

**Bale Pro 7000HD-A
and
Bale Pro 7000HDR-A
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 each 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 7000 HD-A* or *Bale Pro 7000 HDR-A*! 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 7000 HD-A* or *Bale Pro 7000 HDR-A*. 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 you local dealer or Highline Mfg. Inc.

Highline Mfg. Inc. thanks and congratulates you for choosing the *Bale Pro 7000 HD-A* or *Bale Pro 7000 HDR-A* as the livestock feed handling equipment for your needs.

Chuck LePage, President
Highline Mfg. Inc.

PO Box 307, Vonda, Saskatchewan, S0K 4N0

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

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

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.



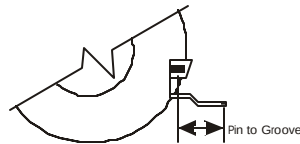
Before operating the Bale Pro 7000 HD-A or Bale Pro 7000 HDR-A, be sure to review *all* of the instructions and familiarize yourself with its features.

1.0 Operating Instructions

1.1 General Operating Instructions

Successful operation of the Bale Pro 7000 HD-A or Bale Pro 7000 HDR-A 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 Bale Pro 7000 HD-A or Bale Pro 7000 HDR-A.

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 7000 HD-A or Bale Pro 7000 HDR-A 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 transport lock that must be released before the door can be lowered. Pull the handle of the transport lock towards the hitch end of the bale processor and rotate the pin of the transport lock out of the slot in the door to a position between the door and the tub body. The top discharge deflector door is operated by a hydraulic cylinder, which is linked to the feed roller hydraulic circuit. The selection of door function is determined by the position of the bale forks. The normal mode is for the feed roller to be operational, the door operation is enabled only when the bale forks are in the fully down position (a "fork down indicator" has been provided and is placed on the front of the hydraulic selector valve). With the selector valve shifted by the down position of the bale forks, the tractor hydraulic valve will control the door position cylinder.

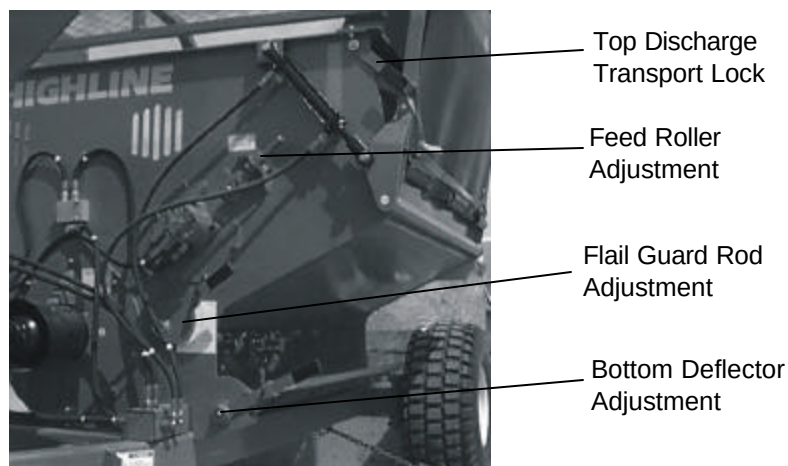
Note: The feed rollers should not operate with the bale forks in the full down position. If the feed rollers move while the door is actuated see Section 1.2 - Selector Valve Assembly Adjustment. The door cylinder and selector valve circuit are not "zero leakage" components and the weight of the door will cause the cylinder to slowly leak down over a long period of time. Use the door transport lock to prevent door leak down.

The door may drop a small amount (1/4") as the bale forks are brought to the fully down position and up again even if the door is not adjusted. This is caused by cross leakage inside the selector valve and should not be a problem except for repeated actuation of the selector valve. This leakage can be compensated for by noting the position of the door before raising the bale forks and adjusting the door height as required.

5. To adjust the bottom deflector, simply stand in front of the machine, pull the handle toward yourself, and raise or lower the door as required.
6. The adjustment of the flail guard rods is similar to the bottom deflector adjustment. Pull the handle towards yourself and raise or lower the handle. Raising the handle will make the Bale Pro more aggressive while lowering the handle will make it less aggressive. There are five different settings for the flail guard rods as shown on the decal by the handle. If less aggres-

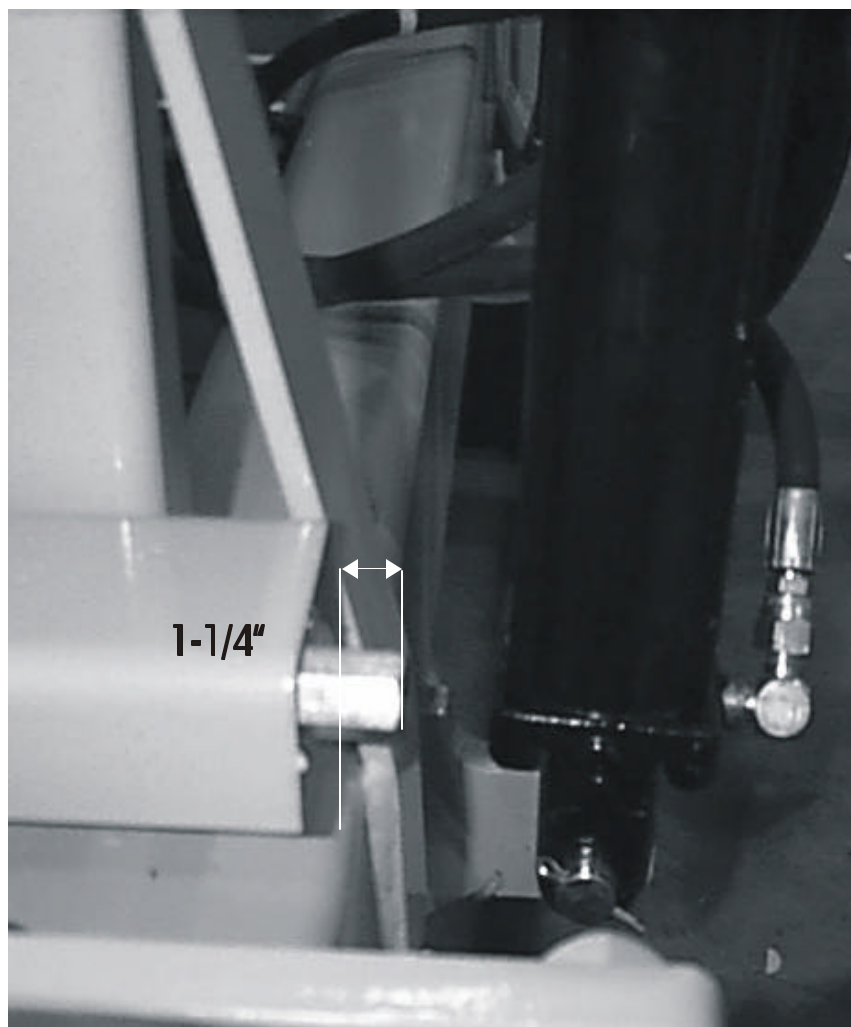
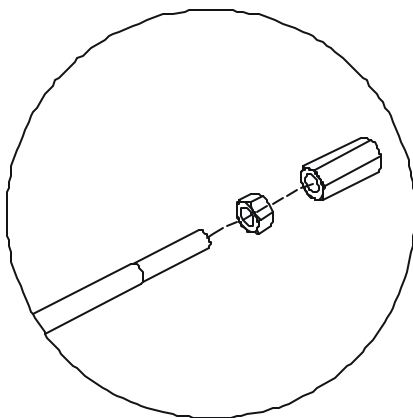
- sive settings are required, the flail guard rods can be adjusted to the top holes on the right hand side of the tub. If the processor is operated too aggressively, the flails will slap back on the flail drum. Continued 'backslap' can cause damage and unnecessary wear to the flail drum, flails, and flail bushings. Therefore, avoid excessive and prolonged 'backslap' whenever possible by adjusting the flail guard rods to a slightly less aggressive setting.
7. Adjust the feed roller position with the feed roller adjusting rods to accommodate the bale size. Generally the feed rollers should be raised for larger bales and lowered for smaller bales. Major adjustments may affect the aggressiveness of the processor.
 8. The feed roller speed should be set at approximately 40 rpm. This can be done by adjusting the flow control on the tractor (if it is equipped with a flow control). If you do not have a flow control on your tractor, a flow control kit can be purchased from your Highline dealer.
 9. Before loading the bale, engage the PTO to ensure that the flail drum is operating properly. Start feed rollers using the hydraulic controls and check to ensure the feed rollers turn in both directions. If your tractor has a hydraulic flow control, alter the flow so the feed rollers rotate at an equal speed for the condition of your bales.
 10. To load bales, lower the forks **completely** (fork indicator) and back up to the bale **slowly** until the forks are completely under the bale. Raise the forks until the bale falls into the processor. Another bale may be loaded onto the forks while a bale is in the processor. A "fork down indicator" has been provided to show when the forks are fully down. The indicator plate is located on the non-discharge frame member in front of the tub. The normally vertical indicator pops out 45° when the bale forks are fully down and can be seen from the tractor seat. If a bale is loaded onto the forks while one is being shredded, raise the forks as high as possible, making sure the bale on the forks does not interfere with the bale already in the tub. Raising the forks will reduce the pressure on the hydraulic lift assembly. Orientation of the bale during loading causes the hay/straw to discharge from the processor differently. If the bale is shredded in the same direction in which it was baled, the hay/straw 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 tool to dislodge jammed material.**
 12. When ready, engage the tractor PTO at an idle. Increase the PTO speed until it reaches 1000 rpm. Make sure that before the PTO is engaged, the forks are not interfering with the bale in the tub. To process bales, rotate the bale using the feed rollers. If the bale stops moving, reverse the direction of the feed rollers.
 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 Selector Valve Assembly Adjustment

1. The selector rod assembly adjustment is preset at the factory to be 1-1/4" from the end of the coupling nut to the edge of the axle tube at the point of engagement on the small spring. This should shift the valve fully to the door circuit, and allow, while the forks are completely lowered, for discharge door operation without any feed-roller movement. As well, you should not be able to "pull" the selector valve forward at all.
2. If the above conditions are not met then the selector rod may need adjusting. In most cases the selector rod will need to be lengthened. This is done by raising the forks, loosening the jam nut and threading the coupling nut out (making the rod longer). The coupling nut should be adjusted in small increments, one full turn or 1/16" at a time. The jam nut should be retightened, and then the forks lowered and the circuit rechecked for proper operation. If the circuit is still not operating properly repeat the above steps until proper operation is achieved.
3. Large adjustments made to the selector rod without checking circuit operation may result in damage to the selector rod, valve, and springs.



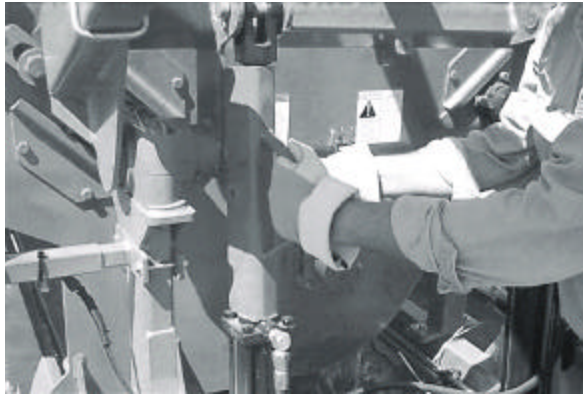
1.3 Twine Removal Procedure

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 adjustment lever is NOT in position #5. Failure to do so will result in damage to the twine cutter blade.



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. Ensure that no flails are obstructing the path of the knife on the flail drum. Failure to do so will result in damage to the twine cutter blade.



5. Lower the extension guide.



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

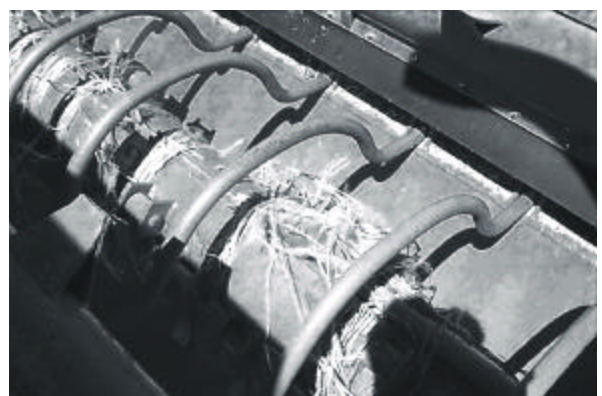


7. Align the twine cutter with the groove on the extension guide (Figure A). Slide the tool into the groove and cut through the twine in a saw-like action (Figure B).

Figure A



Figure B



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.
- 9 (b). Lock the extension guide in the upright position.



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. Install the pin from the bottom side.



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2.0 Maintenance Instructions

Please follow these maintenance procedures to ensure years of trouble free operation of your Bale Pro 7000 HD-A or Bale Pro 7000 HDR-A.

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.

