	3/8" Serrated Flange Nut	10271	4
11	Hoop Handle	22023	1
12	3/8" x 1" Bolt	13806	4



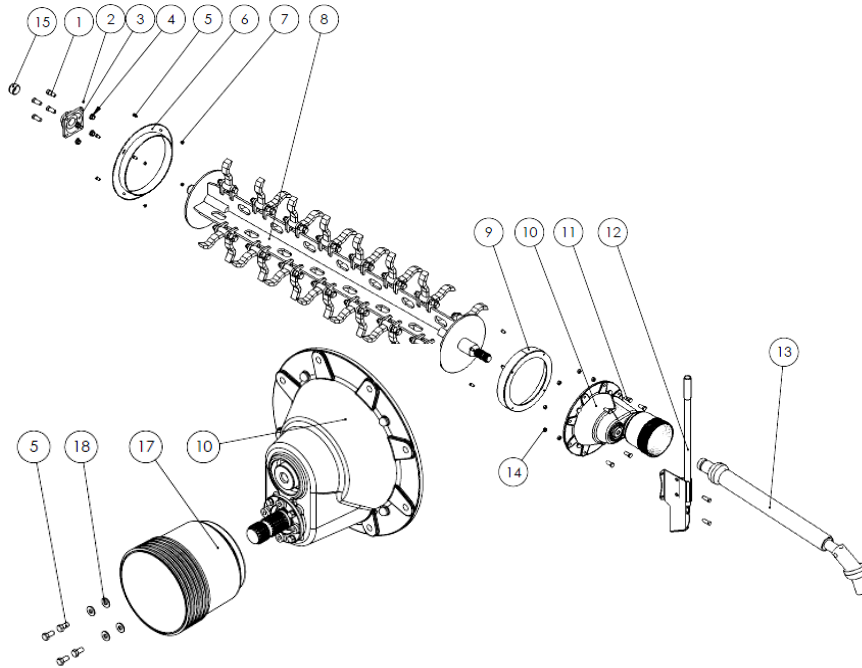
Hoop Handle



Item #	Description	ID number	QTY.
1	S Handle	22187	1
2	Hoop Handle Spring	19471	1
3	3/16" x 1-1/4" Roll Pin	10302	1
4	Hoop Adjustment Handle	22023	1
5	Rubber Handle	10297	1



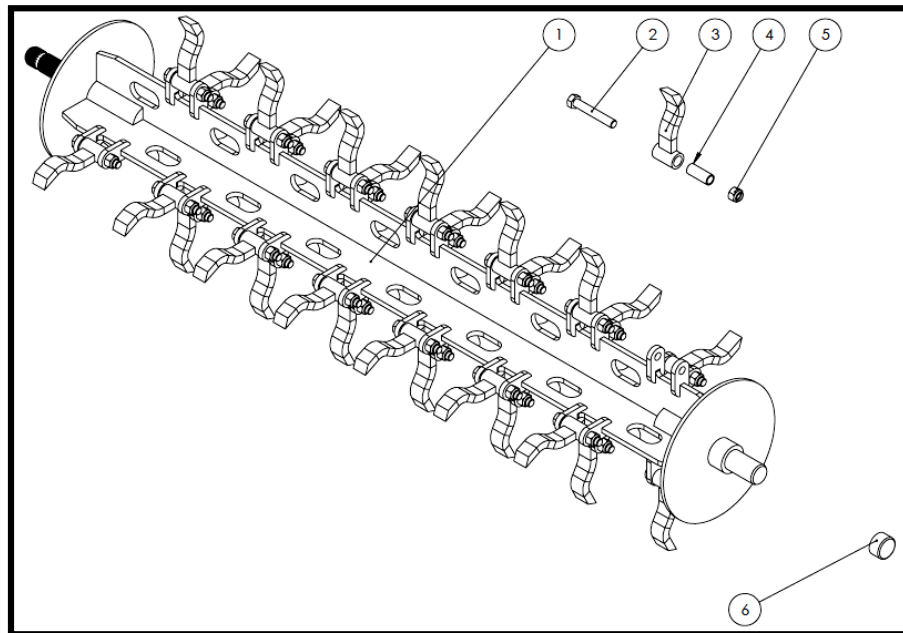
Rotor and twine cutter



Item #	Description	ID number	QTY.
1	5/8" x 1-3/4" Bolt	10274	4
2	Grease Zerk (Bearing)		1
3	Rotor Bearing	10221	1
4	5/8" Serrated Flange Nut	15398	4
5	3/8" x 3/4" Bolt	11816	12
6	Rotor Twine Guard	22413	1
7	3/8" Serrated Flange Nut	10271	4
8	10" 28 Flail X Rotor	See Breakdown	1
9	Gearbox Twine Guard	23002	1
10	B & P Gearbox	22158	1
11	1/2" x 1-1/2" Bolt	10174	8
12	Twine Cutter	See Breakdown	1
13	Complete PTO Assembly, Weasler Cat. 6	-	1
14	1/2" Serrated Flange Nut	10273	8
15	Rotor Shaft Cap	17380	1
17	PTO Shield	10421	1
18	3/8" Flat Washer	11667	4



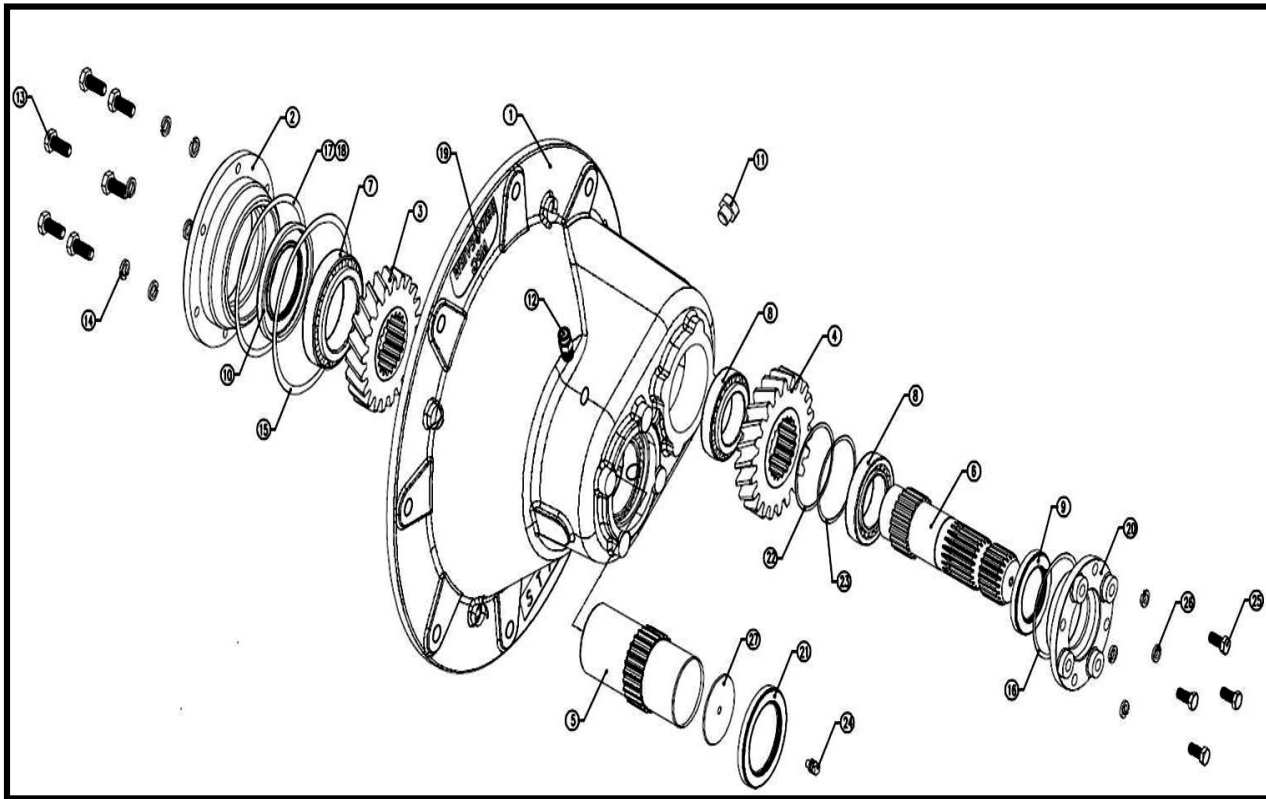
10" 28 Flail X Rotor



Item #	Description	ID number	QTY.
1	10" 28 Flail X Rotor	22449	1
2	3/4" x 4.75" Bolt	10443	28
3	Flail	22412	28
4	Flail Bushing	10005	28
5	3/4" Stover Lock Nut	11823	28
6	Rotor Shaft Cap	17380	1



