

# **Bale Pro 7120-4 2004 Owner's Manual**

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## **Warranty**

### **Highline New Agricultural Equipment Limited Warranty**

*Effective July 1, 2000 Two (2) Year / 24 Months*

*1st Year Parts and Labour – 2nd Year Parts Only*

Highline Mfg. Inc (hereinafter "Highline") warrants this new Agricultural product of Highline's manufacturer to be free from defects in material and workmanship, under normal use and service for two (2) full years after initial purchase/retail sale. Highline will warrant its product for one (1) year parts and labour, if performed by a qualified Dealer and on the second year parts only. This Limited Warranty shall apply only to complete machines of Highline's manufacture, parts are covered by a separate Limited Warranty.

**EQUIPMENT AND ACCESSORIES NOT OF HIGHLINE'S MANUFACTURE ARE WARRANTED ONLY TO THE EXTENT OF THE ORIGINAL MANUFACTURER'S WARRANTY AND SUBJECT TO THEIR ALLOWANCE TO HIGHLINE ONLY IF FOUND DEFECTIVE BY SUCH MANUFACTURER.**

During the Limited Warranty period specified above, any defect in material or workmanship in any warranted item of Highline Agricultural Equipment not excluded below shall be repaired or replaced at Highline's option without charge by any authorized independent Highline Dealer. An authorized Dealer must make the warranty repair or replacement. Labour in accordance with Highline's labour reimbursement policy. Highline reserves the right to supply remanufactured replacement parts as it deems appropriate.

**RETAIL PURCHASER RESPONSIBILITY:** This Limited Warranty requires proper maintenance and periodic inspections of the Agricultural Equipment as indicated in the Operator's Manual furnished with each new Agricultural Equipment. The cost of routine or required maintenance and services is the responsibility of the retail purchaser. The retail purchaser is required to keep documented evidence that these services were performed. This Highline New Agricultural Equipment Limited Warranty may be subject to cancellation if the above requirements are not performed.

**EXCLUSIONS AND LIMITATIONS**

The warranties contained herein shall **NOT APPLY TO:**

- (1) Any defect which was caused (in Highline's sole judgement) by other than normal use and service of the Agricultural Equipment, or by any of the following: (i) accident (ii) misuse or negligence (iii) overloading (iv) lack of reasonable and proper maintenance (v) improper repair or installation (vi) unsuitable storage (vii) non-Highline approved alteration or modification (viii) natural calamities (ix) vandalism (x) parts or accessories installed on Agricultural Equipment which were not manufactured or installed by Highline authorized Dealers (xi) the elements (xii) collision or other accident.
- (2) Any Agricultural Equipment whose identification numbers or marks have been altered or removed.
- (3) Any Agricultural Equipment which any of the required or recommended periodic inspection or services have been performed using parts not manufactured or supplied by Highline or meeting Highline Specifications including, but without limitation, lubricants (oil, grease), belt lacings, and hydraulic fluids.
- (4) Equipment used for rental, custom work, industrial and construction or if equipment is used for any other purpose than the intended agricultural application.
- (5) Any Agricultural Equipment used in demonstrations not performed by a Highline Dealer. Warranty will be at the discretion of Highline for all other demonstration warranty.
- (6) **New Agricultural Equipment delivered to the retail purchaser in which the warranty registration has not been completed and returned to Highline within ten (10) days from the date of purchase.**
- (7) Any defect that was caused (in Highline's sole judgement) by operation of the Agricultural Equipment not abiding by standard operating procedures outlined in the Operator's Manual.
- (8) Tire Limited Warranties and support are the responsibility of the respective product's manufacturer.
- (9) Transportation costs, if any, of transporting to the Highline Dealer.
- (10) In no event shall Highline's liability exceed the purchase price of the product.
- (11) Highline shall not be liable to any person under any circumstances for any incidental or consequential damages (including but not limited to, loss of profits, out of service time and damage to equipment which this equipment may be attached) occurring for any reason at any time.
- (12) Diagnostic and overtime labour premiums are not covered under this Limited Warranty Policy.
- (13) Depreciation damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, and/or lack of proper protection during storage.
- (14) Accessory systems and electronics not of Highline's manufacture are warranted only to the extent of such manufacturer's respective Limited Warranty if any.
- (15) Wear items which are listed by product group below:

**COMMON WEAR ITEMS:** roller chain, sprockets, clutches, shear bolts, clutch components, chains, gearbox housings bolts/torqued parts, flails, feed roller belting, coupler chain, DRV couplers, bogie wheels, apron tines and hoses.

**PARTS WARRANTY**

Parts replaced in the warranty period will receive the balance of the two year New Agricultural Equipment Limited Warranty. Replacement parts after the original machine warranty are warranted to be free from defects of material for ninety (90) days or the part will be repaired or replaced, without labour coverage for removal and reinstallation.

**EXCLUSION OF WARRANTIES. UNLESS OTHERWISE REQUIRED BY LAW, AND EXCEPT FOR THE WARRANTIES EXPRESSLY AND SPECIFICALLY MADE HEREIN, HIGHLINE MAKES NO OTHER WARRANTIES, AND ANY POSSIBLE LIABILITY OF HIGHLINE HEREIN UNDER IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE. HIGHLINE RESERVES THE RIGHT TO MODIFY, ALTER AND IMPROVE ANY PRODUCT WITHOUT INCURRING ANY OBLIGATION TO REPLACE ANY PRODUCT PREVIOUSLY SOLD WITH SUCH MODIFICATION. NO PERSON IS AUTHORIZED TO GIVE ANY OTHER WARRANTY, OR TO ASSUME ANY ADDITIONAL OBLIGATION ON HIGHLINE'S BEHALF.**

## **President's Message**

**Congratulations on your purchase of the *Bale Pro 7120-4!*** Bale Pro, a proven name in livestock feed handling equipment, is manufactured by Highline Mfg. Inc. Highline Mfg. Inc. is a company with over 25 years experience in the farm implement industry.

This operator's manual has been prepared to provide information necessary for safe and efficient operation of your *Bale Pro 7120-4*. In this manual you will find safety procedures, maintenance routines and detailed parts diagrams. This bale processor model was designed for controlled, aggressive processing with less bunching. A little time and effort spent following the recommended maintenance procedures will increase the performance and durability of your bale processor.

In order to maintain our high standards, improvements are made from time to time. Highline Mfg. Inc. reserves the right to make such changes and improvements when practical to do so without incurring any obligation to make those changes and improvements on previously sold machines.

Should the need arise, this manual will assist you in acquiring replacement parts. If your dealer does not have the parts you require in stock, they will be happy to order them for you. Also, if you find that you require information not covered in this manual, feel free to consult your local dealer or Highline Mfg. Inc.

Highline Mfg. Inc. thanks and congratulates you for choosing the *Bale Pro 7120-4* as the livestock feed handling equipment for your needs.

*Chuck LePage, President  
Highline Mfg. Inc.*

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*PO Box 307, Vonda, Saskatchewan, S0K 4N0*

*Phone 1-800-665-2010 Fax (306) 258-2010*

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*Internet Address: <http://www.highlinemfg.com>*

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## **Safety Precautions**

### **WORK SAFELY – FOLLOW THESE INSTRUCTIONS**

**CAREFUL OPERATION IS THE BEST INSURANCE AGAINST AN ACCIDENT!**

- Keep children and adults away from discharge area while processing.
- Know the controls and what they do.
- Check the machine to ensure nothing restricts moving or rotating parts.
- Ensure PTO is disengaged before starting tractor.
- Never leave tractor while PTO is engaged.
- Lower forks to ground after operation.
- Never attempt to manually remove debris while the PTO is activated.
- Do not transport Bale Pro on highway with CV extension shaft on machine or with bales in tub or on the forks.
- Disconnect CV before unplugging or adjusting processor.
- Always keep safety shields in place.
- Relieve pressure in hydraulic lines before disconnecting lines or performing other work on the hydraulic system.
- Never allow anyone to stand behind the processor while loading bales.
- Ensure the discharge door is raised completely with transport lock installed to lock it to the tub when transporting machine.
- Use twine cutter tool only as directed. The blade is very sharp and could cause serious injury if handled improperly.



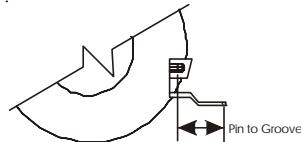
**Before operating the Bale Pro 7120-4, be sure to review all of the instructions and familiarize yourself with its features.**

## **1.0 Operating Instructions**

### **1.1 General Operating Instructions**

Successful operation of the Bale Pro 7120-4 is dependent upon the quality of the bale, the height of the feed rollers and flail guard rod and also upon the operator. The following steps ensure proper and efficient operation. Please read them all carefully before operating your new BP7120-4.

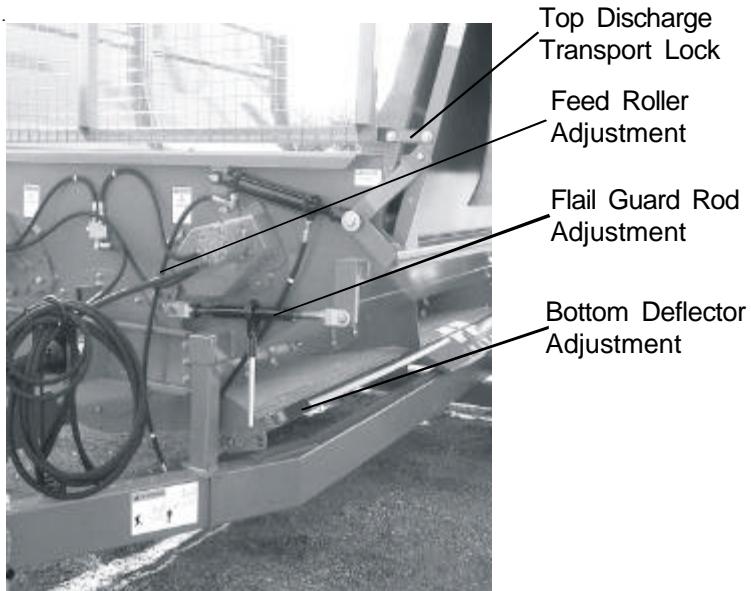
1. Ensure that the drawbar on the tractor is extended so that the pin is 17" from the groove on the PTO on the tractor for the standard 1-3/8" diameter, 1000 rpm yoke. If you have the 1-3/8" diameter, 540 rpm optional yoke, the distance should be 15-1/2". If you have the 1-3/4" diameter, 1000 rpm optional yoke, the distance should be 21-1/2".



2. It is recommended that the hitch tongue be placed so that the Bale Pro 7120-4 frame is level. This will ensure that the bale forks are low enough to load a bale. Ensure adequate clearance to the PTO shaft.
3. Ensure that the machine stays properly greased at all recommended locations (See Maintenance Instructions).
4. The top discharge deflector door has a dual transport lock that must be released before the door can be lowered. Remove the bolts attaching the tub-mounted lock to the door. Rotate the lock toward the tub to keep it out of the way of the discharge door. The top discharge door cylinders have been adjusted at the factory to bring the door to its upper most position. The cylinders can be adjusted as necessary by removing the rod pin and turning the clevis in or out to adjust the length.
5. The bottom deflector doors can be adjusted independently. The operator can adjust each door by pulling the handle toward themselves and raising or lowering the door as desired. The bottom deflector handles are located at the front and rear of the machine.
6. The flail guard rod frame can be adjusted up or down by using the ratchet jack or the hydraulic cylinder at the front discharge side of the machine. Extending the cylinder or ratchet jack will increase the amount of flail that is exposed to the bale. Retracting the ratchet jack or cylinder will have the opposite result. If the processor is operated to aggressively, the flails will slap back against the drum. If the 'backslap' is allowed to continue it can cause damage and unnecessary wear to the flail drum, flails, and flail bushings. Avoid excessive and prolonged backslap by adjusting the guard rod frame to a less aggressive setting.
7. The feed rollers can be adjusted for different bales sizes. Generally the feed rollers should be raised for larger bales and lowered for smaller bales. The rollers are adjusted independently of each other. Care should be taken that each feed roller is set at equal height at the front and rear of the machine. Adjustment can be made by inserting a 1/2" drive bar in the holes provided in the adjustment plates and turning to the desired setting. Major adjustments may affect machine aggressiveness.

8. The feed roller speed should be set to approx 40 rpm. You can get this by adjusting the flow control on your tractor. A flow control kit can be purchased from your Highline dealer if you need one.
9. Before loading a bale, engage the PTO to ensure that the flail drum is operating properly. Start the feed rollers using the hydraulic controls and check to make sure that the feed rollers turn in both directions.
10. The forks should be adjusted by pulling the fork pins, and adjusting the saddles to the desired width. The dump is designed to load a variety of bale sizes and combinations (see spec sheet). Lower the forks completely and back up slowly until the forks are completely under the bale. Raise the forks until the bale or bales fall into the processor. Another bale or bales can then be loaded onto the forks while the bale or bales are in the processor. Orientation of round bales during loading can cause hay/staw to discharge from the processor differently. If the bale is shredded in the same direction in which it was baled, the hay/staw tends to come off in layers. If the bale is shredded in the opposite direction, feeding may be uneven.
11. Do not dislodge frozen bales with forks. Damage to the lift mechanism may result. Likewise, do not use the twine cutter to dislodge jammed material.
12. Engage the PTO at idle when ready. Make sure that the forks are not interfering with the bale or bales in the tub before engaging the PTO. Increase the PTO speed until it reaches 1000 rpm. Rotate the bale using the feed rollers. If the bale stops moving, reverse the direction of the feed rollers. Testing has shown that if you are processing square bales you are better off "rocking" the bale with the feed roller until the corners have been processed off.
13. Before stopping the PTO, idle down (tractors with PTO brakes) to reduce flail backslap.

***WARRANTY WILL BE VOID IF ANY COMPONENT OF THIS MACHINE IS ALTERED OR MODIFIED IN ANY WAY WITHOUT WRITTEN PERMISSION FROM HIGHLINE MFG. INC.***



## 1.2 Twine Removal Procedure

IT IS RECOMMENDED TO REMOVE THE TWINE FROM THE FLAIL DRUM EVERY 25 BALES. PREMATURE BEARING FAILURE CAN OCCUR IF TWINE IS ALLOWED TO BUILD UP ON THE FLAIL DRUM.



**SHUT OFF THE TRACTOR ENGINE AND LET THE FLAIL ROTATION COME TO A COMPLETE STOP BEFORE ATTEMPTING TO REMOVE THE TWINE FROM THE FLAIL DRUM.**

1. Ensure the forks are in the fully raised position. Lock the forks in the raised position with the cylinder lock.



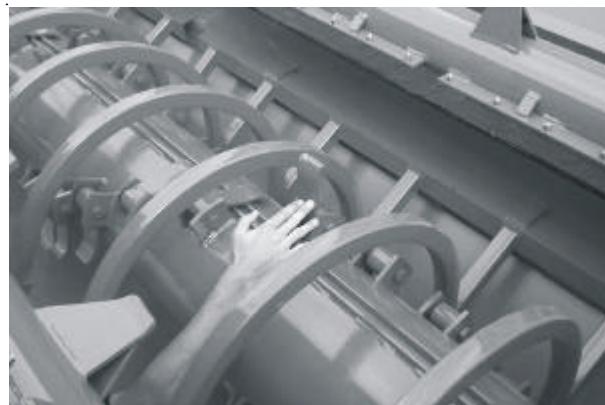
2. Ensure the flail guard rod ratchet jack (or optional hydraulic cylinder) is not fully extended. Failure to do so will result in damage to the twine cutter.



3. Engage the flail drum lock and rotate the flail drum slowly from the discharge side until the flail drum is locked into position. If it is not possible to rotate the flail drum, the PTO must be disconnected from the tractor.

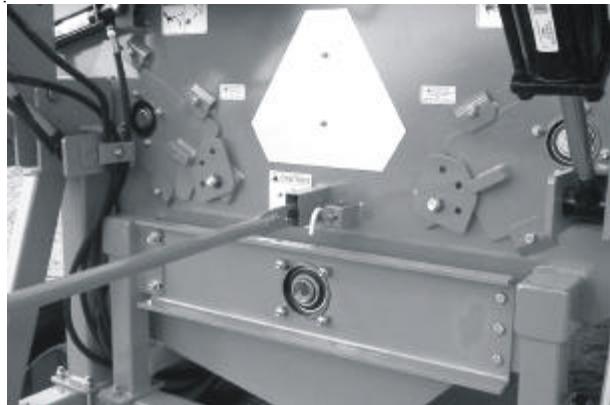


4. The drum can be rotated in 90-degree increments so that the track on the drum will line up with either the discharge or the cutter tube on the rear of the machine. The operator has the option to use the knife at the rear of the machine (25-30 bales processed), or twine can be cut from the discharge side with a utility knife (30-90 bales). **Before cutting ensure that no flails are obstructing the cutter track.** Failure to do this will result in knife damage.



5. Remove the twine cutter from the storage position on the non-discharge side of the Bale Pro.

6. Slide the knife through the cutter tube and into the drum track. The knife should be pushed with even pressure along the length of the drum. A light chopping action can also be used to cut the twine. Do not use a heavy chopping motion as damage to the blade may result. The operator also has the option to lock the drum with the track facing the discharge side. The operator can crouch on the discharge side and run a utility knife through the track.



7. After cutting the full length of the drum remove the cutter and replace it in the storage position. Make sure the handle is locked into the spring clips.
  8. After cutting through all of the twine wrapped around the entire length of the drum, remove the twine cutter and place it back into the storage position. Ensure the handle is locked into the spring clips.
- 9(a). Unlock the flail drum. Failure to do this will result in damage to the machine during start up.



10. Remove the twine from the flail drum on the discharge side of the Bale Pro.



11. Remove the hydraulic cylinder lock and store on the bale forks.



## 2.0 Maintenance Instructions

**Please follow these maintenance procedures to ensure years of trouble free operation of your Bale Pro 7120-4.**

Twine must be removed from the flail drum at least every 25 bales. Premature bearing failure can occur if twine is allowed to build up on the flail drum.

Flail bolts should be tightened after the first ten bales and rechecked after approximately 200 bales.

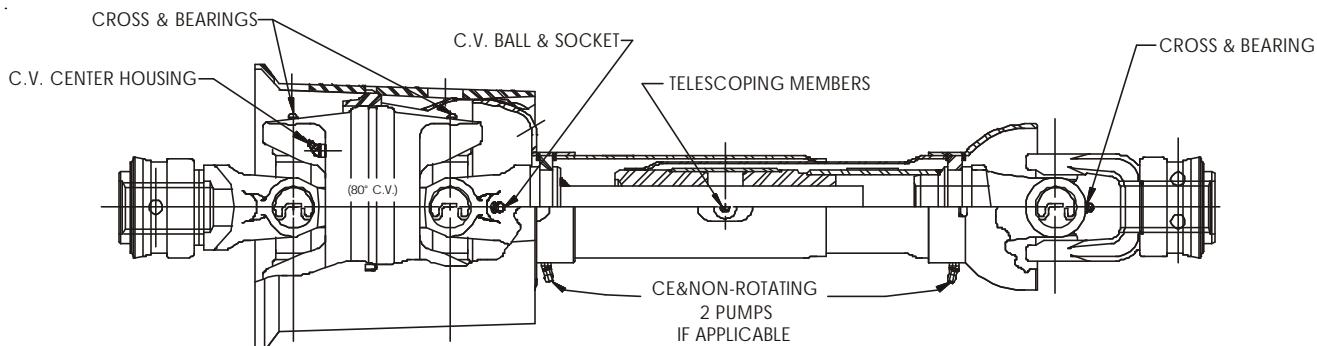
Maintaining proper lubrication of the Bale Pro 7120-4 is crucial for proper operation. Lubricate all fittings with a good quality lithium soap base E.P. grease meeting the N.L.G.I. #2 specifications and containing no more than 1% molybdenum disulfide.

An E.P. grease meeting the N.L.G.I. #2 specifications and containing 3% molybdenum disulfide may be substituted in the telescoping, CV Ball and socket, and CV centre housing member only. For applications operating below 0°F (-18°C) a good quality polyurea grease, meeting the N.L.G.I. #2 specifications and containing no more than 1% molybdenum disulfide, may be substituted for lubricating all fittings. Below is a list of the points and the frequency with which these points should be greased. Also shown are figures indicating the points that require lubrication. The first lube interval should be 16-24 hours of operation after initial start-up then follow the schedule below.

### USE LEVER TYPE GREASE GUN

INTERVAL	LOCATION	AMOUNT
8 HRS**	CROSS AND BEARINGS	2-3 PUMPS
8 HRS	TELESCOPING MEMBERS	8-10 PUMPS
8 HRS**	CV BALL & SOCKET	4-6 PUMPS
24 HRS**	CV CENTER HOUSING	12-15 PUMPS

\*\*Constant angle applications must have a lube interval of 4 hours.



**CAUTION: REPLACEMENT PARTS ARE NOT LUBRICATED**

Replacement parts must be lubricated at time of assembly. Use amount listed above per location then follow lube recommendations outlined above for lubing intervals.

1. Flail Drum Bearings (Front and Rear): Every 8 hrs.
2. Cylinder Bushings (Front and Back): Every 16 hrs.
3. Wheel Hub Bearings (Left and Right): Every 50 hrs.

**For more details on location see Section 3.2 - Grease Zerk Locations.**

**\*Use low temperature grease when the temperature reaches below 0° Celsius (32° Fahrenheit).**



### 3.0 Safety Messages

General safety messages appear in this Safety Messages section. Specific safety messages are located in appropriate sections of the manual where a potential hazard may occur if the instructions or procedures are not followed.



#### Understand Safety Alert Symbol

This is the safety alert symbol. This symbol placed on your machine or in the manual is used to alert you to the potential for bodily injury or death.

#### Understand Signal Words.

A signal word “**Danger**”, “**Warning**”, or “**Caution**” is used with the safety alert symbol.

Safety signs with signal word “**Danger**”, “**Warning**” or “**Caution**” are located near specific hazards.

**Danger** – Imminent hazards which, if not avoided, will result in serious personal injury or death.

**Warning** – Potential hazards or unsafe practices which, if not avoided, could result in serious personal injury or death.

**Caution** – Potential hazards or unsafe practices which, if not avoided, could result in minor personal injury or product or property damage.

#### Read, Understand, and Follow Safety Instructions

Read, understand and follow all instructions and safety messages included in this manual and on decals attached to the machine. These instructions and safety messages contain important information.

Allow only responsible, properly instructed individuals to operate and service the machine.

Failure to follow the instructions and safety messages in this manual and on the decals attached to the machine could result in serious injury or death.

Keep all safety and instruction decals in good condition. Replace any missing or damaged decals.



### Keep Machine in Good Condition

Be sure the machine is in good operating condition and that all safety devices are installed and functioning properly.

Visually inspect the machine daily before starting the machine.

Make no modifications to your equipment unless specifically recommended or requested by Highline Mfg Inc.

### Keep Spectators Away From Machine

Keep all spectators and other workers away from the machine and work area while in operation.

### Avoid Moving Parts

Contact with moving parts can cause death or serious injury.

Keep away from power-driven parts such as the flail drum or feed rollers.

Wear close-fitting clothing and confine long hair. Avoid wearing jewelry, such as rings, wrist watches, necklaces, or bracelets.

### Avoid High Pressure Leaks

Pressurized fluid can penetrate body tissue and result in serious injury or death. Leaks can be invisible. Relieve pressure before working on system. When searching for a leak, use an object like cardboard – not your hand. Fluid injected under the skin must be removed immediately by a surgeon familiar with this type of injury.

### Avoid Tire Explosion

Tire explosion can result if the following procedures are not followed:

- Maintain correct tire pressure. Do not inflated tire above recommended pressure.
- Low tire pressure can cause internal tire damage. Inflate to recommended pressure.
- Replace any tire with cuts or bubbles. Replace any damaged rims.
- Do not weld or heat wheel assembly. Heating will increase tire pressure.

### Working on the Bale Processor

For your safety and safety of others, the Shutdown Procedure, see below, must be followed before dismounting from the tractor for inspecting, lubricating, cleaning, unplugging, servicing, or repairing the bale processor.

**Warning: Failure to follow any of the above safety instructions, or those that follow within this manual, could result in serious injury or death. This machine is to be used only for those purposes for which it was intended, as explained in this Operator's manual.**

### Safety Decal Maintenance

Safety decals located on your machine contain important and useful information that will help you operate your equipment safely.

To assure that all decals remain in place and in good condition, follow these instructions.

- Keep decals clean. Use soap and water – not mineral spirits, abrasive cleaners, or other similar cleaners that will damage the decal
- Replace any damaged or missing decals. When attaching decals, the temperature of the mounting surface must be at least 5°C (40°F). The mounting surface must also be clean and dry.
- When replacing a machine component with a decal attached, replace the decal also.
- Replacement decals can be purchased from your Highline equipment dealer.

### SHUTDOWN PROCEDURE

Important: For your safety and the safety of others, this procedure must be followed before dismounting from the tractor for repairing, servicing, cleaning, or lubricating the bale processor.

A variation of this procedure may be used if so instructed within this manual, or the tractor manual, or if an emergency requires it.

- Step 1: Reduce the engine speed to idle.
- Step 2: Disengage tractor power takeoff.
- Step 3: Set tractor park brake.
- Step 4: Lower bale loader forks to the ground
- Step 5: Shut off tractor engine and remove key
- Step 6: Cycle tractor controls to relieve any residual circuit pressure
- Step 7: Wait for rotor to stop turning.



### **Stay Clear Of Rotating Driveline**

Entanglement in rotating driveline can cause death or serious injury.

- Keep driveline shields in place at all times. Ensure shields turns and telescope freely.
- Wear close-fitting clothing and confine long hair.
- Stop engine and ensure the PTO driveline is stopped before working on driveline

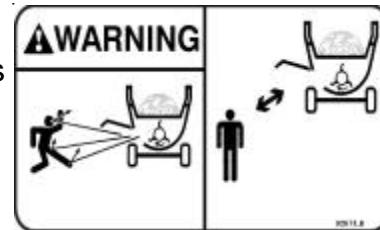


**DANGER:** Contact with moving parts can result in death or serious injury. Always disengage power takeoff, set park brake, lower loader forks to the ground, shut off tractor engine, remove key, and wait for PTO to stop turning before unplugging by hand.



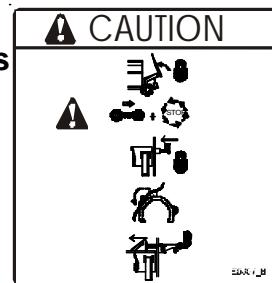
### **Avoid Discharge Area**

Stay away from discharge side of Bale Processor when PTO is engaged. Injury of blindness is possible from material leaving discharge area.



### **Twine Cutter**

1. Lock forks in raised position.
2. Engage flail drum lock and rotate drum until locked into position.
3. **Rotate any obstructing flails away from twine cutter guides to prevent damage to blade.**
4. Lower extension guide.
5. Use twin cutter in saw-like action to cut the twine.
6. Store twine cutter in holder.
7. Unlock flail drum.
8. Remove twine from discharge side of Bale Pro.
9. Lock extension guide in upright position.
10. Remove cylinder lock and store in position.