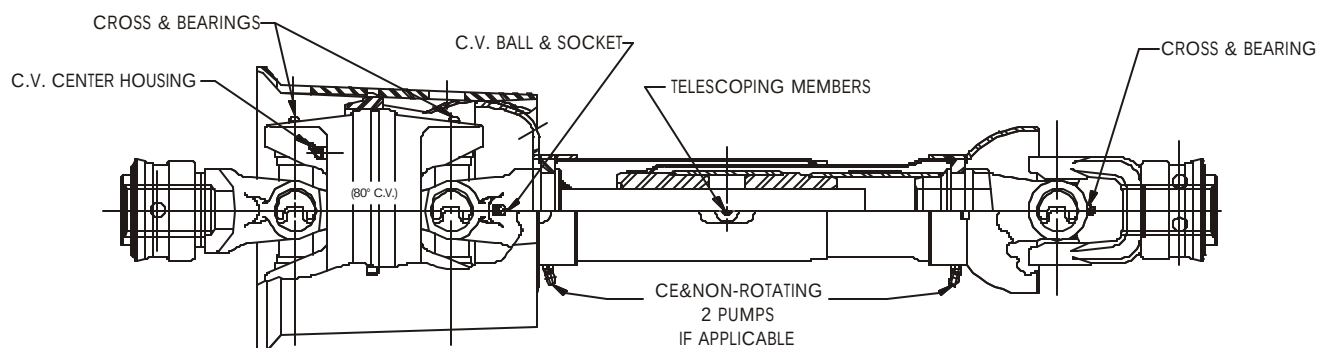
Casted pipe clamps for the bale forks should be checked every 50 bales and tightened if necessary.

Maintaining proper lubrication of the Bale Pro 7000 HD-A or Bale Pro 7000 HDR-A 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. Feed Roller Bearings (Left and Right): Every 16 hrs.
3. Casted Pipe Clamps (Left and Right): Every 16 hrs.
4. Wheel Hub Bearings (Left and Right): Every 16 hrs.
5. Forks (Left and Right): Every 16 hrs.
6. Discharge Deflector Pipe (Front): Every 16 hrs.

For more details on location see Section 3.1 - Grease Zerk Locations.

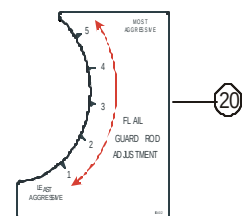
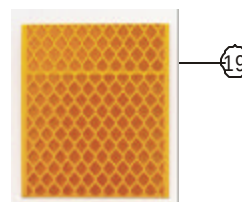
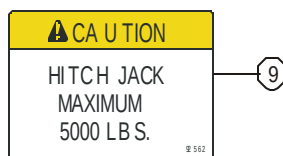
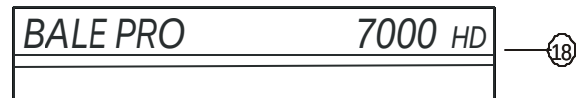
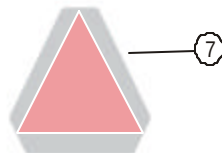
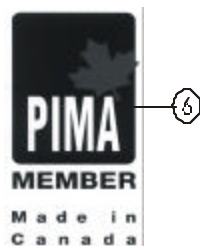
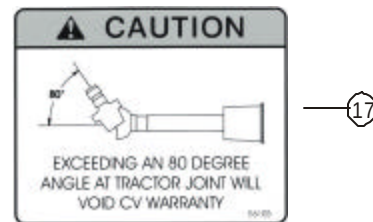
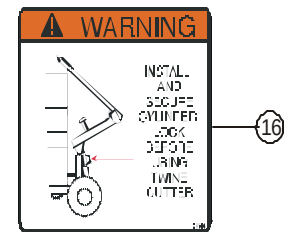
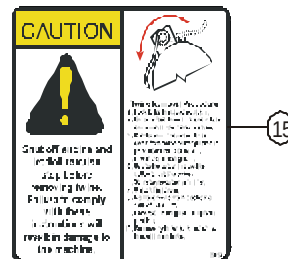
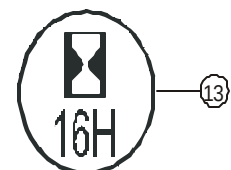
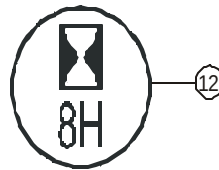
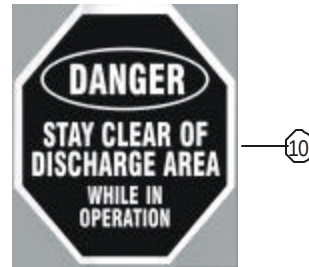
***Use low temperature grease when the temperature reaches below 0° Celsius (32° Fahrenheit).**



3.0 HD Decal Location (Part No. 49296)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30208	PLT,SERIAL#	1
2	30271	DECAL,DANGER,ROTATING DRIVE	1
3	30285	DECAL,DANGER,TO PREVENT	2
4	30577	DECAL,RED REFL,2X9	3
5	30578	DECAL,AMBER REFL,2X9	2
6	32981	DECAL,PIMA	1
7	92028	SIGN,SLOWMOVING,S276.5	1
8	92558	DECAL,WARNING,FOR ADJUSTMENT	2
9	92562	DECAL,WARNING,HITCH,JACK	1
10	92573	DECAL,DANGER,OCTAGON	1
11	92579	DECAL,HIGHLINE,4X30	1
12	E3265	DECAL,GREASEZERK,8H	2
13	E3266	DECAL,GREASEZERK,16H	9
14	E5057	DECAL,HIGHLINE,71X10	2
15	E5857	DECAL,TWINE CUTTER	1
16	E5868	DECAL,LOCK,CYLINDER	1
17	E6105	DECAL,WARNING,CV ANGLE	1
18	E6258	DECAL,BALE PRO 7000HD	2
19	E6328	REFLECTIVE,TAPE,SELECTOR	1
20	E6402	DECAL,ROD ADJ,HD	1

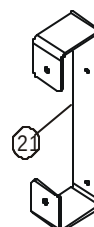
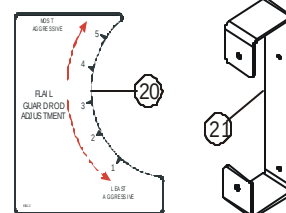
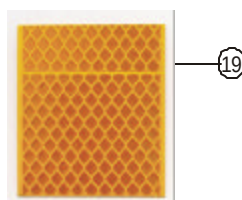
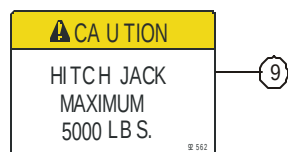
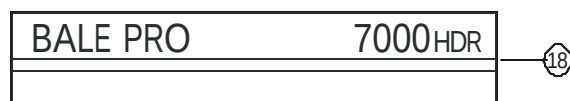
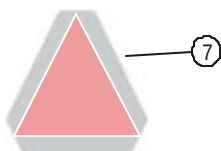
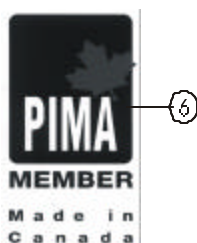
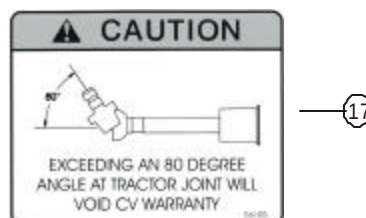
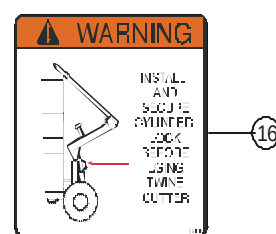
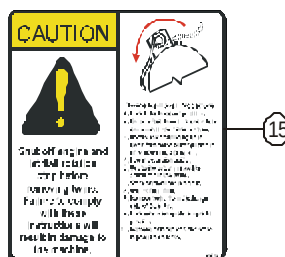
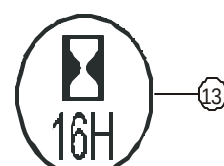
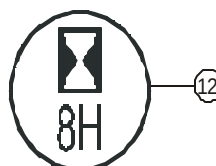
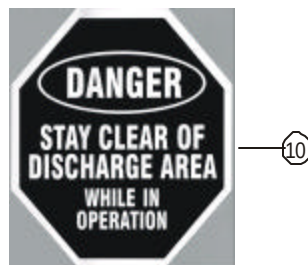
3.0 Decal Location (cont'd)



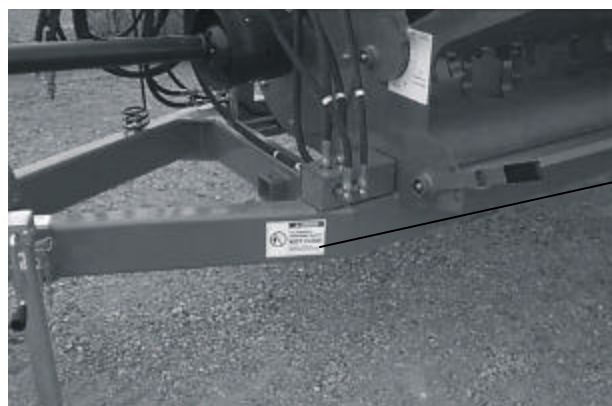
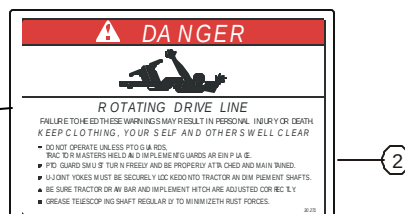
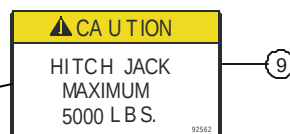
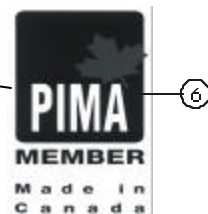
3.0 HDR Decal Location (Part No. 49374)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30208	PLT,SERIAL#	1
2	30271	DECAL,DANGER,ROTATING DRIVE	1
3	30285	DECAL,DANGER,TO PREVENT	2
4	30577	DECAL,RED REFL,2X9	3
5	30578	DECAL,AMBER REFL,2X9	2
6	32981	DECAL,PIMA	1
7	92028	SIGN,SLOWMOVING,S276.5	1
8	92558	DECAL,WARNING,FOR ADJUSTMENT	2
9	92562	DECAL,WARNING,HITCH,JACK	1
10	92573	DECAL,DANGER,OCTAGON	1
11	92579	DECAL,HIGHLINE,4X30	1
12	E3265	DECAL,GREASEZERK,8H	2
13	E3266	DECAL,GREASEZERK,16H	9
14	E5057	DECAL,HIGHLINE,71X10	2
15	E5857	DECAL,TWINE CUTTER	1
16	E5868	DECAL,LOCK,CYLINDER	1
17	E6105	DECAL,WARNING,CV ANGLE	1
18	E6192	DECAL,BALE PRO 7000HDR	2
19	E6328	REFLECTIVE,TAPE,SELECTOR	1
20	E6412	DECAL,ROD ADJ,HDR	1
21	E6506	BRACKET,SMV	1

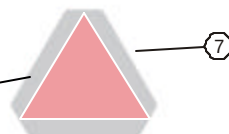
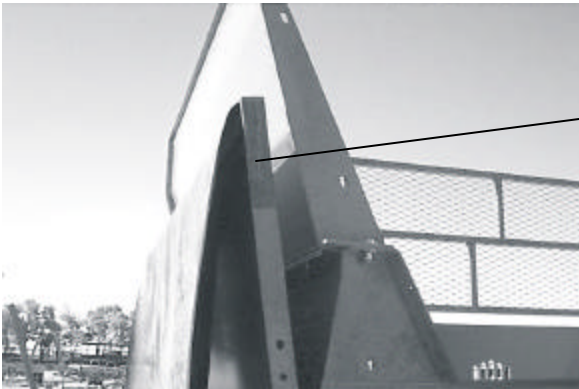
3.0A Decal Location (cont'd)



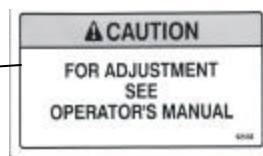
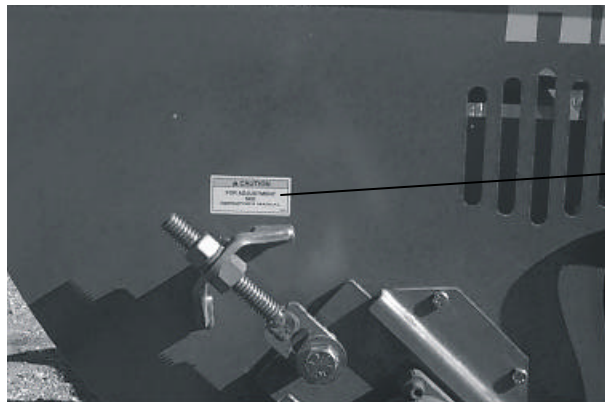
3.0 Decal Location (cont'd)



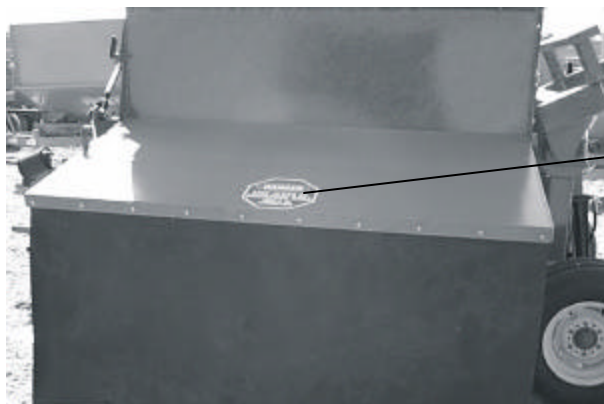
3.0 Decal Location (cont'd)