Gearbox Assembly

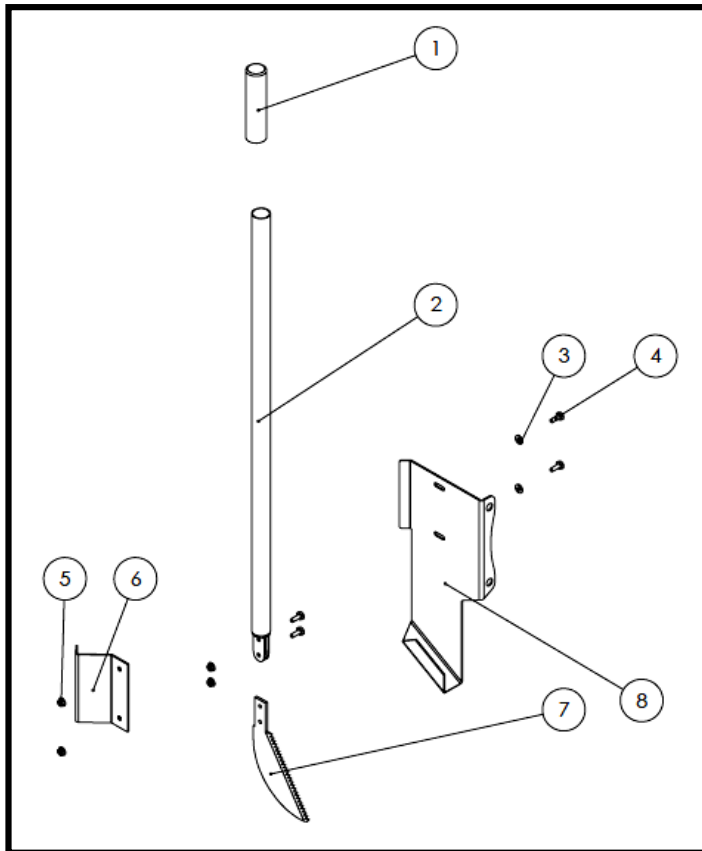




ITEM #	DESCRIPTION	ID NO	QTY.
1	Housing	22158	1
2	End Cap	22158	1
3	Output Gear	22158	1
4	Input Gear	22158	1
5	Output Shaft	22158	1
6	Input Shaft	22158	1
7	Bearing(32012)	10496	2
8	Bearing(32009)	10497	2
9	Seal 45x60x8	24013	1
10	Seal 60x100x10	10498	1
11	3/8 NPT Pipe Plug	24014	2
12	3/8 NPT Relief Plug	24015	1
13	M8x25 Bolt Gr8.8	24026	6
14	M8 Lock Washer	24016	6
15	O-Ring	24017	1
16	O-Ring	24018	1
17	Shim 125x164x0.1	24022	2
18	Shim 125x164x0.3	24023	2
19	Name Plate(Bridgeview)	---	---
20	End Cap	22158	1
21	Seal 60x85x10	10500	1
22	Shim 68x74.5x0.1	24024	2
23	Shim 68x74.5x0.3	24025	2
24	1/4-28 UNF Grease Nipple	12080	1
25	M10x25 Bolt Gr8.8	15087	4
26	M10 Lock Washer	24021	4
27	Press Cup	24020	1



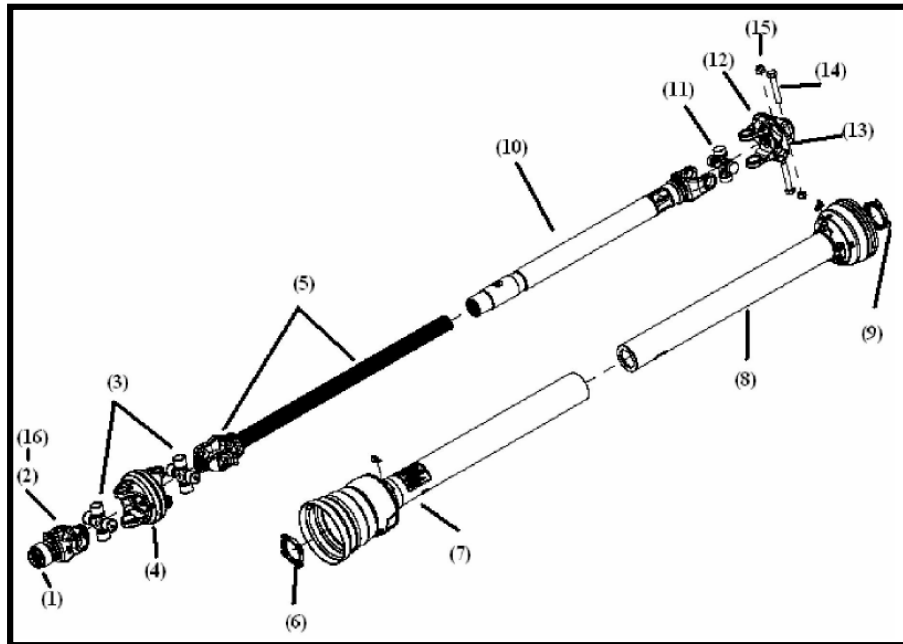
Twine cutter



Item #	Description	ID number	QTY.
1	Rubber Handle	17587	1
2	Twine Cutter Handle	20862	1
3	1/4" Flat Washer	11666	2
4	1/4" x 3/4" Bolt	11809	4
5	1/4" Serrated Flange Nut	11812	4
6	Twine Cutter Holder Inside	176901	1
7	Twine Cutter Blade	17438	1
8	Twine Cutter Holder Outside	176911	1



Complete PTO Assembly, Weasler Cat. 6

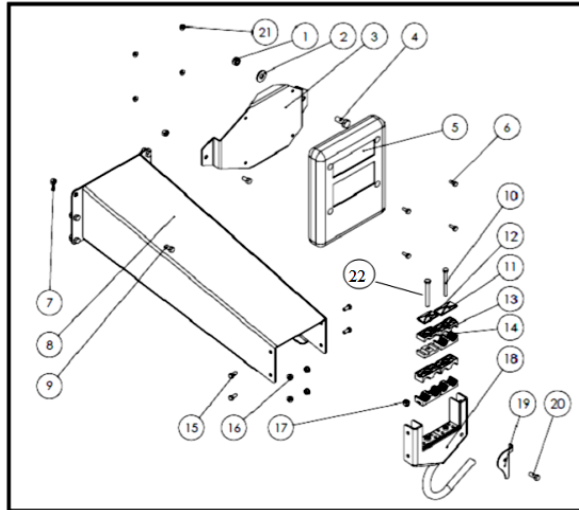


Item #	Description	ID number	QTY.
1	Safety Slide Lock Repair Kit	17567	1
2	WWCV Auto-Lock Yoke ASM 1-3/8"-21 Spline	20549	1
3	CV Cross and Bearing Kit	20550	2
4	CV Center Housing	20551	1
5	Yoke and Shaft Assembly Tractor Side	20552	1
6	Guard Repair Kit Tractor Side	20553	1
7	Outer Guard Assembly Tractor Side (Incl. item #6)	17583	1
8	Inner Guard Assembly Implement. Side (Incl. item # 9)	17585	1
9	Guard Repair Kit Implement Side	17272	1
10	Yoke and tube Assembly Implement Side	17584	1
11	Cross and Bearing Kit	17573	1
12	Shear Assembly	17581	1
13	Shear Bolt, 3/8" x 2" NC Grade 5	11817	1
14	5/8" x 3-1/2" NF Grade 8 Bolt		2
15	5/8" NF Lock Nut		2
16	WWCV Auto-Lock Assembly 1-3/4" - Spline	20556	1

Note: CV U-joint cross has equal length arms (4.19"). Bearing cup diameter (1.38").