**WARNING:** Install and secure cylinder lock before using twine cutter.



**CAUTION:** Exceeding an 80° angle at tractor joint will void CV warranty.

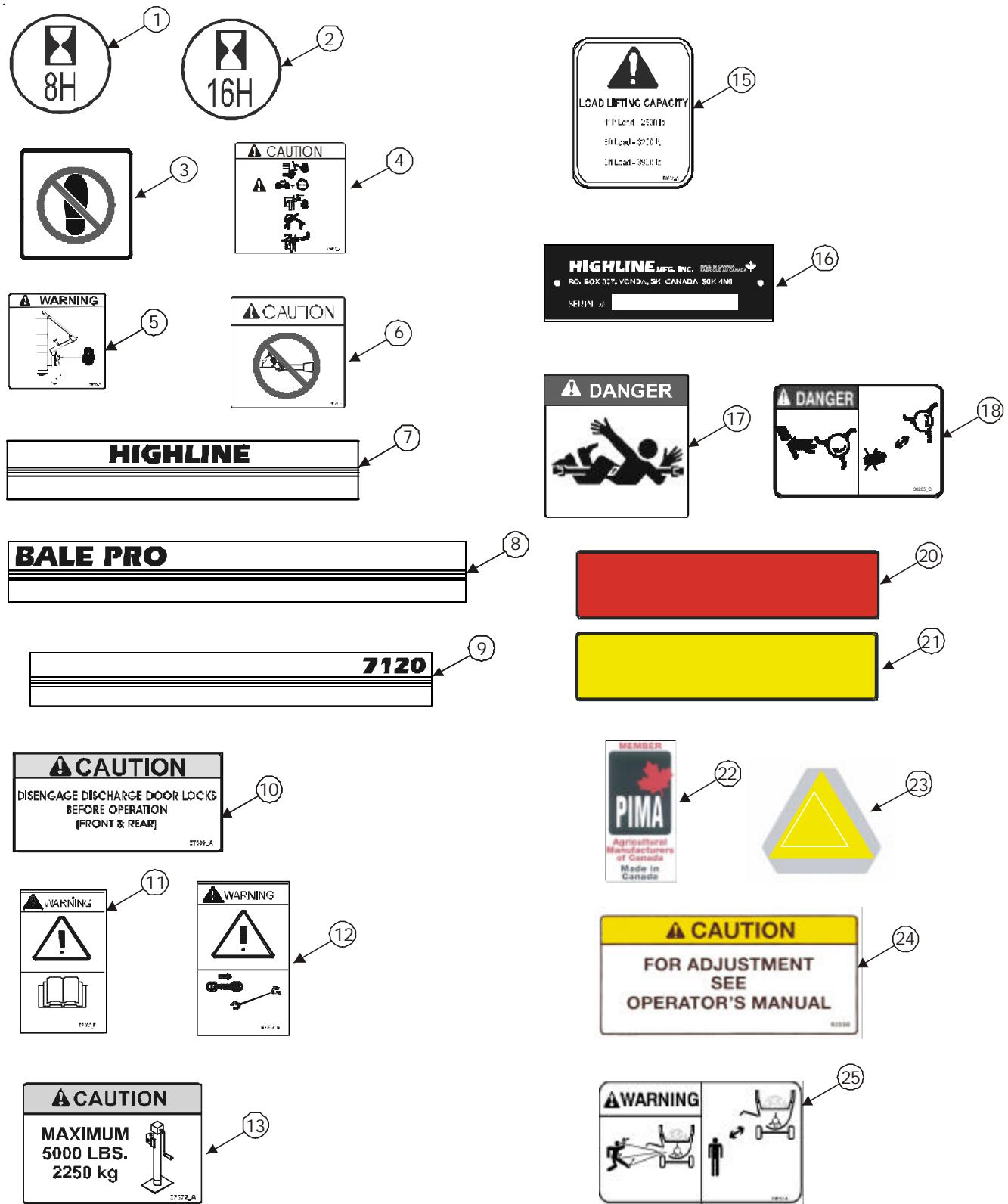


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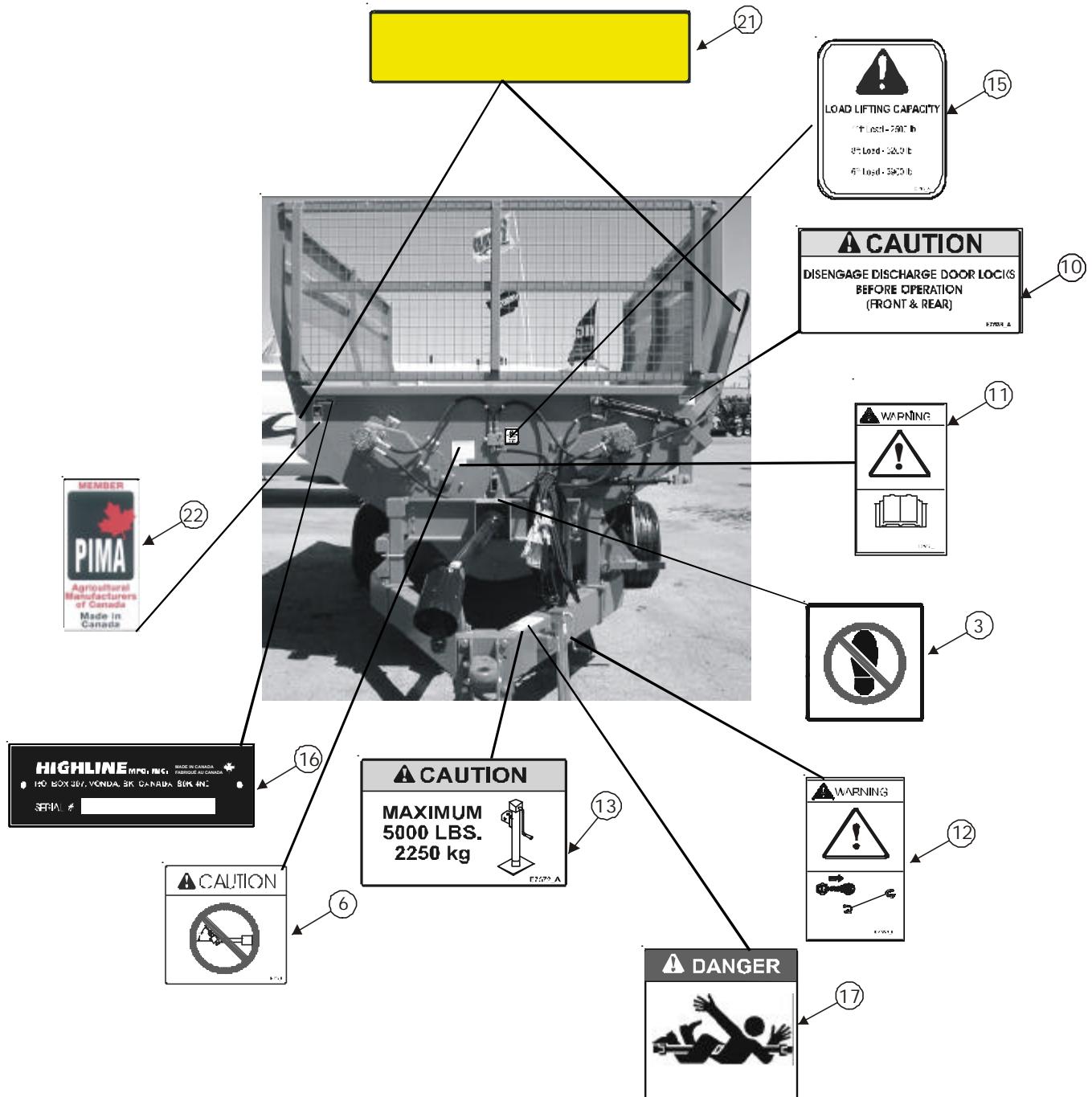
**3.1 Decal Location (Part No. 49468)**

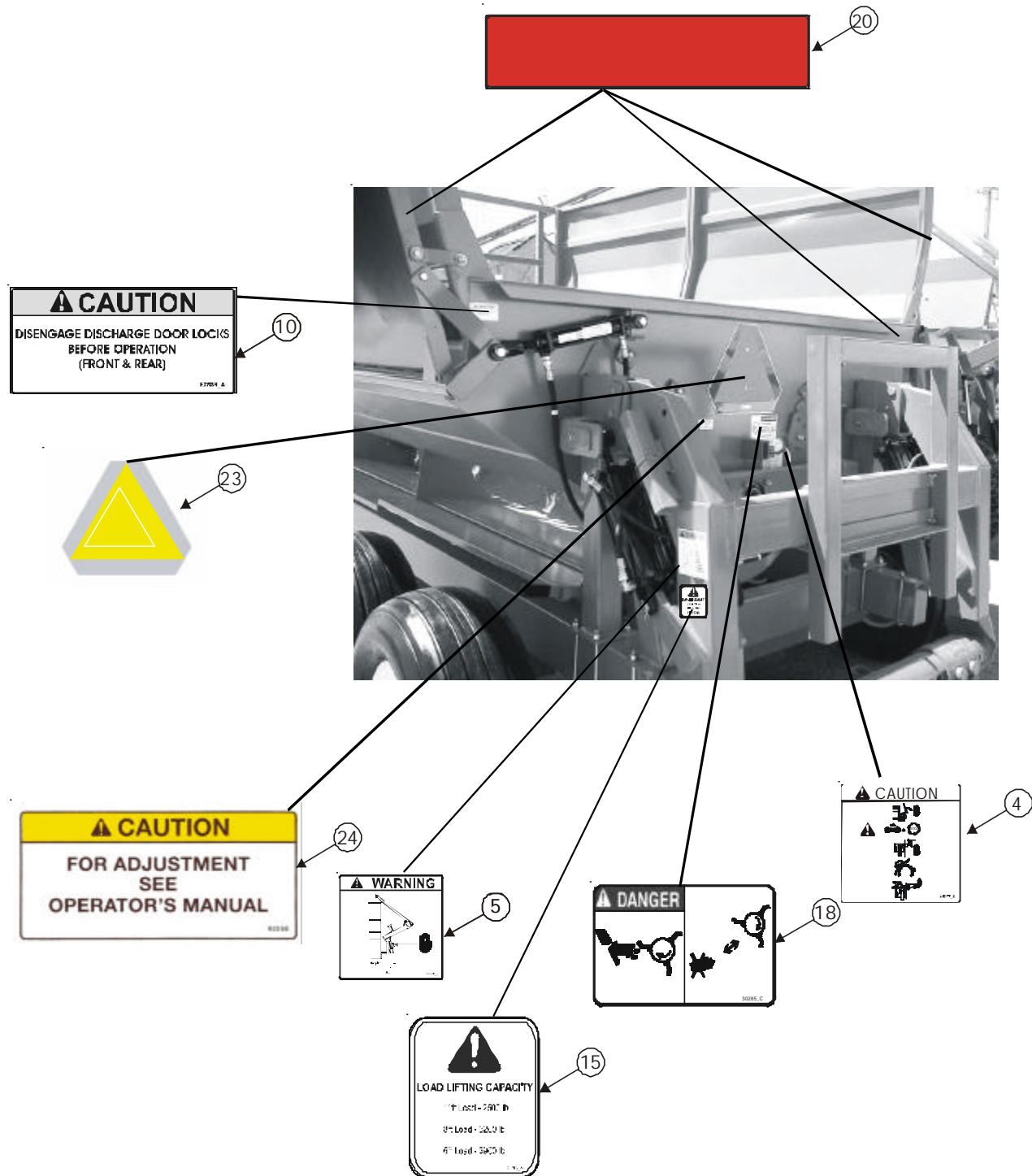
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	E3265	DECAL,GREASEZERK,8H	2
2	E3266	DECAL,GREASEZERK,16H	6
3	E3834	DECAL,DANGER,DONOTSTAND	1
4	E5857	DECAL,TWINECUTTER	1
5	E5868	DECAL,LOCK,CYLINDER	1
6	E6105	DECAL,WARNING,CVANGLE	1
7	E7423	DECAL,HIGHLINE,69-3/8X11-1/2	2
8	E7424	DECAL,BALE_PRO,68-1/4X9	2
9	E7425	DECAL,7120,68-1/4X9	2
10	E7539	DECAL,DOOR_LOCK,DISENGAGE	2
11	E7552	DECAL,WARNING,OWNERS_MANUAL	2
12	E7553	DECAL,WARNING,STOP_ENGINE/SERVICE	1
13	E7572	DECAL,CAUTION,JACK,5000LBS	1
14	E8056	DECAL,STRIPING,69-3/8X11-1/2	2
15	E8262	DECAL,INFO,LOAD_LIFT	2
16	30208	PLT,SERIAL#	1
17	30271	DECAL,DANGER,ROTATINGDRIVE	3
18	30285	DECAL,DANGER,TOPREVENT	2
19	30288	RIVET,ST,1/8X.390,.250HEAD	2
20	30577	DECAL,REDREFL,2X9	3
21	30578	DECAL,AMBERREFL,2X9	2
22	32981	DECAL,PIMA	1
23	92028	SIGN,SLOWMOVING,S276.5	1
24	92558	DECAL,WARNING,FORADJUSTMENT	2
25	92573	DECAL,WARNING,DISCHARGE	2
26	31174	NUT,NYLOCK,1/4,UNC,ZP	2
27	37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	2

### 3.1 Decal Location (cont'd)

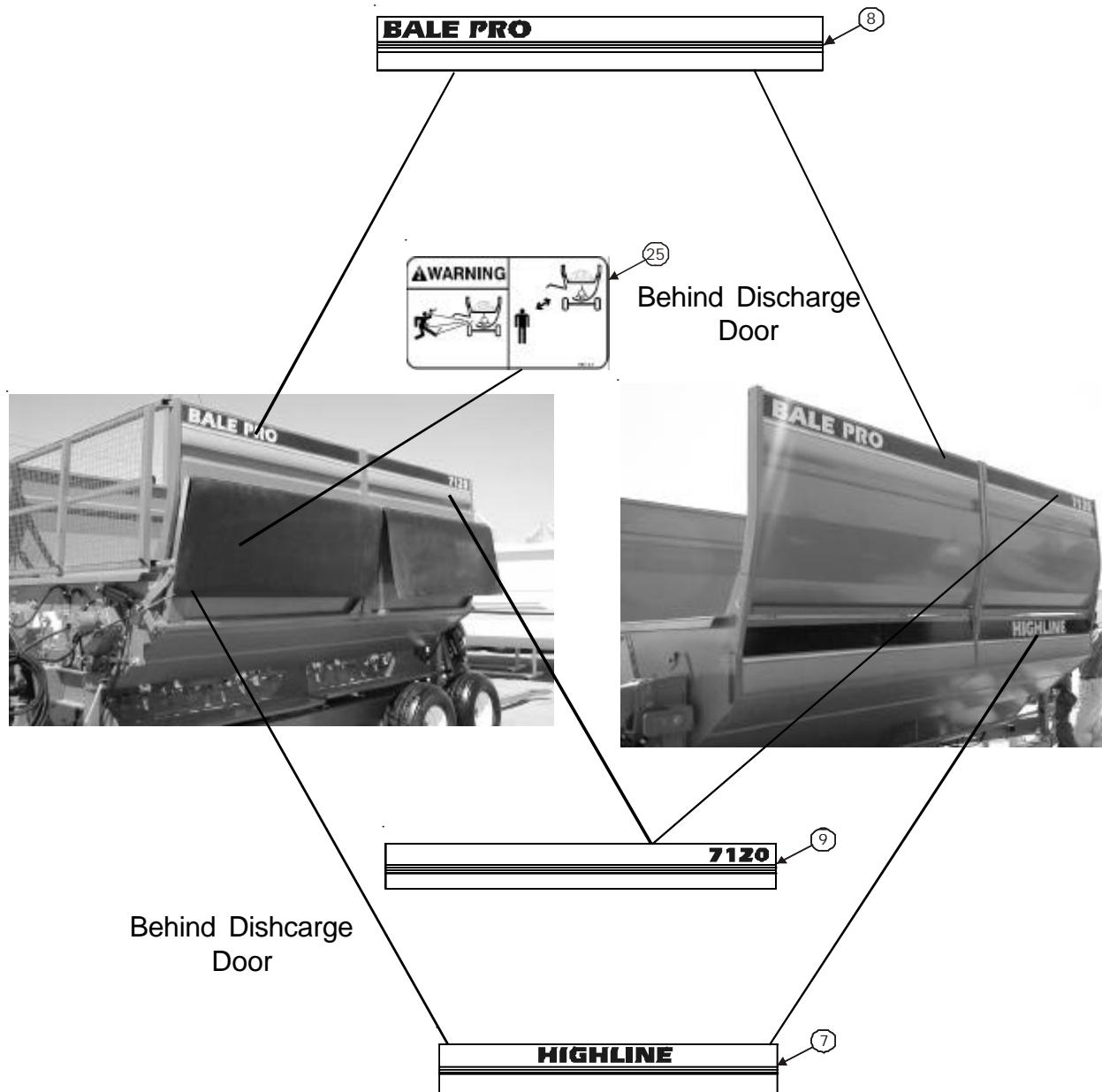


### 3.1 Decal Location (cont'd)



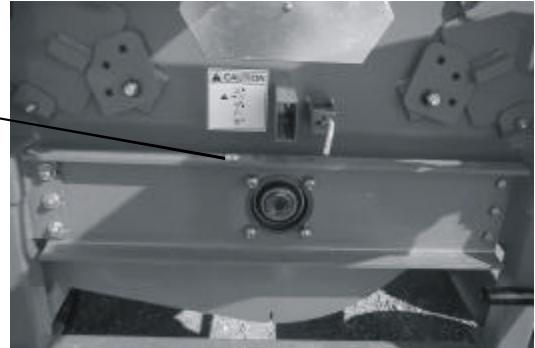
**3.1 Decal Location (cont'd)**

### 3.1 Decal Location (cont'd)

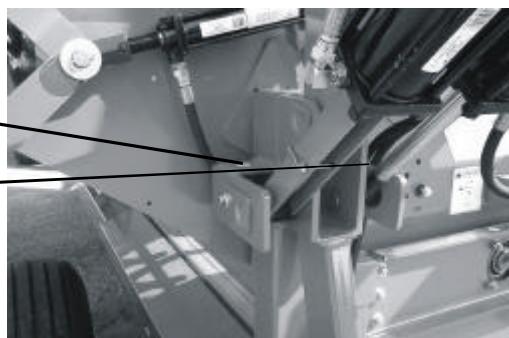
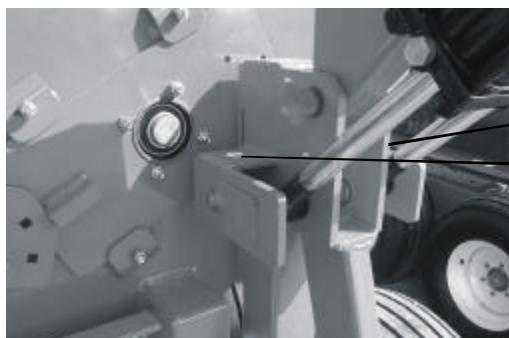


### 3.2 Grease Zerk Locations

#### 1. Flail Drum Bearings



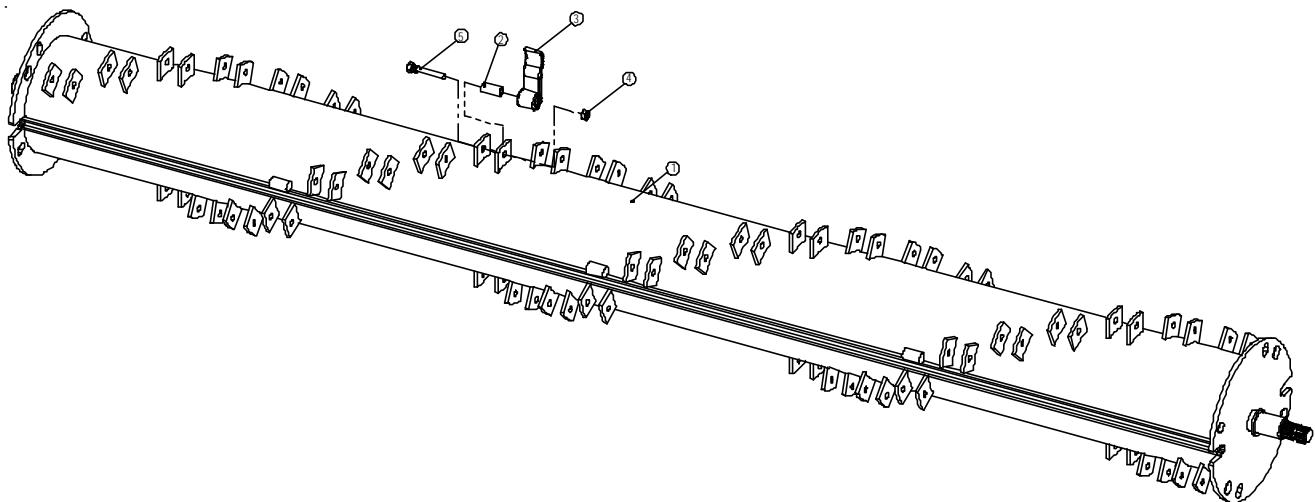
#### 2. Cylinder Bushings



## 4.0 Parts Information

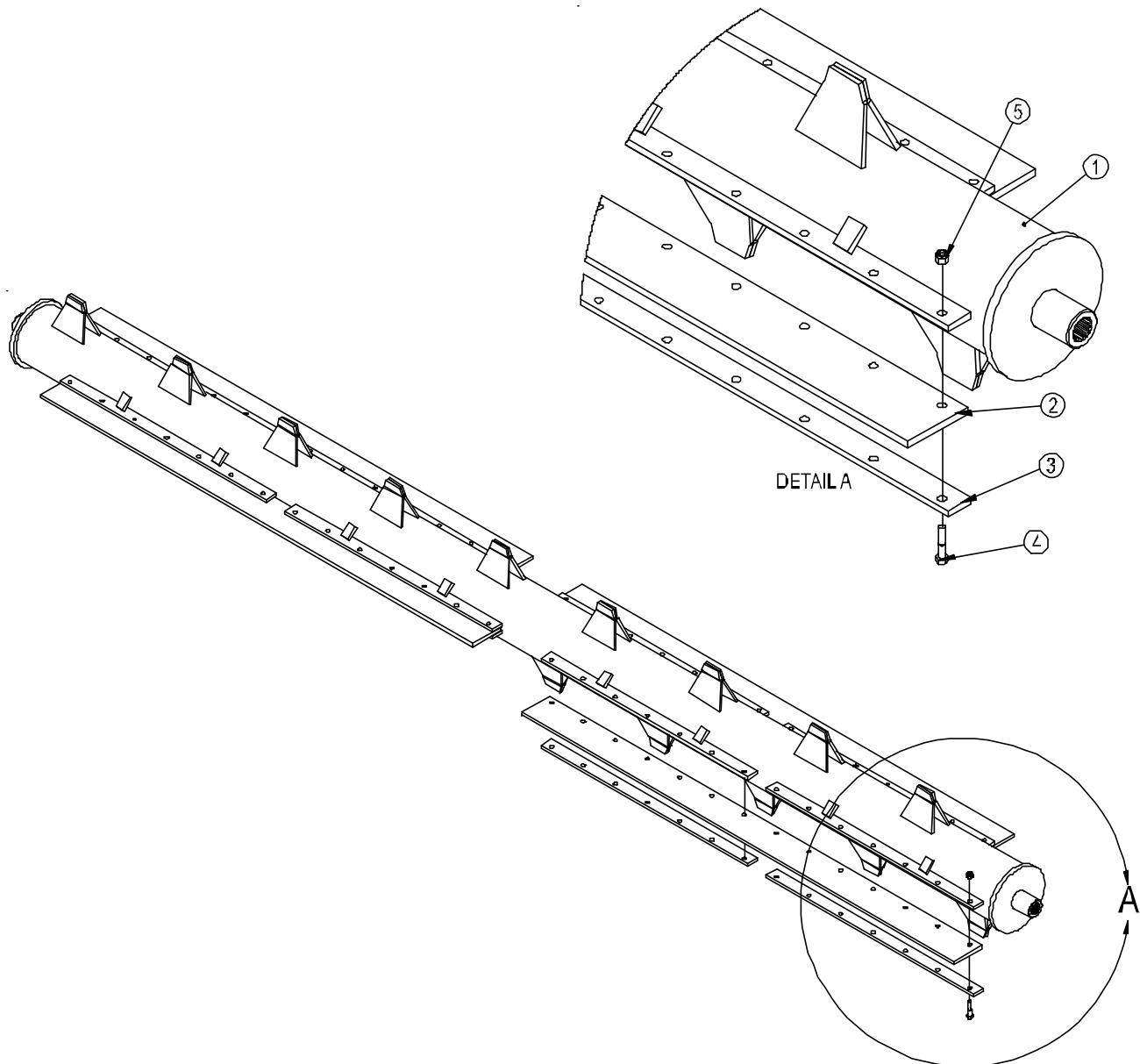
### 4.1 Flail Drum Assembly (Part No. 49471)

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49470	WLDT,DRUM,FLAIL,7120	1
2	E2083	PIPE,DOM,1x.180x2-1/8L,HARD	52
3	E3714	FLAIL	52
4	31170	NUT,LOCK,STOVER,5/8,UNF,ZP	52
5	45099	BOLT,STUD,5/8X3-3/4,UNF,GR8	52



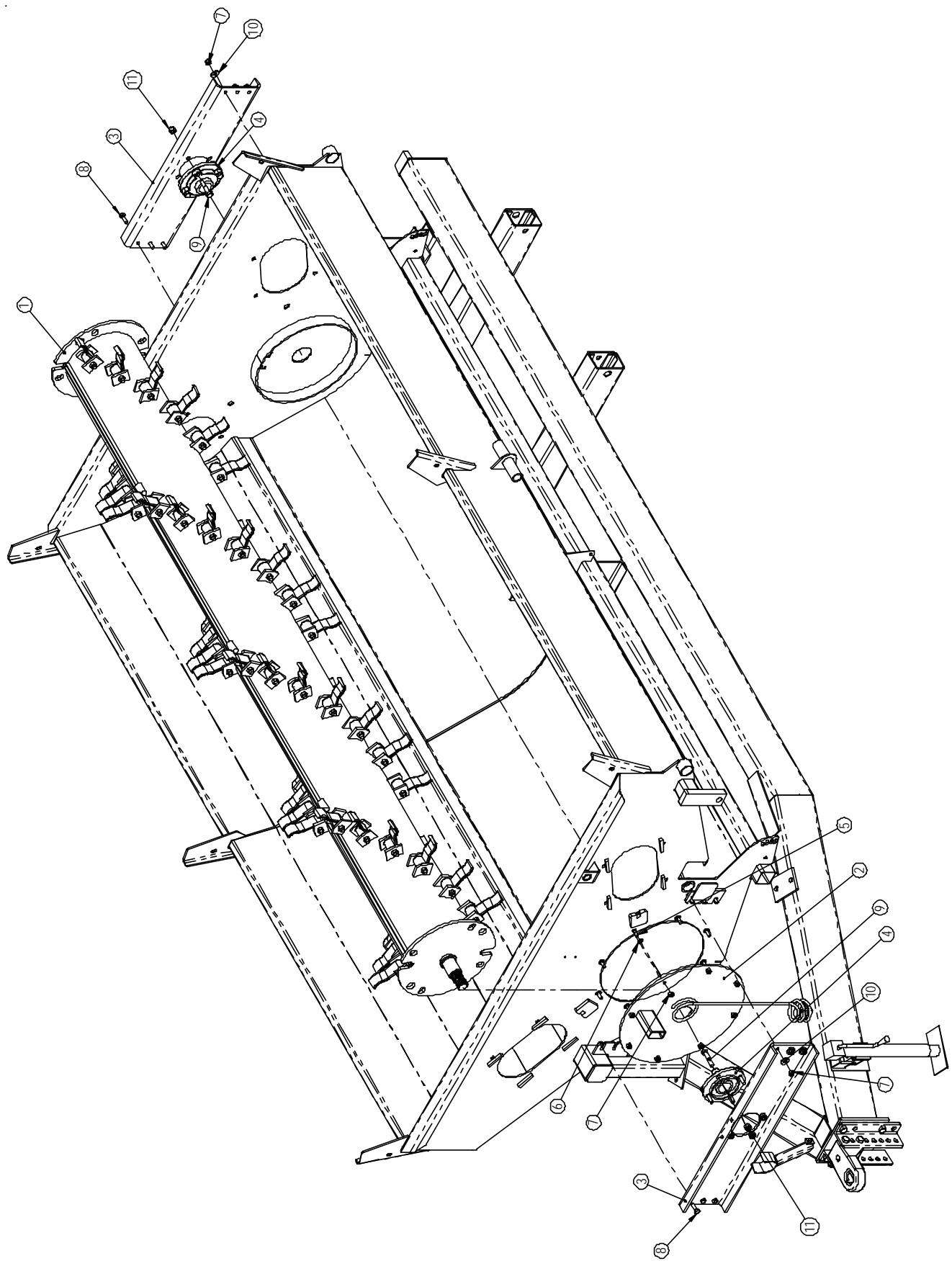
**4.2 Feed Roller Assembly (Part No. 49487)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49472	WLDT,ROLLER,FEED,7120	1
2	E3581	BELTING,ROLLER,FEED,14 HOLE	4
3	E6526	PLT,SCRAPER,RUBBER	8
4	31086	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP	56
5	31176	NUT,NYLOCK,3/8,UNC,ZP	56



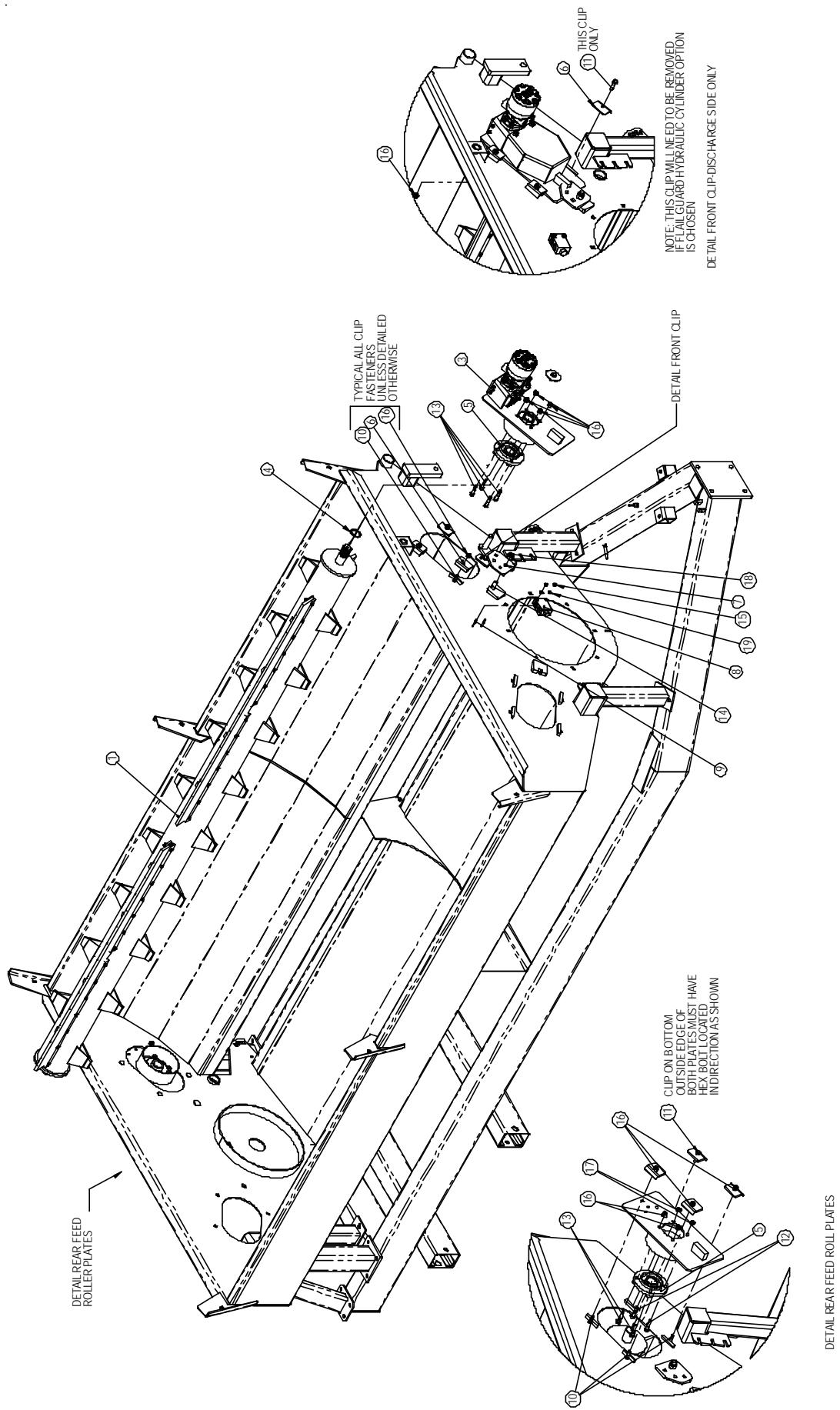
**4.3 Flail Drum Installation (Part No. 49499)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49471	ASSY,DRUM,FLAIL,7120	1
2	49800	WLDT,PLT,COVER,DRUM	1
3	E6794	CHANNEL,MOUNT,BEARING	2
4	33247	BEARING,CARTRIDGE,FLANGE,2-1/4"	2
5	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	8
6	31894	RETAINER,BOLT,1/2	8
7	31173	NUT,NYLOCK,1/2,UNC,ZP	20
8	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	12
9	31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	8
10	31236	WASHER,FLAT,1/2,ZP	12
11	31178	NUT,NYLOCK,5/8,UNC,ZP	8