3.0 Decal Location (cont'd)



8

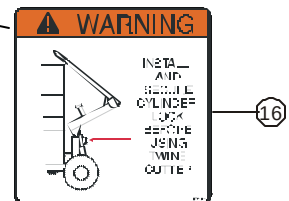
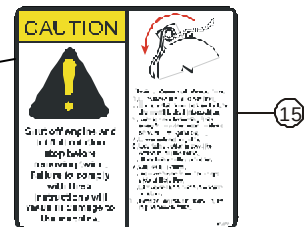
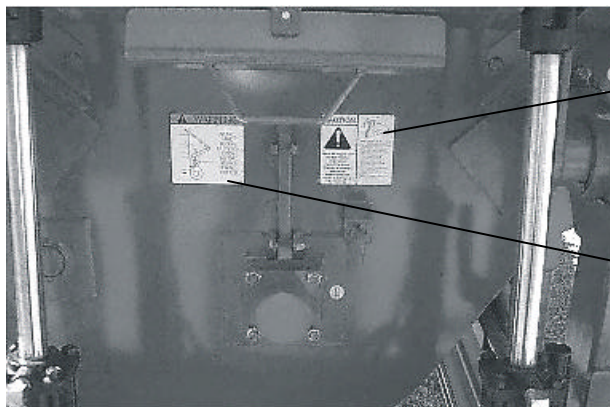


10



11

3.0 Decal Location (cont'd)

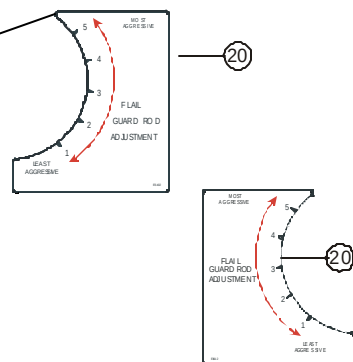
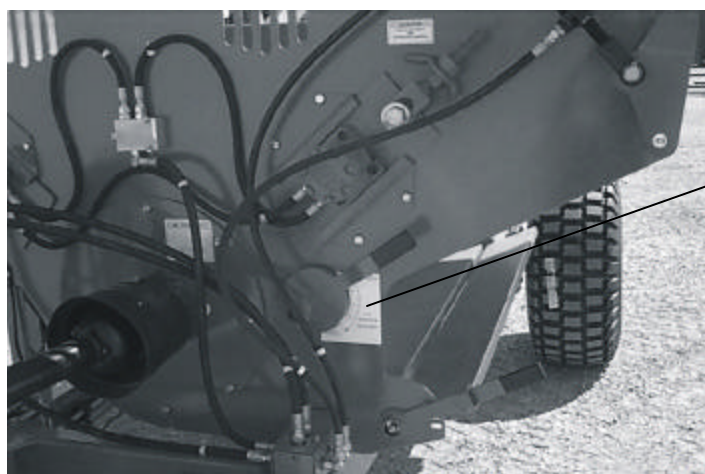
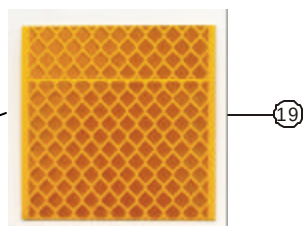
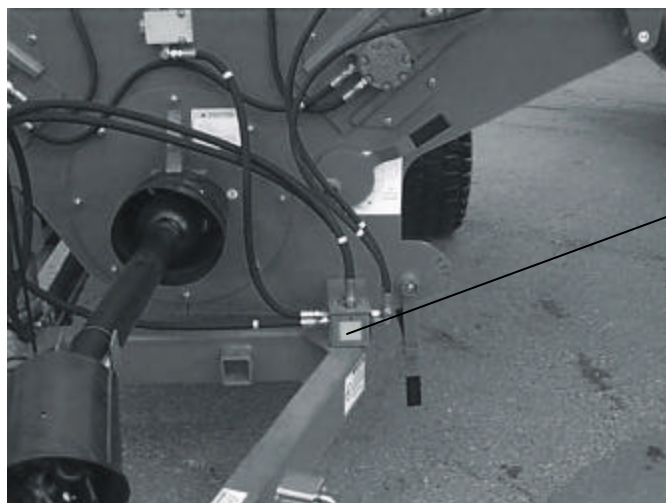


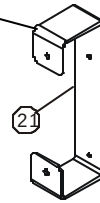
3.0 Decal Location (cont'd)



BALE PRO	7000 HD	18
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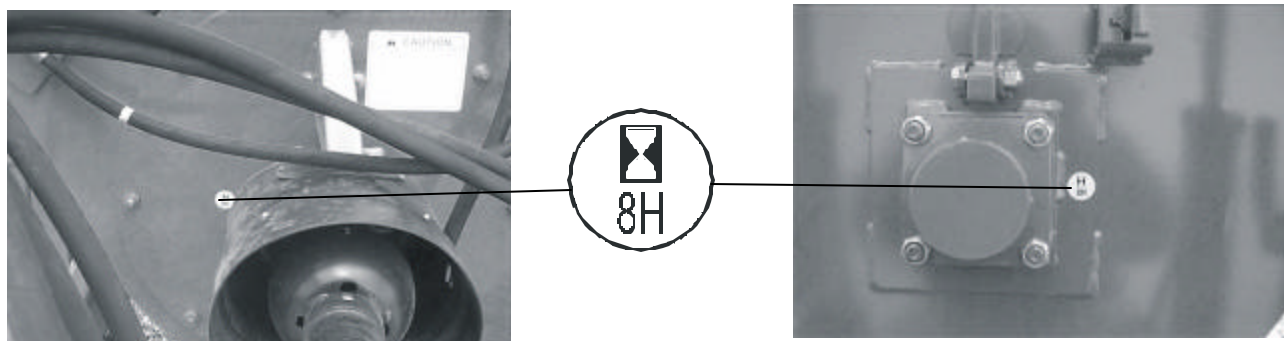
BALE PRO	7000HDR	18
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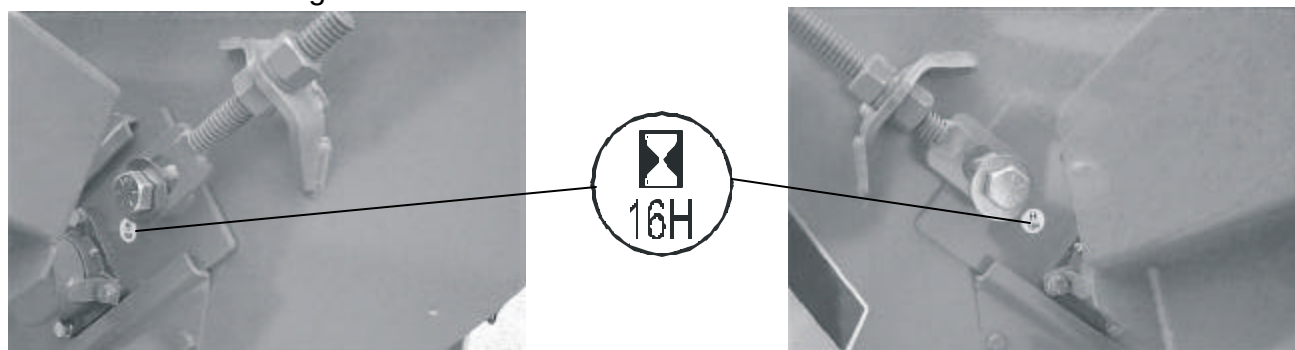


3.1 Grease Zerk Locations

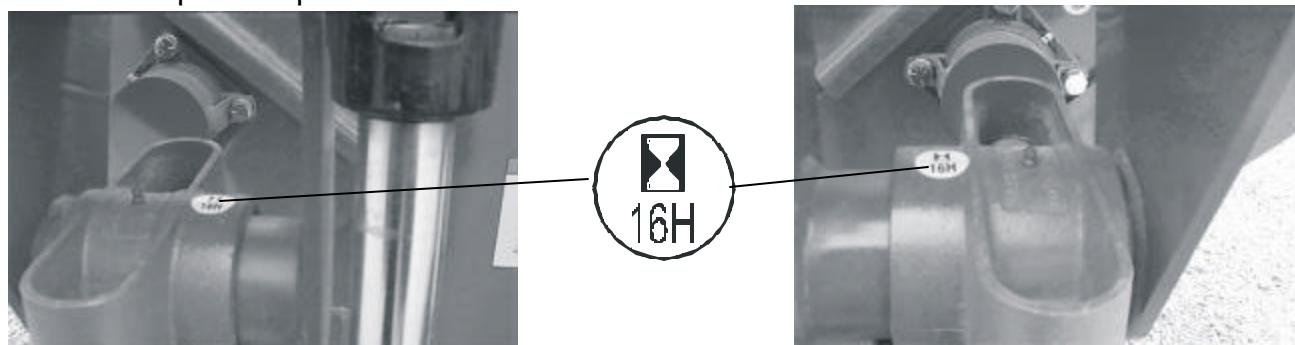
1. Flail Drum Bearings



2. Feed Roller Bearings



3. Casted Pipe Clamps



4. Wheel Hub Bearings

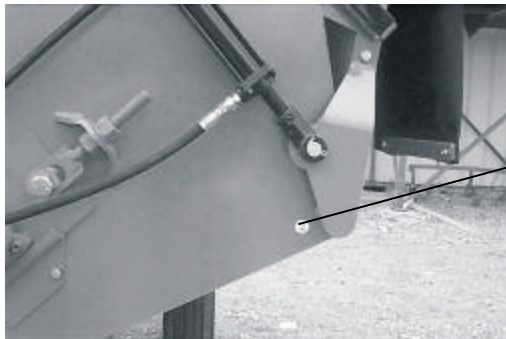


3.1 Grease Zerk Locations (cont'd)

5. Forks



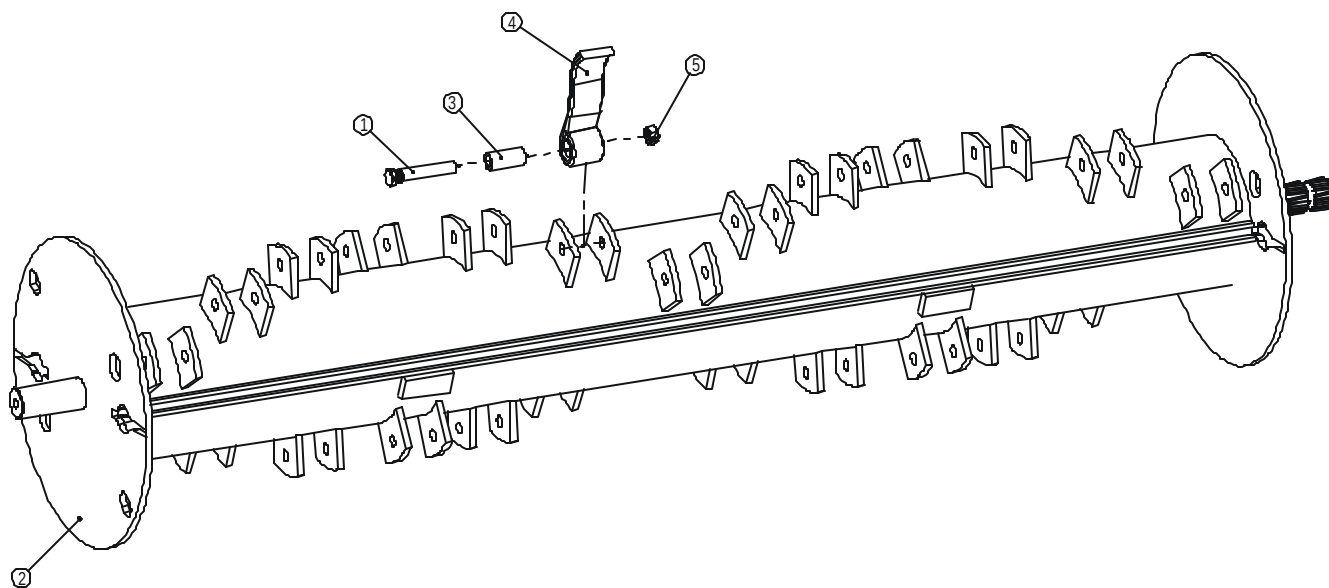
6. Discharge Deflector Pipe



4.0 Parts Information

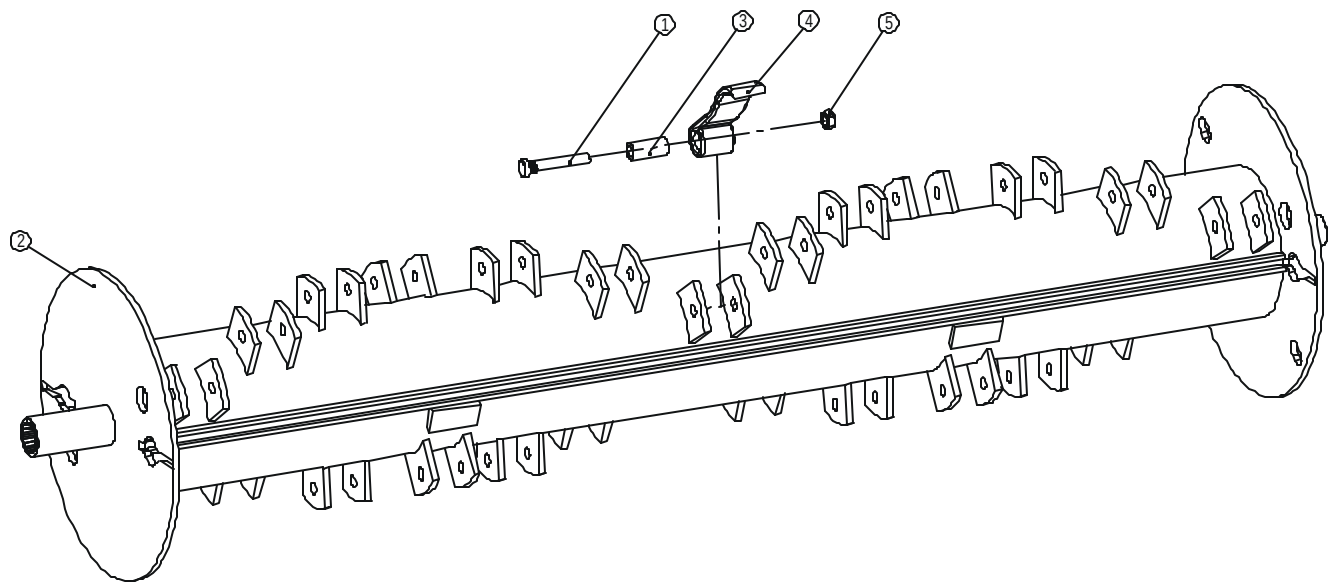
4.1 HD Flail Drum Assembly (Part No. 49160)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45099	BOLT,STUD,5/8X3-3/4,UNF,GR8	26
2	49159	DRUM,FLAIL,WITH CUTTER	1
3	E2083	PIPE,CDBW,1x.180x2-1/8L	26
4	E5377	FLAIL, TG, .447	26
5	31170	NUT,LOCK,STOVER,5/8,UNF,ZP	26