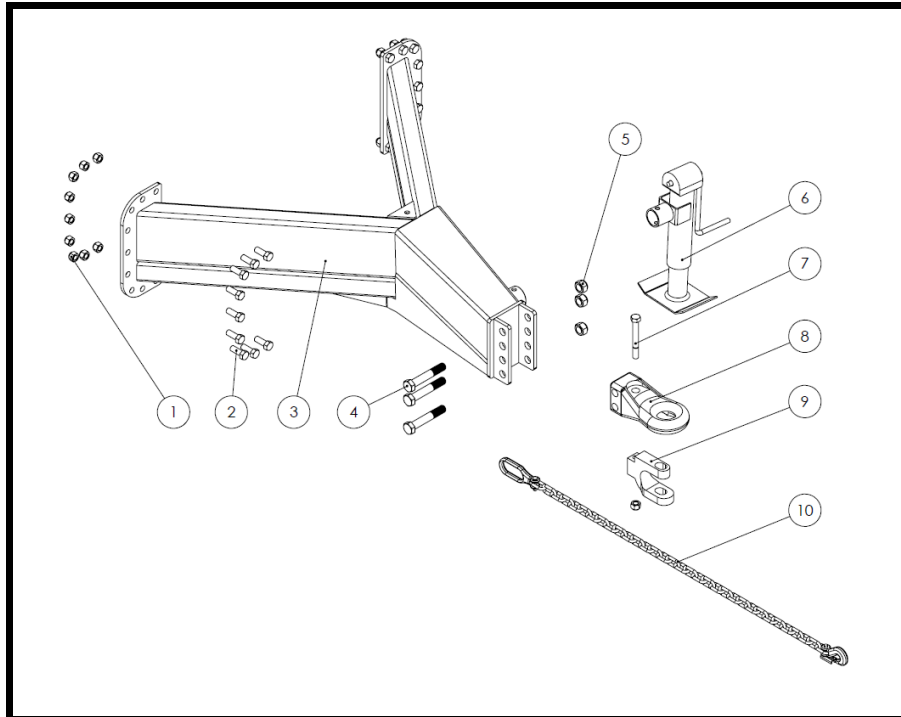
PTO holder and manual



Item #	Description	ID number	QTY.
1	1/2" Serrated Flange Nut	10273	1
2	1/2" Flat Washer	11668	1
3	Manual Cover Mount	22439	1
4	1/2" x 1-1/4" Bolt	10240	1
5	Operator Manual Cover	22409	1
6	1/4" x 3/4" Bolt	11809	4
7	3/8" Serrated Flange Nut	10271	8
8	PTO holder long channel	22836	1
9	3/8" x 3/4" Bolt	11816	7
10	5/16" x 3" Bolt	22844	1
11	Hose Clamp Top 1/2" Hose	21725	1
12	Hose Clamp Top 1/4" Hose	22182	1
13	Hydraulic Hose Clamp 1/2"	21561	6
14	Hydraulic Hose Clamp 1/4"	22181	2
15	5/16" x 3/4" Bolt	20903	4
16	5/16" Serrated Flange Nut.	11814	4
17	3/8" Nylon Lock Nut	10806	1
18	Front Plate	22838	1
19	PTO Transport Lock	22450	1
20	3/8" x 1" Bolt	13806	1
21	1/4" Serrated Flange Nut	11812	4
22	5/16"x3 1/2" Bolt	13765	1



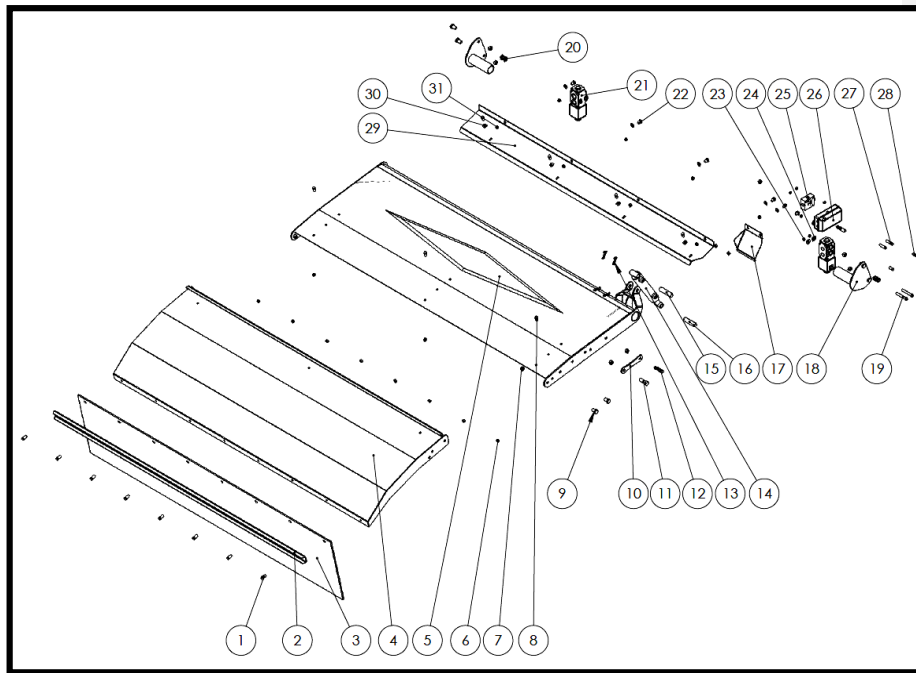
Hitch



Item #	Description	ID number	QTY.
1	3/4" Stover Lock Nut	11823	19
2	3/4" x 2" Bolt	13800	18
3	Hitch	23407	1
4	1" x 6" Bolt	21728	3
5	1" Stover Lock Nut	21746	3
6	7000 LBS Jack	23677	1
7	3/4" x 6" Bolt GR.8	23170	1
8	Casting Hitch (7500 LBS)	23404	1
9	Hitch Clevis	22441	1
10	21000 LBS Safety Chain	23559	1



Deflector



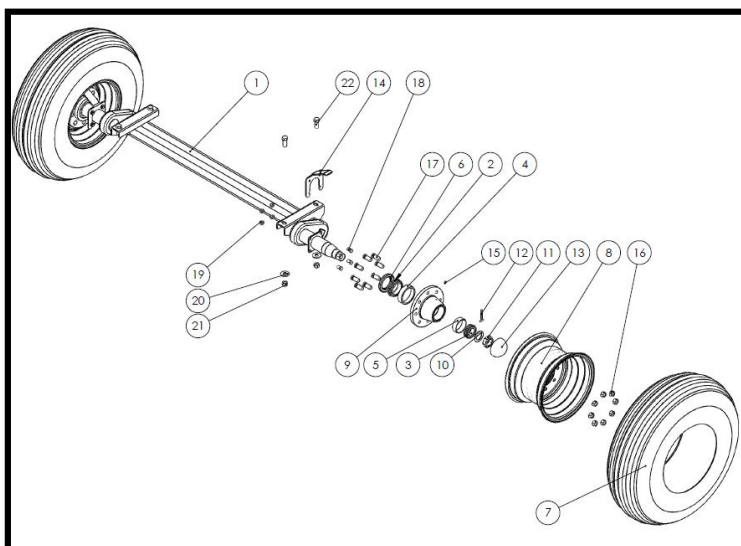
Item #	Description	ID number	QTY.
1	3/8" x 1.0" Bolt	13806	8
2	Rubber Support Channel	22423	1
3	Deflector Rubber	10477	1
4	Outer Deflector	22424	1
5	Inner Deflector	22425	1
6	3/8" Nylon Lock Nut	10806	8
7	1/2" Serrated Flange Nut	10273	14
8	3/8" x 3/4" Bolt	11816	7
9	1/2" x 1" Bolt	10824	8
10	Deflector Lock Bar	22422	1
11	1/2" x 2 Bolt	10322	1



12	1/2" x 2-1/2" Threaded Pin	13231	2
13	Cotter Pin (3/16" x 1-1/4")	11669	4
14	Hydraulic Cylinder (1.5 x 6 x 1)	21711	1
15	Cylinder Pin: 3/4" x 3-3/4" (3" Usable)	22008	1
16	Cylinder Pin: 3/4" x 3-1/2" (2-3/4" Usable)	22001	1
17	Deflector Fill Plate	22945	1
18	Deflector Pivot	22426	2
19	5/16" x 3.0" Socket Head Bolt	11783	4
20	Push-in Grommets 5/16" ID	21428	4
21	Electrical Diverter Valve	11743	2
22	3/8" x 3/4" Carriage Bolt	14072	6
23	5/16" Serrated Flange Nut	11814	8
24	5/16" Flat Washer	12496	4
25	Pilot Operated Check Valve	19114	1
26	Junction Box	13668	1
27	5/16" x 1.0" Bolt	20906	2
28	5/16" x 1-3/4" Bolt	21726	2
29	Hose Cover Panel	22436	1
30	3/8" Flat Washer	11667	10
31	3/8" Serrated Flange Nut	10271	9