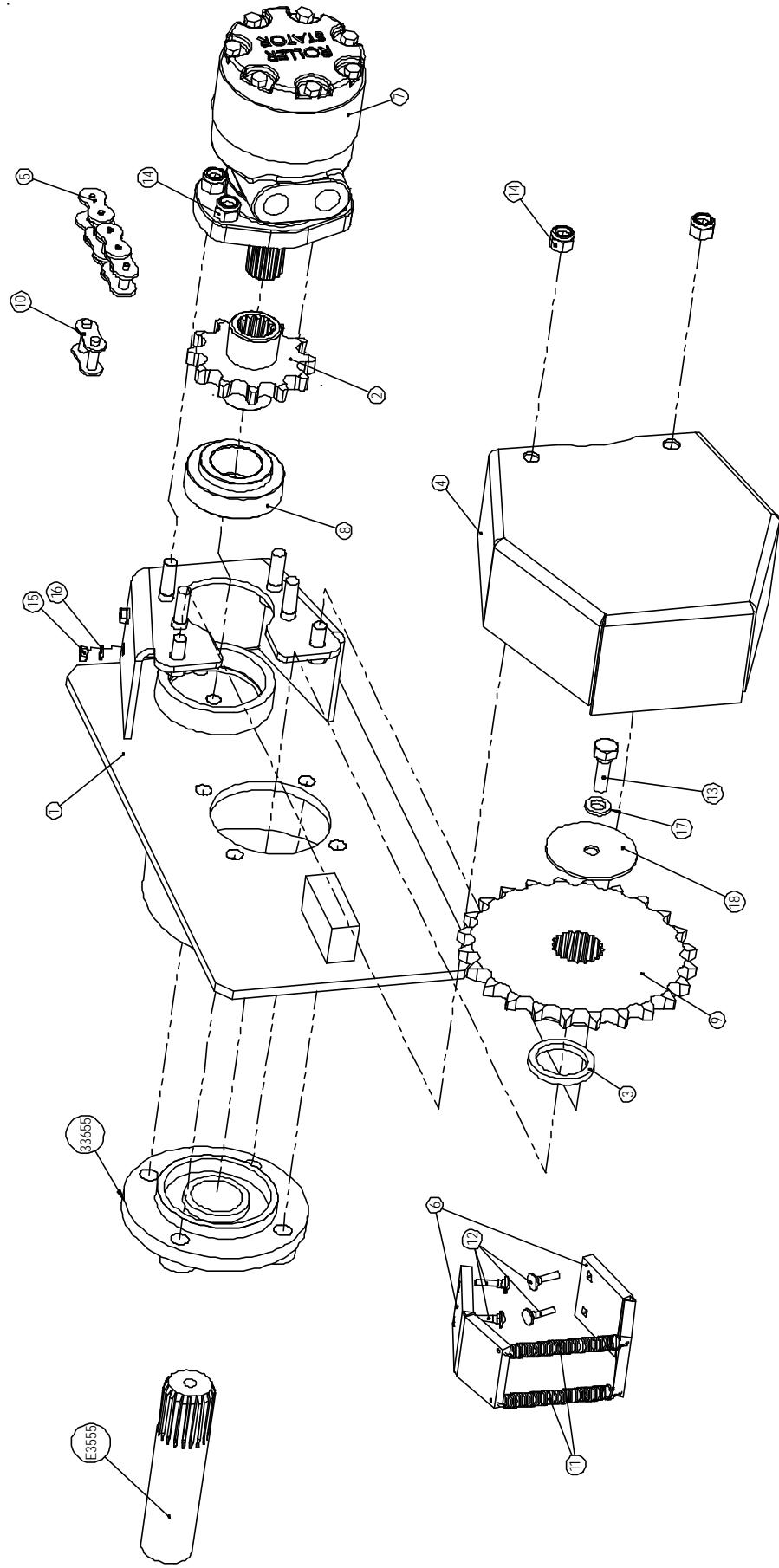
**4.4 Feed Roller Installation (Part No. 49488)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49487	ROLLER,FEED,COMPLETE,7120	2
2	49544	WLDT,TWINE_PLATE,REAR	2
3	49543	ASSY,DRIVE,FEEDROLLER	2
4	E6406	PIPE,SMLS,2-1/4x.240x1/8L	2
5	33655	BEARING,CARTRIDGE,FLANGE,1-3/4"	4
6	E7472	CLIP,RETAINING,1/2"OFFSET	16
7	E7327	LUG,ADJUST,FEEDROLL	4
8	33149	HYD,VALVE,FLOW_DIVIDER	1
9	31032	BOLT,HEX,1/4X2-1/4,UNC,GR5,ZP	2
10	33678	BOLT,CARR,1/2X1-3/4,UNC,GR5,ZP	13
11	31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	3
12	31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	4
13	31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	12
14	33449	BOLT,CARR,3/4x2-1/2,UNC,GR5,ZP	4
15	31174	NUT,NYLOCK,1/4,UNC,ZP	2
16	31173	NUT,NYLOCK,1/2,UNC,ZP	28
17	30611	NUT,NYLOCK,JAM,1/2,UNC,ZP	4
18	31175	NUT,NYLOCK,3/4,UNC,ZP	4
19	31237	WASHER,FLAT,1/4,ZP	2



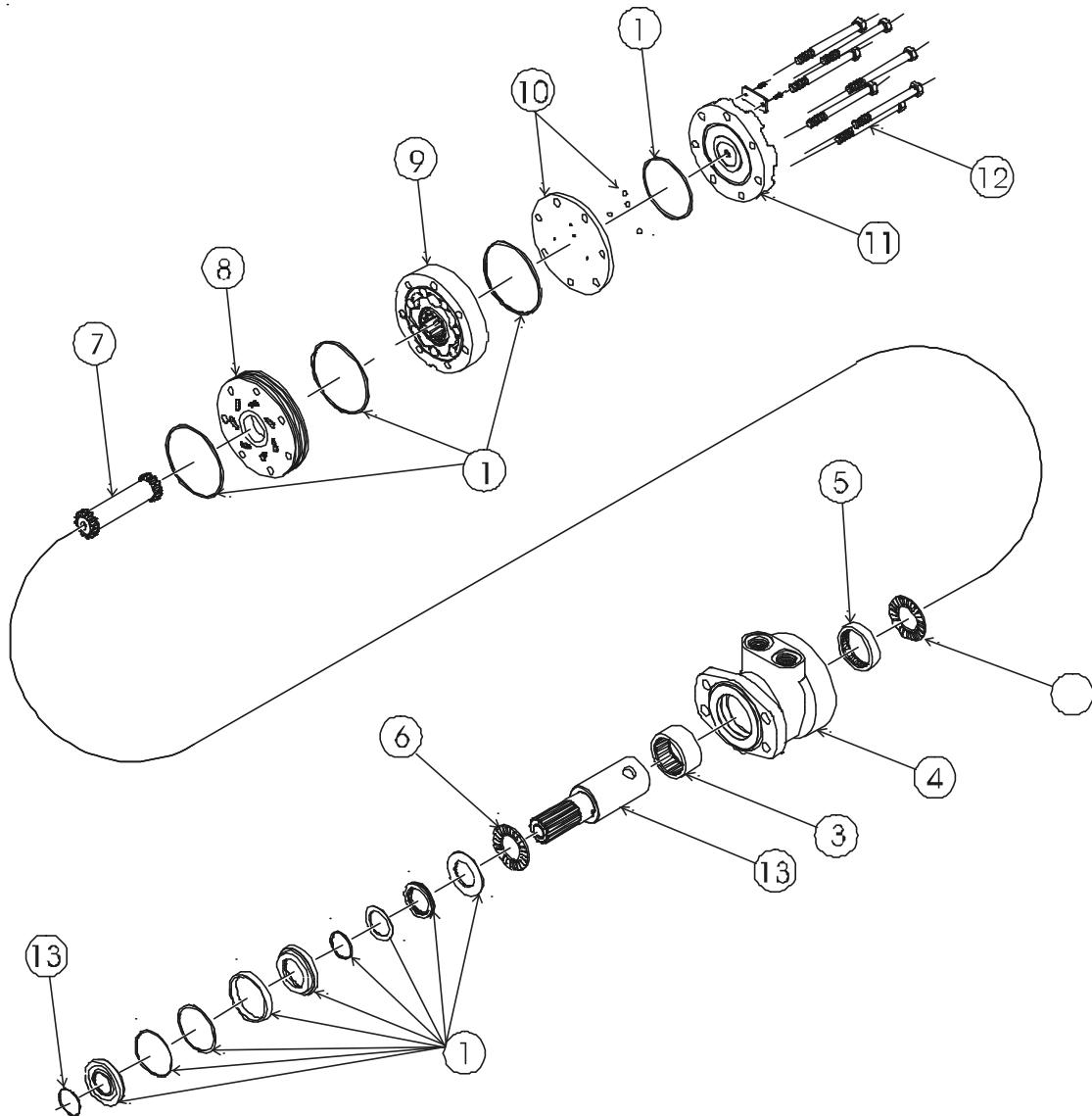
**4.4.1 Feedroller Drive Assembly (Part No. 49543)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49494	WLDT,BEARING_MOUNT,TWINE	1
2	75437	DRV,SPROCKET,COUPLING,SPLINE	1
3	E6405	PIPE,SMLS,2-1/4x.240x1/4L	1
4	E7386	GUARD,FEEDROLLER_CHAIN	1
5	E7542	CHAIN,ROLLER,#80,15LINKS	1
6	E8054	BLOCK,GUIDE,CHAIN	2
7	33377	HYD,MOTOR,22.8,3000PSI	1
8	33656	BEARING,INSRT,1-3/4B,85mmOD	1
9	33658	DRV,SPRKIT,#80,24,1-3/4-20SPL	1
10	33659	CHAIN,CONNECTOR_LINK,#80	1
11	33679	SPRING,EXT,31/64ODX4-1/2X.063	2
12	31012	BOLT,CARR,1/4X1,UNC,GR5,ZP	4
13	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	1
14	31173	NUT,NYLOCK,1/2,UNC,ZP	6
15	31164	NUT,HEX,1/4,UNC,GR5,ZP	4
16	31245	WASHER,LOCK,1/4,ZP	4
17	31244	WASHER,LOCK,1/2,ZP	1
18	32734	WASHER,FLAT,3-1/8ODX1/2	1



#### 4.4.1.1 Orbit Motor Assembly (Part No. 33377)

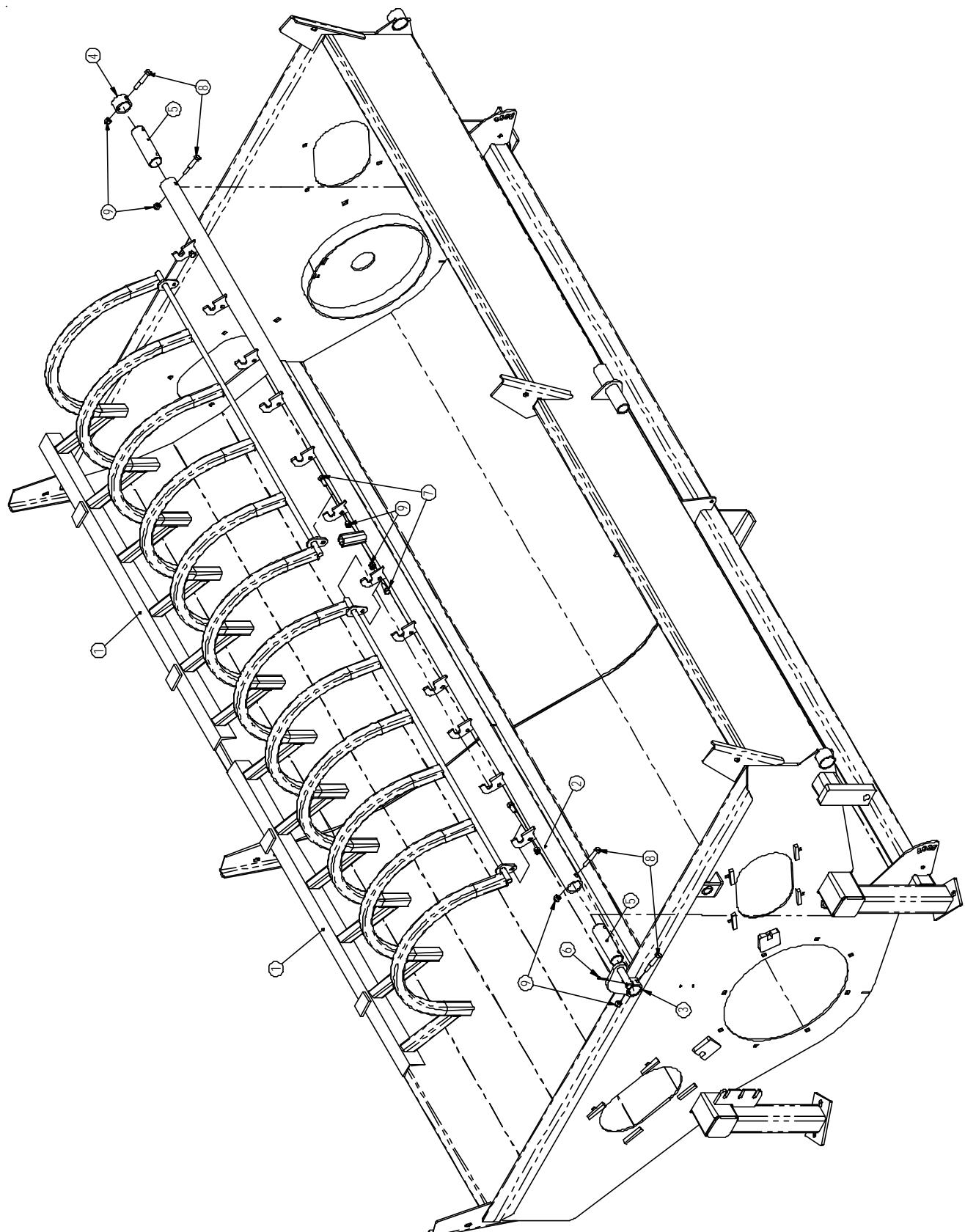
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	32647	SEALKIT,ROLLERSTATOR	1
2	32651	BEARING,THRUST,REAR	1
3	32720	BEARING,HOUSING,FRONT	1
4	33653	HOUSINGKIT	1
5	32649	BEARING,HOUSING,REAR,1/2	1
6	32639	BEARING,THRUST,FRONT	1
7	32722	DRIVELINKKIT	1
8	32725	SHAFTKIT	1
9	33652	ROTORKIT	1
10	32726	BALANCEPLATE&BALLS	1
11	32727	ENDCOVER	1
12	33654	BOLTKIT	1
13	32653	SHAFTKIT	1



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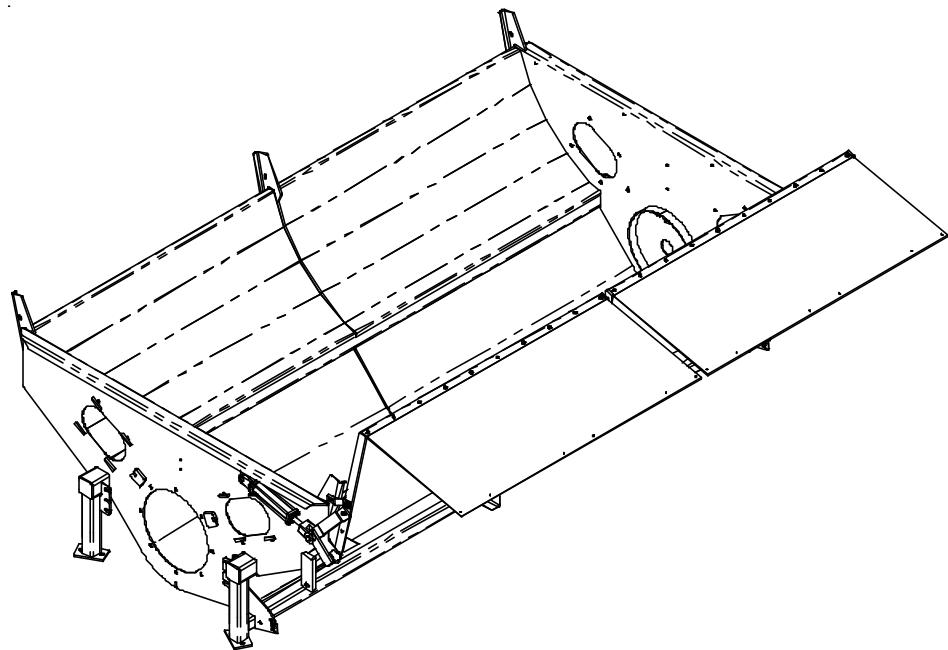
**4.5 Flail Guard Rod Assembly (Part No. 49492)**

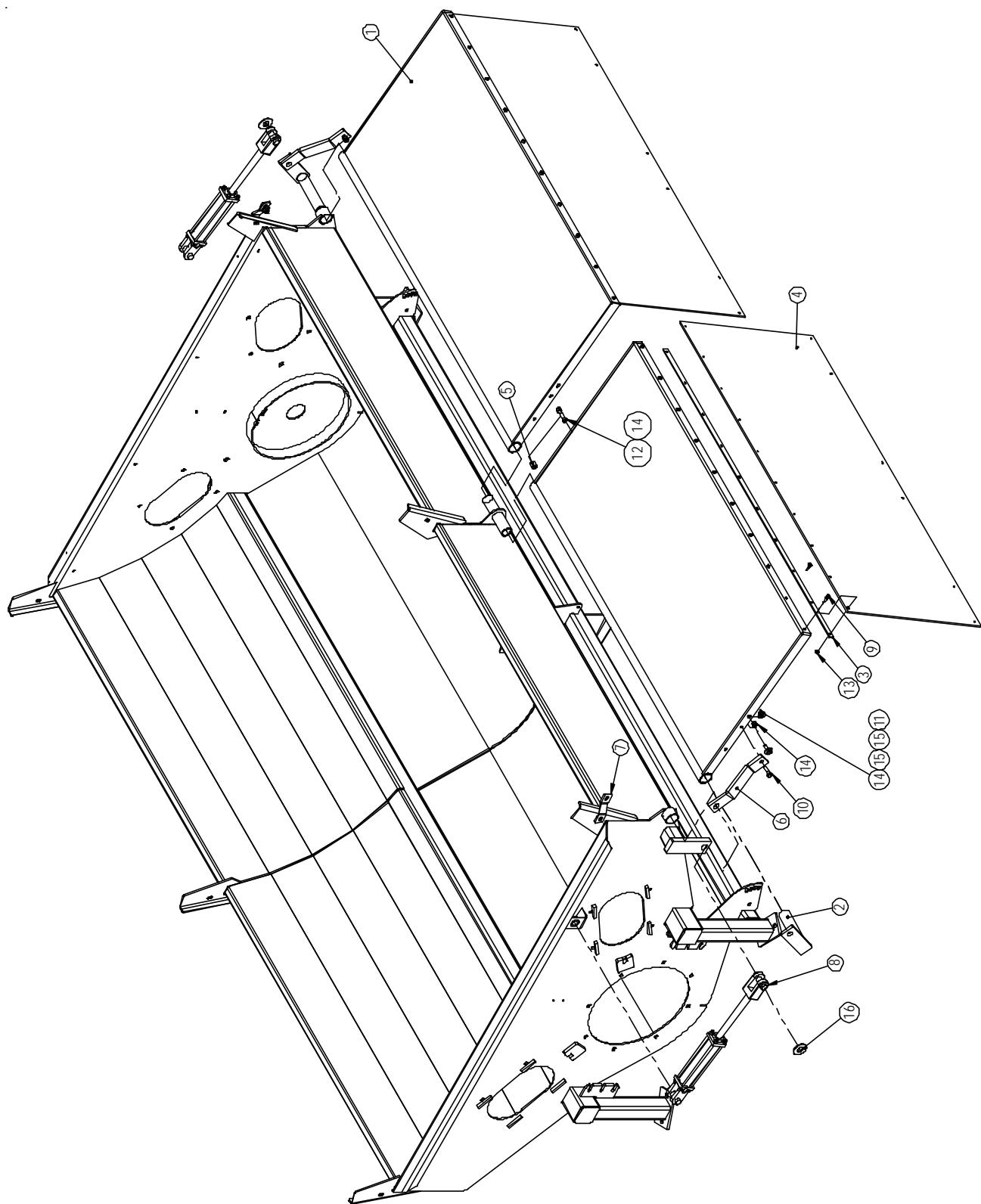
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49479	WLDT, GUARD, FLAIL	2
2	49489	WLDT, PIPE, ADJ, FLAIL_GUARD	1
3	49493	WLDT, LUG, ADJ, FLAIL_GUARD	1
4	E7474	PIPE, 2-3/8X.250WX1-3/8, 9/16	1
5	E7476	SHAFT, 1-27/32X6-3/8, 1/2HX2	2
6	31289	PIN, COTTER, 3/16X1-1/2	1
7	31332	BOLT, HEX, 1/2X1-1/4, UNC, GR5, ZP	4
8	31021	BOLT, HEX, 1/2X3, UNC, GR5, ZP	4
9	31173	NUT, NYLOCK, 1/2, UNC, ZP	8



**4.6 Top Discharge Door Assembly (Part No. 49485)**

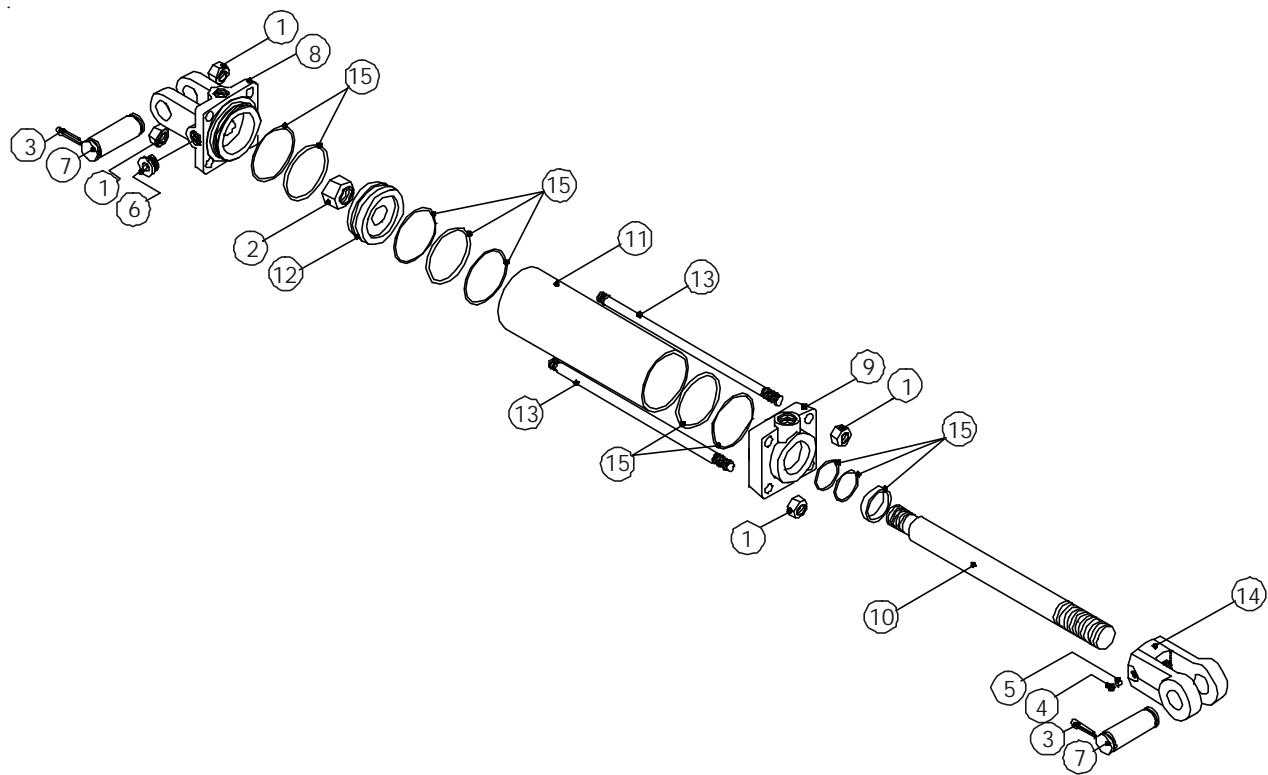
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49475	WLDT,DOOR,DISCHARGE	2
2	49486	WLDT,PIN,DOOR	2
3	E5017	PLT,RETAINING,BELTING	2
4	E5018	BELTING,DISCHARGE	2
5	E6174	BUSHING,17/32IDX7/8ODX1L	1
6	E7426	LUG,OFFSET,DEFLECTOR	2
7	E7535	PLT,OFFSET,TRANSPORT	2
8	90104	HYD,CYL,2X8,1.125,8FB	2
9	31443	BOLT,HEX,5/16X1-1/4,UNC,GR5,ZP	20
10	31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	2
11	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	2
12	31018	BOLT,HEX,1/2X2-1/2,UNC,GR5,ZP	1
13	31177	NUT,NYLOCK,5/16,UNC,ZP	20
14	31173	NUT,NYLOCK,1/2,UNC,ZP	5
15	31236	WASHER,FLAT,1/2,ZP	4
16	31235	WASHER,FLAT,1,ZP	2





#### 4.6.1 2x8 Hydraulic Cylinder (Part No. 90104)

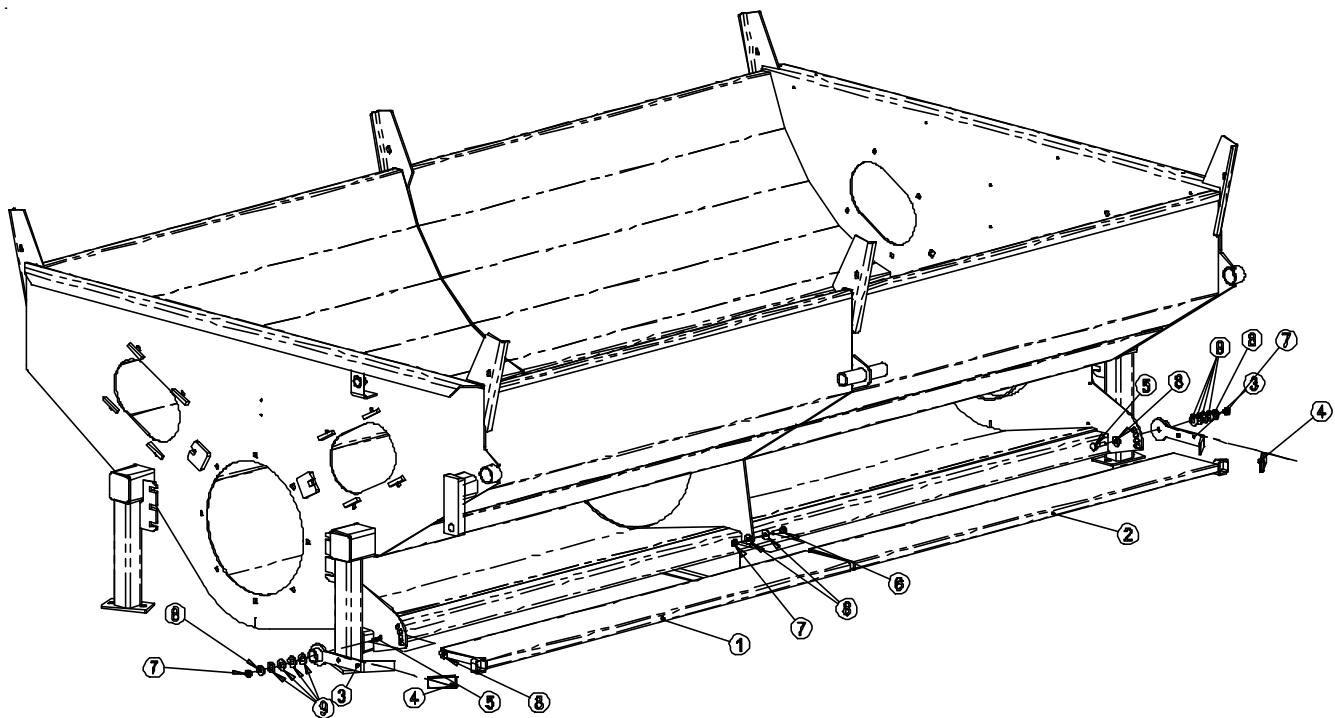
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31485	NUT,HEX,3/8,UNC,ZP	8
2	31588	NUT,HEX,3/4,UNF	1
3	30238	PIN,COTTER,3/16X1-1/2	4
4	30239	SETSCREW,SOCKET,3/8X1-1/2KNUR	1
5	30261	LOCKTHREAD,NYLOCK	1
6	33026	HYD,FIT,PLUG,8ORB,HOLLOWHEX	1
7	32250	HYD,CYL,PIN,1	2
8	33027	HYD,CYL,CLEVIS,CAP,2,80RBF	1
9	33028	HYD,CYL,CAP,ROD,2X1-1/8,80RBF	1
10	33029	HYD,CYL,ROD,1-1/8X14-3/4	1
11	33030	HYD,CYL,2X8,H6203	1
12	33031	HYD,CYL,PISTON,2,H6688	1
13	33032	HYD,CYL,TIE ROD,3/8X8	4
14	33033	HYD,CLEVIS,1-1/8,1PIN	1
15	33034	HYD,CYL,SEALKIT,2,639572	1



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**4.7 Bottom Discharge Door Assembly (Part No. 49484)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49099	DOOR,DISCHARGE,BOTTOM	1
2	49236	DOOR,DISCHARGE,BOTTOM,HDR	1
3	49545	HANDLE,DEFLECTOR,BOTTOM,SHORT	2
4	92127	COVER,VINYL,3/8X1-1/2	2
5	31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	2
6	31009	BOLT,CARR,1/2X2,UNC,GR5,ZP	1
7	31173	NUT,NYLOCK,1/2,UNC,ZP	3
8	31236	WASHER,FLAT,1/2,ZP	6
9	31668	WASHER,SPRING,3/4,342	8