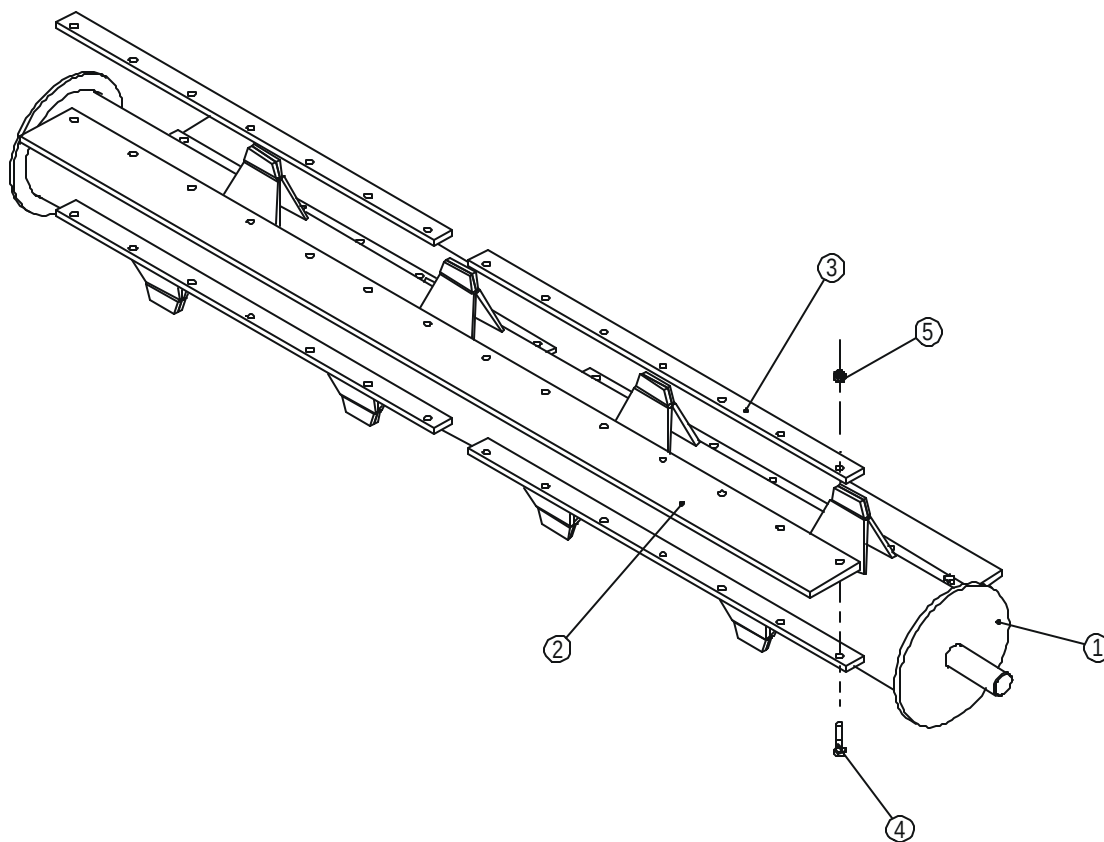
4.1 HDR Flail Drum Assembly (Part No. 49307)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45099	BOLT ,STUD,5/8X3-3/4,UNF,GR8	26
2	49308	WLDT,DRUM,FLAIL,HDR,INT SPL	1
3	E2083	PIPE,CDBW,1x.180x2-1/8L	26
4	E5377	FLAIL, TG, .447	26
5	31170	NUT,LOCK,STOVER,5/8,UNF,ZP	26



4.2 Feed Roller Assembly (Part No. 49017)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49027	ROLLER, FEED	1
2	E3581	BELTING,ROLLER,FEED,14 HOLE	2
3	E6526	PLT,SCRAPER,RUBBER	4
4	31066	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP	28
5	31176	NUT,NYLOCK,3/8,UNC,ZP	28

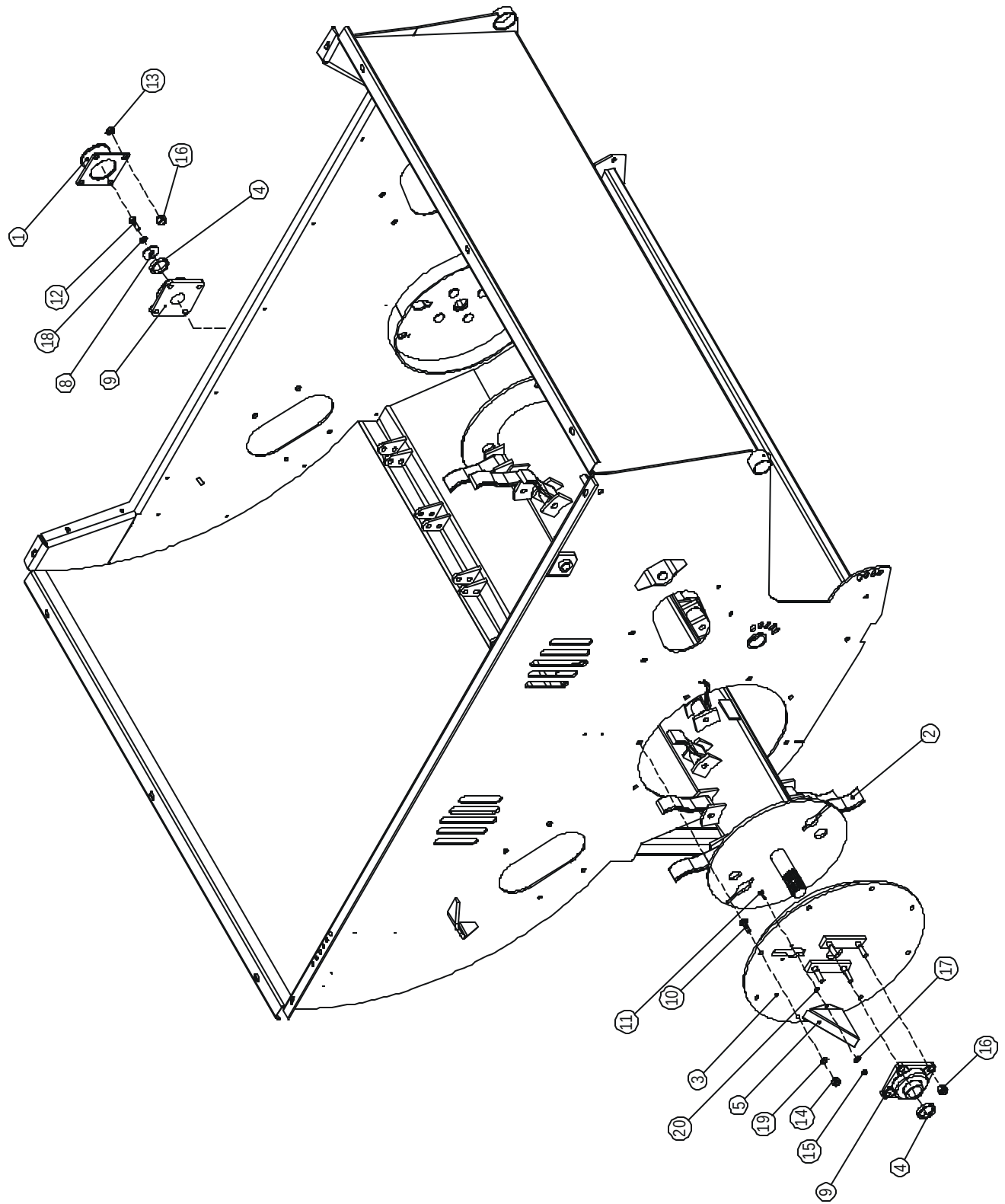


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4.3 HD Flail Drum Installation (Part No. 49177)

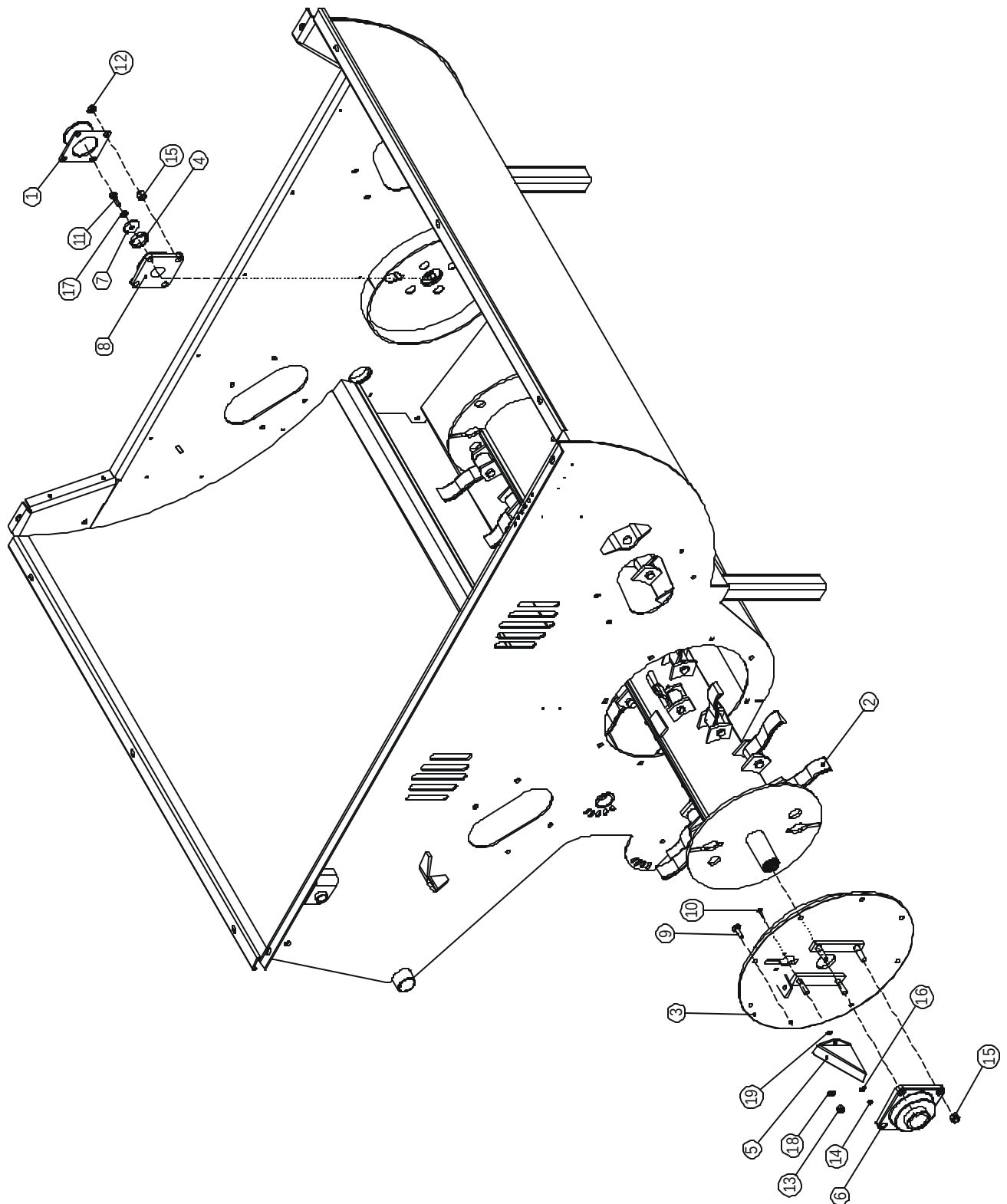
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49054	GUARD, DRUM, FLAIL	1
2	49160	DRUM, FLAIL, WITH CUTTER, COMPLETE	1
3	49163	PLATE, BEARING, FRONT	1
4	E3646	PIPE,SMLS,2-1/4x.240x3/8L	2
5	E5856	GUARD,CUTTER,FRONT	1
6	E6405	PIPE,SMLS,2-1/4x.240x1/4L	1
7	E6406	PIPE,SMLS,2-1/4x.240x1/8L	1
8	92081	WASHER,FLAT,3/16X2ODX9/16ID	1
9	92091	DRV, BRG, FLANGE, 1-3/4"	2
10	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	8
11	31012	BOLT,CARR,1/4X1,UNC,GR5,ZP	2
12	31016	BOLT,HEX,1/2X1-1/2,UNC,G R5,ZP	1
13	31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	4
14	31173	NUT,NYLOCK,1/2,UNC,ZP	8
15	31174	NUT,NYLOCK,1/4,UNC,ZP	2
16	31178	NUT,NYLOCK,5/8,UNC,ZP	8
17	31237	WASHER,FLAT,1/4,ZP	2
18	31244	WASHER,LOCK,1/2,ZP	1
19	31894	RETAINER,BOLT,1/2	8
20	31895	RETAINER,BOLT,1/4	2

PART NUMBERS 6 (E6405) AND 7 (E6406) ARE
NOT SHOWN AND ARE TO BE USED AS REQUIRED.