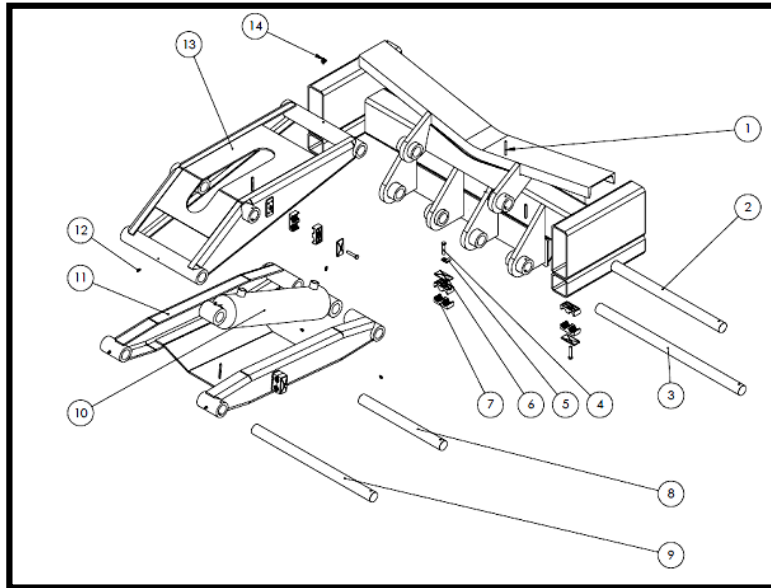
Axles



Item #	Description	ID number	QTY.
1	Torflex axles	22850	1
2	Inner Bearing	23567	2
3	Outer Bearing	23568	2
4	Inner Cup	23571	2
5	Outer Cup	23570	2
6	Seal	23569	2
7	Tire 14L-16.1SL (12 Ply)	22851	2
8	Rims W11C x 16.1 x 8	23742	2
9	Hubs 8 on 8	23572	2
10	Washer For Spindle	23564	2
11	Castle Nut	23566	2
12	Cotter Pin	23565	2
13	Dust Cap	23563	2
14	Twine Guard	23744	2
15	Grease Zerk (Hubs)	10270	2
16	Wheel Nut	23183	16
17	Wheel Stud	23572	16
18	1/2" x 1-1/4" Bolt	10240	8
19	1/2" Serrated Flange Nut	10273	8
20	3/4" Flat Washer	13317	4
21	3/4" Stover Lock Nut	11823	4
22	3/2" x 2.0" Bolt	13800	4



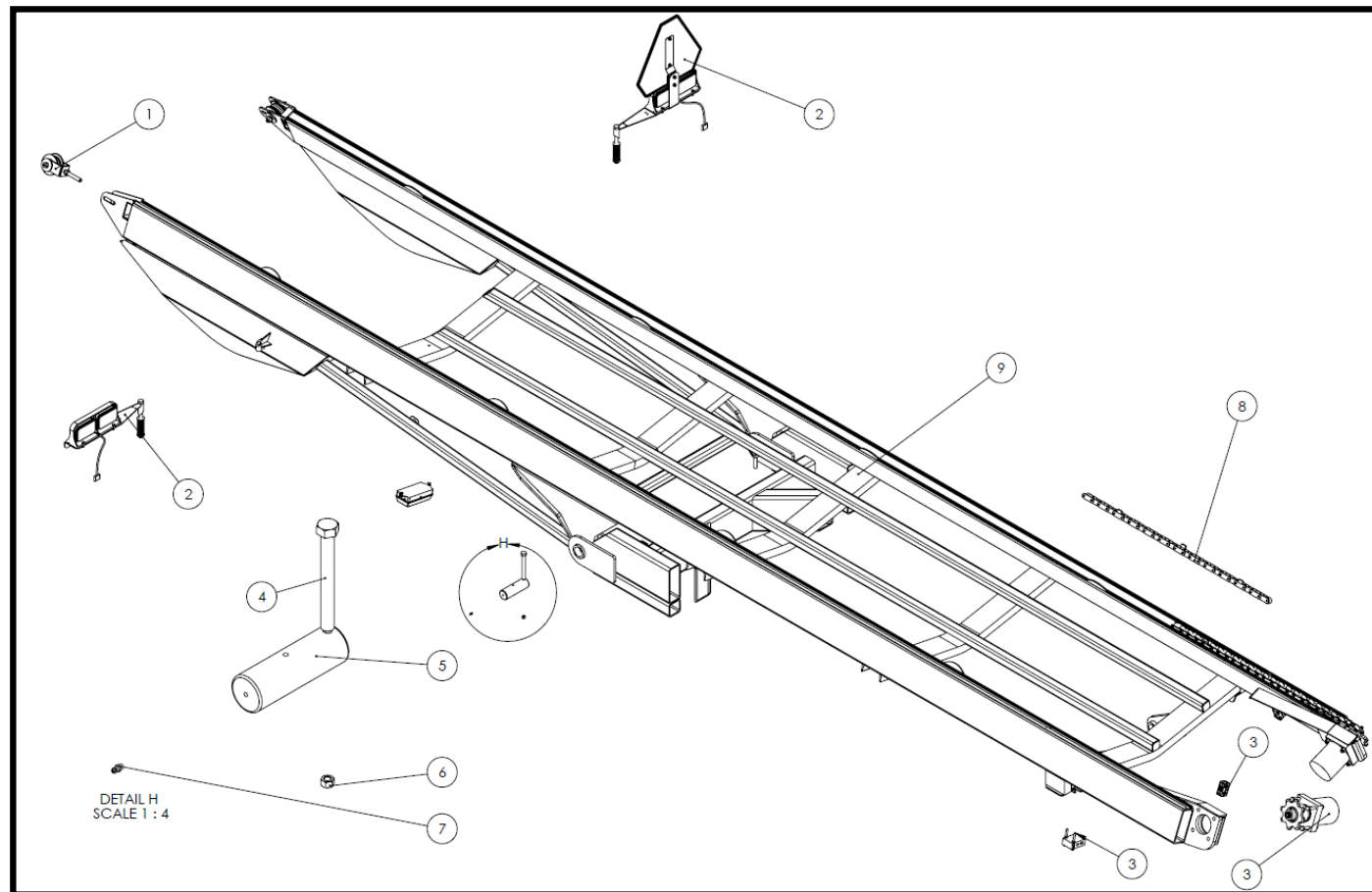
Hoist



Item #	Description	ID number	QTY.
1	1/4" x 2-1/4" Roll Pin	23544	4
2	Top Pin (20-7/8")	23418	1
3	Bottom Pin (27-5/8")	23419	1
4	5/16" x 1-3/4" Bolt	21726	4
5	Wire Clamp	13629	1
6	Hose Clamp Top Mount	21725	4
7	Hydraulic Hose Clamp 1/2"	21561	8
8	Cylinder Pin (15-11/16")	23417	1
9	Linkage Pin (22-7/8")	23416	1
10	Hydraulic cylinder (4 x 14 x 2)	23094	1
11	Bottom Linkage	23743	1
12	Grease Zerk	16364	8
13	Top Linkage	23741	1
14	Grease Zerk (90° Degrees)	16389	1



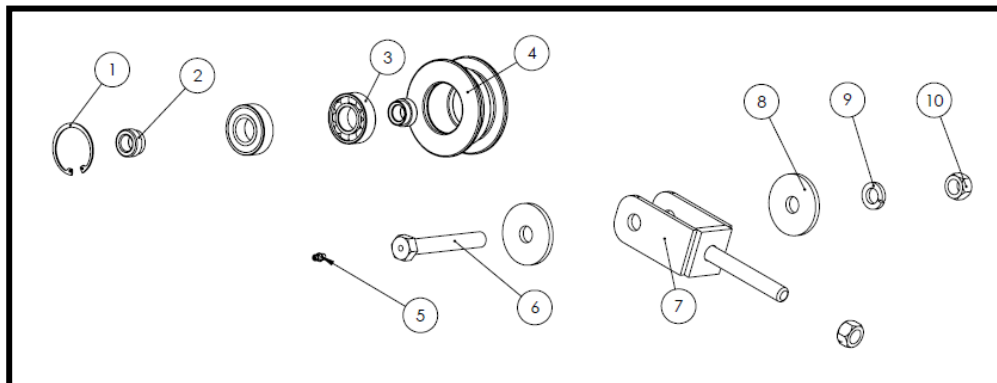
Main deck





Item #	Description	ID number	QTY
1	Idler Wheel Assembly	See Breakdown	2
2	Light Assembly	See Breakdown	--
3	Chain Motor Assembly	See Breakdown	--
4	3/8" x 3-1/4" Bolt	23325	2
5	Pivot Pins	23594	2
6	3/8" Nylon Lock Nut	10806	2
7	Grease Zerk	16364	2
8	2082 Chain With Tab	23693	2
	2082 Connector	23093	2
9	Main Deck	23748	1