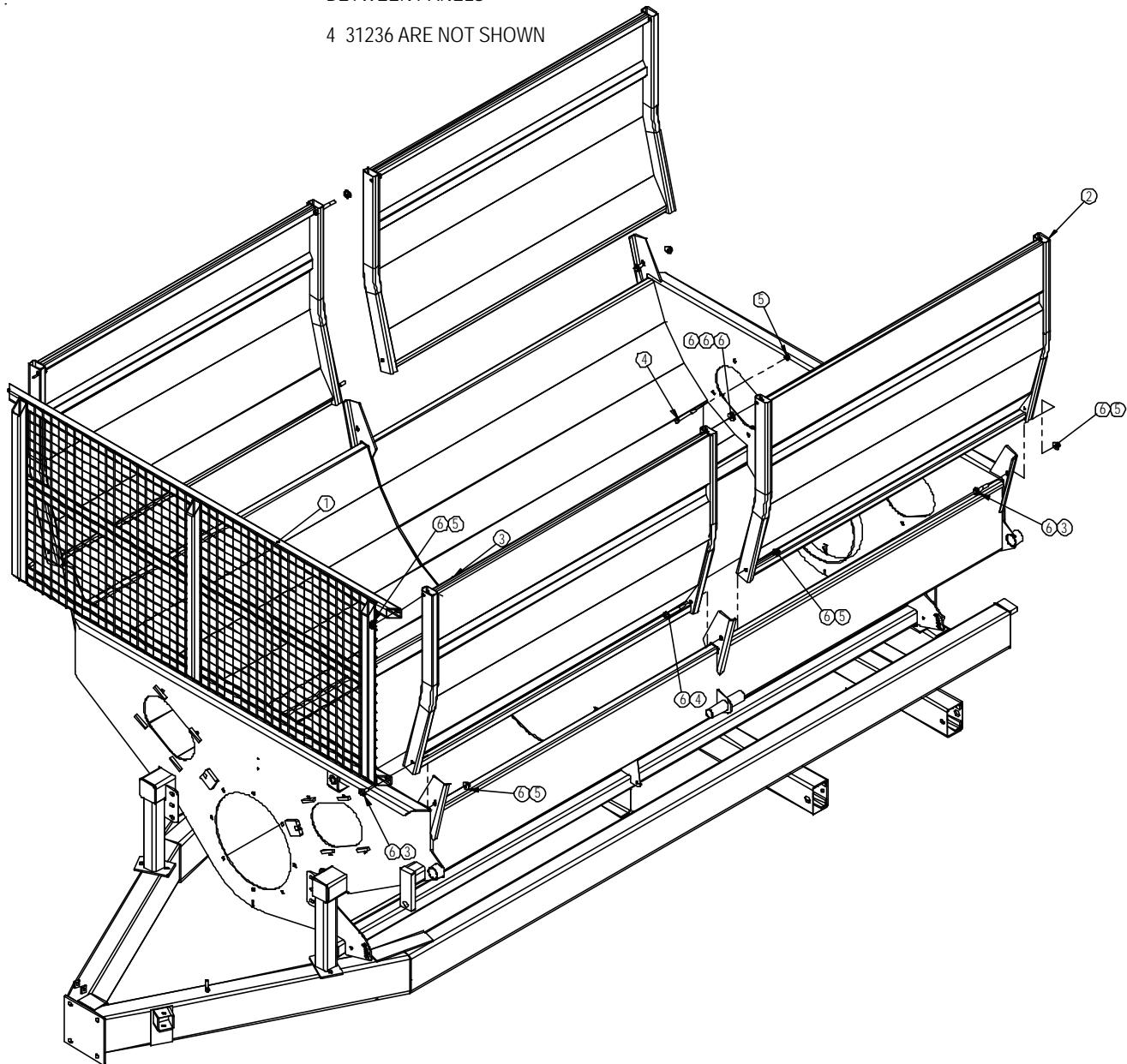


#### 4.8 Bale Deflector and Spill Screen Assembly (Part No. 49483)

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49476	WLDT,SCREEN,FRONT	1
2	49478	WLDT,DEFLECTOR,BALE,7120	4
3	31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	6
4	31027	BOLT,HEX,1/2X4-1/2,UNC,GR5,ZP	4
5	31173	NUT,NYLOCK,1/2,UNC,ZP	10
6	31236	WASHER,FLAT,1/2,ZP	24

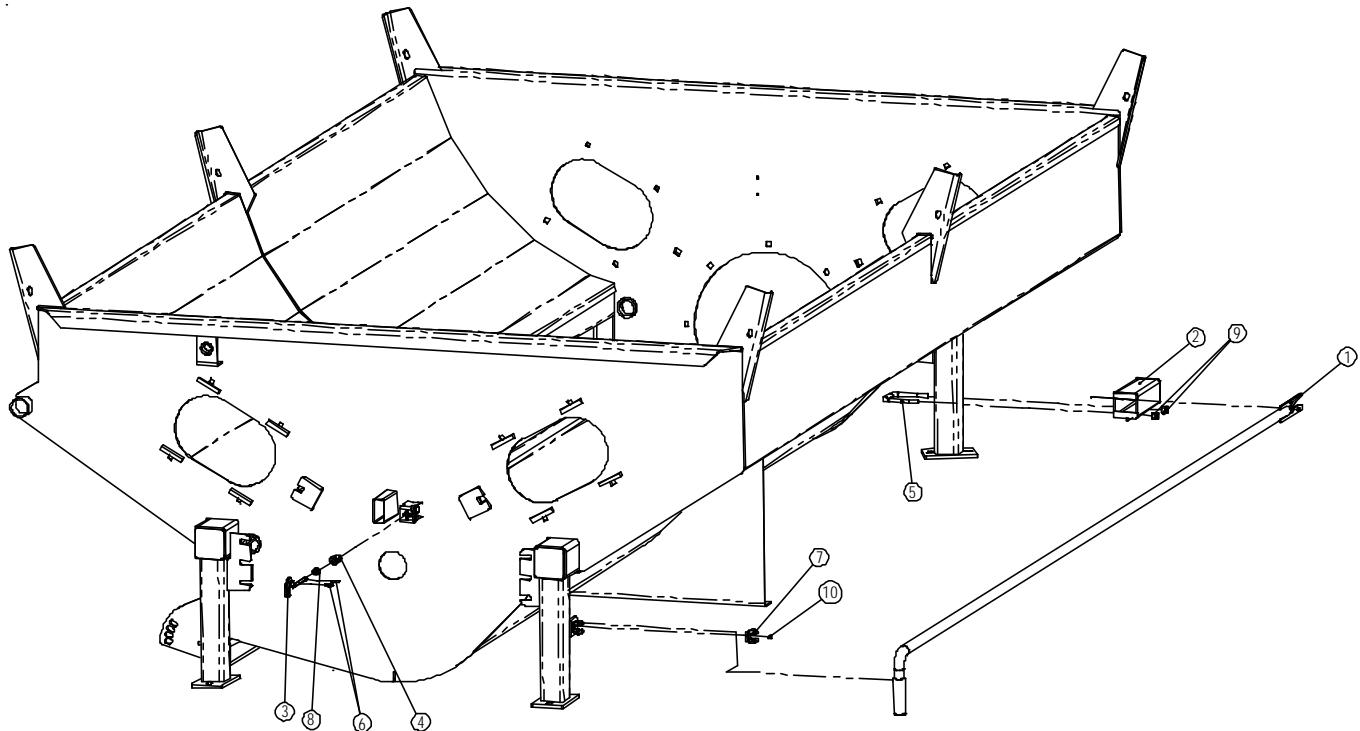
10 31236 ARE TO BE USED  
AS REQUIRED TO SPACE  
BETWEEN PANELS

4 31236 ARE NOT SHOWN



**4.9 Twine Cutter Assembly (Part No. 49824)**

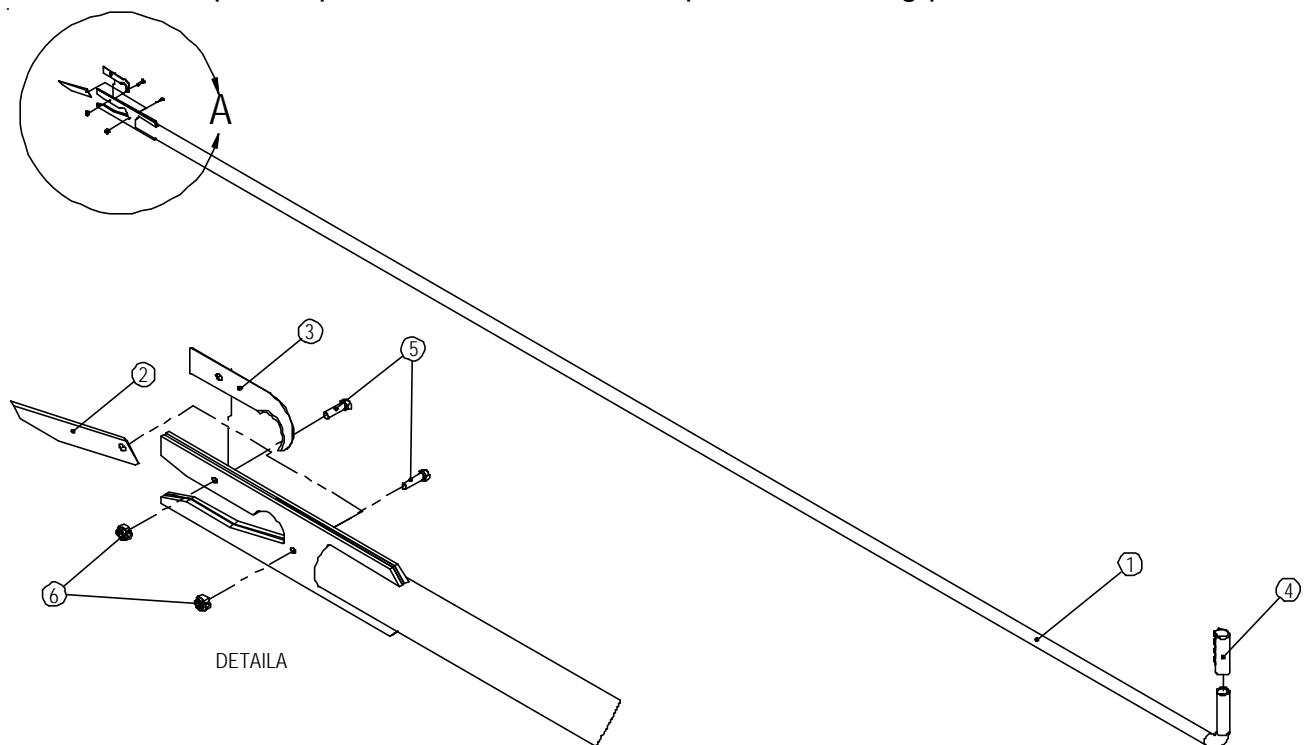
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49816	ASSY,TWINECUTTER,7120	1
2	49817	WLDT,BOX,STORAGE,CUTTER	1
3	E5848	LOCK,HANDLE,DRUM,FLAIL	1
4	E5850	LOCK,DRUM,FLAIL	1
5	31616	BOLT,U,SQ,1/2-13,3x4,1-1/4	1
6	31805	PIN,SPRING,3/16x1	2
7	31814	CLIP,GRIPPER,1-1-1/2	2
8	31860	SPRING,COMPRESSION,3/4x1-7/8"	1
9	31173	NUT,NYLOCK,1/2,UNC,ZP	2
10	31739	RIVET,ST,3/16x.565,.375HEAD	2



**4.9.1 Twine Cutter Tool Assembly (Part No. 49816)**

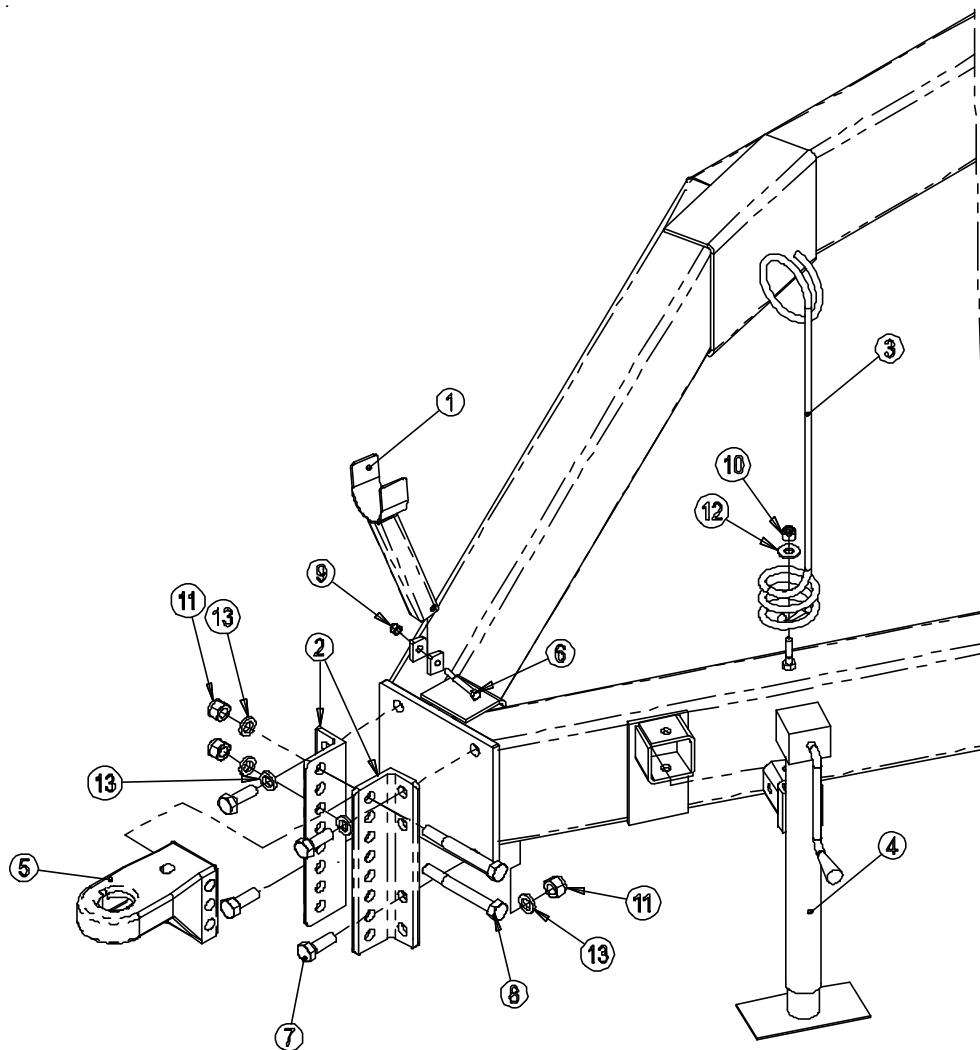
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49815	WLDT,TWINECUTTER,7120	1
2	E7509	BLADE,KNIFE,SOLID,TRIMMED	1
3	33479	BLADE,HOOK	1
4	31810	GRIP,HANDLE,1-1/4IDX4-1/2	1
5	33477	SCRW,MCH,SLOTHEX,#8-32,ZP	2
6	33480	NUT,NYLOCK,#8,UNC,ZP	2

\*10 pack replacement blades can be purchased using part #49904



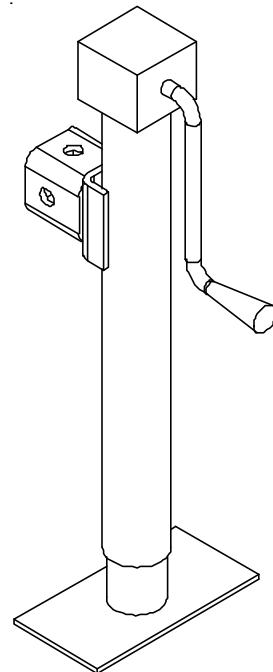
#### 4.10 Hitch and Jack Assembly (Part No. 49498)

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49423	WLDT,CVHOLDER,7010	1
2	E6546	ANGLE,BRIDLE,HITCH	2
3	30206	HYD,HOLDER,HOSE,1/2	1
4	31800	JACK,5000LBX15,SCMNT,SIDEWIND	1
5	31861	HITCH,BASE,3IN1	1
6	30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	1
7	31339	BOLT,HEX,3/4X2,UNC,GR5,ZP	4
8	31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	2
9	31176	NUT,NYLOCK,3/8,UNC,ZP	1
10	31173	NUT,NYLOCK,1/2,UNC,ZP	1
11	31175	NUT,NYLOCK,3/4,UNC,ZP	4
12	31236	WASHER,FLAT,1/2,ZP	1
13	31246	WASHER,LOCK,3/4,ZP	6



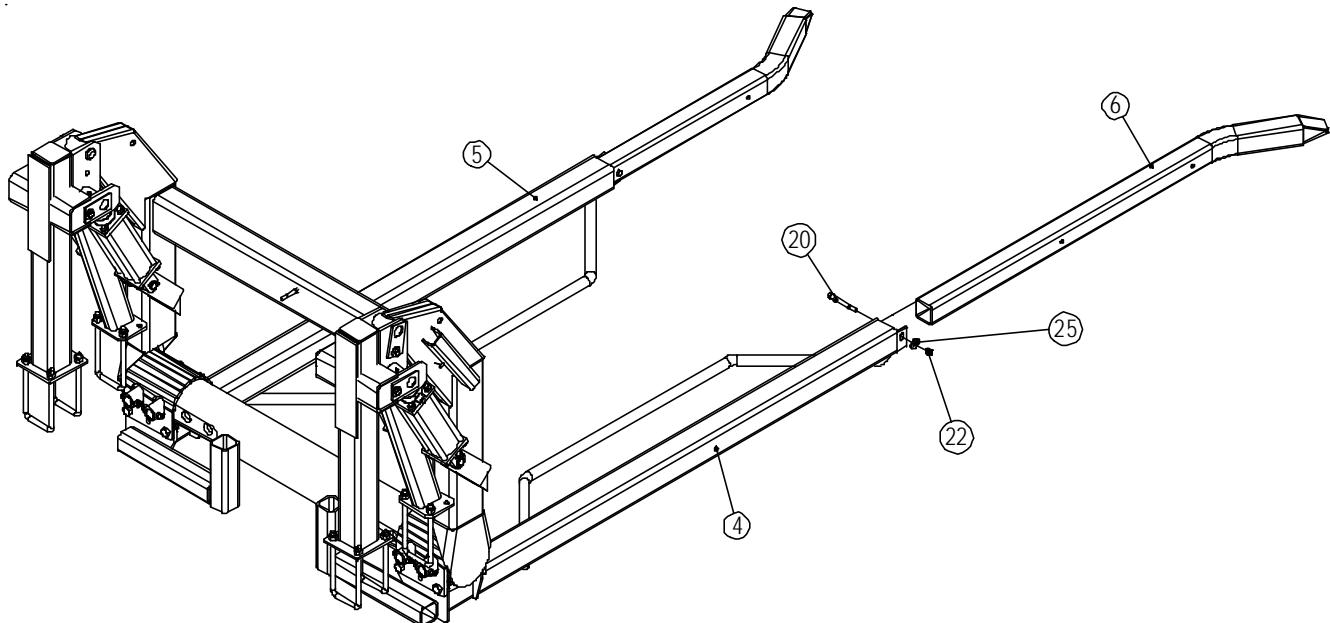
**4.10.1 Jack Assembly (Part No. 31800)**

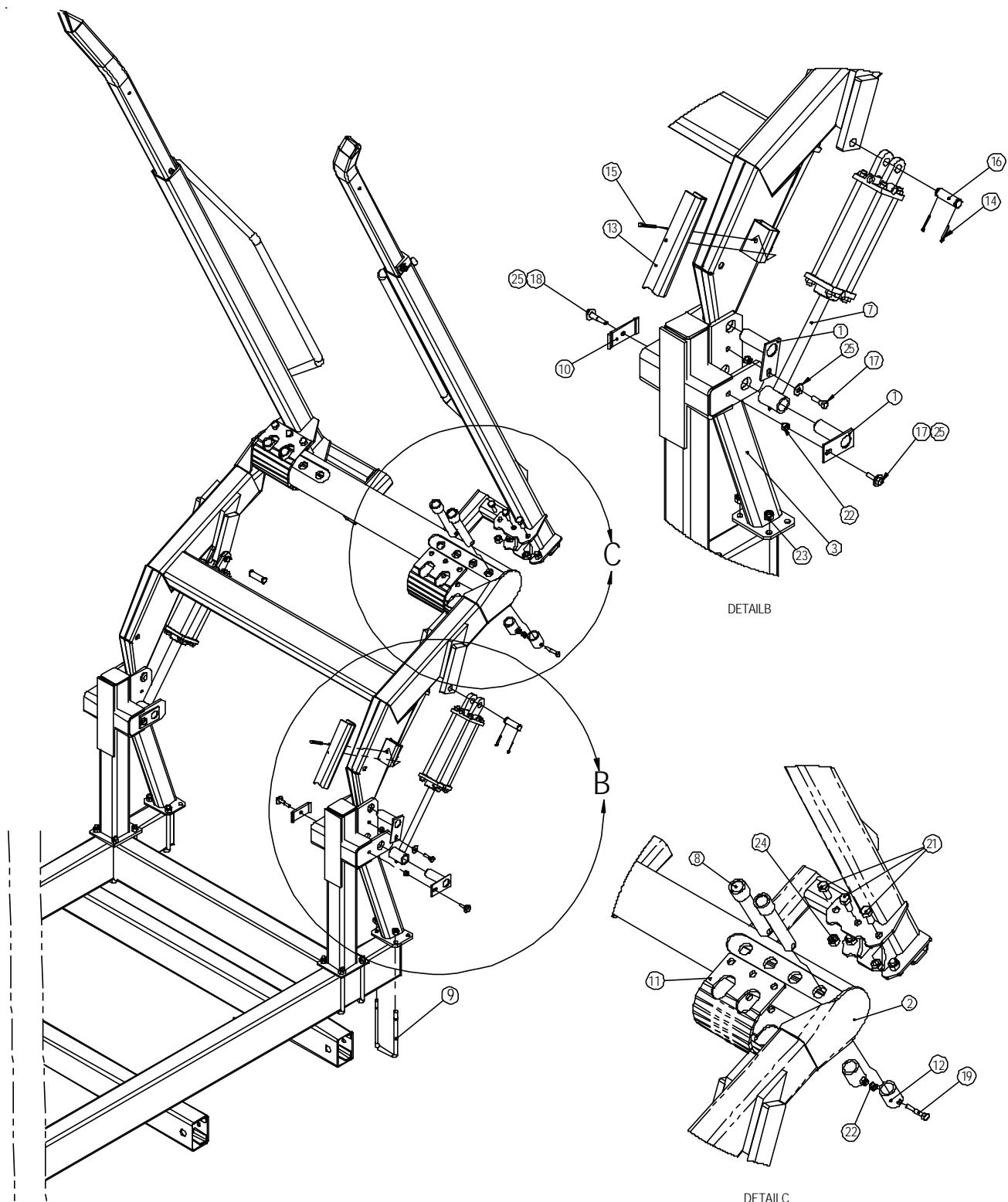
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31800	JACK,5000LBX15,SQ MNT,SIDEWIND	1
2	33438	KIT,PIN & CHAIN-5/8"X4.25"	1
3	33439	KIT,5K BEARING REPLACEMENT	1
4	33440	KIT,STD BEVEL GEAR REPLAC.	1
5	33441	KIT,SW CRN CRANK REPLAC.	1
6	33442	COVER,GEARBOX	1



#### 4.11 Lift/Fork Assembly (Part No. 49482)

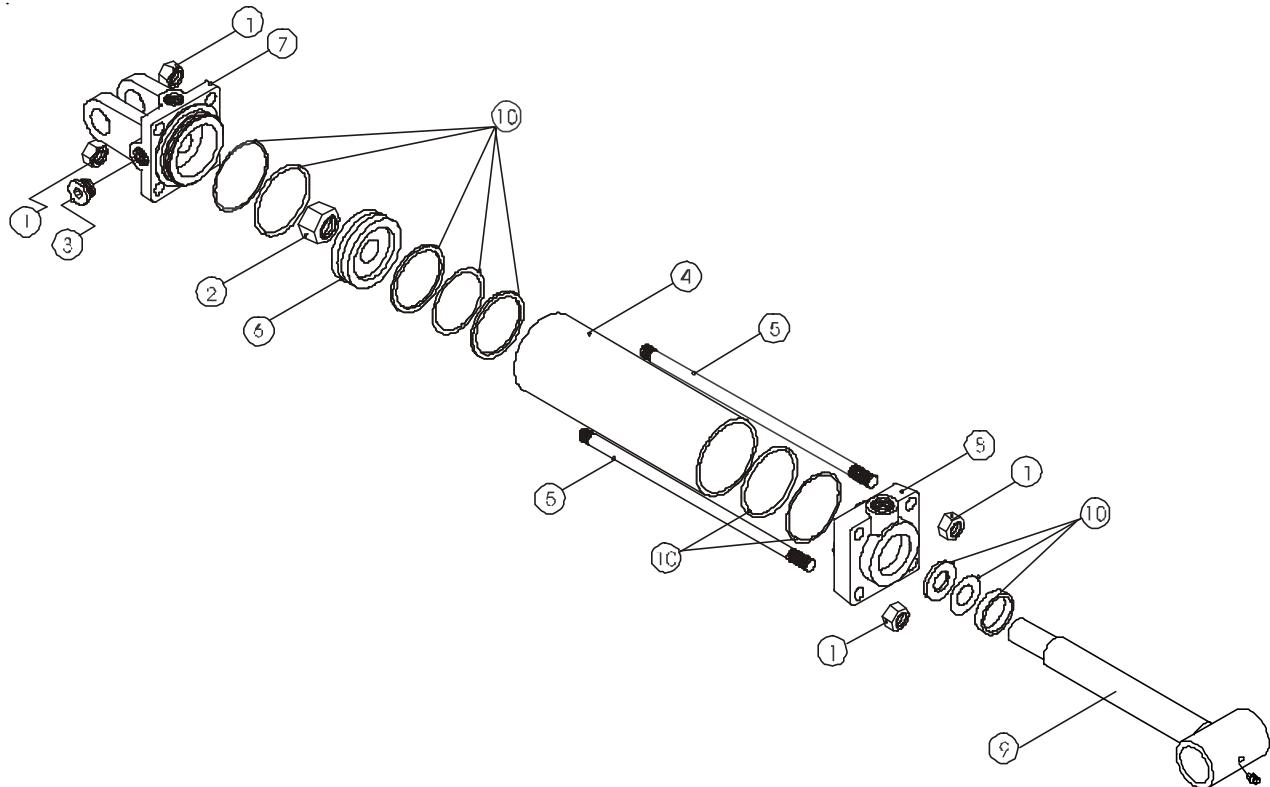
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49382	PIN,ANTIROTATE,1-1/2DIA	6
2	49473	WLDT,FORK,FRAME	1
3	49474	WLDT,FRAME,LIFTFORK	2
4	49477	WLDT,FORK,LEFT	1
5	49480	WLDT,FORK,RIGHT	1
6	49481	WLDT,FORK,SLIDER	2
7	49542	WLDT,CLEVIS,CYL,ZERK_CENTERED	4
8	49803	PIN,FLOAT,FORK,7-5/8	4
9	33243	BOLT,U,SQ,5/8-11X4-1/8X9-1/2	6
10	E5553	CLAMP,HOSE,HYD	1
11	E7353	PLT,FORKPIVOT	2
12	E7367	BUSHING,PIN,FORK,LONG	4
13	E7371	PLT,LOCK,TRANSPORT	1
14	30238	PIN,COTTER,3/16X1-1/2	8
15	31670	PIN,LOCK,1/4X2-1/2	1
16	32250	HYD,CYL,PIN,1	4
17	31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	5
18	31018	BOLT,HEX,1/2X2-1/2,UNC,GR5,ZP	1
19	31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	4
20	31027	BOLT,HEX,1/2X4-1/2,UNC,GR5,ZP	2
21	33405	BOLT,HEX,3/4X1-3/4,UNF,GR8,ZP	10
22	31173	NUT,NYLOCK,1/2,UNC,ZP	12
23	31178	NUT,NYLOCK,5/8,UNC,ZP	12
24	33082	NUT,STOVER,3/4,UNF,GR8,ZP	8
25	31236	WASHER,FLAT,1/2,ZP	8





#### 4.11.1 3.5x10 Hydraulic Cylinder Assembly (Part No. 32982)

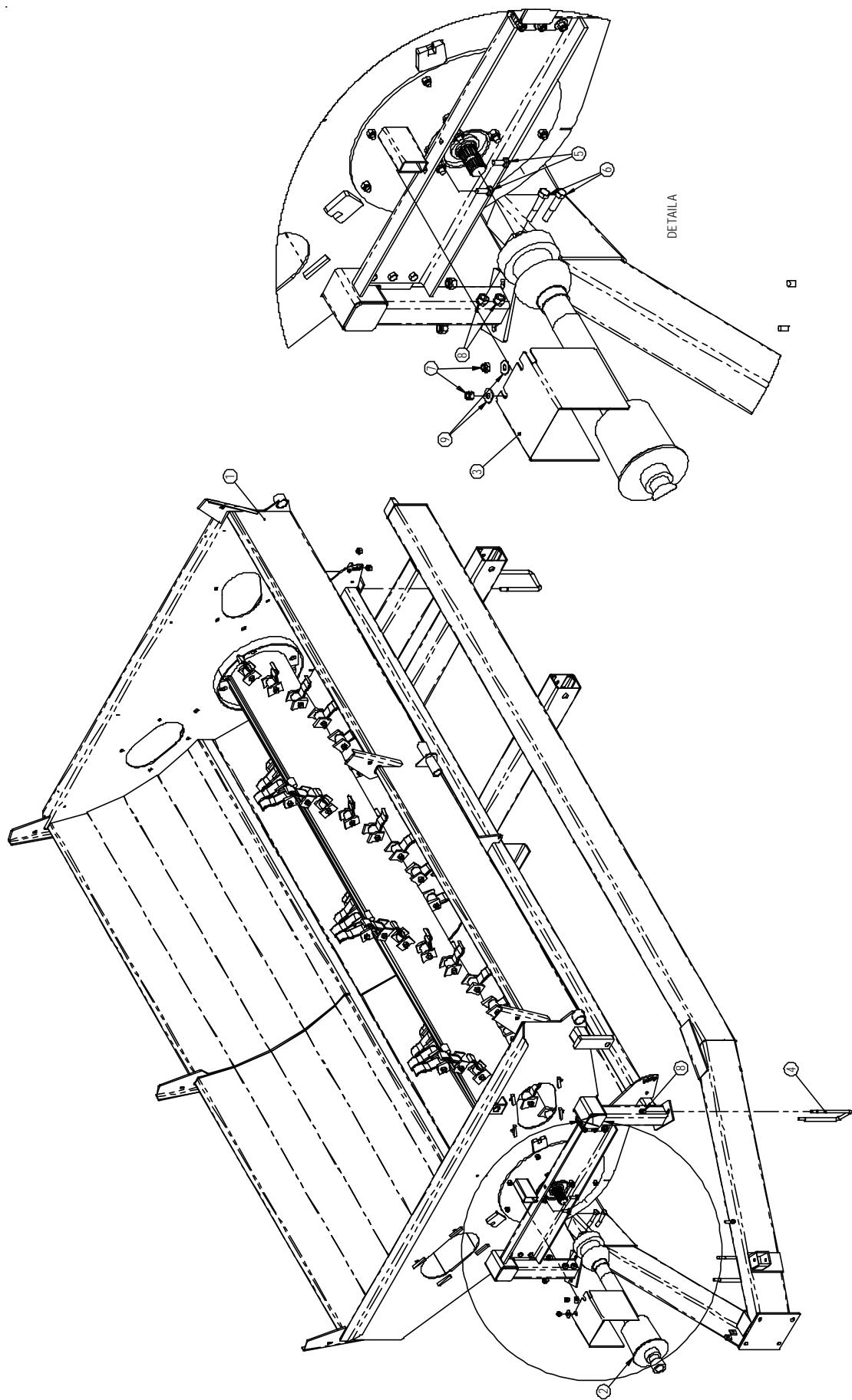
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	30663	NUT,HEX,5/8,UNF,GR5,ZP	8
2	30237	NUT,HEX,1,UNS,GR5	1
3	30193	FITTING,PLUG,3/4"-16UNF,STRTHD	1
4	33131	HYD,CYL,TUBE,3-1/2X10	1
5	33132	HYD,CYL,TIE,ROD,5/8X10	4
6	30251	HYD,CYL,PISTON,3-1/2,H6688	1
7	33133	HYD,CYL,CLEVISCAP,3.5_3/4O_1.0	1
8	33134	HYD,CYL,RODCAP,3.5_1.25_3/4O	1
9	49578	WLDT,ROD,1-1/4,10,CENTEREDGZ	1
10	90677	HYD,CYL,SEALKIT,MONARCH,3-1/2	1