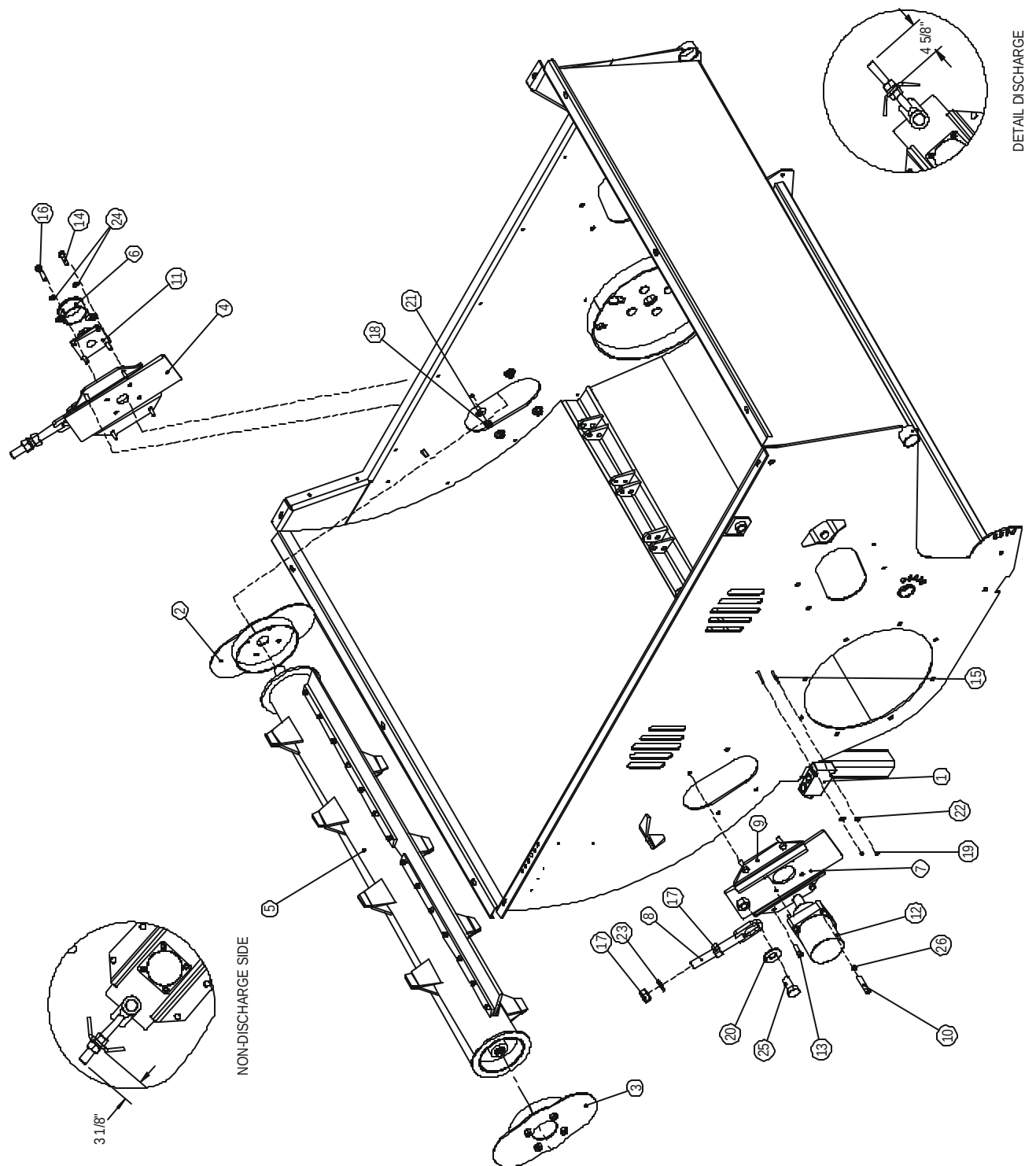
4.3 HDR Flail Drum Installation (Part No. 49301)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49054	GUARD, DRUM, FLAIL	1
2	49307	ASSY,DRUM,FLAIL,HDR,COMPLETE	1
3	49309	WLDT,PLT,BRG,FRONT,HDR	1
4	E3646	PIPE,SMLS,2-1/4x.240x3/8L	1
5	E5856	GUARD,CUTTER,FRONT	1
6	31980	DRV,BRG,FLANGE,2-1/4"	1
7	92081	WASHER,FLAT,3/16X2ODX9/16ID	1
8	92091	DRV, BRG, FLANGE, 1-3/4"	1
9	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	8
10	31012	BOLT,CARR,1/4X1,UNC,GR5,ZP	2
11	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	1
12	31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	4
13	31173	NUT,NYLOCK,1/2,UNC,ZP	8
14	31174	NUT,NYLOCK,1/4,UNC,ZP	2
15	31178	NUT,NYLOCK,5/8,UNC,ZP	8
16	31237	WASHER,FLAT,1/4,ZP	2
17	31244	WASHER,LOCK,1/2,ZP	1
18	31894	RETAINER,BOLT,1/2	8
19	31895	RETAINER,BOLT,1/4	2



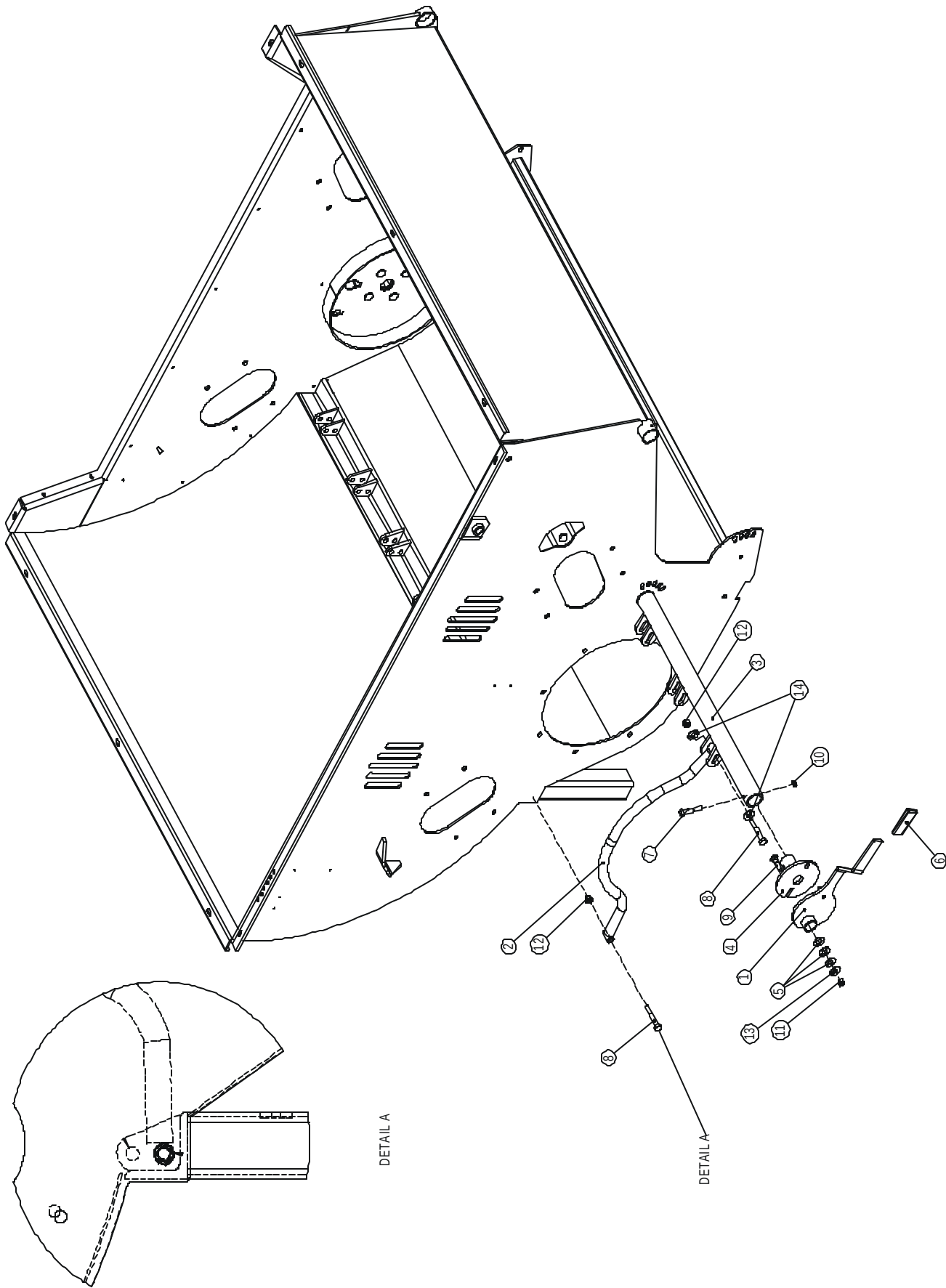
4.4 Feed Roller Installation (Part No. 49286)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45232	HYD,VALVE,DIVIDER	1
2	47012	GUARD, TWINE, REAR	2
3	47019	GUARD, TWINE, FRONT	2
4	49015	PLATE, SLIDE, REAR	2
5	49017	ROLLER, FEED, COMPLETE	2
6	49053	GUARD, ROLLER, FEED	2
7	49096	PLATE, SLIDE, FRONT	2
8	49107	ROD, ADJ, ROLLER, FEED	4
9	E2138	PLATE, RETAINER, SLIDE	8
10	31059	BOLT,SHCS,1/2X2-1/2,UNC,GR5,ZP	8
11	92094	DRV, BRG, FLANGE, 1-3/8"	2
12	92145	HYD,MOTOR	2
13	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	16
14	31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	4
15	31032	BOLT,HEX,1/4X2-1/4,UNC,GR5,ZP	2
16	31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	4
17	31159	NUT,ACME,1,5TPI,RH	8
18	31173	NUT,NYLOCK,1/2,UNC,ZP	16
19	31174	NUT,NYLOCK,1/4,UNC,ZP	2
20	31235	WASHER,FLAT,1,ZP	4
21	31236	WASHER,FLAT,1/2,ZP	16
22	31237	WASHER,FLAT,1/4,ZP	2
23	31243	WASHER,LOCK,1,ZP	4
24	31244	WASHER,LOCK,1/2,ZP	8
25	31448	BOLT,HEX,1X2,UNC,GR8,ZP	4
26	33017	WASHER,LOCK,HIGH-COLLAR,1/2,ZP	8



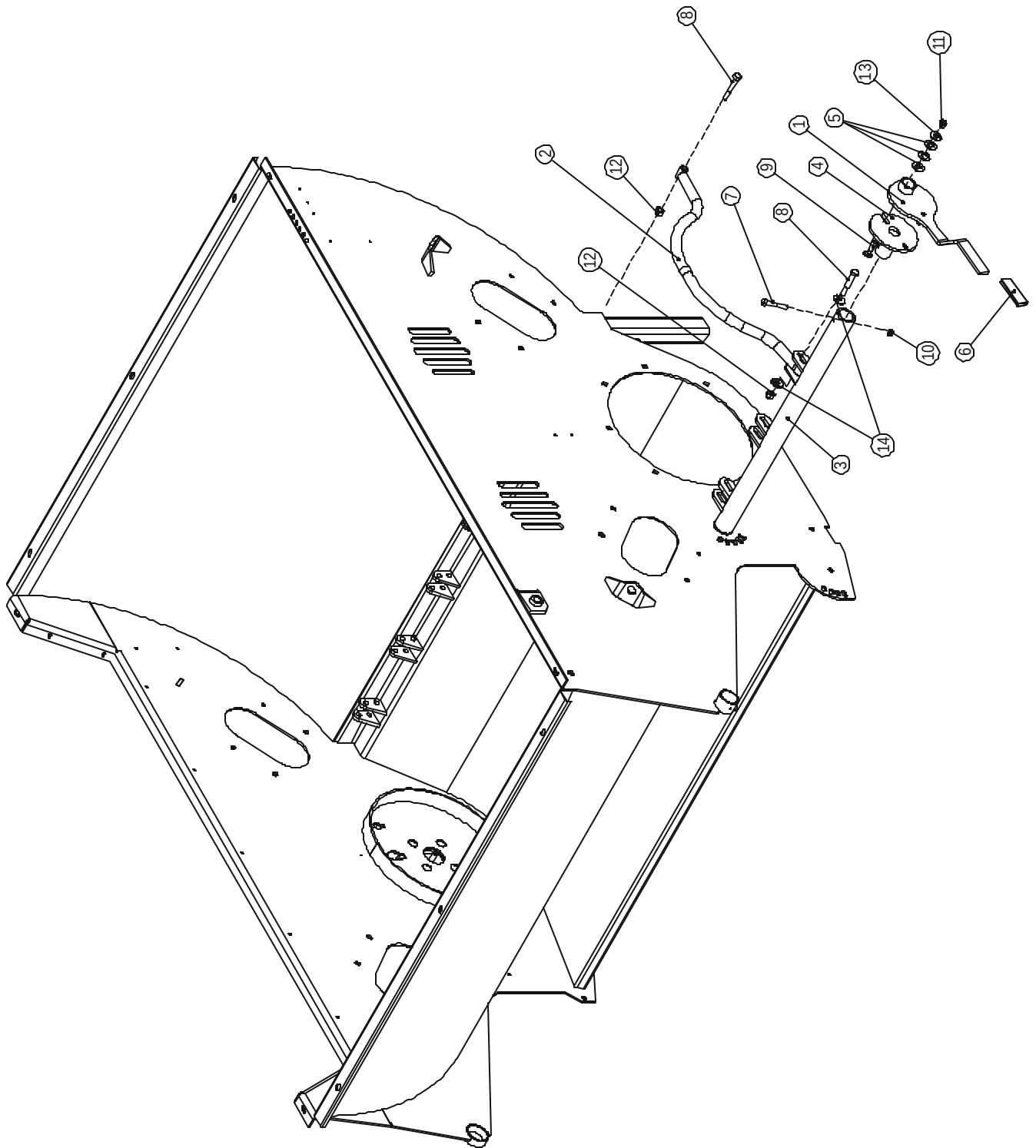
4.5 HD Flail Guard Rod Assembly (Part No. 49178)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49101	HANDLE, ADJ, ROD, FLAIL	1
2	49108	GUARD, FLAIL	6
3	49110	BAR, ADJ, GUARD, FLAIL	1
4	49451	PIN, ADJUSTMENT, ROD, FLAIL,HD	1
5	31668	WASHER,SPRING,3/4,342	4
6	92127	COVER,VINYL,3/8X1-1/2	1
7	31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	1
8	31058	BOLT,HEX,9/16X3-1/2,UNC,GR5,ZP	12
9	31009	BOLT,CARR,1/2X2,UNC,GR5,ZP	1
10	30611	NUT,NYLOCK,JAM,1/2,UNC,ZP	1
11	31173	NUT,NYLOCK,1/2,UNC,ZP	1
12	31179	NUT,NYLOCK,9/16,UNC,ZP	12
13	31236	WASHER,FLAT,1/2,ZP	1
14	31242	WASHER,FLAT,9/16,ZP	12