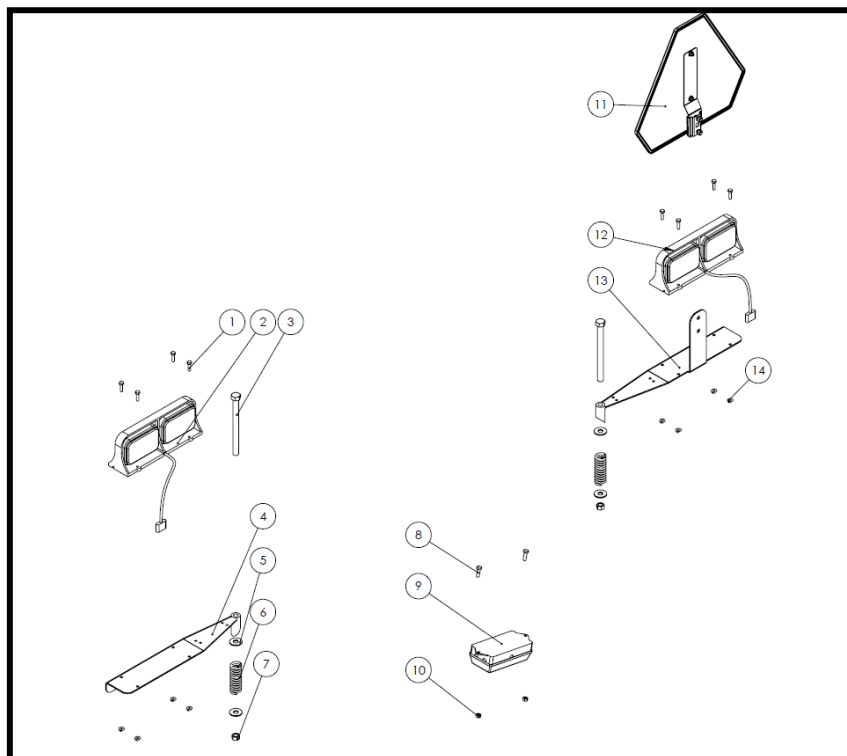
Idler Wheel Assembly



Item #	Description	ID number	QTY.
1	Snap ring Idler Wheel	23755	1
2	Idler Bushing	23756	2
3	Idler Wheel Bearing	23757	2
4	Idler Wheel	23758	1
5	Grease Zerk	16364	1
6	5/8" x 4-1/2" Grease	23597	1
7	Idler Wheel Clevis	23745	1
8	5/8" Heavy Flat Washer	17972	2
9	5/8" Lock Washer	13792	1
10	5/8" Nut	10176	2



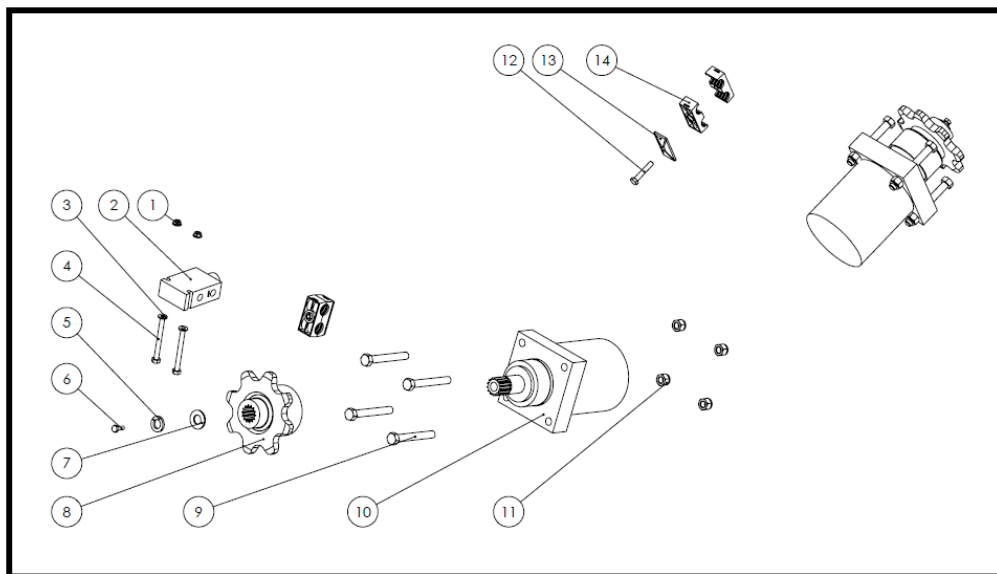
Light assembly



Item #	Description	ID number	QTY.
1	1/4" x 1.0" Bolt	11810	8
2	Right Light	22969	1
3	1/2" x 7-1/2" Bolt	13640	2
4	Right Light Bracket	23746	1
5	1/2" Flat Washer	11668	4
6	Compression Spring	20973	2
7	1/2" Nylon Lock Nut	10241	2
8	5/16" x 1.0" Bolt	20906	2
9	Junction Box	13668	1
10	5/16" Serrated Flange Nut	11815	2
11	Plastic SMV Sign kit	22411	1
12	Left Light	22968	1
13	Left Light Bracket	23749	1
14	1/4" Serrated Flange Nut	11812	8



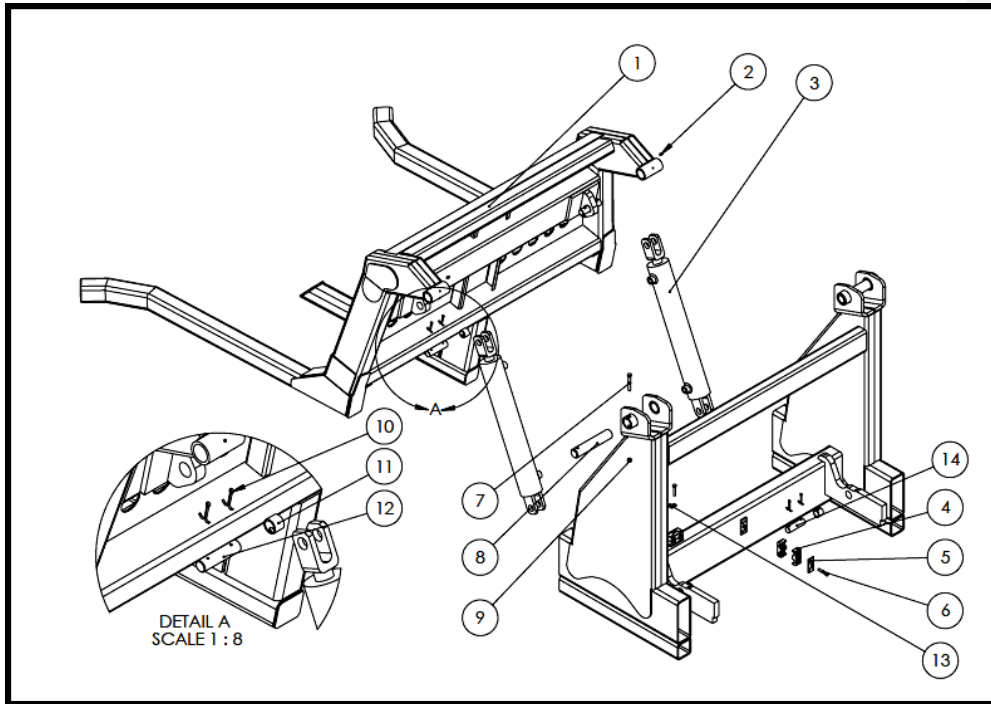
Chain Motor Assembly



Item #	Description	ID number	QTY.
1	1/4" Serrated Flange Nut	11812	2
2	Flow Divider (2082 Chain)	11742	1
3	1/4" Flat Washer	11666	2
4	1/4" x 2-3/4" Bolt	11811	2
5	5/8" Lock Washer	13792	2
6	5/8" x 1-3/4" Bolt NF Grade 8	10274	2
7	5/8" Flat Washer	13975	2
8	8 Tooth Sprocket	23747	2
9	1/2" x 4.0" Bolt	23540	8
10	Hydraulic Motor	22586	2
11	1/2" Nylon Lock Nut	10241	8
12	5/16" x 1-3/4" Bolt	21726	2
13	Hose Clamp Top 1/2"	21725	2
14	Hydraulic Hose Clamp 1/2"	21561	4