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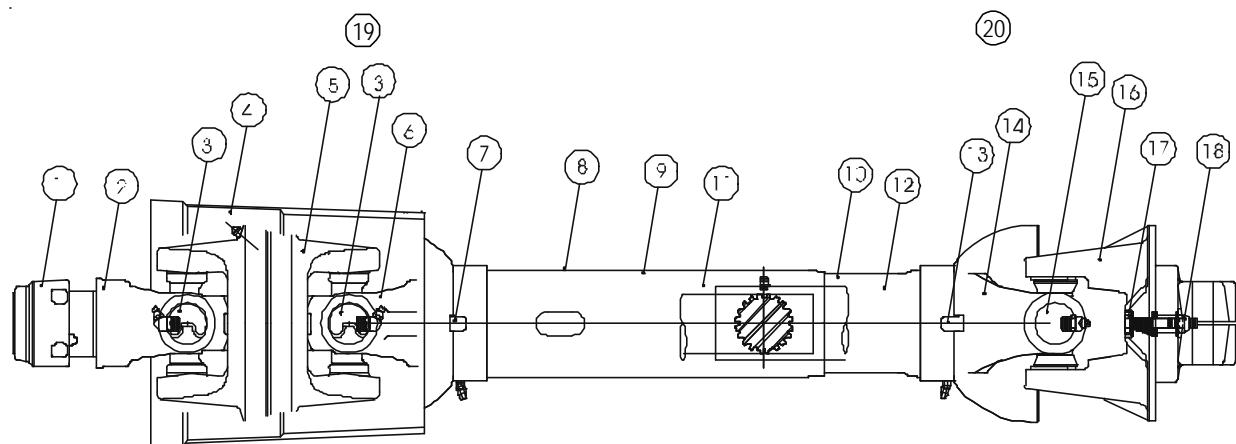
**4.12 Tub to Frame Assembly (Part No. 49801)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49467	WLDT,TUB,7120	1
2	45231	DRV,DL,CV,44R,CAT5	1
3	E7538	GUARD,DRV,CHANNEL MOUNT	1
4	33243	BOLT,U,SQ,5/8-11X4-1/8X9-1/2	4
5	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	2
6	31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	2
7	31173	NUT,NYLOCK,1/2,UNC,ZP	2
8	31178	NUT,NYLOCK,5/8,UNC,ZP	10
9	31236	WASHER,FLAT,1/2,ZP	2



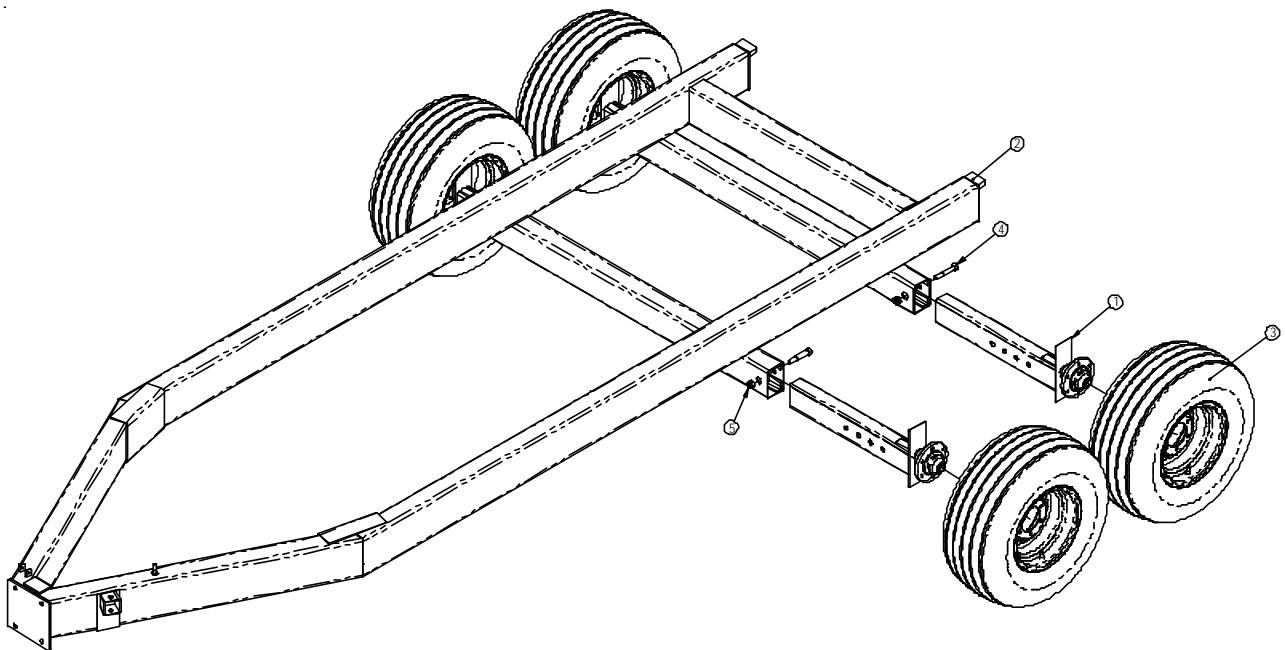
#### 4.12.1 C.V. Assembly (Part No. 45231)

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	31247	DRV,PTO,KIT,REPAIR,AUTOLOCK	1
2	31248	DRV,PTO,AUTOLOCKASSY,1-3/8,CAT5	1
3	31249	DRV,PTO,CROSS&BRG,CAT5	2
4	31250	DRV,PTO,EXTENSION,BELL,WCENTR	1
5	31251	DRV,PTO,ASSEM,CENTER,CV	1
6	33501	DRV,DL,CV,YOKE&SHAFT	1
7	31253	DRV,PTO,KIT,REPAIR,NYLON	1
8	31254	SIGN,SAFETY	1
9	31256	DRV,DL,GUARD,OUTER	1
10	31257	DRV,DL,CV,GUARD,INNER	1
11	33322	DRV,DL,CENTRALIZER	1
12	30363	DRV,DL,SIGN,SAFETY	1
13	31259	DRV,PTO,KIT,REPAIR,NYLON	1
14	33504	DRV,DL,CV,YOKE,TUBE,SLIPSLV	1
15	31261	DRV,CROSS&BEARING,44R	1
16	31262	DRV,PTO,ASSEMBLY,BALLSHEAR	1
17	31453	BOLT,HEX,5/16X2,UNC,GR5,ZP	1
18	31177	NUT,NYLOCK,5/16,UNC,ZP	1
19	33702	JOINT&SHAFTHALFASMW/GUARD	
20	33703	JOINT&TUBEHALFASMW/GUARD	



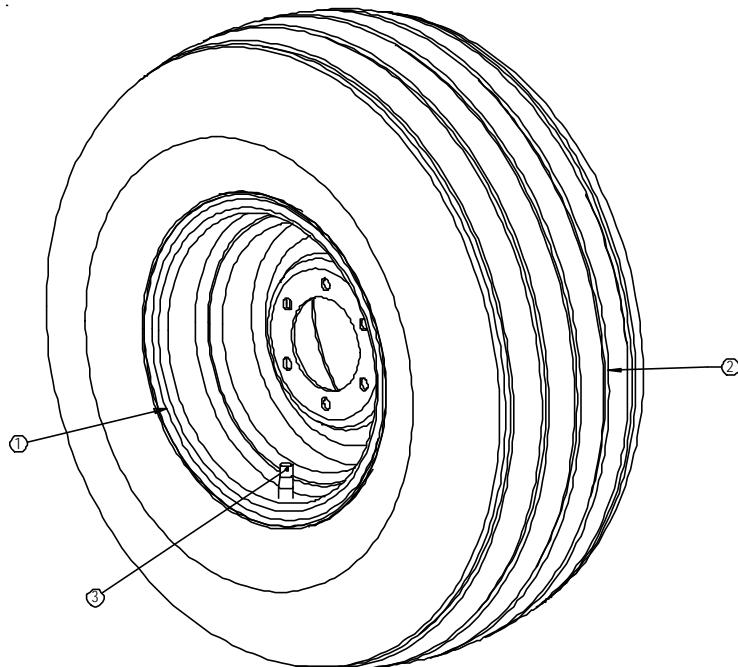
**4.13 Axle to Frame Assembly (Part No. 49802)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49381	ASSY,AXLE,ADJUST,S611	4
2	49469	WLDT,FRAME,7120	1
3	33549	WHEEL,31X13.5-15,6,OFF-WHITE	4
4	31488	BOLT,HEX,3/4X4-1/2,UNC,GR5,ZP	4
5	31175	NUT,NYLOCK,3/4,UNC,ZP	4

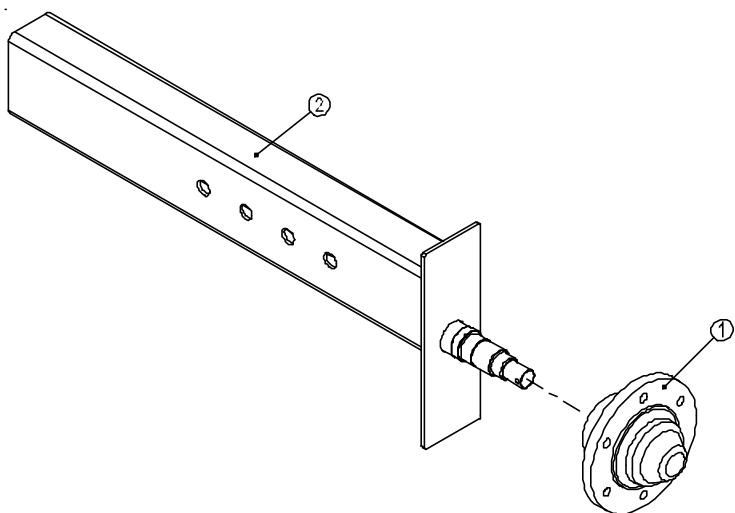


**4.13.1 Wheel Assembly (Part No. 33549)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	33700	SUSP,RIM,15X10,1.12.6,OFF-WHITE	1
2	33701	SUSP,TIRE,31X13.5-15NHS,8PLY	1
3	91048	SUSP,STEM,VALVE,TR801HP	1

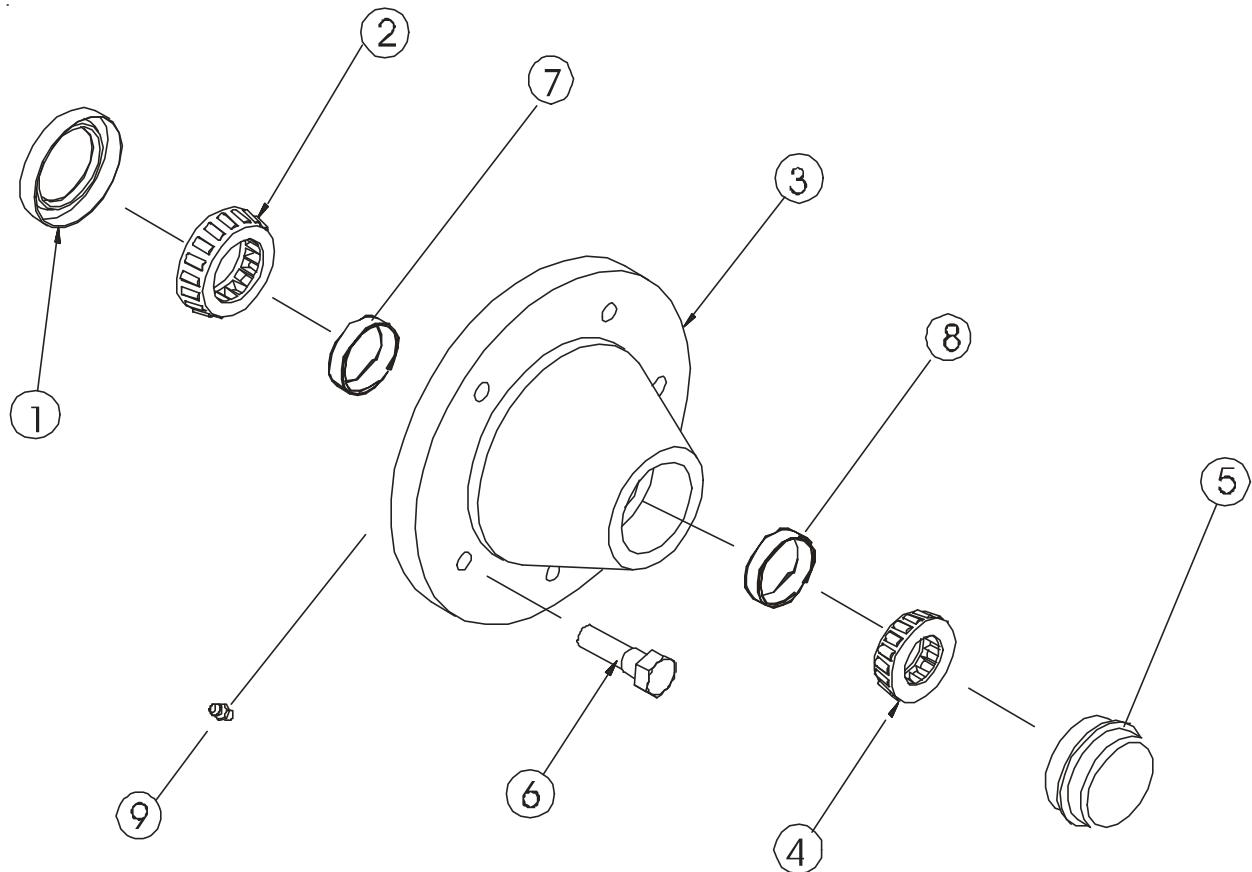
**4.13.2 Axle Adjustment Assembly (Part No. 49381)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45224	SUSP,HUB,H611,3600lbs	1
2	49380	AXLE,ADJ.W/O_HUB	1

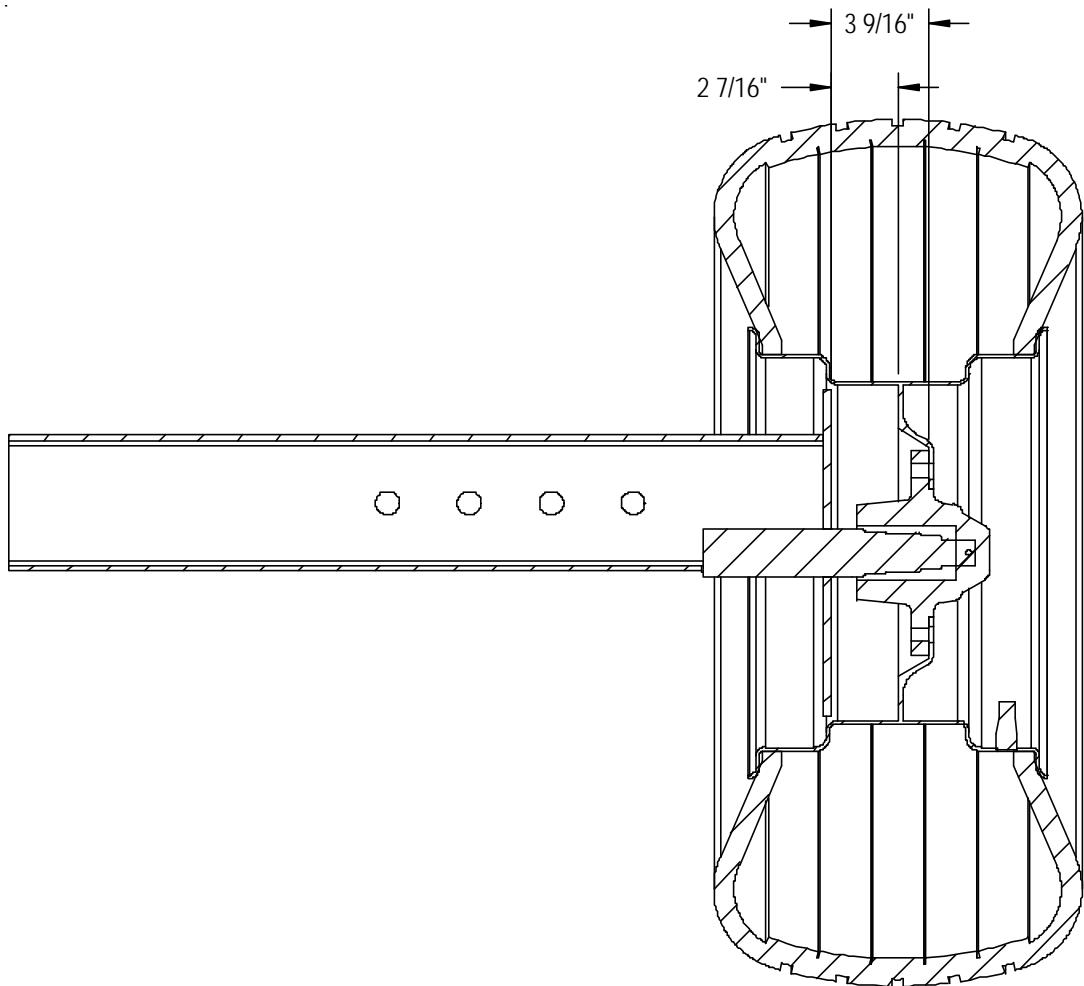


**4.13.2.1 Hub (H611) Assembly (Part No. 45224)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30346	OIL SEAL	1
2	30344	BRG,1-1/2,611 HUB	1
3	30373	SUSP,HUB,H611	1
4	30345	SUSP,BRG,1-1/4,611 HUB	1
5	30342	SUSP,CAP,DUST,611 HUB	1
6	32336	SUSP,BOLT,WHEEL,1/2X1-1/4X1-3/4	6
7	91150	SUSP,BRG,RACE	1
8	91130	SUSP,BRG,RACE	1
9	30207	ZERK,1/4-28,GF641,STRAIGHT	1



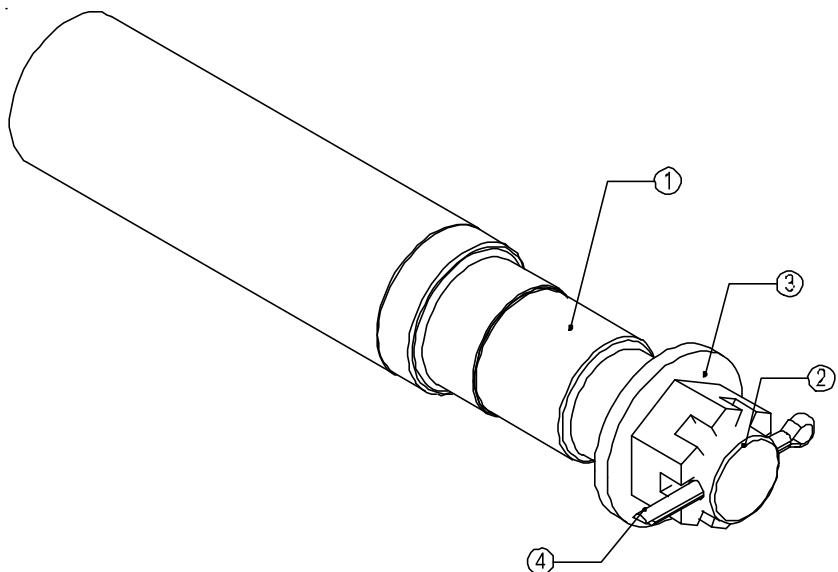
#### 4.13.3 Tire/Rim Installation



Note: Install tire/rim combination as oriented above. Failure to do so may result in a spindle breakage and void warranty.

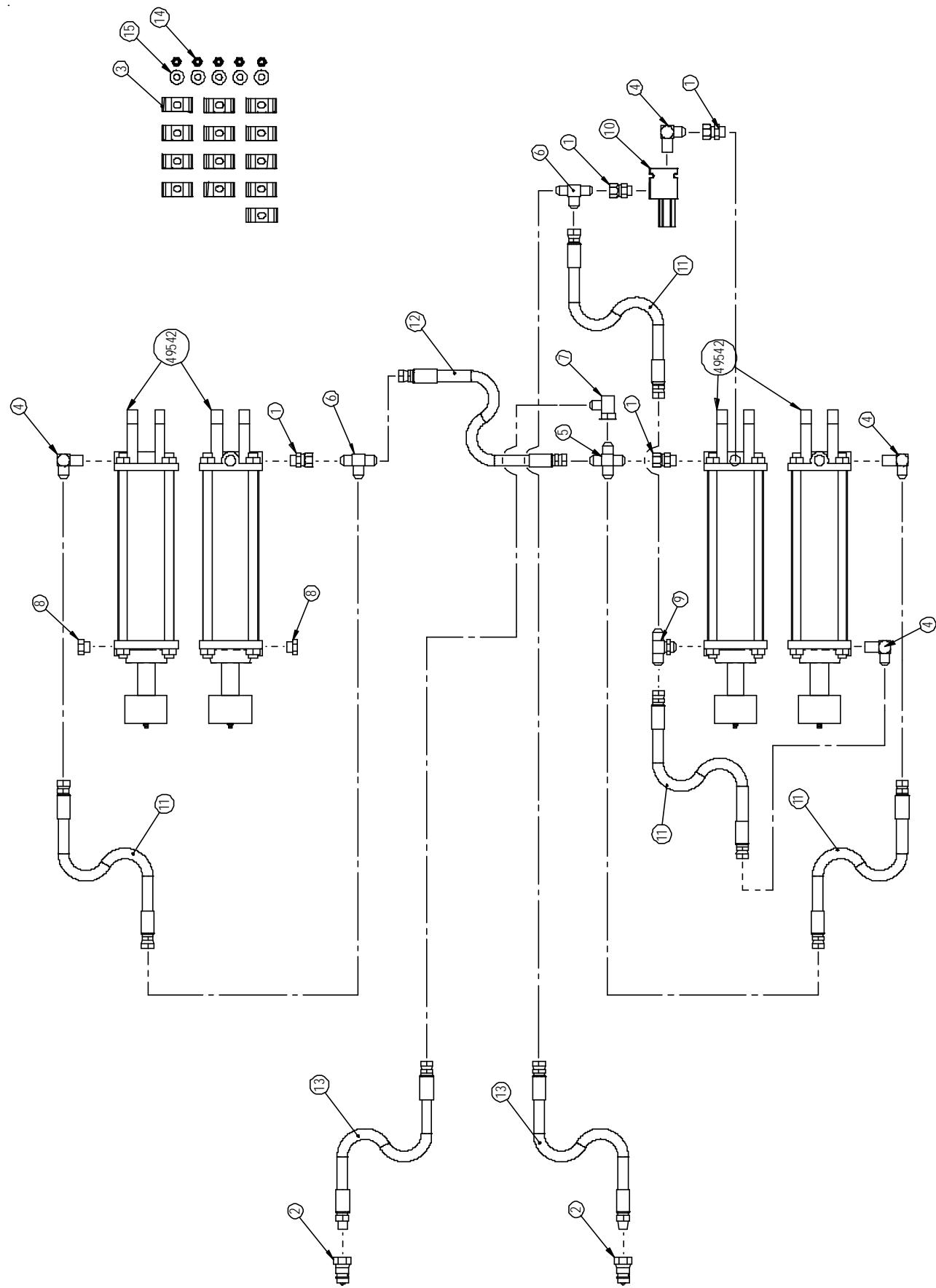
**4.14 Spindle Assembly (Part No. 49571)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	33143	SUSP,SPINDLEONLY,S611,10,1 3/4	1
2	30372	NUT,CASTELLATED,BP6800	1
3	30371	WASHER,FLAT,611 HUB	1
4	31183	PIN,COTTER,3/16X2	1



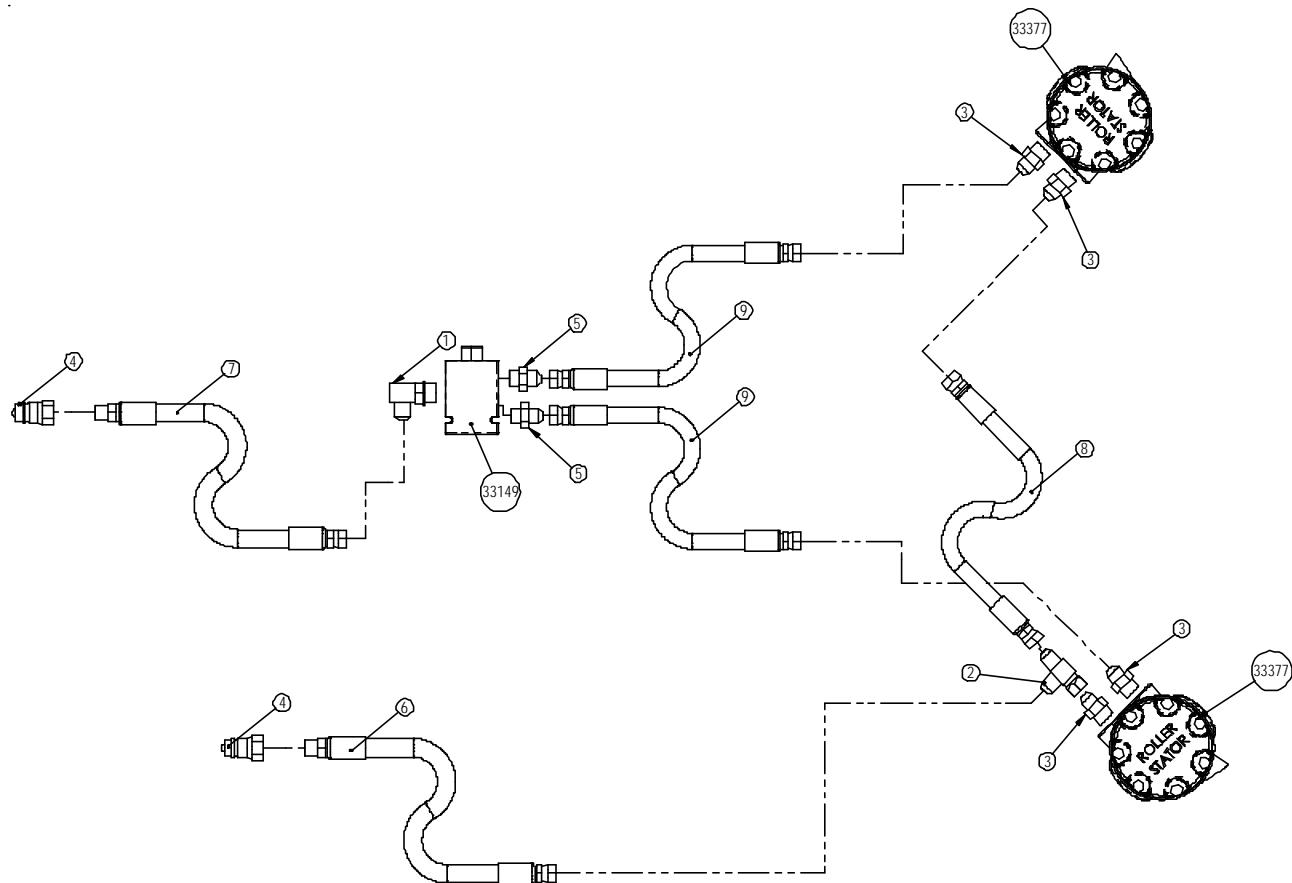
**4.15 Lift Hydraulic Cylinder Assembly (Part No. 49497)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	30152	HYD,FIT,ADAPTER,8MB-8FJX	4
2	30209	HYD,FIT,PIONEER,MALE,8FP	2
3	30210	HYD,CLAMP,HOSE,1/2	13
4	30211	HYD,FIT,ELBOW,8MB-8MJ90	4
5	30216	HYD,FIT,CROSS,8MJ	1
6	30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	2
7	30436	HYD,FIT,ELBOW,8FJX-8MJ90	1
8	33211	HYD,FIT,VENT,8MB	2
9	33280	HYD,FIT,TEE,8MJ-8MB-8MJ	1
10	33535	HYD,VALVE,RELIEF,1750PSI,8ORB	1
11	31981	HYD,HOSE,3/8X28,8FJX-8FJX,2W	4
12	33171	HYD,HOSE,3/8X48,8FJX-8FJX,2W	1
13	33500	HYD,HOSE,3/8X312,8MP-8FJX,2W	2
14	31176	NUT,NYLOCK,3/8,UNC,ZP	5
15	31351	WASHER,FLAT,3/8,ZP	5



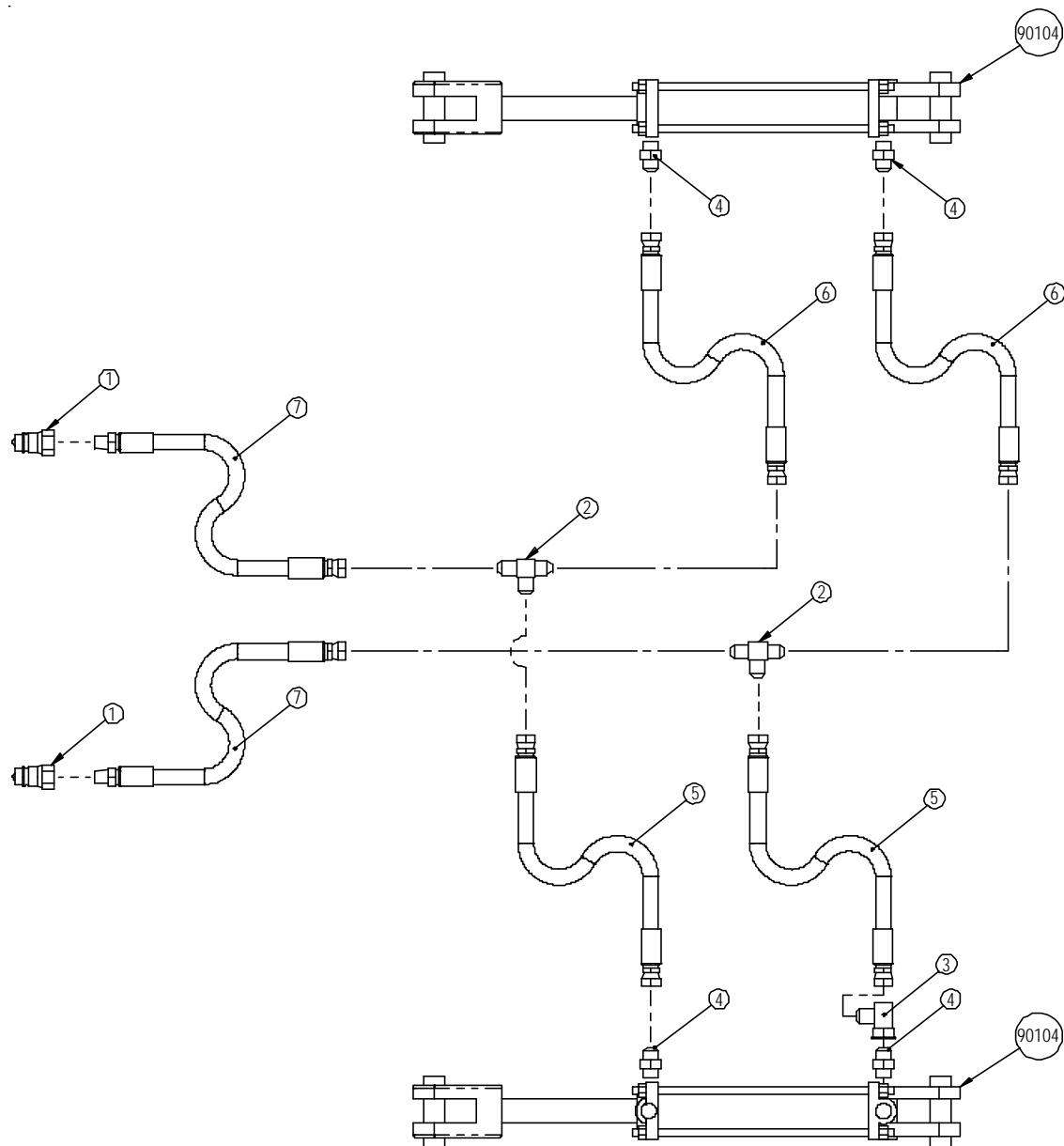
**4.16 Feedroller Hydraulics Assembly (Part No. 49495)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	30145	HYD,FIT,ELBOW,10MB-8MJ90	1
2	30150	HYD,FIT,TEE,8FJX-8MJ-8MJ	1
3	30204	HYD,FIT,ADAPTER,10MB-8MJ	4
4	30209	HYD,FIT,PIONEER,MALE,8FP	2
5	30215	HYD,FIT,ADAPTER,8MB-8MJ	2
6	30281	HYD,HOSE,1/2X96,8MP-8FJX,2W	1
7	33147	HYD,HOSE,1/2X108,8MP-8FJX,2W	1
8	31956	HYD,HOSE,3/8X56,8FJX-8FJX,2W	1
9	31962	HYD,HOSE,3/8X36,8FJX-8FJX,2W	2