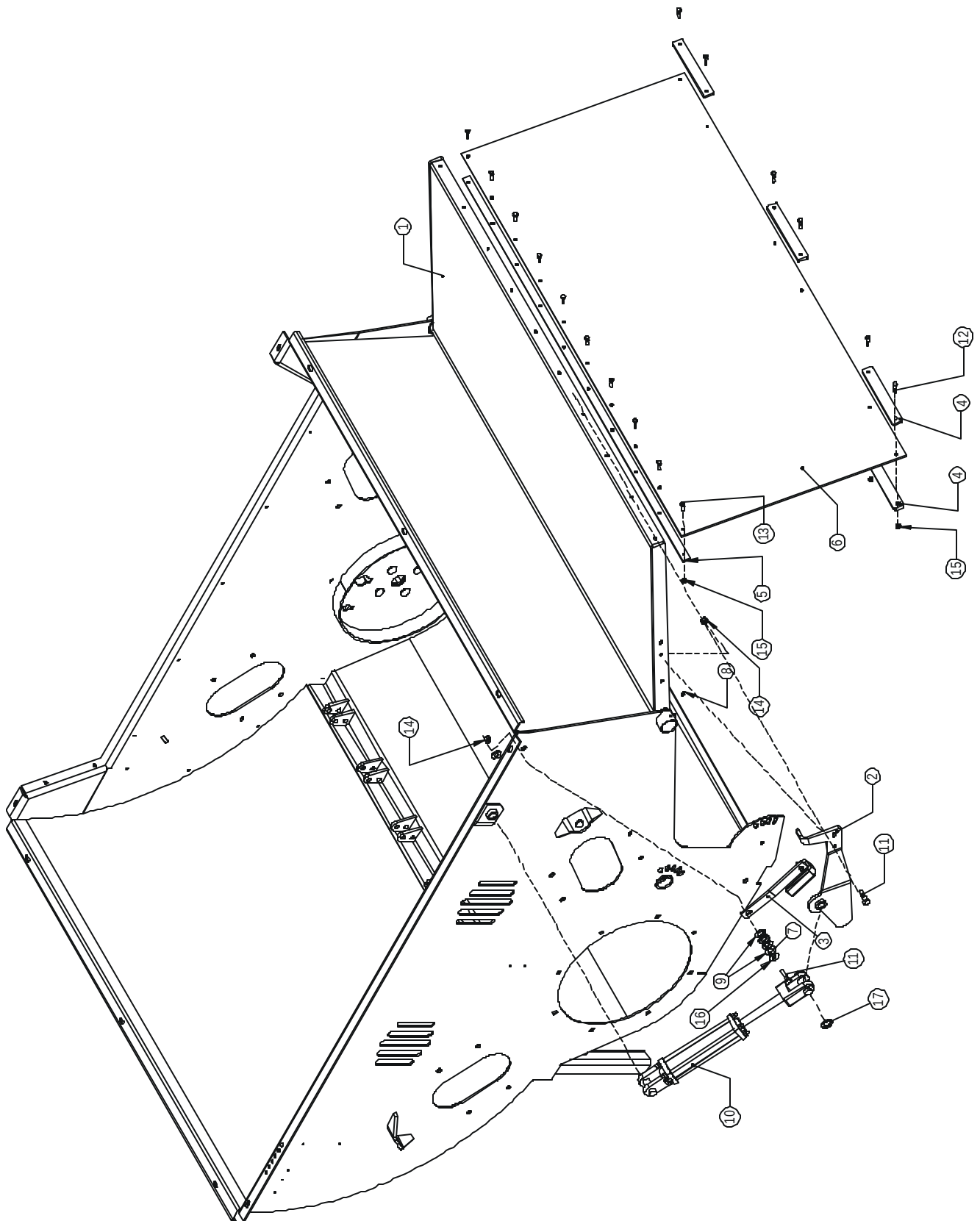
4.5 HDR Flail Guard Rod Assembly (Part No. 49302)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49101	HANDLE, ADJ, ROD, FLAIL	1
2	49108	GUARD, FLAIL	6
3	49235	BAR,ADJ,GUARD,FLAIL,HDR	1
4	49396	PIN, ADJUSTMENT,ROD,FLAIL,HDR	1
5	31668	WASHER,SPRING,3/4,342	4
6	92127	COVER,VINYL,3/8X1-1/2	1
7	31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	1
8	31058	BOLT,HEX,9/16X3-1/2,UNC,GR5,ZP	12
9	31009	BOLT,CARR,1/2X2,UNC,GR5,ZP	1
10	30611	NUT,NYLOCK,JAM,1/2,UNC,ZP	1
11	31173	NUT,NYLOCK,1/2,UNC,ZP	1
12	31179	NUT,NYLOCK,9/16,UNC,ZP	12
13	31236	WASHER,FLAT,1/2,ZP	1
14	31242	WASHER,FLAT,9/16,ZP	12



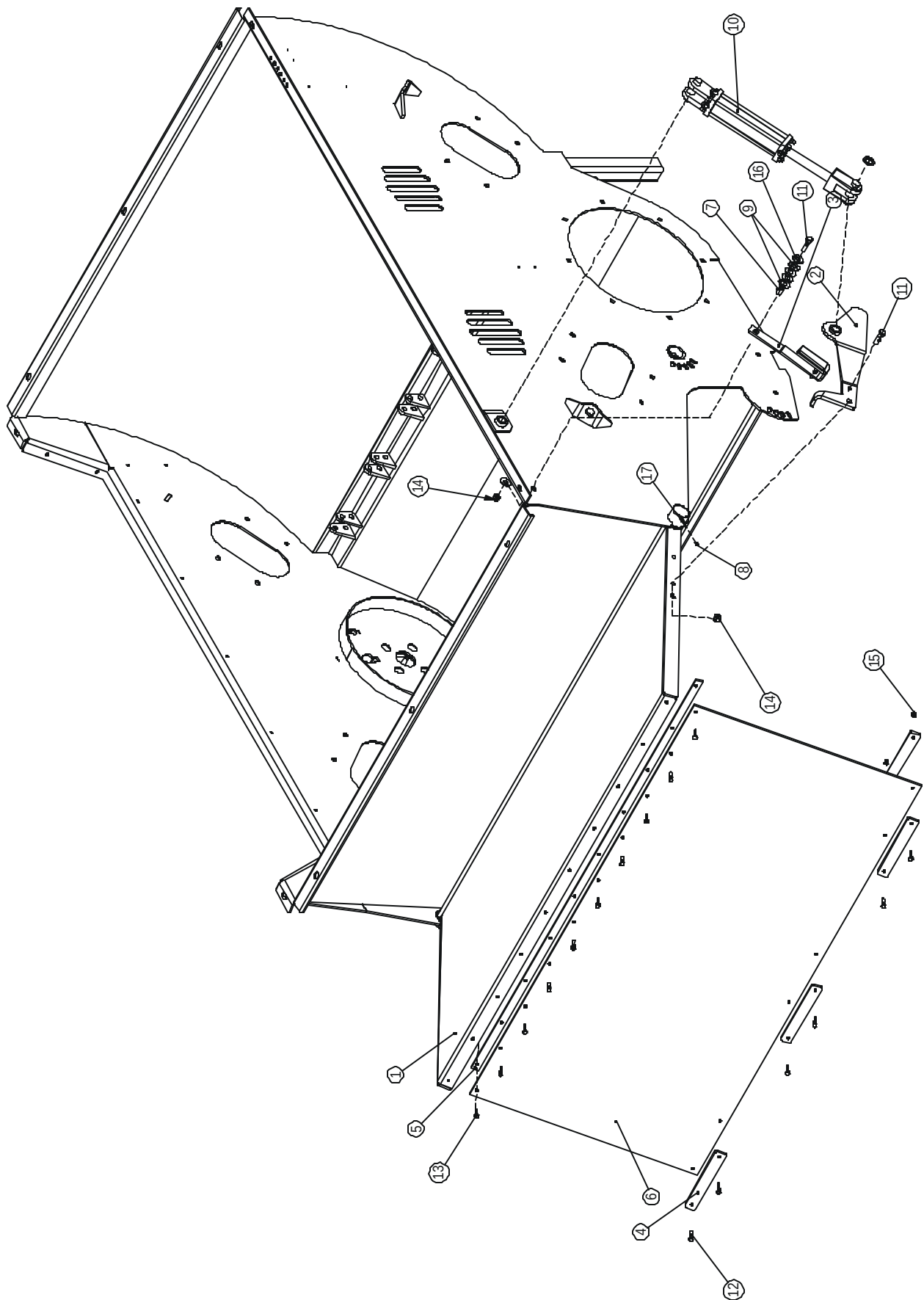
4.6 HD Top Discharge Door Assembly (Part No. 49287)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49365	WLDT,DOOR,DISCHARGE	1
2	49367	WLDT,PIN,DOOR,FRONT	1
3	49368	WLDT,LOCK,DOOR	1
4	E3003	PLT,WEIGHT,BELTING	6
5	E5017	PLT,RETAINING,BELTING	1
6	E5018	BELTING,DISCHARGE	1
7	E6188	PIPE,SMLS,3/4x.120x13/16L	1
8	30207	ZERK,1/4-28,GF641,STRAIGHT	1
9	31668	WASHER,SPRING,3/4,342	4
10	90104	Hyd,Cyl,2X8,1.125,8FB	1
11	31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	2
12	31046	BOLT,HEX,5/16X1-1/2,UNC,GR5,ZP	6
13	31443	BOLT,HEX,5/16X1-1/4,UNC,GR5,ZP	10
14	31173	NUT,NYLOCK,1/2,UNC,ZP	2
15	31177	NUT,NYLOCK,5/16,UNC,ZP	16
16	31236	WASHER,FLAT,1/2,ZP	2
17	32070	BUSHING,MACHINE,10GAx1"x1-1/2"	1