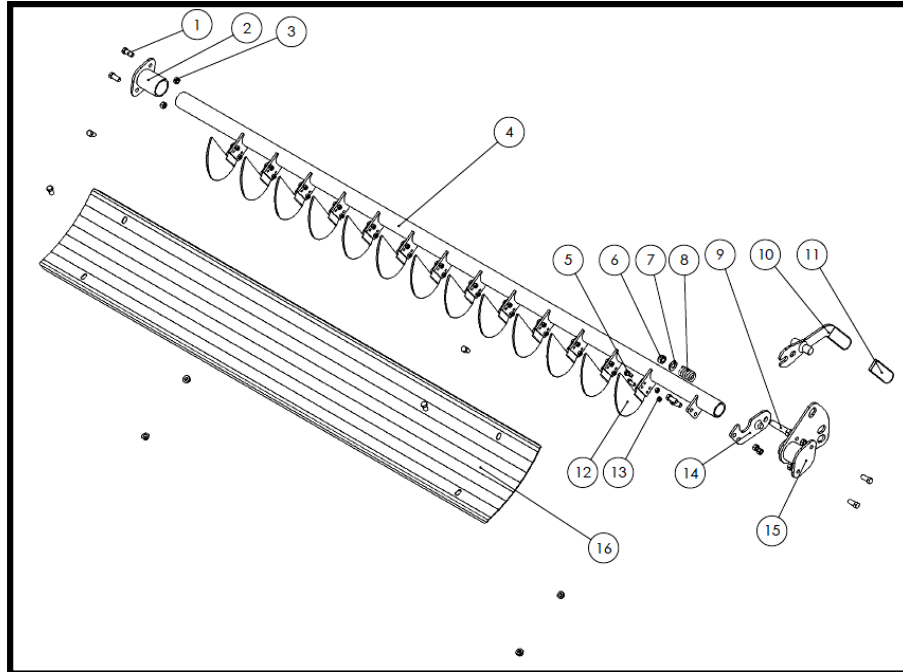
Loading fork



Item #	Description	ID number	QTY.
1	Back Fork	23697	1
2	Grease Zerk	16364	2
3	Hydraulic Cylinder (3 x 18 x 1.5)	21717	2
4	Hydraulic Hose Clamp 1/2"	21561	14
5	Hose Clamp Top 1/2"	21725	7
6	5/16" x 1-3/4" Bolt	21726	7
7	3/8" x 2-3/4" Bolt	20908	2
8	Fork Pivot Pin	22006	2
9	3/8" Nylon Lock Nut	10806	2
10	Cotter Pin 93/16" x 1-1/2"	10072	8
11	Spring Bushing (1" Pin)	23708	4
12	Cylinder Pin (1" x 4-1/16")	22190	2
13	Wiring Clamp	13629	4
14	Cylinder Pin (1" x 3-1/2")	22291	2



Fine chop



Item #	Description	ID number	QTY.
1	3/8" x 1" Bolt	13806	10
2	Fine Chop Mount (Rear)	22444	1
3	3/8" Serrated Flange Nut	10271	10
4	Fine Chop Bar	22442	1
5	1/4" x 3/4" Bolt	11809	26
6	1/2" Nylon Lock Nut	10241	1
7	1/2" Flat Washer	11668	1
8	Fine Chop Handle Spring	21713	1
9	1/2" x 2-1/2" Bolt	10804	1
10	Fine Chop Handle	22446	1
11	Rubber Handle	10297	1
12	Fine Chop Blade	10404	13
13	1/4" Serrated Flange Nut	11812	26
14	Fine Chop Handle Mount	22445	1
15	Fine Chop Mount (Front)	22443	1
16	Fine Chop Slot Cover	22438	1



Decal





7



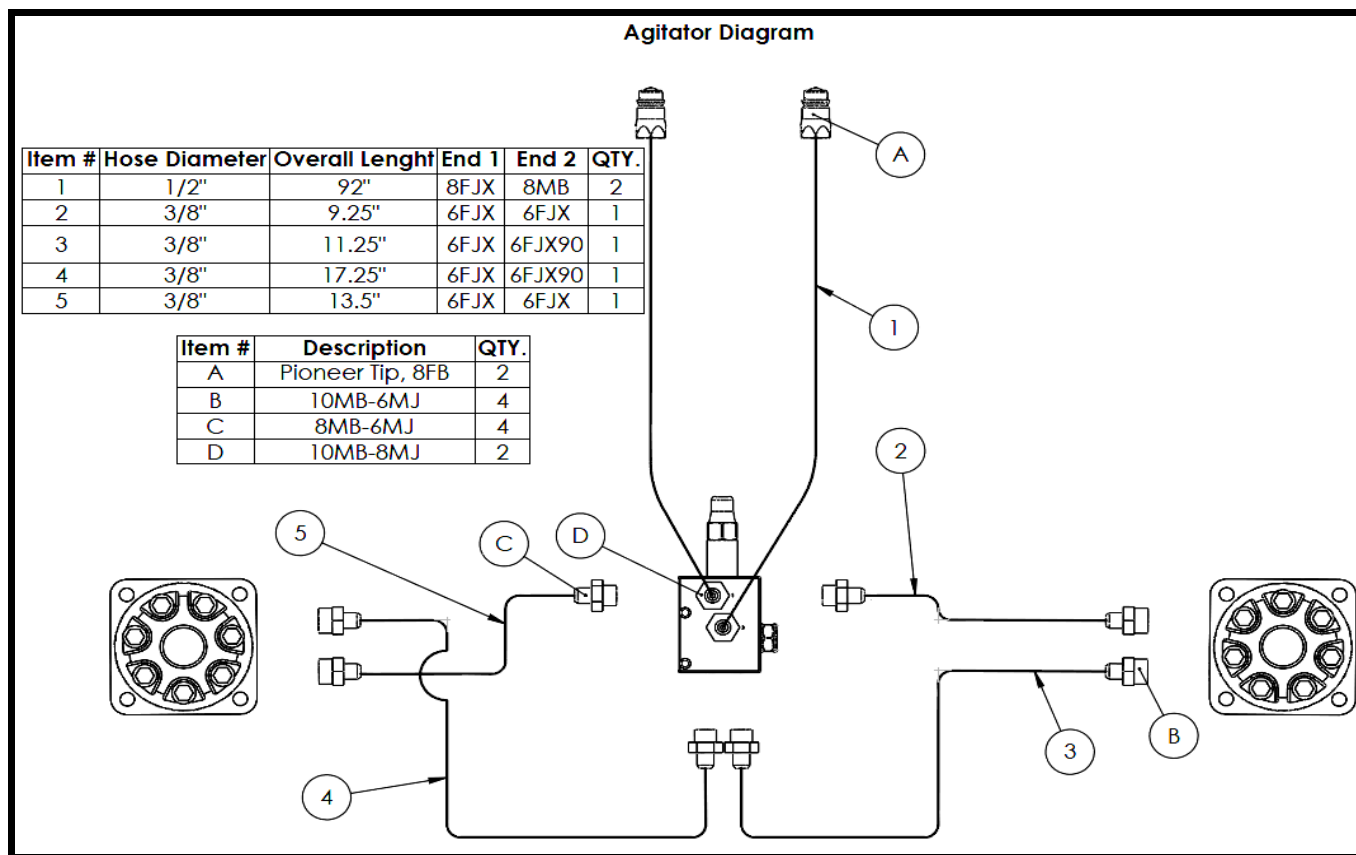
8

9

Item #	Description	ID number	QTY.
1	PTO Caution	12219	2
2	Stand Clear of Lift	12229	2
3	Side Discharge	12230	4
4	PIMA/AMC	12239	1
5	Red Reflective	13324	3
6	Amber Reflective	13325	3
7	Bale King 6100	22843	2
8	Hoop Adjustment	22165	1
9	Deflector Lock	22292	1