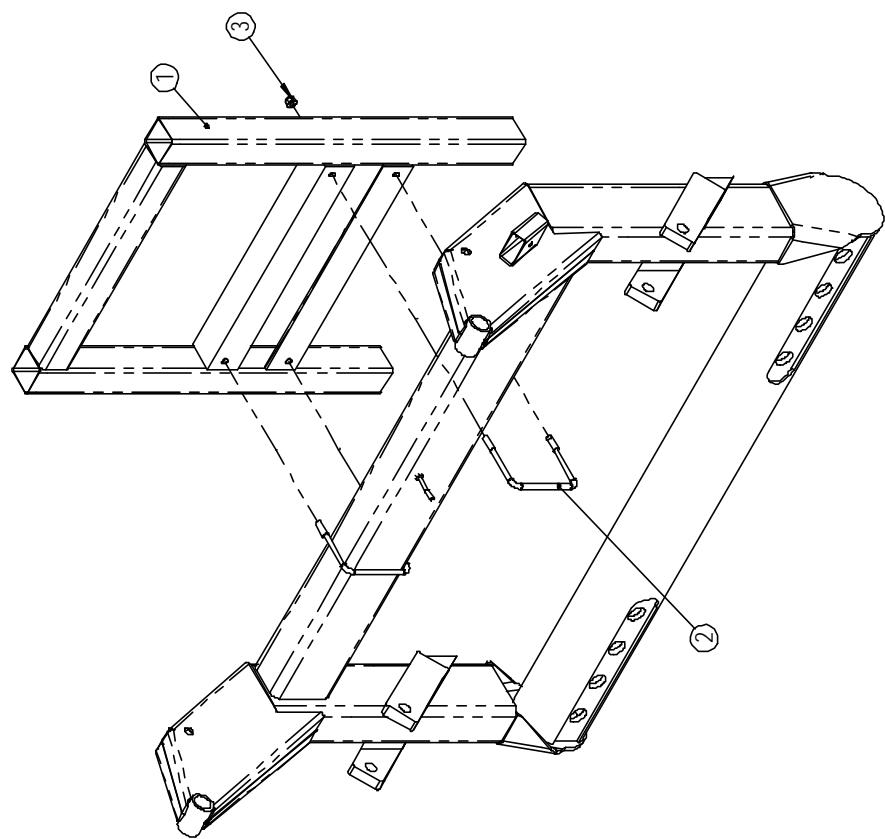
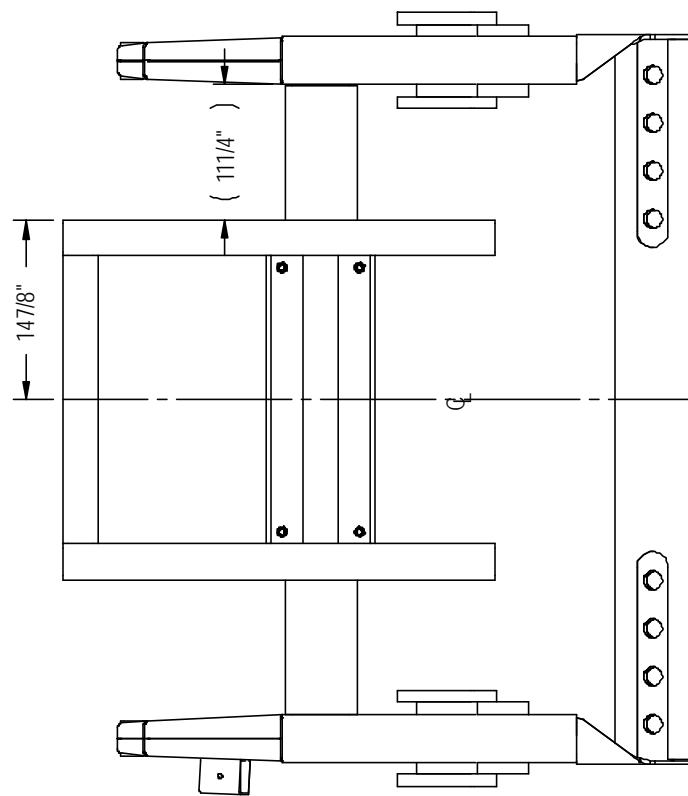
**4.17 Top Door Hydraulics Assembly (Part No. 49496)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	30209	HYD,FIT,PIONEER,MALE,8FP	2
2	30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	2
3	30436	HYD,FIT,ELBOW,8FJX-8MJ90	1
4	33224	HYD,FIT,ADAPTER,8MB-8MJ,031ORIFICE	4
5	33171	HYD,HOSE,3/8X48,8FJX-8FJX,2W	2
6	33249	HYD,HOSE,3/8X192,8FJX-8FJX,2W	2
7	90301	HYDHOSE,3/8X120,8MP-8FJX,1W	2



**4.18 Bale Bumper Assembly (Part No. 89106)**

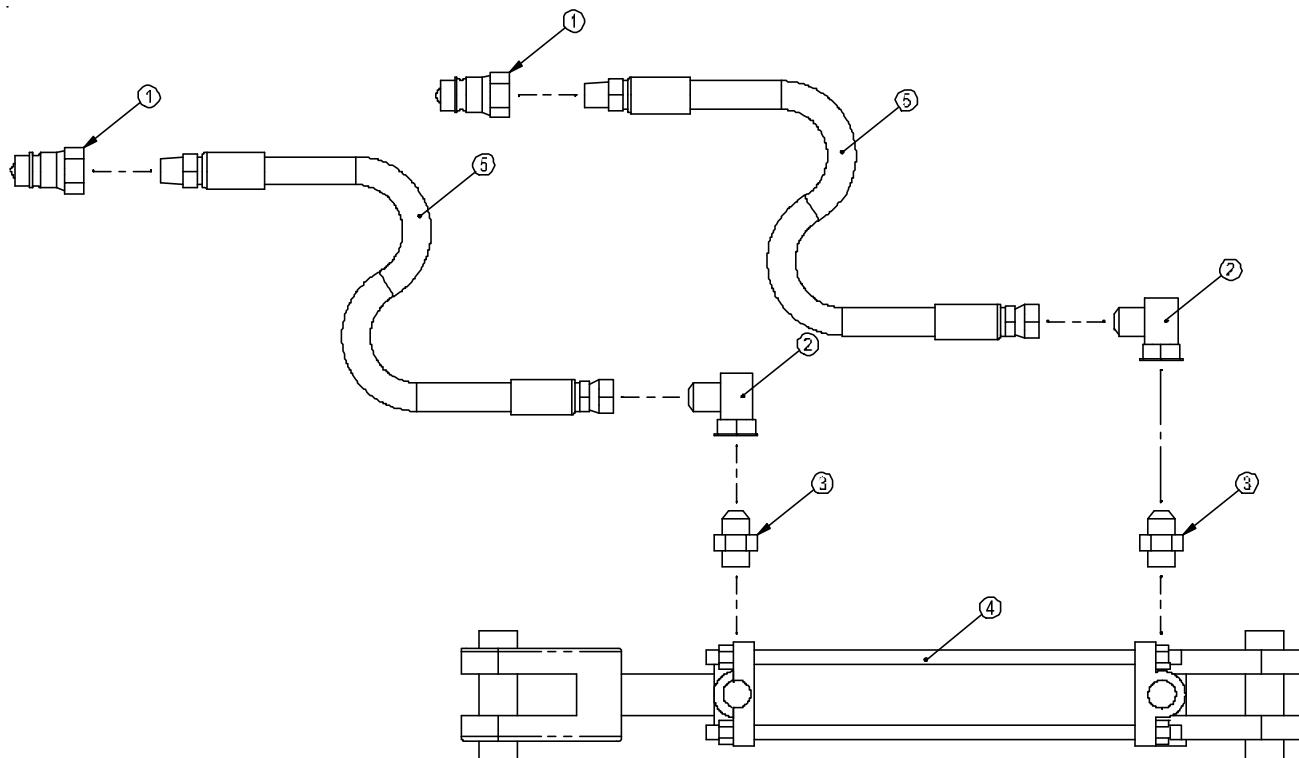
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49902	WLDT,BUMPER,BALE	1
2	33550	BOLT,U,SQ,1/2-13,6X5-1/2	2
3	31173	NUT,NYLOCK,1/2,UNC,ZP	4



## 5.0 Options

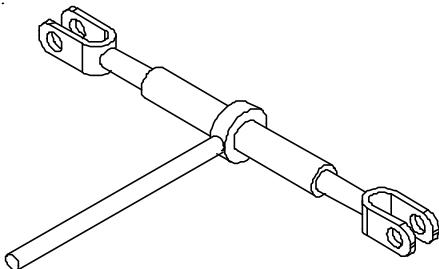
### 5.1 Hydraulic Flail Guard Rod Adjustment Option (Part No. BPO7120HFG-4 (89041))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30209	HYD,FIT,PIONEER,MALE,8FP	2
2	30436	HYD, FIT, ELBOW,8FJX-8MJ90	2
3	3' 957	HYD,FIT,ADAPTER,8MB-8MJ,028ORIFICE	2
4	90104	HYD,CYL,2X8,1.125,8FB	1
5	90301	HYD HOSE,3/8X' 20,8MP-8FJX,1W	2

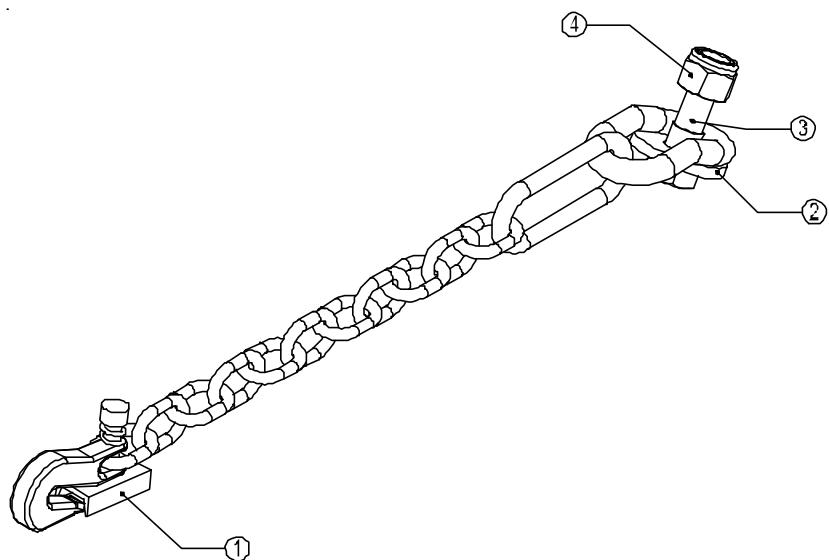


**5.2 Ratchet Jack Flail Guard Rod Adjustment Option (Part No. BPO7120RFG-4 (89043))**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	33510	JACK,RATCHET,20"-28" STROKE	1

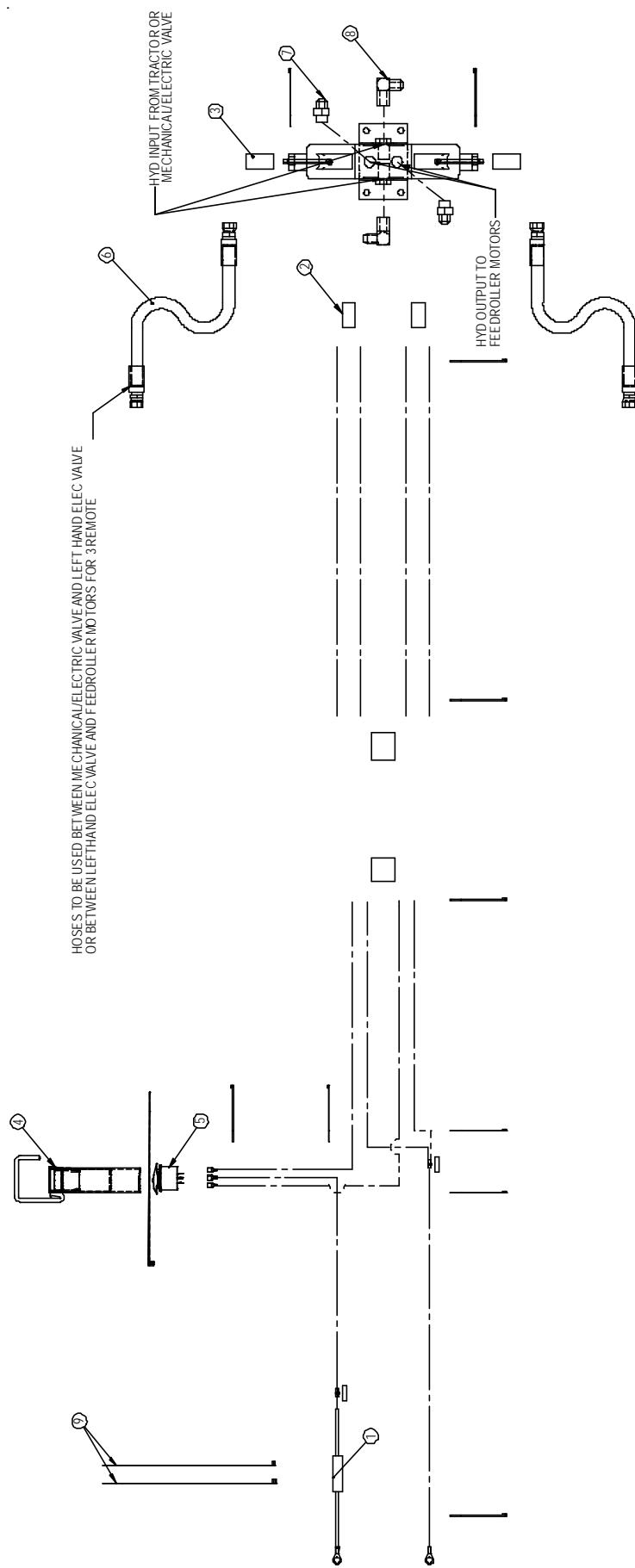
**5.3 Safety Chain Option (Part No. BPOS-C-4 (89006))**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31590	CHAIN,SAFETY,ASAE.10100LB,5'4"	1
2	E6150	PLT,C,1/4X 3/16x2-1/4	1
3	31315	BOLT,HEX,3/4X2-1/2,GR8,ZP	1
4	31175	NUT,NYLOCK.3/4,UNC,ZP	1



**5.4 Remote Control Option (BPOFRERC-4 (89102))**

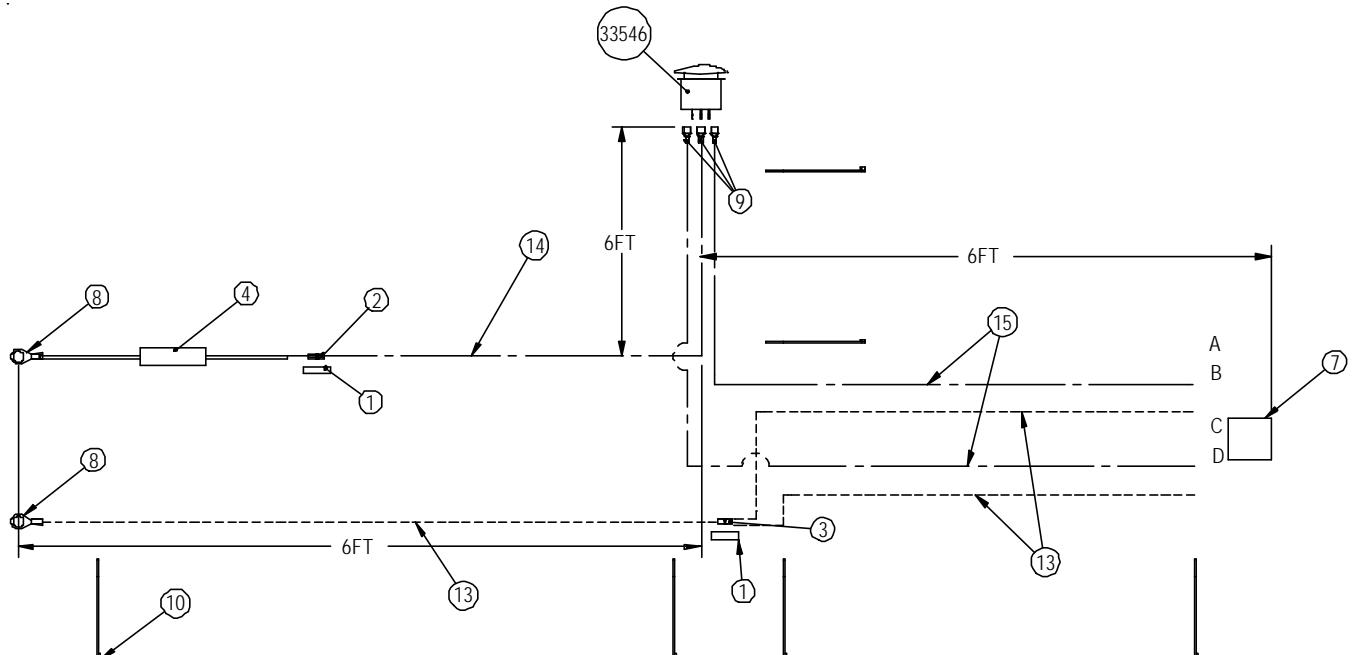
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49841	ELEC,HARNESS,SWITCH,LHEH	1
2	49842	ELEC,HARNESS,10FT,LHEH	1
3	49843	ELEC,VALVE_W/PLUGS,LHEH	1
4	49844	ASSY,GRIP,CONTROL	1
5	33546	ELEC_SWITCH,ROCKER,OFO,12V,20A	1
6	31955	HYD,HOSE,3/8X40,8FJX-8FJX,2W	2
7	30215	HYD,FIT,ADAPTER,8MB-8MJ	2
8	30211	HYD,FIT,ELBOW,8MB-8MJ90	2
9	31613	TIE,CABLE,NYLON,BLACK,111/2"	2



### 5.4.1 Electric Harness for Switch (Part No. 49841)

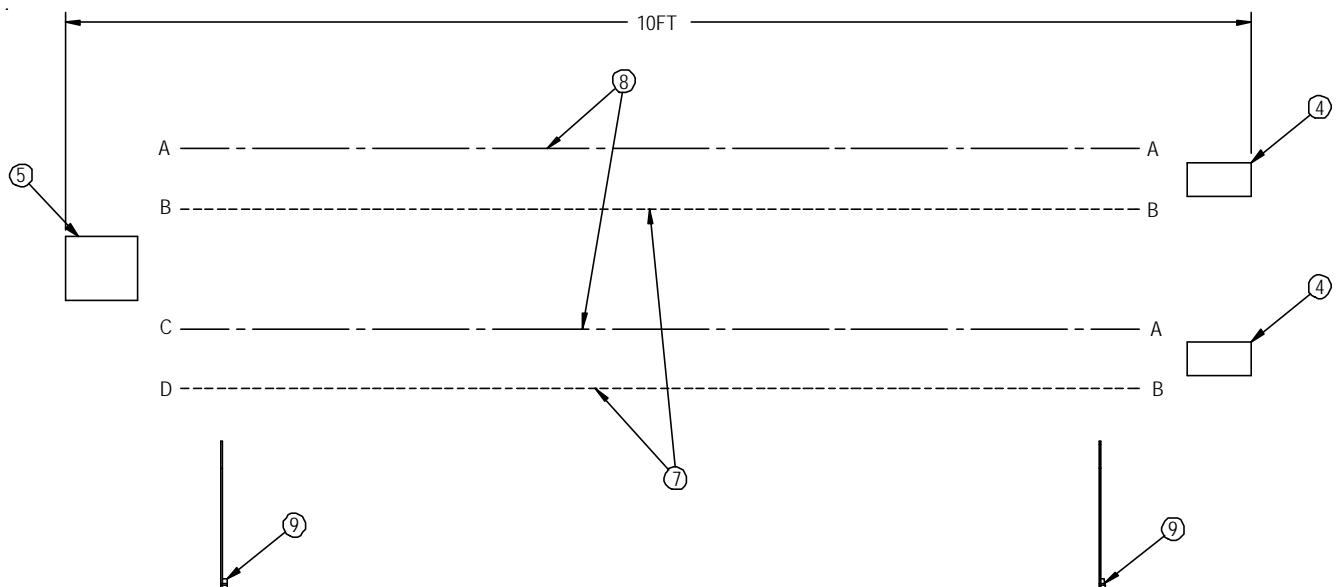
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	31976	ELEC,HEAT_SHRINK,DUAL_WALL,TUBE,1/4X48	2
2	31977	ELEC,CONN,BUTT,16-14GA,NON_INSULATED	1
3	31978	ELEC,CONN,BUTT,12-10GA,NON_INSULATED	1
4	33127	ELEC,HOLDER,FUSE,15AMP	1
5	33537	ELEC_SEAL,WP,CABLE	4
6	33541	ELEC_PIN,WP,M,14/16	4
7	33545	ELEC_CONNECTOR,WP,4M	1
8	92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	2
9	92167	ELEC,CONN,QD,250F,16-14,ST,FUL	3
10	92170	TIE,CABLE,4",BLACK	6
11	92143(6)	ELEC,LOOM,1/2,SPLIT,CORRUGATED	1
12	92143(12)	ELEC,LOOM,1/2,SPLIT,CORRUGATED	1
13	92149(6)	ELEC,WIRE,16GA,STRAND,BLACK	3
14	92150(12)	ELEC,WIRE,16GA,STRAND,WHITE	1
15	92151(12)	ELEC,WIRE,16GA,STRAND,RED	2

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**5.4.2 10FT Electric Harness (Part No. 49842)**

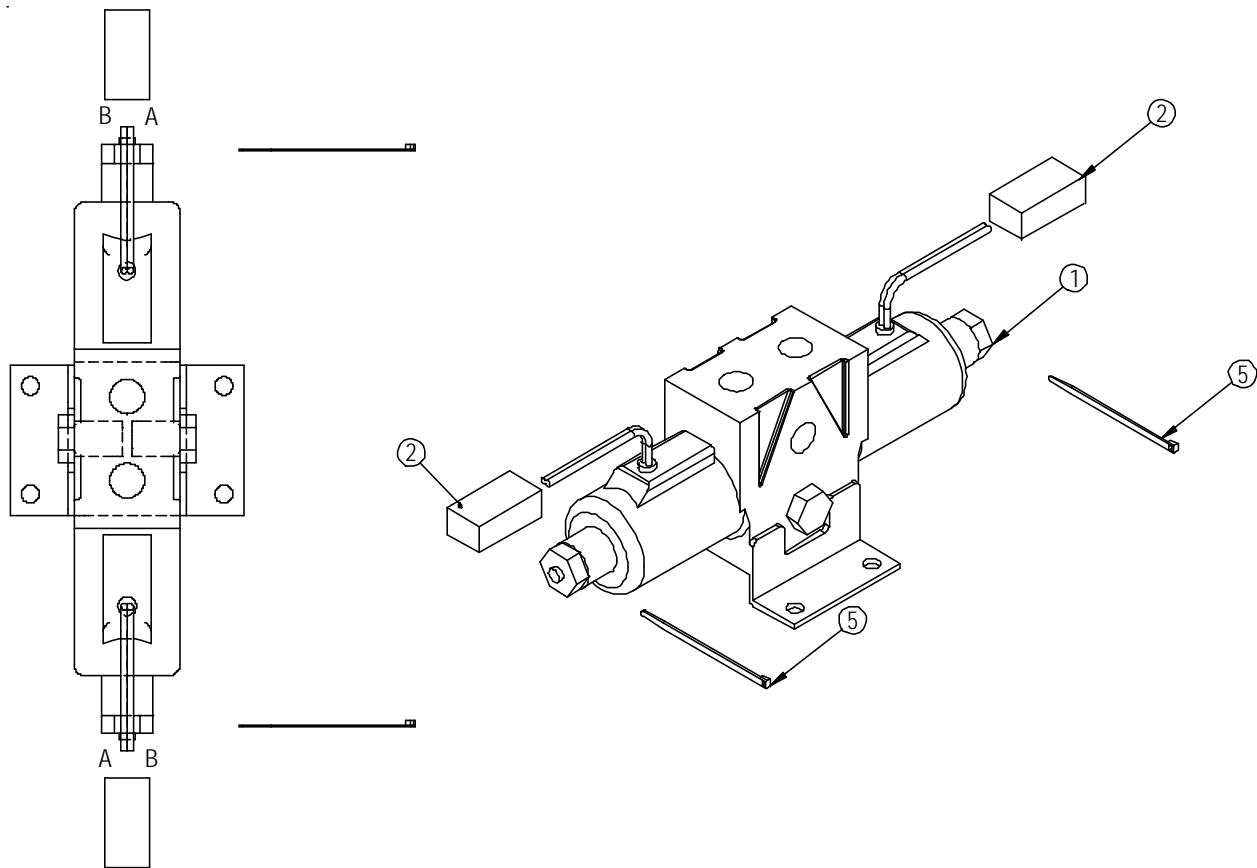
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	33537	ELEC_SEAL,WP,CABLE	8
2	33540	ELEC_SLEEVE,WP,F,14/16	4
3	33541	ELEC_PIN,WP,M,14/16	4
4	33543	ELEC_CONNECTOR,WP,2M	2
5	33544	ELEC_CONNECTOR,WP,4F	1
6	92143(10)	ELEC,LOOM,1/2,SPLIT,CORRIGATED	1
7	92149(10)	ELEC,WIRE,16GA,STRAND,BLACK	2
8	92151(10)	ELEC,WIRE,16GA,STRAND,RED	2
9	92170	TIE,CABLE,4",BLACK	2



**5.4.3 Electric Valve with Plugs (Part No. 49843)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	92089	HYD,VALVE,SOLENOID,DOUBLE	1
2	33542	ELEC_CONNECTOR,WP,2F	2
3	33537	ELEC_SEAL,WP,CABLE	4
4	33540	ELEC_SLEEVE,WP,F,14/16	4
5	92170	TIE,CABLE,4",BLACK	2
6	31734(1.33)	ELEC,LOOM,1/4,SPLIT,CORRIGATED	2

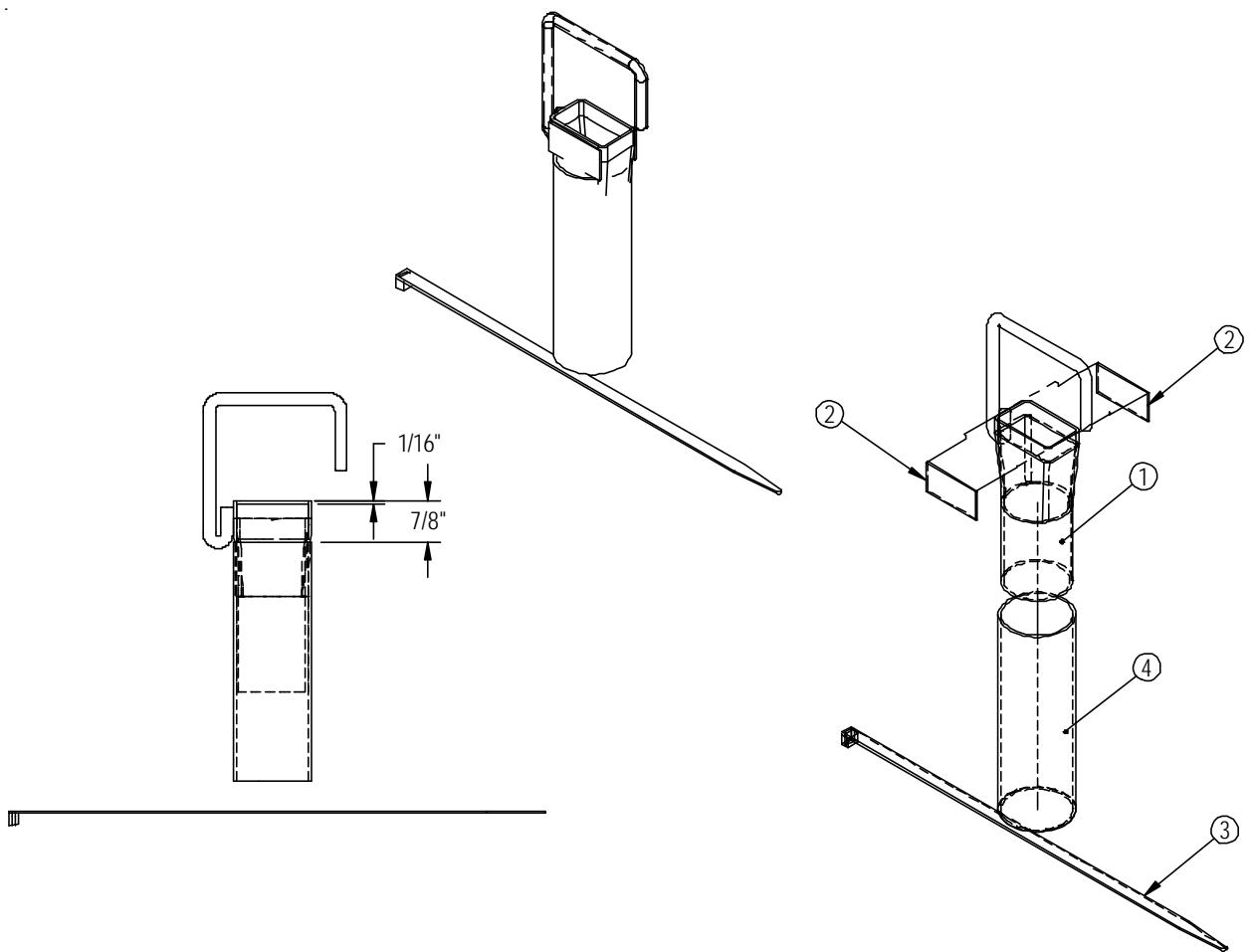
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**5.4.4 Grip Control Assembly (Part No. 49844)**