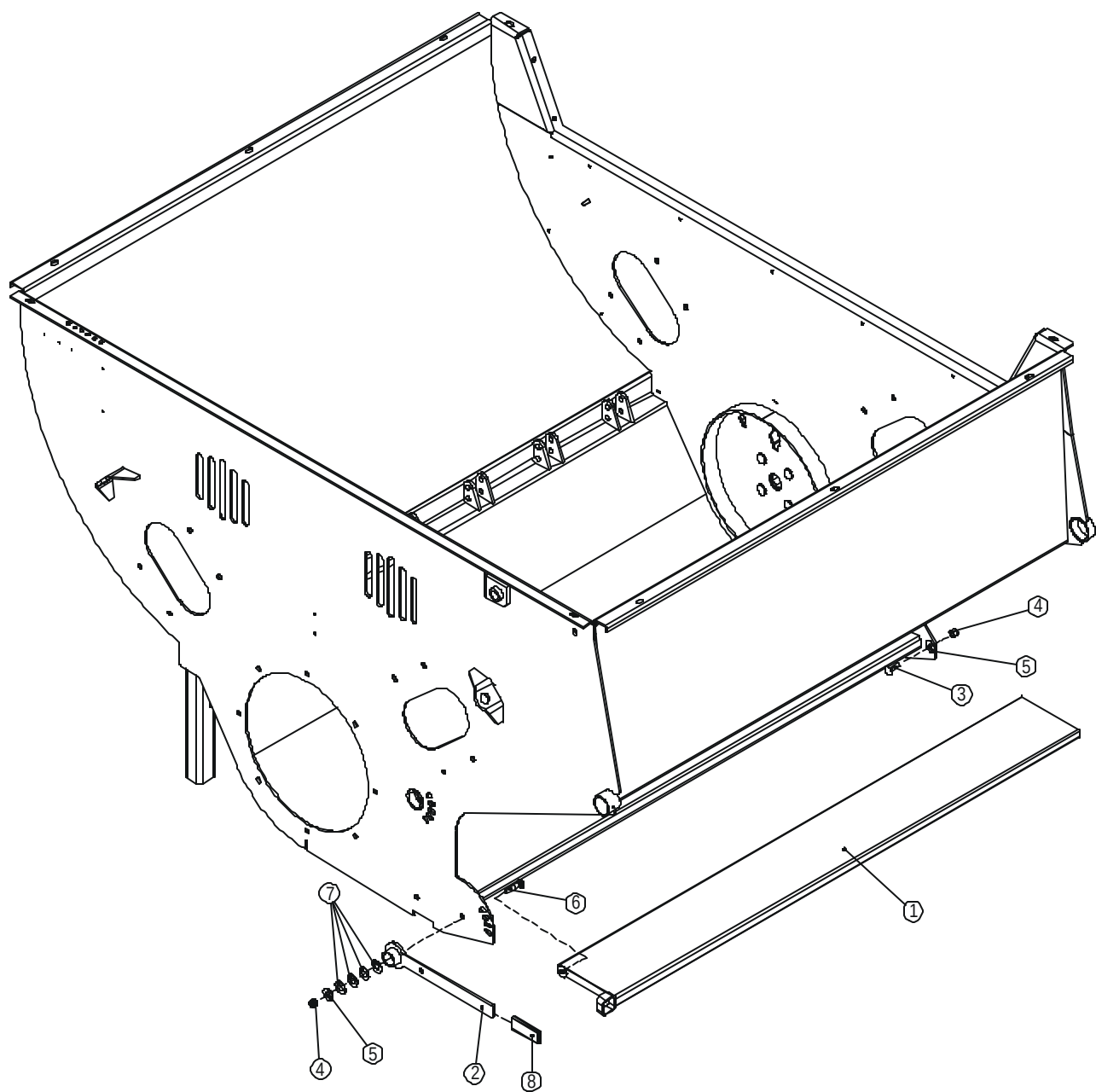
4.6 HDR Top Discharge Door Assembly (Part No. 49304)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49310	WLDT,DOOR,DISCHARGE,HDR	1
2	49311	WLDT,PIN,DOOR,FRONT	1
3	49368	WLDT,LOCK,DOOR	1
4	E3003	PLT,WEIGHT,BELTING	6
5	E5017	PLT,RETAINING,BELTING	1
6	E5018	BELTING,DISCHARGE	1
7	E6188	PIPE,SMLS,3/4x.120x7/8L	1
8	30207	ZERK,1/4-28,GF641,STRAIGHT	1
9	31668	WASHER,SPRING,3/4,342	4
10	90104	Hyd,Cyl,2X8,1.125,8FB	1
11	31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	2
12	31046	BOLT,HEX,5/16X1-1/2,UNC,GR5,ZP	6
13	31443	BOLT,HEX,5/16X1-1/4,UNC,GR5,ZP	10
14	31173	NUT,NYLOCK,1/2,UNC,ZP	2
15	31177	NUT,NYLOCK,5/16,UNC,ZP	16
16	31236	WASHER,FLAT,1/2,ZP	2
17	32070	BUSHING,MACHINE,10GAx1"x1-1/2"	1



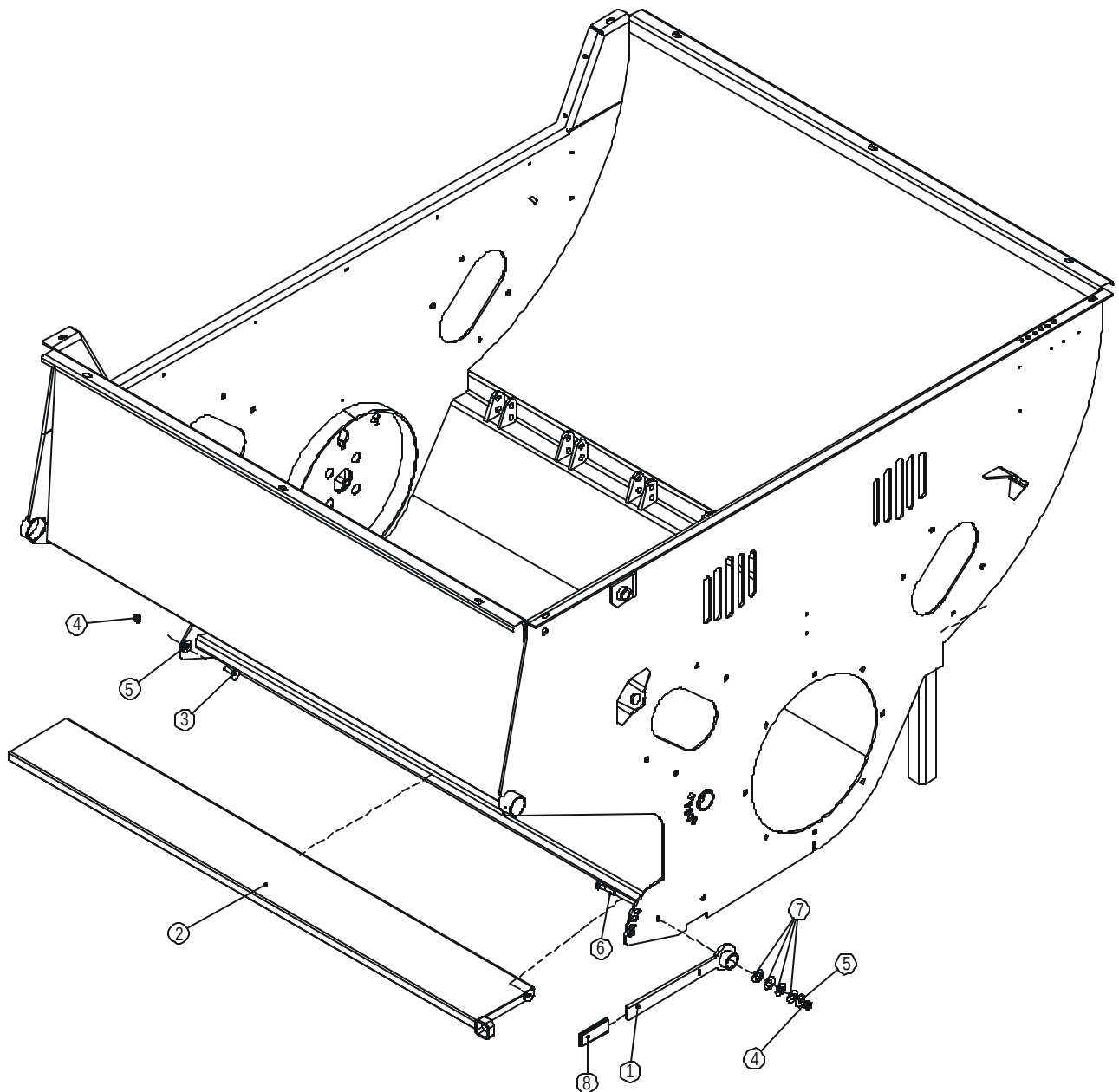
4.7 HD Bottom Discharge Door Assembly (Part No. 49181)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49099	DOOR, DISCHARGE, BOTTOM	1
2	49102	HANDLE, DEFLECTOR, BOTTOM	1
3	31008	BOLT, CARR, 1/2X1-1/2, UNC, GR5, ZP	1
4	31173	NUT, NYLOCK, 1/2, UNC, ZP	2
5	31236	WASHER, FLAT, 1/2, ZP	3
6	31431	BOLT, CARR, 1/2X2-1/4, UNC, GR5, ZP	1
7	31668	WASHER, SPRING, 3/4, 342	4
8	92127	COVER, VINYL, 3/8X1-1/2	1



4.7 HDR Bottom Discharge Door Assembly (Part No. 49303)

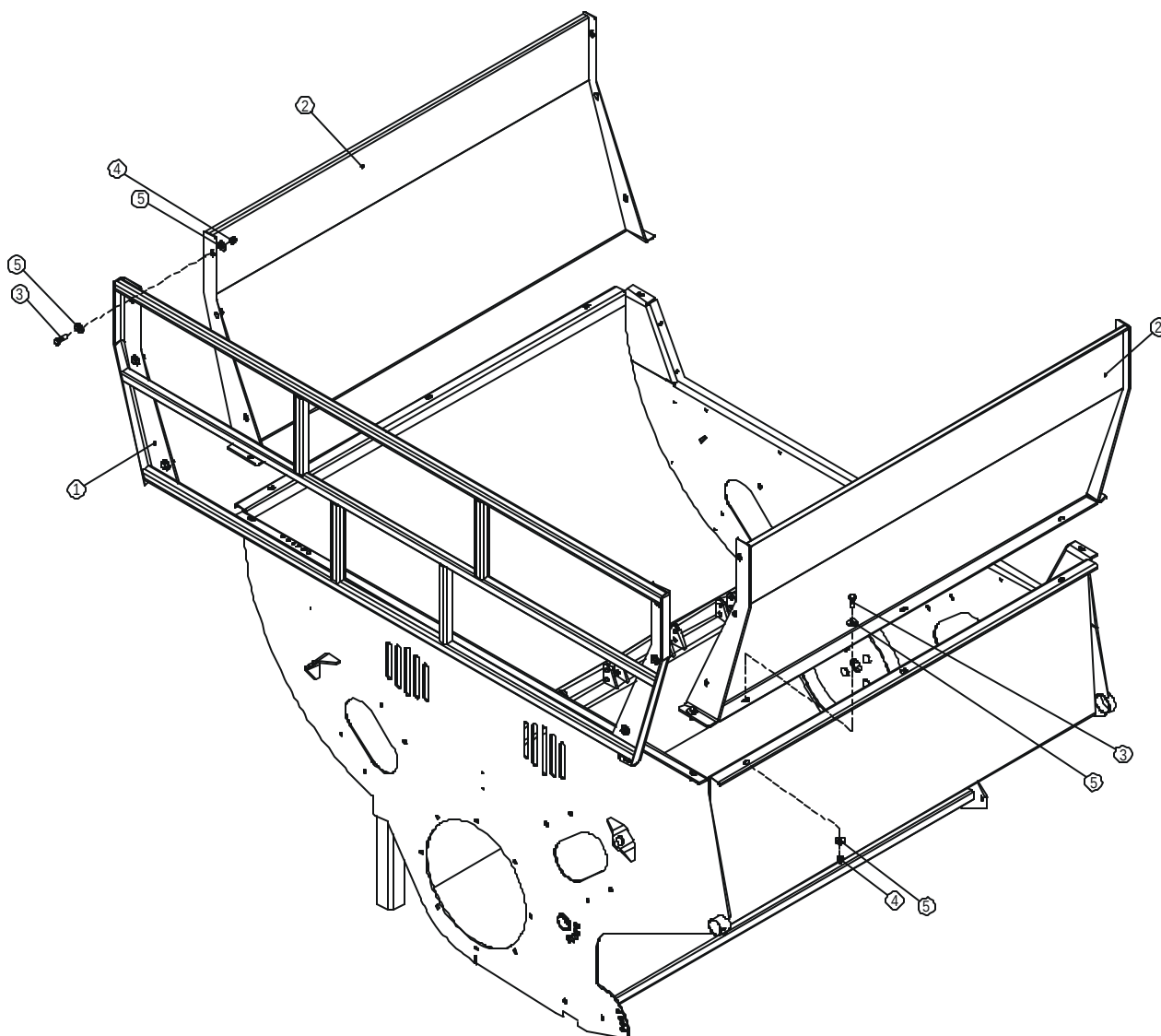
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49102	HANDLE, DEFLECTOR, BOTTOM	1
2	49236	DOOR,DISCHARGE,BOTTOM,HDR	1
3	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	1
4	31173	NUT,NYLOCK,1/2,UNC,ZP	2
5	31236	WASHER,FLAT,1/2,ZP	3
6	31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	1
7	31668	WASHER,SPRING,3/4,342	4
8	92127	COVER,VINYL,3/8X1-1/2	1



4.8 Bale Deflector and Spill Screen Assembly (Part No. 49180)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49007	SCREEN, SPILL	1
2	49014	DEFLECTOR, BALE	2
3	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	16
4	31173	NUT,NYLOCK,1/2,UNC,ZP	16
5	31236	WASHER,FLAT,1/2,ZP	32