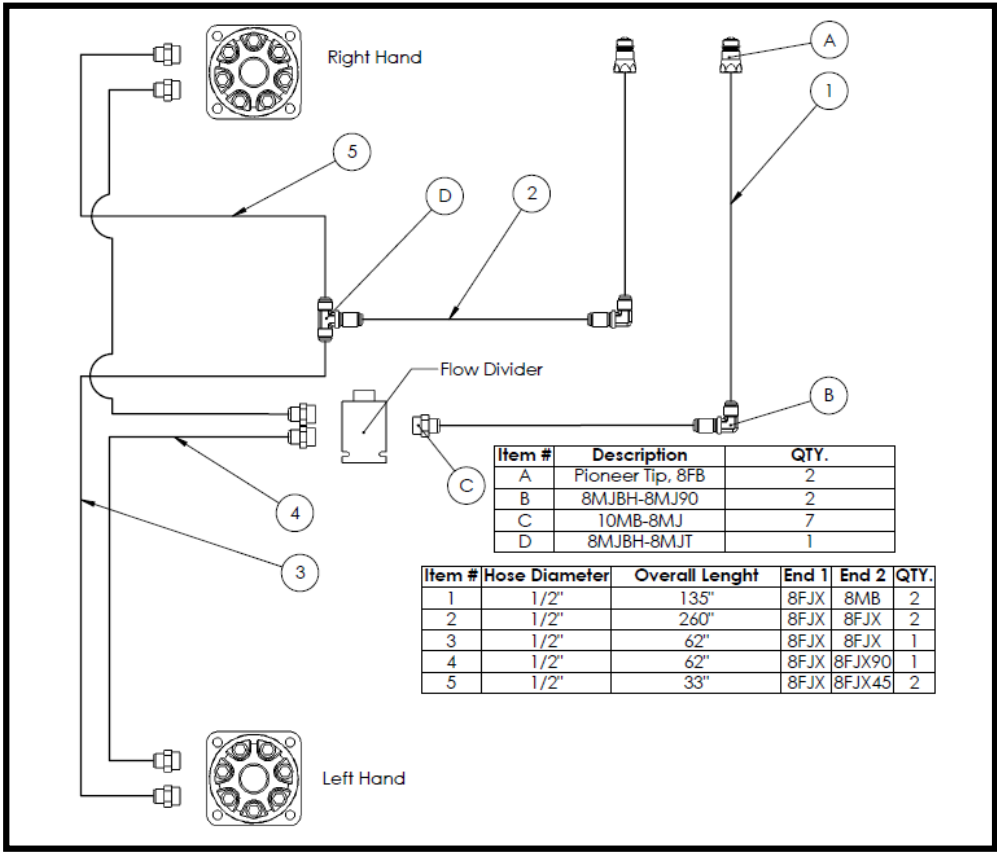


Hydraulics & Wiring Diagram



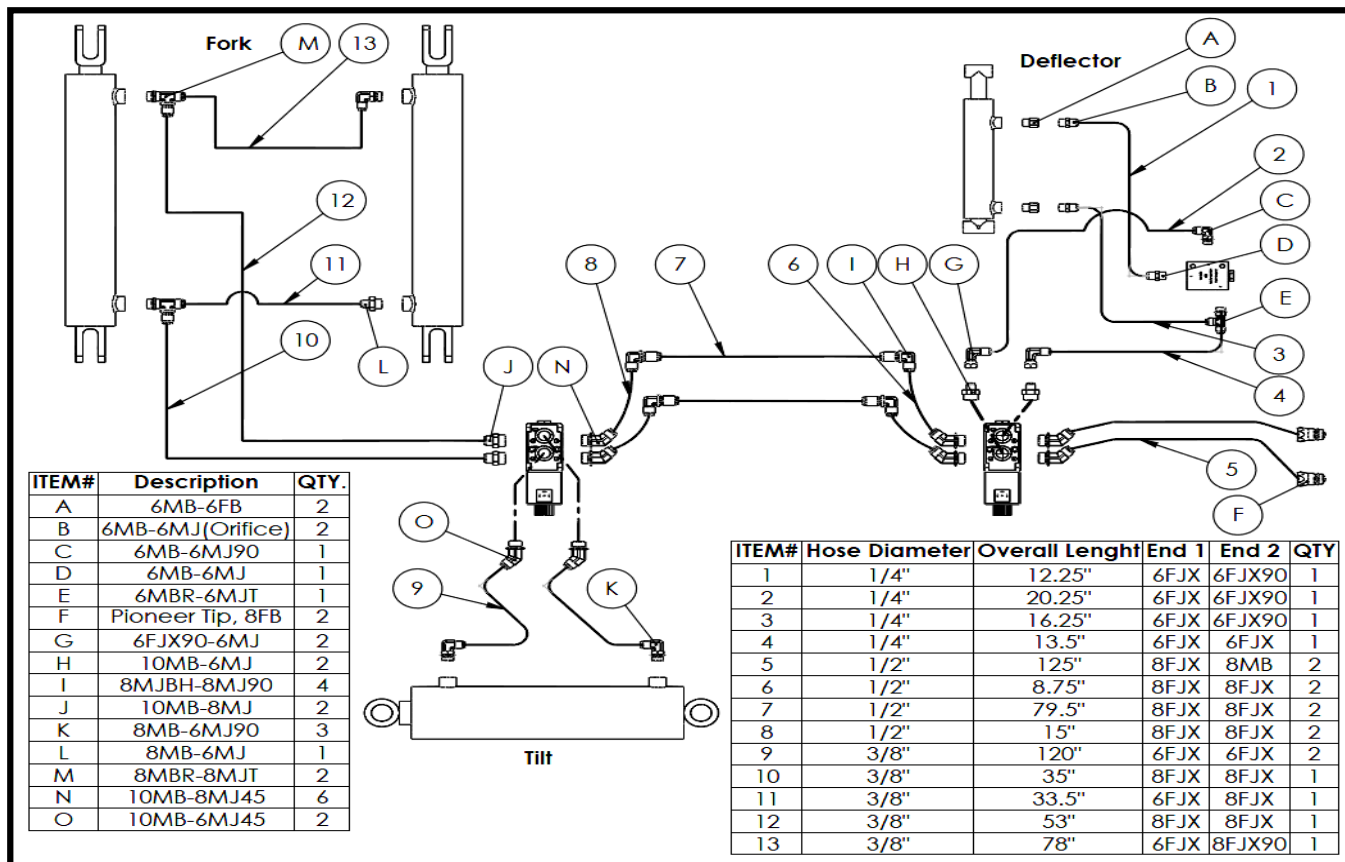


Chain Motor



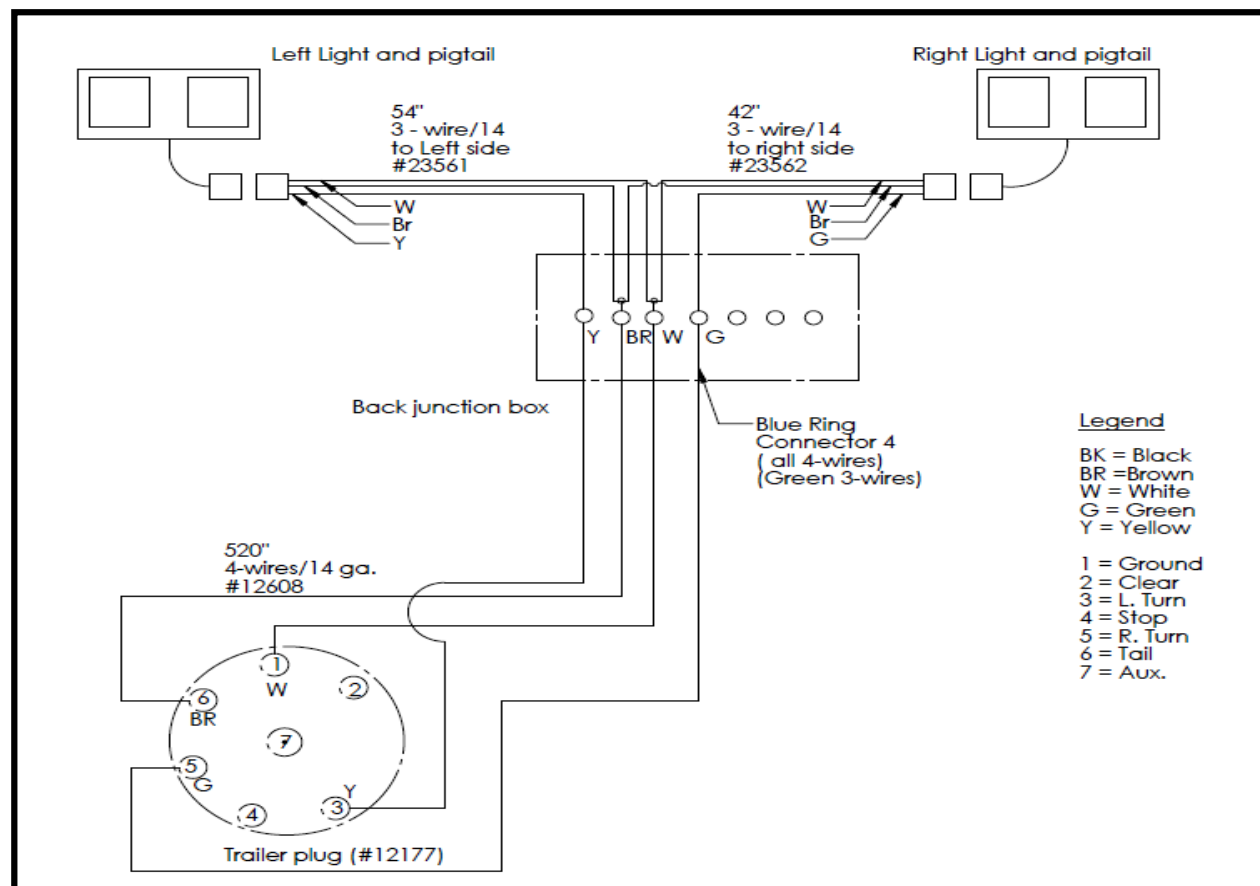


Tilt/Fork/Deflector





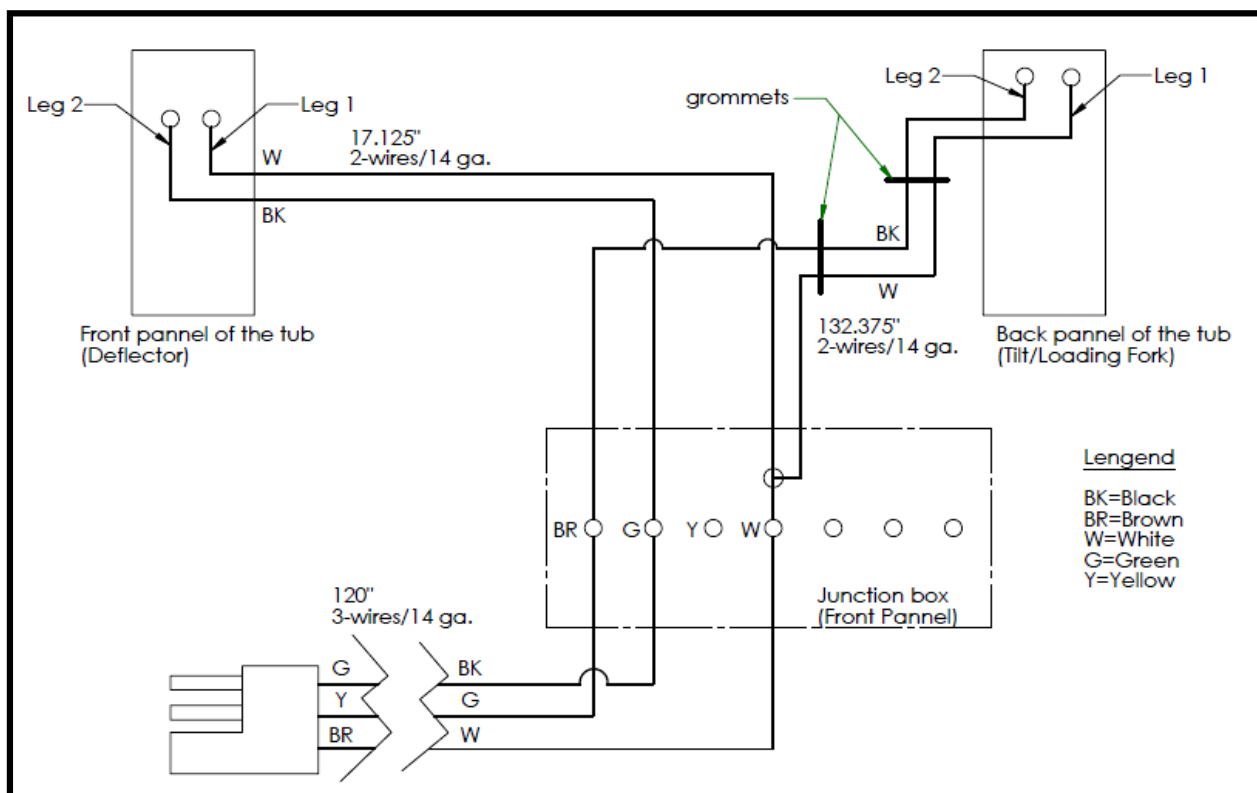