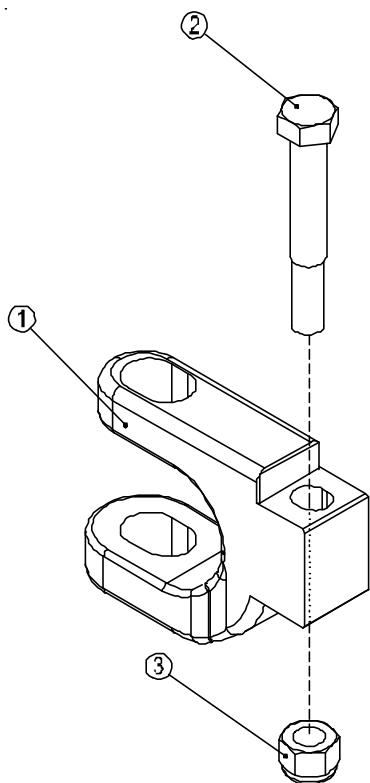
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49840	WLDT,GRIP,CONTROL	1
2	E8126	DECAL,CONTROL,LH_EH	2
3	31613	TIE,CABLE,NYLON,BLACK,111/2"	1
4	33548(0.41)	ELEC,HEAT_SHRINK,TUBE,1-1/2X5"	1

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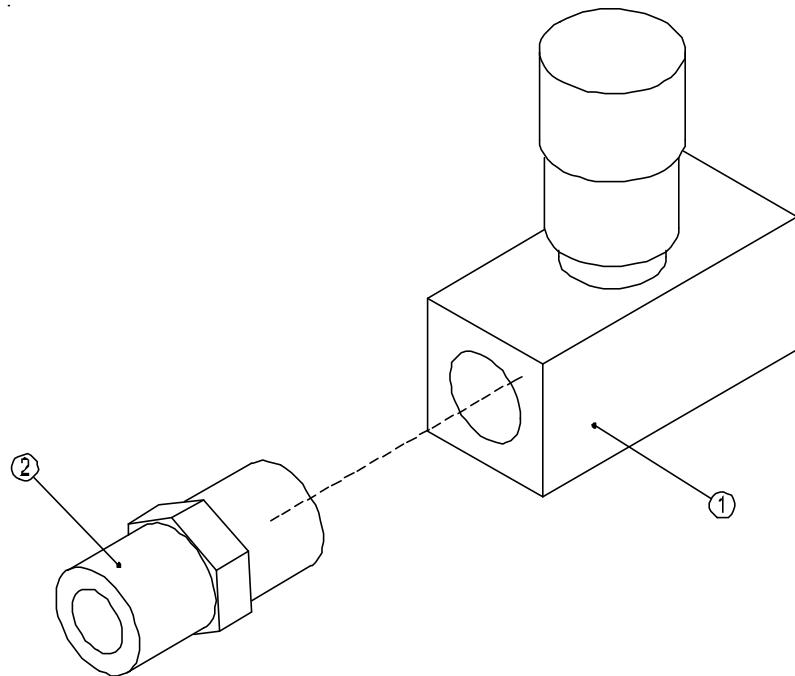
**5.5 Hitch Clevis Option (Part No. BPOHC-4 (89004))**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31862	CLEVIS,HITCH,3 IN 1	1
2	31486	BOLT,HEX,3/4X5,UNC,GR5,ZP	1
3	31175	NUT,NYLOCK,3/4,UNC,ZP	1



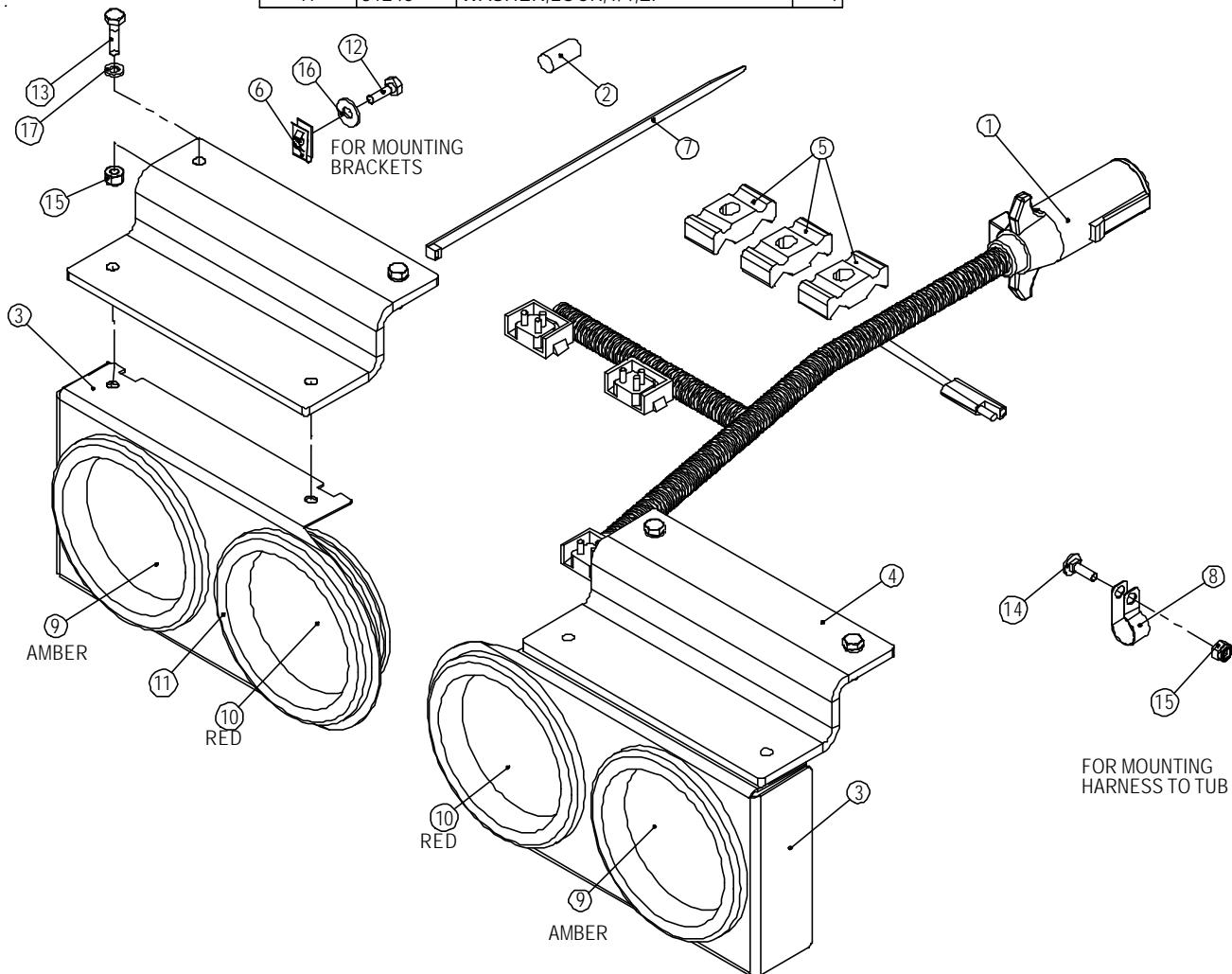
**5.6 Flow Control Option (Part No. BPOFC-4 (89005))**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32975	HYD,VALVE,CONTROL,FLOW,8FP	1
2	32082	HYD,FIT,ADAPTOR,8MP-8MP	1



## 5.7 Clearance Light Option (Part No. BPO7120CL-4 (89103))

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49900	ELEC,HARNESS,LIGHT,7120	1
2	E3669	SHAFT,1/2x1	4
3	E6259	MOUNT,LAMP,GROMMET,2X4-1/2	2
4	E8078	PLT,S,EXTENSION,LIGHT	2
5	30210	HYD,CLAMP,HOSE,1/2	3
6	31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	4
7	31613	TIE,CABLE,NYLON,BLACK,111/2"	4
8	31650	ELEC,CLAMP,CABLE,3/4	9
9	31951	ELEC_LIGHT,AMBER,4DIA,S/T/T	2
10	31952	ELEC_LIGHT,RED,4DIA,S/T/T	2
11	31953	GROMMET,LIGHT,4X4-1/2	4
12	31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	4
13	31029	BOLT,HEX,1/4X1,UNC,GR5,ZP	4
14	37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	9
15	31174	NUT,NYLOCK,1/4,UNC,ZP	13
16	31237	WASHER,FLAT,1/4,ZP	4
17	31245	WASHER,LOCK,1/4,ZP	4

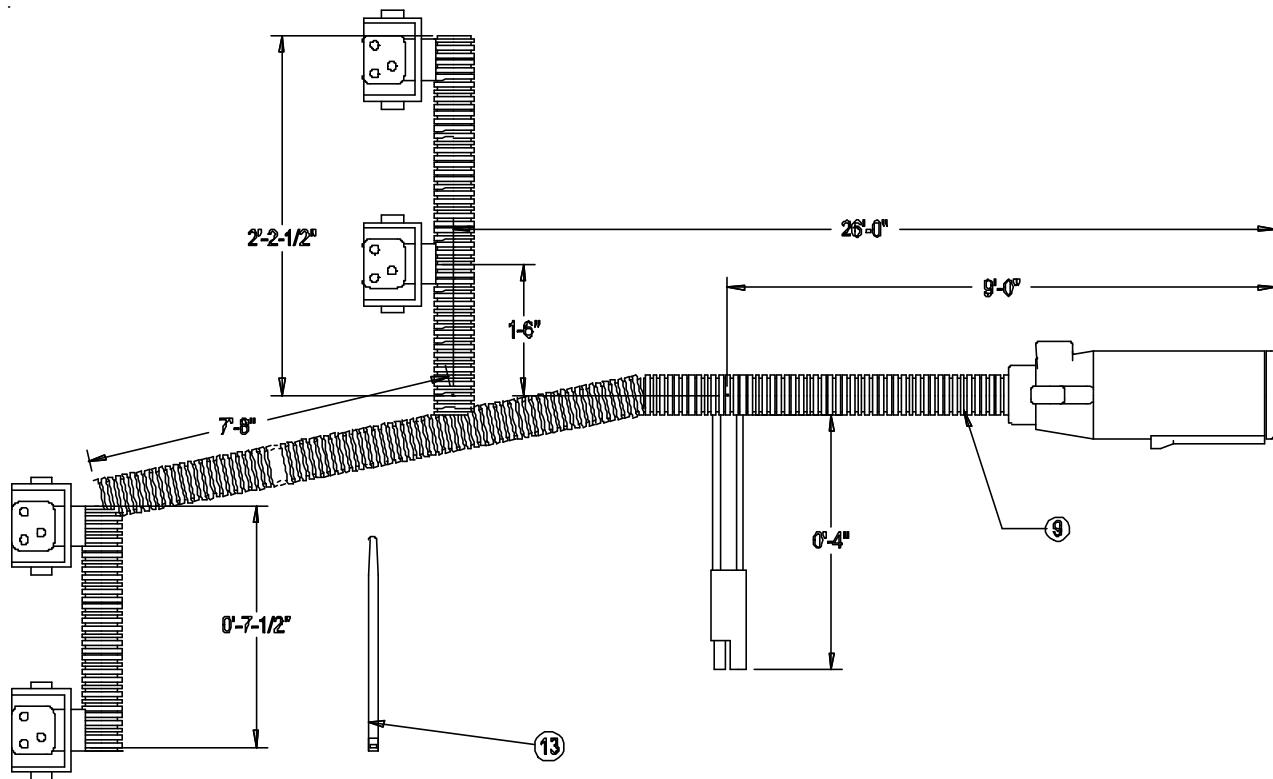


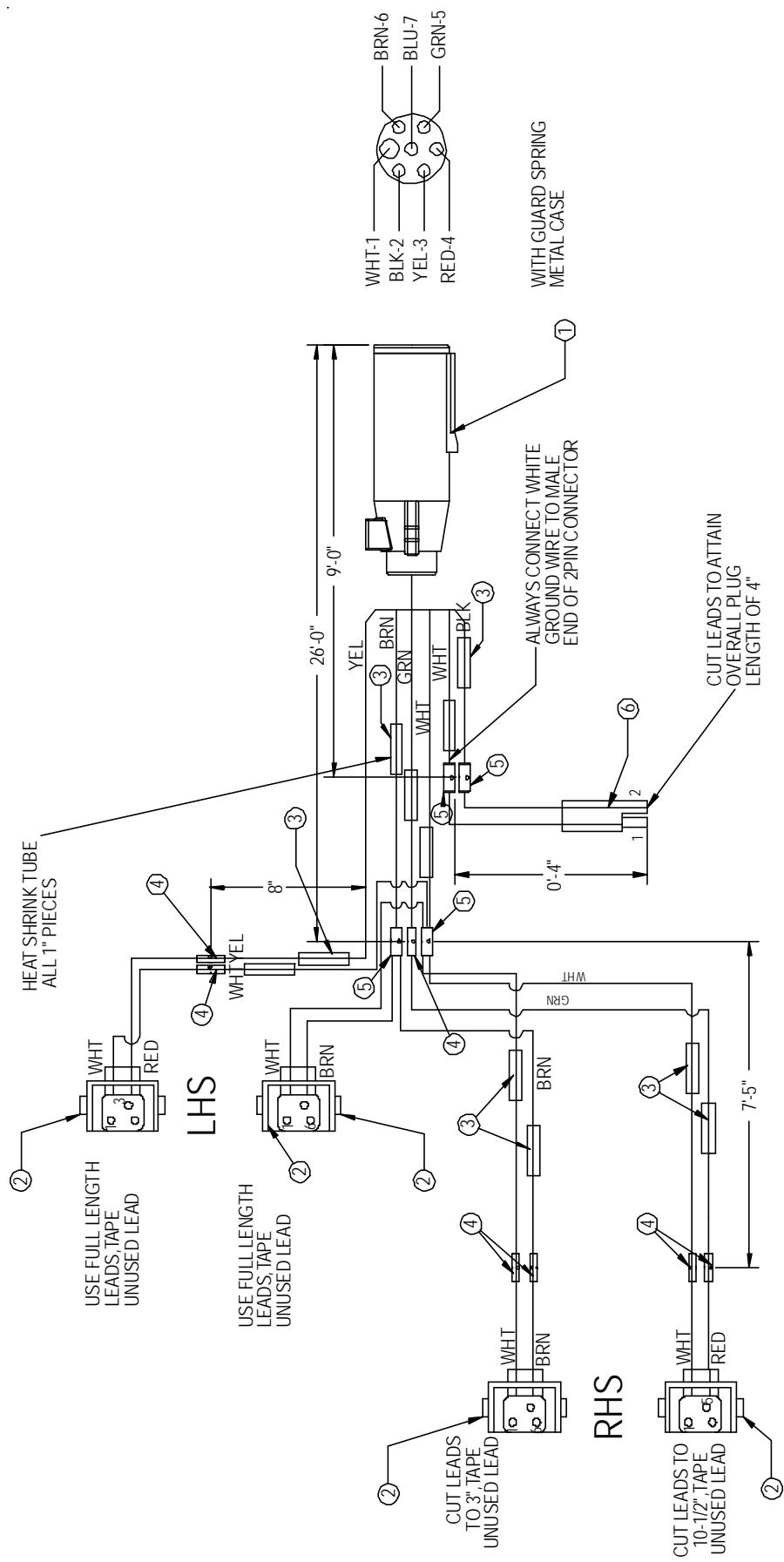
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### 5.7.1 Electric Harness (Part No. 49900)

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	30556	ELEC,CONN,7WIRE,FEMALE	1
2	31853	ELEC,PLUG,STOP/TURN,RIGHTTANGL	4
3	31976(.917)	ELEC,HEAT_SHRINK,DUAL_WALL,1/4	1
4	31977	ELEC,CONN,BUTT,16-14GA,NON_INSULATED	7
5	31978	ELEC,CONN,BUTT,12-10GA,NON_INSULATED	4
6	37686	ELEC,PLUG,2_POLE,10GA	0.5
7	37980(9.)	ELEC,WIRE,14GA,STRAND,BLACK	1
8	37981(43.3)	ELEC,WIRE,14GA,STRAND,WHITE	1
9	92143(36.4)	ELEC,LOOM,1/2,SPLIT,CORRUGATED	1
10	92153(33.4)	ELEC,WIRE,16GA,STRAND,GREEN	1
11	92154(26.8)	ELEC,WIRE,16GA,STRAND,YELLOW	1
12	92155(33.4)	ELEC,WIRE,16GA,STRAND,BROWN	1
13	92170	TIE,CABLE,4",BLACK	13

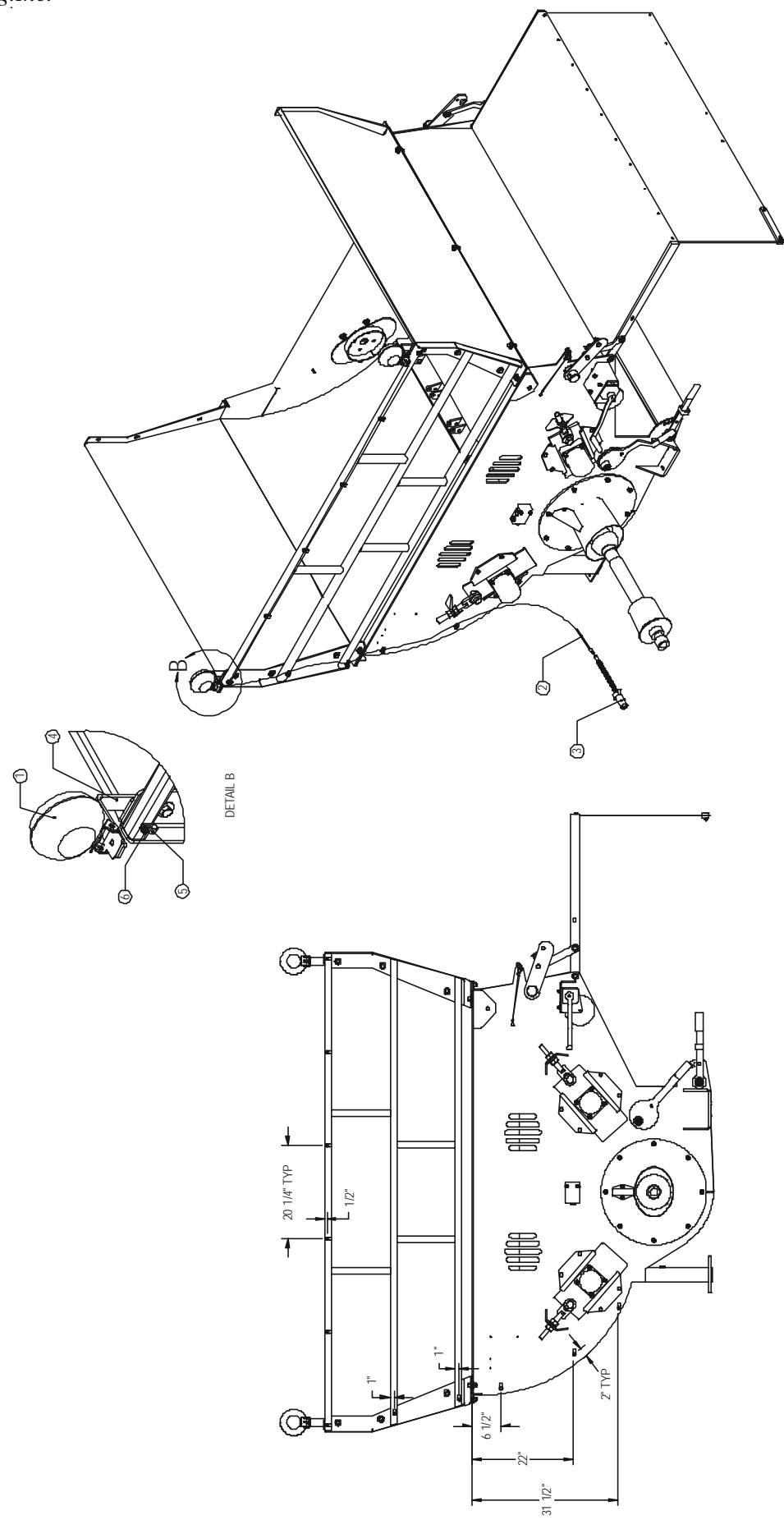
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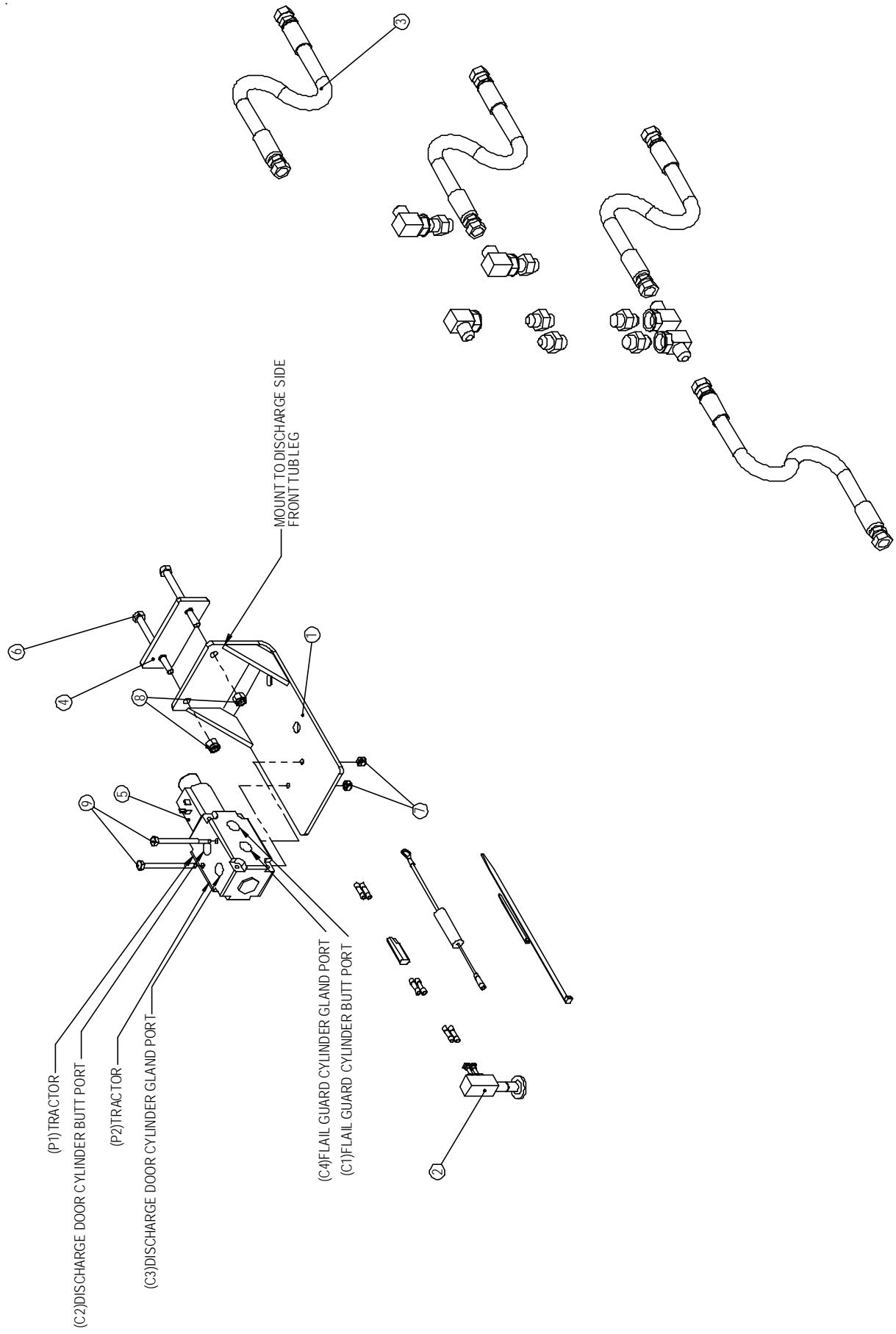
**5.8 Rear Facing Light Option (Part No. BPORFL-4 (89003))**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49204	ELEC,LIGHT,12V,REWORKED	2
2	49205	ELEC,HARNESS,LIGHT,OPTIONAL	1
3	49420	ELEC,HARNESS,TRACTOR RFLIGHT	1
4	E5673	BRACKET,MOUNT,LIGHT	2
5	31649	ELEC,CLAMP,CABLE,1/2	11
6	30294	SCREW,TEK,1/4X1	11



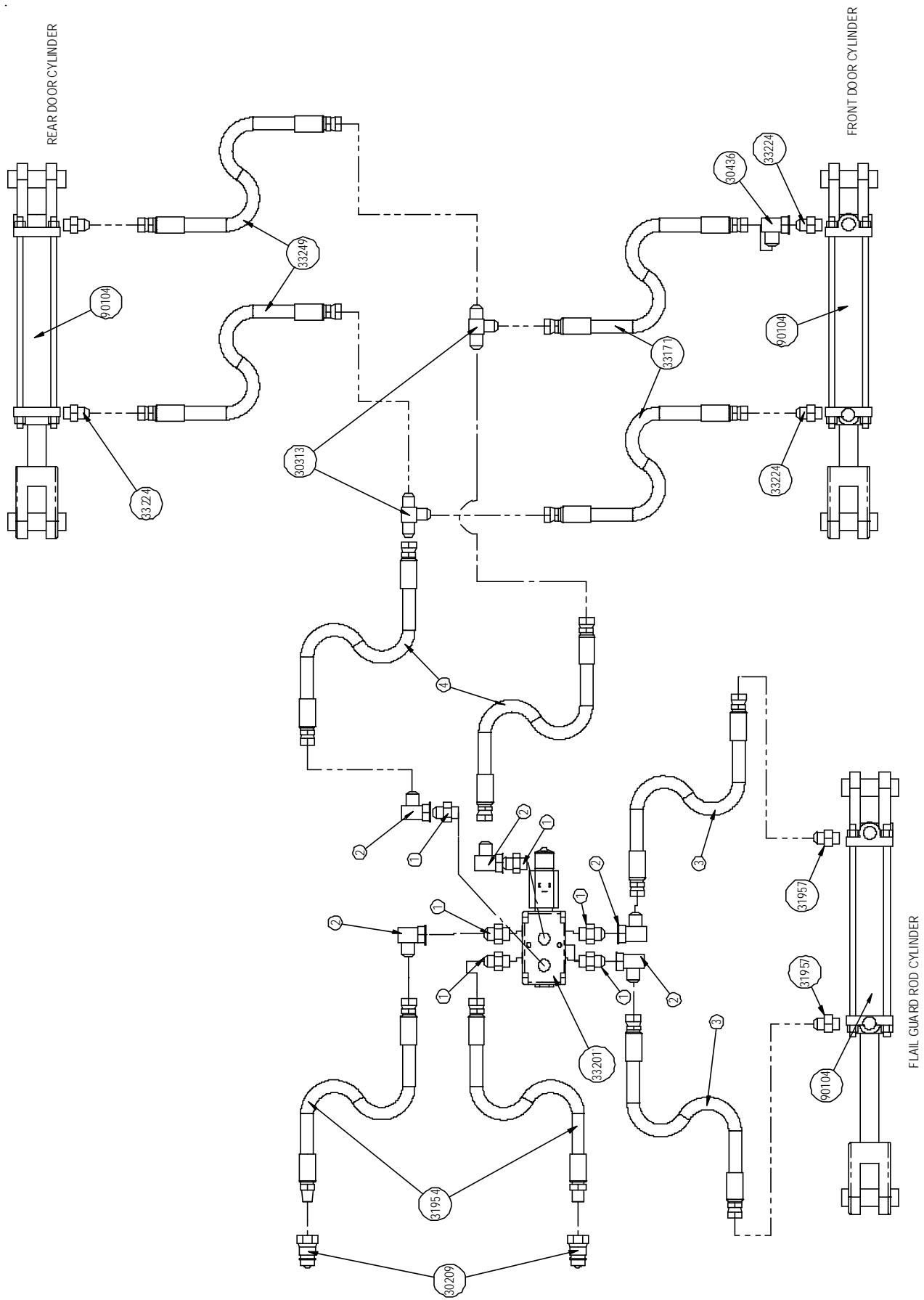
**5.9 Electric/Hydraulic Option (Part No. BPO7120EH-4 (89105))**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49419	WLDT,MOUNT,ELEC_HYD,7010	1
2	49421	ELEC,HARNESS,SELECTORVALVE	1
3	49901	ASSY,HYD,7120,FGR_DISDOOR	1
4	E6878	PLT,S,1/4X2X5,13/32DIA	1
5	33201	HYD,VALVE,ELEC_DOUBLE_SELECTOR	1
6	33221	BOLT,HEX,3/8X4,UNC,GR5,ZP	2
7	31174	NUT,NYLOCK,1/4,UNC,ZP	2
8	31176	NUT,NYLOCK,3/8,UNC,ZP	2
9	33200	BOLT,HEX,1/4X3-1/2,UNC,GR5,ZP	2



**5.9.1 Hydraulic Assembly for Discharge Door (Part No. 49901)**

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	30215	HYD,FIT,ADAPTER,8MB-8MJ	6
2	30436	HYD,FIT,ELBOW,8FJX-8MJ90	5
3	31962	HYD,HOSE,3/8X36,8FJX-8FJX,2W	2
4	33171	HYD,HOSE,3/8X48,8FJX-8FJX,2W	2