Light Diagram





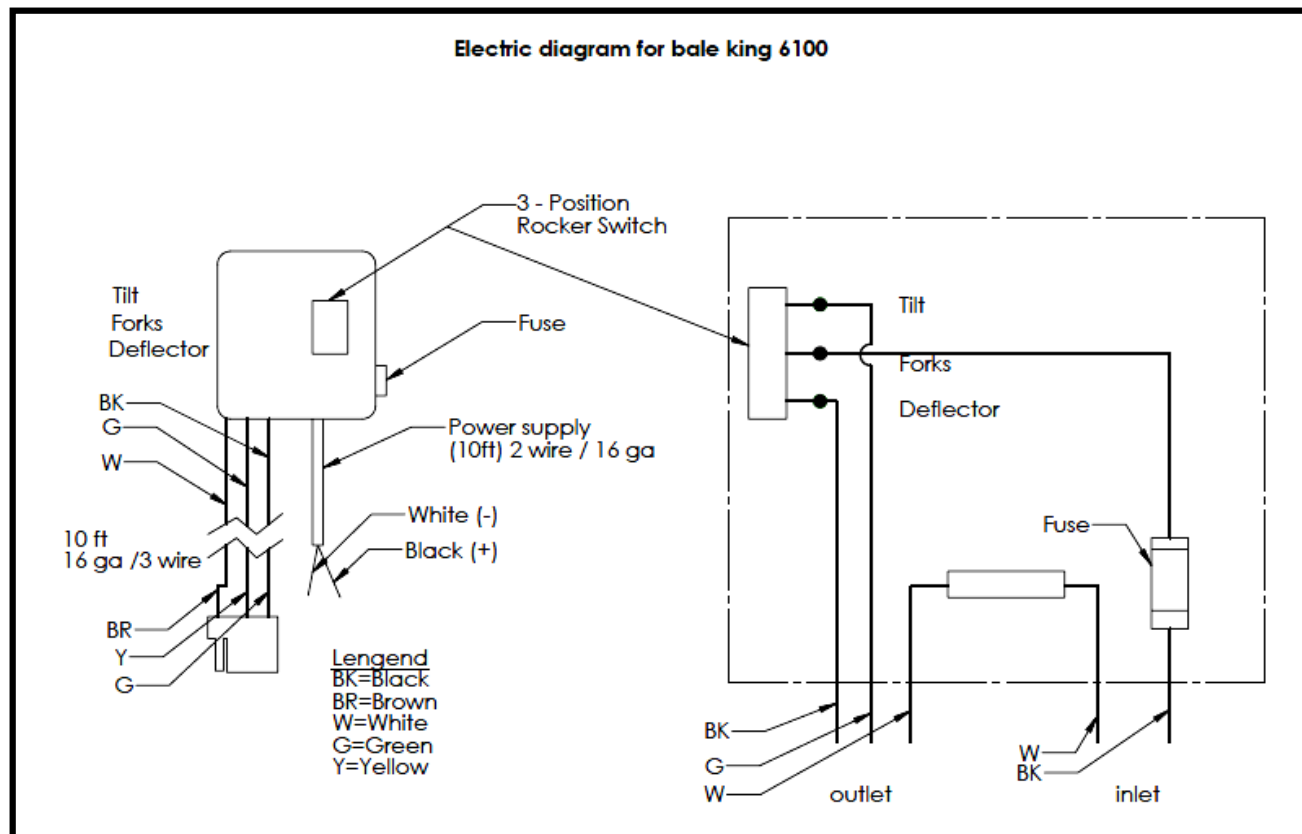
Diverter Diagram

Machine side





Tractor Side (Control Box #23988)



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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