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<b>Part No.</b>	<b>Description</b>	<b>Page</b>	<b>Item</b>
30145	HYD,FIT,ELBOW,10MB-8MJ90	64	1
30150	HYD,FIT,TEE,8FJX-8MJ-8MJ	64	2
30152	HYD,FIT,ADAPTER,8MB-8FJX	62	1
30193	FITTING,PLUG,3/4"-16 UNF,STRTHD	52	3
30204	HYD,FIT,ADAPTER,10MB-8MJ	64	3
30206	HYD,HOLDER,HOSE,1/2	48	3
30207	ZERK,1/4-28,GF641,STRAIGHT	59	9
30208	PLT,SERIAL#	22	16
30209	HYD,FIT,PIONEER,MALE,8FP	62	2
30209	HYD,FIT,PIONEER,MALE,8FP	64	4
30209	HYD,FIT,PIONEER,MALE,8FP	65	1
30209	HYD,FIT,PIONEER,MALE,8FP	68	1
30210	HYD,CLAMP,HOSE,1/2	62	3
30210	HYD,CLAMP,HOSE,1/2	78	5
30211	HYD,FIT,ELBOW,8MB-8MJ90	62	4
30211	HYD,FIT,ELBOW,8MB-8MJ90	70	8
30215	HYD,FIT,ADAPTER,8MB-8MJ	64	5
30215	HYD,FIT,ADAPTER,8MB-8MJ90	70	7
30215	HYD,FIT,ADAPTER,8MB-8MJ	86	1
30216	HYD,FIT,CROSS,8MJ	62	5
30237	HUT,HEX,1,UNS,GR5	52	2
30238	PIN,COTTER,3/16X1-1/2	42	3
30238	PIN,COTTER,3/16X1-1/2	50	14
30239	SETSCREW,SOCKET,3/8X1-1/2KNUR	42	4
30251	HYD,CYL,PISTON,3-1/2,H6688	52	6
30261	LOCKTHREAD,NYLOCK	42	5
30271	DECAL,DANGER,ROTATING DRIVE	22	17
30281	HYD,HOSE,1/2X96,8MP-8FJX,2W	64	6
30285	DECAL,DANGER,TO PREVENT	22	18
30288	RIVET,ST,1/8X.390,.250 HEAD	22	19
30294	SCREW,TEK,1/4X1	82	6
30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	62	6
30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	65	2
30342	SUSP,CAP,DUST,611 HUB	59	5
30344	BRG,1-1/2,611 HUB	59	2
30345	SUSP,BRG,1-1/4,611 HUB	59	4
30346	OIL SEAL	59	1
30363	DRV,DL,SIGN,SAFETY	56	12
30371	WASHER,FLAT,611 HUB	61	3
30372	NUT,CASTELLATED,BP6800	61	2
30373	SUSP,HUB,H611	59	3
30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	48	6
30436	HYD,FIT,ELBOW,8FJX-8MJ90	62	7
30436	HYD,FIT,ELBOW,8FJX-8MJ90	65	3
30436	HYD,FIT,ELBOW,8FJX-8MJ90	68	2
30436	HYD,FIT,ELBOW,8FJX-8MJ90	86	2
30556	ELEC,CONN,7WIRE,FEMALE	80	1

30577	DECAL,RED REFL,2X9	22	20
30578	DECAL,AMBER REFL,2X9	22	21
30611	NUT,NYLOCK,JAM,1/2,UNC,ZP	32	17
30663	NUT,HEX,5/8,UNF,GR5,ZP	52	1
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	30	5
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	54	5
31009	BOLT,CARR,1/2X2,UNC,GR5,ZP	44	6
31012	BOLT,CARR,1/4X1,UNC,GR5,ZP	34	12
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	30	8
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	34	13
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	40	11
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	32	11
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	40	10
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	50	17
31018	BOLT,HEX,1/2X2-1/2,UNC,GR5,ZP	40	12
31018	BOLT,HEX,1/2X2-1/2,UNC,GR5,ZP	50	18
31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	45	3
31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	50	19
31021	BOLT,HEX,1/2X3,UNC,GR5,ZP	38	8
31027	BOLT,HEX,1/2X4-1/2,UNC,GR5,ZP	45	4
31027	BOLT,HEX,1/2X4-1/2,UNC,GR5,ZP	50	20
31029	BOLT,HEX,1/4X1,UNC,GR5,ZP	78	13
31032	BOLT,HEX,1/4X2-1/4,UNC,GR5,ZP	32	9
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	78	12
31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	48	8
31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	54	6
31066	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP	29	4
31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	32	12
31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	32	13
31164	NUT,HEX,1/4,UNC,GR5,ZP	34	15
31170	NUT,LOCK,STOVER,5/8,UNF,ZP	28	4
31173	NUT,NYLOCK,1/2,UNC,ZP	30	7
31173	NUT,NYLOCK,1/2,UNC,ZP	32	16
31173	NUT,NYLOCK,1/2,UNC,ZP	34	14
31173	NUT,NYLOCK,1/2,UNC,ZP	38	9
31173	NUT,NYLOCK,1/2,UNC,ZP	40	14
31173	NUT,NYLOCK,1/2,UNC,ZP	44	7
31173	NUT,NYLOCK,1/2,UNC,ZP	45	5
31173	NUT,NYLOCK,1/2,UNC,ZP	46	9
31173	NUT,NYLOCK,1/2,UNC,ZP	48	10
31173	NUT,NYLOCK,1/2,UNC,ZP	50	22
31173	NUT,NYLOCK,1/2,UNC,ZP	54	7
31173	NUT,NYLOCK,1/2,UNC,ZP	66	3
31174	NUT,NYLOCK,1/4,UNC,ZP	22	26
31174	NUT,NYLOCK,1/4,UNC,ZP	32	15
31174	NUT,NYLOCK,1/4,UNC,ZP	78	15
31174	NUT,NYLOCK,1/4,UNC,ZP	84	7
31175	NUT,NYLOCK,3/4,UNC,ZP	32	18
31175	NUT,NYLOCK,3/4,UNC,ZP	48	11
31175	NUT,NYLOCK,3/4,UNC,ZP	57	5
31175	NUT,NYLOCK,3/4,UNC,ZP	69	4

31175	NUT,NYLOCK,3/4,UNC,ZP	76	3
31176	NUT,NYLOCK,3/8,UNC,ZP	29	5
31176	NUT,NYLOCK,3/8,UNC,ZP	48	9
31176	NUT,NYLOCK,3/8,UNC,ZP	62	14
31176	NUT,NYLOCK,3/8,UNC,ZP	84	8
31177	NUT,NYLOCK,5/16,UNC,ZP	40	13
31177	NUT,NYLOCK,5/16,UNC,ZP	56	18
31178	NUT,NYLOCK,5/8,UNC,ZP	30	11
31178	NUT,NYLOCK,5/8,UNC,ZP	50	23
31178	NUT,NYLOCK,5/8,UNC,ZP	54	8
31183	PIN,COTTER,3/16X2	61	4
31235	WASHER,FLAT,1,ZP	40	16
31236	WASHER,FLAT,1/2,ZP	30	10
31236	WASHER,FLAT,1/2,ZP	40	15
31236	WASHER,FLAT,1/2,ZP	44	8
31236	WASHER,FLAT,1/2,ZP	45	6
31236	WASHER,FLAT,1/2,ZP	48	12
31236	WASHER,FLAT,1/2,ZP	50	25
31236	WASHER,FLAT,1/2,ZP	54	9
31237	WASHER,FLAT,1/4,ZP	32	19
31237	WASHER,FLAT,1/4,ZP	78	16
31244	WASHER,LOCK,1/2,ZP	34	17
31245	WASHER,LOCK,1/4,ZP	34	16
31245	WASHER,LOCK,1/4,ZP	78	17
31246	WASHER,LOCK,3/4,ZP	48	13
31247	DRV,PTO,KIT,REPAIR,AUTOLOCK	56	1
31248	DRV,PTO,AUTOLOC,ASSY,1-3/8,CAT5	56	2
31249	DRV,PTO,CROSS&BRG,CAT5	56	3
31250	DRV,PTO,EXTENSION,BELL,WCENTR	56	4
31251	DRV,PTO,ASSEM,CENTER,CV	56	5
31253	DRV,PTO,KIT,REPAIR,NYLON	56	7
31254	SIGN,SAFETY	56	8
31256	DRV,DL,GUARD,OUTER	56	9
31257	DRV,DL,GUARD,INNER	56	10
31259	DRV,PTO,KIT,REPAIR,NYLON	56	13
31261	DRV,CROSS&BEARING,44R	56	15
31262	DRV,PTO,ASSEMBLY,BALLSHEAR	56	16
31289	PIN,COTTER,3/16X1-1/2	38	6
31315	BOLT,HEX,3/4X2-1/2,GR8,ZP	69	3
31332	BOLT,HEX,1/2X1-1/4,UNC,GR5,ZP	38	7
31336	BOLT,HEX,5/8X3,UNC,GR5,ZP	30	9
31339	BOLT,HEX,3/4X2,UNC,GR5,ZP	48	7
31351	WASHER,FLAT,3/8,ZP	62	15
31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	44	5
31443	BOLT,HEX,5/16X1-1/4,UNC,GR5,ZP	40	9
31453	BOLT,HEX,5/16X2,UNC,GR5,ZP	56	17
31485	NUT,HEX,3/8,UNC,ZP	42	1
31486	BOLT,HEX,3/4X5,UNC,GR5,ZP	76	2
31488	BOLT,HEX,3/4X4-1/2,UNC,GR5,ZP	57	4
31588	NUT,HEX,3/4,UNF	42	2
31590	CHAIN,SAFETY,ASAE,10100LB,5'4"	69	1

31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	78	6
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	70	9
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	75	3
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	78	7
31616	BOLT,U,SQ,1/2-13,3X4,1-1/4	46	5
31649	ELEC,CLAMP,CABLE,1/2	82	5
31650	ELEC,CLAMP,CABLE,3/4	78	8
31668	WASHER,SPRING,3/4,342	44	9
31670	PIN,LOCK,1/4X2-1/2	50	15
31734	ELEC,LOOM,1/4,SPLIT,CORRIGATED	74	6
31739	RIVET,ST,3/16X.565,.375 HEAD	46	10
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	48	4
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	49	1
31805	PIN,SPRING,3/16X1	46	6
31810	GRIP,HANDLE,1-1/4IDX4-1/2	47	4
31814	CLIP,GRIPPER,1-1-1/2	46	7
31853	ELEC,PLUG,STOP/TURN,RIGHTANGL	80	2
31860	SPRING,COMPRESSION,3/4X1-7/8	46	8
31861	HITCH,BASE,3 IN 1	48	5
31862	CLEVIS,HITCH,3 IN 1	76	1
31894	REATINER,BOLT,1/2	30	6
31951	ELEC_LIGHT,AMBER,4 DIA,S/T/T	78	9
31952	ELEC_LIGHT,RED,4DIA,S/T/T	78	10
31953	GROMMET,LIGHT,4X4-1/2	78	11
31955	HYD,HOSE,3/8X40,8FJX-8FJX,2W	70	6
31956	HYD,HOSE,3/8X56,8FJX-8FJX,2W	64	8
31957	HYD,FIT,ADAPTER,8MB-8MJ,028ORFICE	68	3
31962	HYD,HOSE,3/8X36,8FJX-8FJX,2W	64	9
31962	HYD,HOSE,3/8X36,8FJX-8FJX,2W	86	3
31976	ELEC,HEAT SHRINK,DUAL WALL,1/4X48	72	1
31976	ELEC,HEAT_SHRINK,DUAL_WALL,1/4	80	3
31977	ELEC,CONN,BUTT,16-14GA,NON_INSULATED	72	2
31977	ELEC,CONN,BUTT,16-14GA,NON_INSULATED	80	4
31978	ELEC,CONN,BUTT,12-10GA,NON INSULATED	72	3
31978	ELEC,CONN,BUTT,12-10GA,NON_INSULATED	80	5
31981	HYD,HOSE,3/8X28,8FJX-8FJX,2W	62	11
32082	HYD,FIT,ADAPTER,8MP-8MP	77	2
32250	HYD,CYL,PIN,1	42	7
32250	HYD,CYL,PIN,1	50	16
32336	SUSP,BOLT,WHEEL,1/2X1-1/4X1-3/4	59	6
32639	BEARING,THRUST,FRONT	36	6
32647	SEAL KIT,ROLLER,STATOR	36	1
32649	BEARING,HOUSING,REAR,1/2	36	5
32651	BEARING,THRUST,REAR	36	2
32653	SHAFT KIT	36	13
32720	BEARING,HOUSING,FRONT	36	3
32722	DRIVE LINK KIT	36	7
32725	SHAFT KIT	36	8
32726	BALANCE PLATE & BALLS	36	10
32727	END COVER	36	11
32734	WASHER,FLAT,3-1/8ODX1/2	34	18

32975	HYD,VALVE,CONTROL,FLOW,8FP	77	1
32981	DECAL,PIMA	22	22
33026	HYD,FIT,PLUG,8ORB,HOLLOWHEX	42	6
33027	HYD,CYL,CLEVIS,CAP,2,8ORBF	42	8
33028	HYD,CYL,CAP,ROD,2X1-1/8,8ORBF	42	9
33029	HYD,CYL,ROD,1-1/8X14-3/4	42	10
33030	HYD,CYL,2X8	42	11
33031	HYD,CYL,PISTON,2	42	12
33032	HYD,CYL,TIEROD,3/8X8	42	13
33033	HYD,CLEVIS,1-1/8,1PIN	42	14
33034	HYD,CYL,SEALKIT2	42	15
33082	NUT,STOVER,3/4,UNF,GR8,ZP	50	24
33127	ELEC,HOLDER,FUSE,15AMP	72	4
33131	HYD,CYL,TUBE,3-1/2X10	52	4
33132	HYD,CYL,TIE,ROD,5/8X10	52	5
33133	HYD,CYL,CLEVISCAP,3.5_3/4O_1.0	52	7
33134	HYD,CYL,RODCAP,3.5_1.25_3/4O	52	8
33143	SUSP,SPINDLE ONLY,S611,10,1-3/4	61	1
33147	HYD,HOSE,1/2X108,8MP-8FJX,2W	64	7
33149	HYD,VALVE,FLOW_DIVIDER	32	8
33171	HYD,HOSE,3/8X48,8FJX-8FJX,2W	62	12
33171	HYD,HOSE,3/8X48,8FJX-8FJX,2W	65	5
33171	HYD,HOSE,3/8X48,8FJX-8FJX,2W	86	4
33200	BOLT,HEX,1/4X3-1/2,UNC,GR5,ZP	84	9
33201	HYD,VALVE,ELEC_DOUBLE_SELECTOR	84	5
33211	HYD,FIT,VENT,8MB	62	8
33221	BOLT,HEX,3/8X4,UNC,GR5,ZP	84	6
33224	HYD,FIT,ADAPTER,8MB-8MJ,0280RFICE	65	4
33243	BOLT,U,SQ,5/8-11X4-1/8X9-1/2	50	9
33243	BOLT,U,SQ,5/8-11X4-1/8X9-1/2	54	4
33247	BEARING,CARTRIDGE,FLANGE,2-1/4	30	4
33249	HYD,HOSE,3/8X192,8FJX-8FJX,2W	65	6
33280	HYD,FIT,TEE,8MJ-8MB-8MJ	62	9
33322	DRV,DL,CENTRALIZER	56	11
33377	HYD,MOTOR,22.8,3000 PSI	34	7
33405	BOLT,HEX,3/4X1-3/4,UNF,GR8,ZP	50	21
33438	KIT,PIN & CHAIN-5/8"X4.25"	49	2
33439	KIT,5K BEARING REPLACEMENT	49	3
33440	KIT,STD BEVEL GEAR REPLAC.	49	4
33441	KIT,SW CRN CRANK REPLAC.	49	5
33442	COVER,GEARBOX	49	6
33449	BOLT,CARR,3/4X2-1/2,UNC,GR5,ZP	32	14
33477	SCRW,MCH,SLOTHEX,#8-32,ZP	47	5
33479	BLADE,HOOK	47	3
33480	NUT,NYLOCK,#8,UNC,ZP	47	6
33500	HYD,HOSE,3/8X312,8MP-8FJX,2W	62	13
33501	DRV,DL,CV,YOKE&SHAFT	56	6
33504	DRV,DL,CV,YOKE,TUBE,SLIPSLV	56	14
33510	JACK,RATCHET,20"-28" _STROKE	69	1
33535	HYD,VALVE,RELIEF,1750PSI,8ORB	62	10
33537	ELEC_SEAL,WP,CABLE	72	5

33537	ELEC_SEAL,WP,CABLE	73	1
33537	ELEC_SEAL,WP,CABLE	74	3
33540	ELEC_SLEEVE,WP,F,14/16	73	2
33540	ELEC_SLEEVE,WP,F,14/16	74	4
33541	ELEC_PIN,WP,M,14/16	72	6
33541	ELEC_PIN,WP,M,14/16	73	3
33542	ELEC_CONNECTOR,WP,2F	74	2
33543	ELEC_CONNECTOR,WP,2M	73	4
33544	ELEC_CONNECTOR,WP,4F	73	5
33545	ELEC,CONNECTOR,WP,4M	72	7
33546	ELEC_SWITCH,ROCKER,OFO,12V,20A	70	5
33548	ELEC,HEAT_SHRINK,TUBE,1-1/2X5	75	4
33549	WHEEL,31X13.5-15,6,OFF-WHITE	57	3
33550	BOLT,U,SQ,1/2-13,6X5-1/2	66	2
33652	ROTOR KIT	36	9
33653	HOUSING KIT	36	4
33654	BOLT KIT	36	12
33655	BEARING,CARTRIDGE,FLANGE,1-3/4"	32	5
33656	BEARING,INSERT,1-3/4B,85MM OD	34	8
33658	DRV,SPRKT,#80,24,1-3/4-20SPL	34	9
33659	CHAIN,CONNECTOR_LINK,#80	34	10
33678	BOLT,CARR,1/2X1-1/4,UNC,GR5,ZP	32	10
33679	SPRING,EXT,31/64ODX4-1/2X.063	34	11
33700	SUSP,RIM,15X10,1.12,6,OFF-WHITE	58	1
33701	SUSP,TIRE,31X13.5-15NHS,8PLY	58	2
33702	JOINT&SHAFTHALFASMW/GUARD	56	19
33703	JOINT&TUBEHALFASMW/GUARD	56	20
37686	ELEC,PLUG,2POLE,10GA	80	6
37980	ELEC,WIRE,14GA,STRAND,BLACK	80	7
37981	ELEC,WIRE,14GA,STRAND,WHITE	80	8
37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	22	27
37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	78	14
45099	BOLT,STUD,5/8X3-3/4,UNF,GR8	28	5
45224	SUSP,HUB,H611,3600 LBS	58	1
45231	DRV,DL,CV,44R,CAT5,NR	54	2
49099	DOOR,DISCHARGE,BOTTOM	44	1
49204	ELEC,LIGHT,12V,REWORKEDE	82	1
49205	ELEC,HARNESS,LIGHT,OPTIONAL	82	2
49236	DOOR,DISCHARGE,BOTTOM,HDR	44	2
49380	AXLE,ADJ,W/O_HUB	58	2
49381	ASSY,AXLE,ADJUST,S611	57	1
49382	PIN,ANTIROTATE,1-1/2 DIA	50	1
49419	WLDT,MOUNT,ELEC_HYD,7010	84	1
49420	ELEC,HARNESS,TRACTOR_RLIGHT	82	3
49421	ELEC,HARNESS,SELECTORVALVE	84	2
49423	WLDT,CV HOLDER,7010	48	1
49467	WLDT,TUB,7120	54	1
49469	WLDT,FRAME,7120	57	2
49470	WLDT,DRUM,FLAIL,7120	28	1
49471	ASSY,DRUM,FLAIL,7120	30	1
49472	WLDT,ROLLER,FEED,7120	29	1

49473	WLDT,FORK,FRAME	50	2
49474	WLDT,FRAME,LIFTFORK	50	3
49475	WLDT,DOOR,DISCHARGE	40	1
49476	WLDT,SCREEN,FRONT	45	1
49477	WLDT,FORK,LEFT	50	4
49478	WLDT,DEFLECTOR,BALE,7120	45	2
49479	WLDT,GUARD,FLAIL	38	1
49480	WLDT,FORK,RIGHT	50	5
49481	WLDT,FORK,SLIDER	50	6
49486	WLDT,PIN,DOOR	40	2
49487	ROLLER,FEED,COMPLETE,7120	32	1
49489	WLDT,PIPE,ADJ,FLAIL_GUARD	38	2
49493	WLDT,LUG,ADJ,FLAIL_GUARD	38	3
49494	WLDT,BEARING_MOUNT,TWINE	34	1
49542	WLDT,CLEVIS,CYL,ZERK_CENTERED	50	7
49543	ASSY,DRIVE,FEEDROLLER	32	3
49544	WLDT,TWINE_PLATE,REAR	32	2
49545	HANDLE,DEFLECTOR,BOTTOM,SHORT	44	3
49578	WLDT,ROD,1-1/4,10,CENTEREDGZ	52	9
49800	WLDT,PLT,COVER,DRUM	30	2
49803	PIN,FLOAT,FOR,7-5/8	50	8
49815	WLDT,TWINECUTTER,7120	47	1
49816	ASSY,TWINECUTTER,7120	46	1
49817	WLDT,BOX,STORAGE,CUTTER	46	2
49840	WLDT,GRIP,CONTROL	75	1
49841	ELEC,HARNESS,SWITCH,LHEH	70	1
49842	ELEC,HARNESS,10FT,LHEH	70	2
49843	ELEC,VALVE_W/PLUGS,LHEH	70	3
49844	ASSY,GRIP,CONTROL	70	4
49900	ELEC,HARNESS,LIGHT,7120	78	1
49901	ASSY,HYD,7120,FGR_DISDOOR	84	3
49902	WLDT,BUMPER,BALE	66	1
49904	PKG,10,BLADES,RPLC,TWINECUTTER	46	
75437	DRV,SPROCKET,COUPLING,SPLINE	34	2
90104	HYD,CYL,2X8,1.125,8FB	40	8
90104	HYD,CYL,2X8,1.125,8FB	68	4
90301	HYD,HOSE,3/8X120,8MP-8FJX,1W	65	7
90301	HYD,HOSE,3/8X120,8MP-8FJX,1W	68	5
90677	HYD,CYL,SEALKIT,MONARCH,3-1/2	52	10
91048	SUSP,STEM,VALVE,TR801HP	58	3
91130	SUSP,BRG,RACE	59	8
91150	SUSP,BRG,RACE	59	7
92028	SIGN,SLOWMOVING	22	23
92089	HYD,VALVE,SOLENOID,DOUBLE	74	1
92127	COVER,VINYL,3/8X1-1/2	44	4
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED (6)	72	11
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED (12)	72	12
92143	ELEC_LOOM,1/2,SPLIT,CORRIGATED	73	6
92143	ELEC,LOOM1/2,SPLIT,CORRUGATED	80	9
92149	ELEC,WIRE,16GA,STRAND,BLACK	72	13
92149	ELEC,WIRE,16GA,STRAND,BLACK	73	7

92150	ELEC, WIRE, 16GA, STRAND, WHITE	72	14
92151	ELEC, WIRE, 16GA, STRAND, RED	72	15
92151	ELEC, WIRE, 16GA, STRAND, RED	73	8
92153	ELEC, WIRE, 14GA, STRAND, GREEN	80	10
92154	ELEC, WIRE, 14GA, STRAND, YELLOW	80	11
92155	ELEC, WIRE, 14GA, STRAND, BROWN	80	12
92166	ELEC_CONNECTOR, RING, 3/8, 16-14, ST, INS	72	8
92167	ELEC, CONN, QD, 250F, 16-14, ST, FUL	72	9
92170	TIE,CABLE,4",BLACK	72	10
92170	TIE,CABLE,4",BLACK	73	9
92170	TIE,CABLE,4",BLACK	74	5
92170	TIE,CABLE,4",BLACK	80	13
92558	DECAL,WARNING,FORADJUSTMENT	22	24
92573	DECAL,WARNING,DISCHARGE	22	25
E2083	PIPE,DOM.1X.180X2-1/8L,HARD	28	2
E3265	DECAL,GREASEZERK,8H	22	1
E3266	DECAL,GREASEZERK,16H	22	2
E3581	BELTING,ROLLER,FEED,14,HOLE	29	2
E3669	SHAFT,1/2X1	78	2
E3714	FLAIL	28	3
E3834	DECAL,DANGER,DO NOT STAND	22	3
E5017	PLT,RETAINING,BELT	40	3
E5018	BELTING,DISCHARGE	40	4
E5553	CLAMP,HOSE,HYD	50	10
E5673	BRACKET,MOUNT,LIGHT	82	4
E5848	LOCK,HANDLE,DRUM,FLAIL	46	3
E5850	LOCK,DRUM,FLAIL	46	4
E5857	DECAL,TWINE CUTTER	22	4
E5868	DECAL,LOCK,CYLINDER	22	5
E6105	DECAL,WARNING,CV ANGLE	22	6
E6150	PLT,C,1/4X13/16X2-1/4	69	2
E6174	PIPE,SMLS,7/8X.188X1L	40	5
E6259	MOUNT,LAMP,GROMMET,2X4-1/2	78	3
E6405	PIPE,SMLS,2-1/4X.240X1/4L	34	3
E6406	PIPE,SMLS,2-1/4X.240X1/8L	32	4
E6526	PLT,SCRAPER,RUBBER	29	3
E6546	ANGLE,BRIDLE,HITCH	48	2
E6794	CHANNEL,MOUNT,BEARING	30	3
E6878	PLT,S,1/4X2X5,13/32DIA	84	4
E7327	LUG,ADJUST,FEEDROLL	32	7
E7353	PLT,FORKPIVOT	50	11
E7367	BUSHING,PIN,FORK,LONG	50	12
E7371	PLT,LOCK,TRANSPORT	50	13
E7386	GUARD,FEEDROLLER_CHAIN	34	4
E7423	DECAL,HIGHLINE,144X11-1/2	22	7
E7424	DECAL,BALE_PRO,68-1/2X9	22	8
E7425	DECAL,7120,68-1/2X9	22	9
E7426	LUG,OFFSET,DEFLECTOR	40	6
E7472	CLIP,RETAINER,1/2"OFFSET	32	6
E7474	PIPE,2-3/8X.250WX1-3/8,9/16	38	4
E7476	SHAFT,1-27/32X6-3/8,1/2HX2	38	5

E7509	BLADE,KNIFE,SOLID,TRIMMED	47	2
E7535	PLT,OFFSET,TRANSPORT	40	7
E7538	GUARD,DRV,CHANNEL MOUNT	54	3
E7539	DECAL,DOOR_LOCK,DISENGAGE	22	10
E7542	CHAIN,ROLLER,#80,15 LINKS	34	5
E7552	DECAL,WARNING,OWNER_MANUAL	22	11
E7553	DECAL,WARNING,STOP_ENGINE/SERVICE	22	12
E7572	DECAL,CAUTION,JACK,5000LBS	22	13
E8054	BLOCK,GUIDE,CHAIN	34	6
E8056	DECAL,STRIPING,69-3/8X11-1/2	22	14
E8078	PLT,S,EXTENSION,LIGHT	78	4
E8126	DECAL,CONTROL,LH_EH	75	2
E8262	DECAL,INFO,LOAD_LIFT	22	15

## **7.0 Specifications**

Tractor Horsepower	Minimum 160 HP
Processing Capacity	1 - 6'x6' Round Bale or Smaller 2 - 5.5'x6' Round Bales or Smaller 1 - 4'x4'x8'Square Bale or Smaller
Carrying Capacity	1 - 6'x6' Round Bale or Smaller 2 - 5.5'x6' Round Bales or Smaller 1 - 4'x4'x8'Square Bale or Smaller
Tub Length	12'
Flail Guard Rod Aggression	Manual infinitely adjustable Optional Hydraulic Adjustable
Flail Sweep Diameter	26-5/8"
Flail Drum	12-3/4" diameter 1/2" Thick wall
Flails	52-0.401"thich x 5-1/2" tempered spring steel
Tire	4-31x13.5-15 RIB Implement (Standard Equipment)
Total Weight	8180 lbs (3710 kg)
Axle Weight	6620 lbs (3000 kg)
Hitch Weight	1560 lbs (708 kg)
PTO & Requirements	1000 rpm PTO (80°CV) 1-3/8-21 Spline
Hydraulics	Triple Remote (2000 PSI) 4 Remote with optional hydraulic Flail Guard Rod Adjustment
Cylinders	Bale Fork 4 - 3-1/2" x 10", 1-1/4 Rod Deflector Door 2- 2"x8",1-1/2" Rod Optional Flail Guard Rod Adjustment 2-2-5/8"x8",1-1/8" rod
Hydraulic Motors	2 - 22.8 CI Rated AT 3500 PSI (2:1 #80 Roller Chain Drive)
Twine Cutter	Standard Equipment
Adjustable Width Forks	Standard Equipment
Electric /Hydraulic Bale Rotation Reverser	Optional Equipment
Height	Forks Extended up 16'-8" Forks Retracted up 14'-6" Forks Down 9'-2" Forks Up 21'-8"
Length	Forks Extended Down 28'-8" Forks Retracted Down 30'-8"
Width at Tires	8'-6" Extendable to 10'-0" in 6" Increments
Width at Top	8'6"
Transport Width	9'-0"

### **Dealer Information**

Dealer: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Province / State: \_\_\_\_\_

Postal Code / Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_

### **Identification Numbers**

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

## **Dealer Checklist**

SERIAL NO.: \_\_\_\_\_

- Setup  
 Packaged

Options:  BPO7120HFG-4  
 BPO7120RFG-4

N/A	✓	Check List Item
		Bottom deflector door moves freely and will hit all 4 adjustment holes.
		Transport lock for deflector door is installed and functional. (2)
		Ensure all grease points are lubricated and grease point decals installed
		Ensure lift assembly is against frame when cylinders are retracted.
		Safety decals & reflective stripes installed per specifications and drawings.
		Check tire pressure as specified on tire.
		Ensure flail drum lock engages the flail drum in both positions and disengages freely.
		Ensure twine cutter can be passed through the full length of tub (both top/bottom of flail drum).
		Ensure twine cutter is secured in storage position for shipping.
		Wire front PTO to holder to prevent loss
		Full library of manuals (operators, and parts) shipped with machine (When applicable).

N/A	✓	PACKAGING LIST
		2 - 49481 Wldt,Fork,Slider
		4 - 49478 - Wldt,Deflector,Bale,7120
		2-E5018 Belting,Discharge (12-E3003 Plt,Weight,Belting and 2-E5017 Plt,Retaining,Belting)
		20-31443 Bolt,Hex,5/16x1 1/4,UNC,GR5,ZP 20-31177 Nut,Nylock,5/16,UNC,ZP
		1 - 49476 - Wldt,Screen,Front
		6 - 31020 - Bolt,Hex,1/2x2 3/4,UNC,GR5,ZP
		4 - 31027 - Bolt, Hex,1/2x4 1/2,UNC,GR5,ZP
		10 - 31173 - Nut,Nylock,1/2,UNC,ZP
		24 - 31236 - Washer,Flat,1/2,ZP

N/A	✓	OPERATIONAL CHECK
		- feed rollers (slide easily in slide retainers)
		- flail drum (not binding on twine guards)
		- discharge door
		- flails not hitting tub or rods - test using tractor
		Feed Rollers turn in both directions-unison (same direction)
		Ensure free movement of BP forks (not binding).
		Ensure cylinder transport lock fits with forks in transport position.
		Hydraulic motors to be operated and checked for leaks and free movement.
		Cycle all cylinders a minimum of 3 times, check for leaks and clearance problems.
		Discharge Door - CylinderClevis adjusted (2)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_