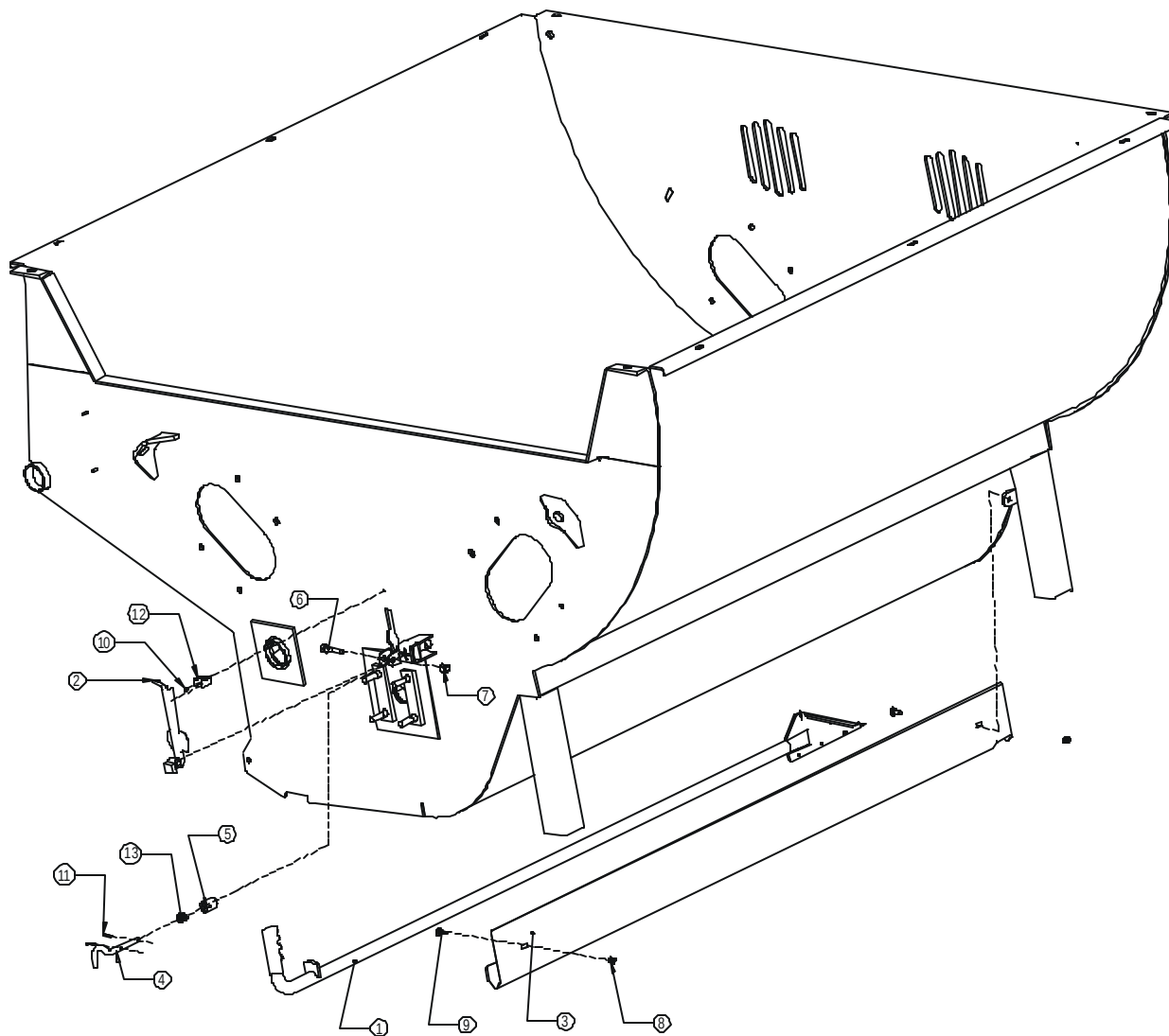
* Mesh not shown on Spill Screen



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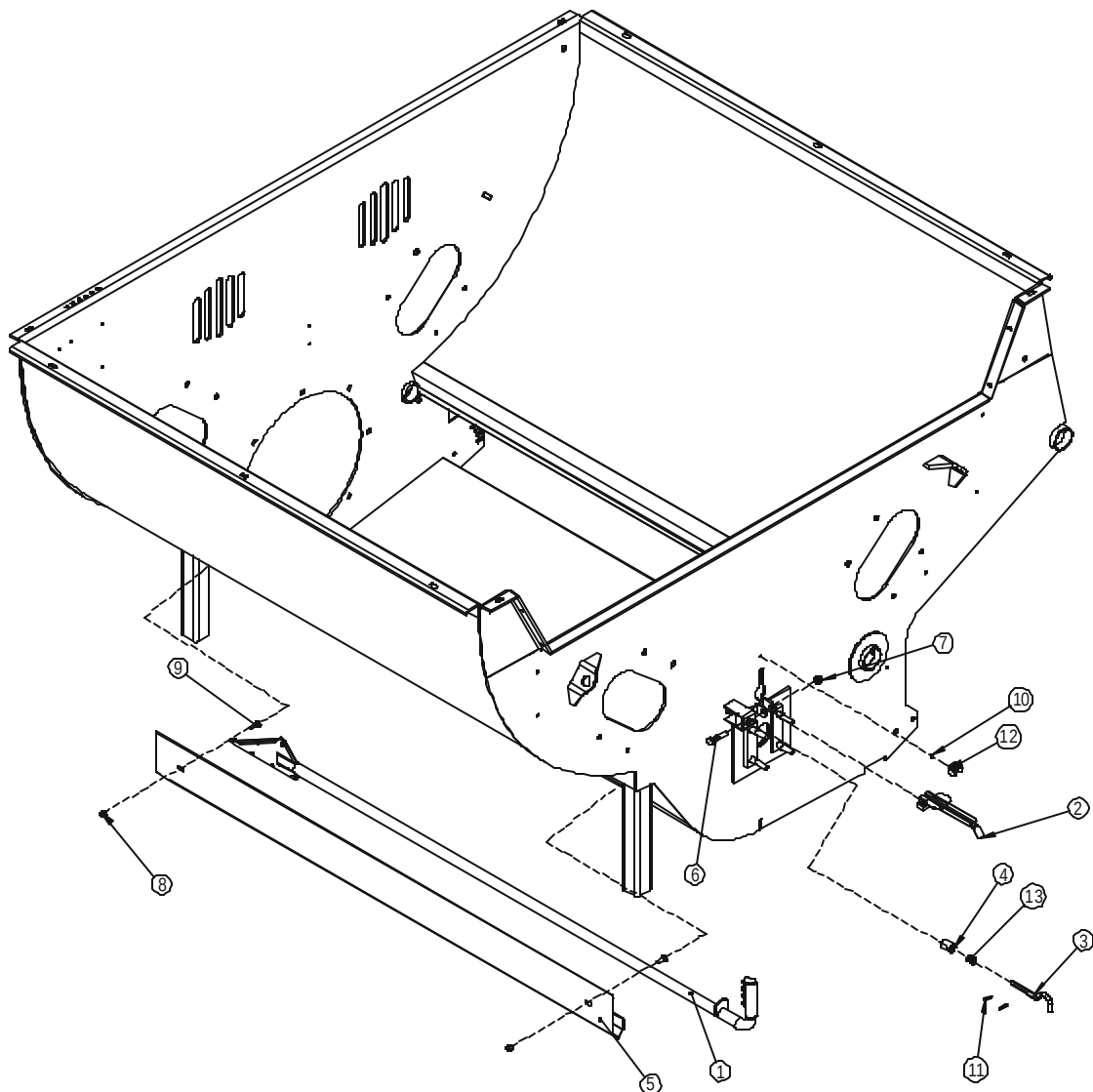
4.9 HD Twine Cutter Assembly (Part No. 49288)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49165	CUTTER,TWINE,COMPLETE	1
2	49285	WLDT, COVER,CUTTER	1
3	E5845	SHT,HOLDER,TWINE CUTTER	1
4	E5848	LOCK,HANDLE,DRUM,FLAIL	1
5	E5850	LOCK,DRUM,FLAIL	1
6	31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	1
7	31173	NUT,NYLOCK,1/2,UNC,ZP	1
8	31176	NUT,NYLOCK,3/8,UNC,ZP	2
9	31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	2
10	31739	RIVET,ST,3/16x.565,.375 HEAD	1
11	31805	PIN,SPRING,3/16X1-1/2	2
12	31814	CLIP,GRIPPER,1 - 1-1/2	1
13	31860	SPRING,COMPRESSION, 3/4x1-7/8"	1



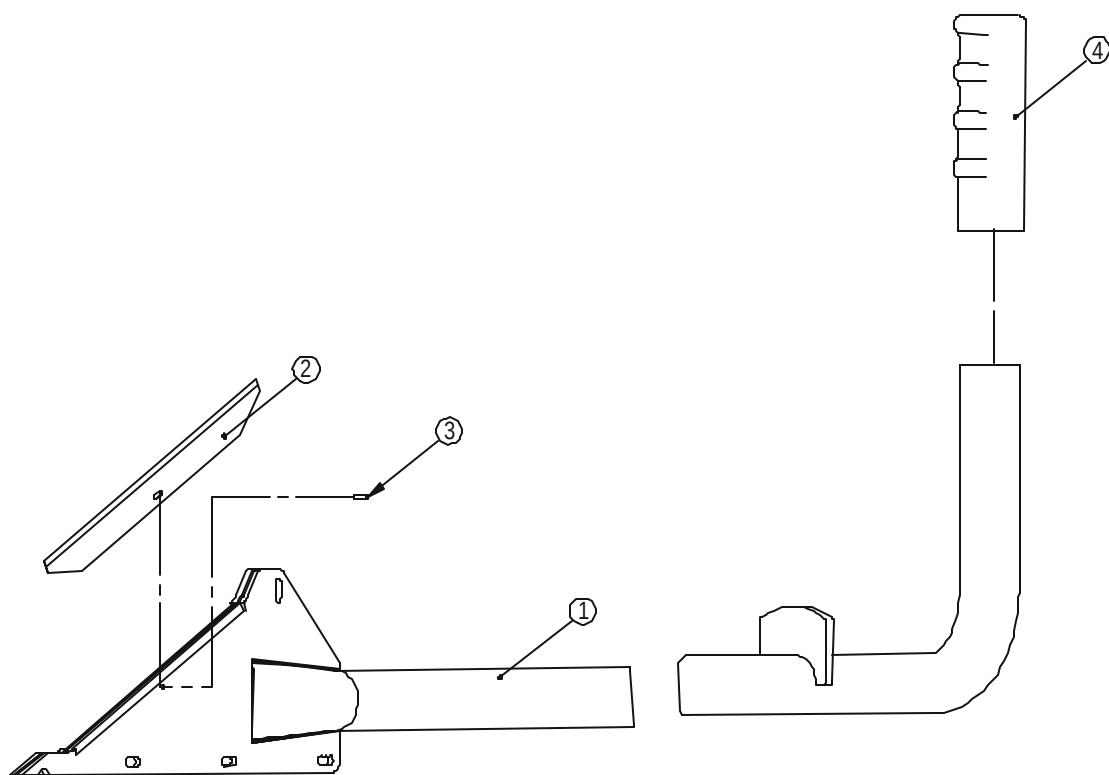
4.9 HDR Twine Cutter Assembly (Part No. 49306)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49165	CUTTER,TWINE,COMPLETE	1
2	49285	WLDT, COVER,CUTTER	1
3	E5848	LOCK,HANDLE,DRUM,FLAIL	1
4	E5850	LOCK,DRUM,FLAIL	1
5	E6142	SHT,HOLDER,TWINE CUTTER,HDR	1
6	31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	1
7	31173	NUT,NYLOCK,1/2,UNC,ZP	1
8	31176	NUT,NYLOCK,3/8,UNC,ZP	2
9	31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	2
10	31739	RIVET,ST,3/16x.565,.375 HEAD	1
11	31805	PIN,SPRING,3/16x1	2
12	31814	CLIP,GRIPPER,1 - 1-1/2	1
13	31860	SPRING,COMPRESSION, 3/4x1-7/8"	1



4.9.1 Twine Cutter Tool Assembly (Part No. 49165)

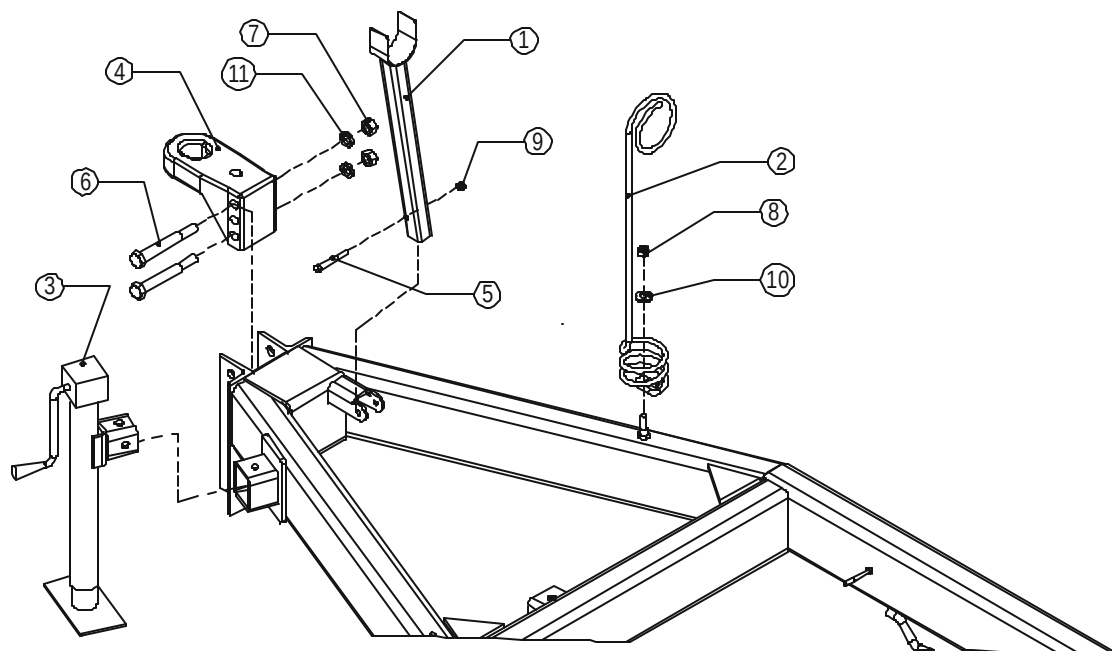
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49164	CUTTER,TWINE	1
2	E5838	BLADE,TWINE CUTTER	1
3	31809	PIN,SPRING,3/32X5/16	1
4	31810	GRIP,HANDLE,1-1/4IDX4-1/2	1



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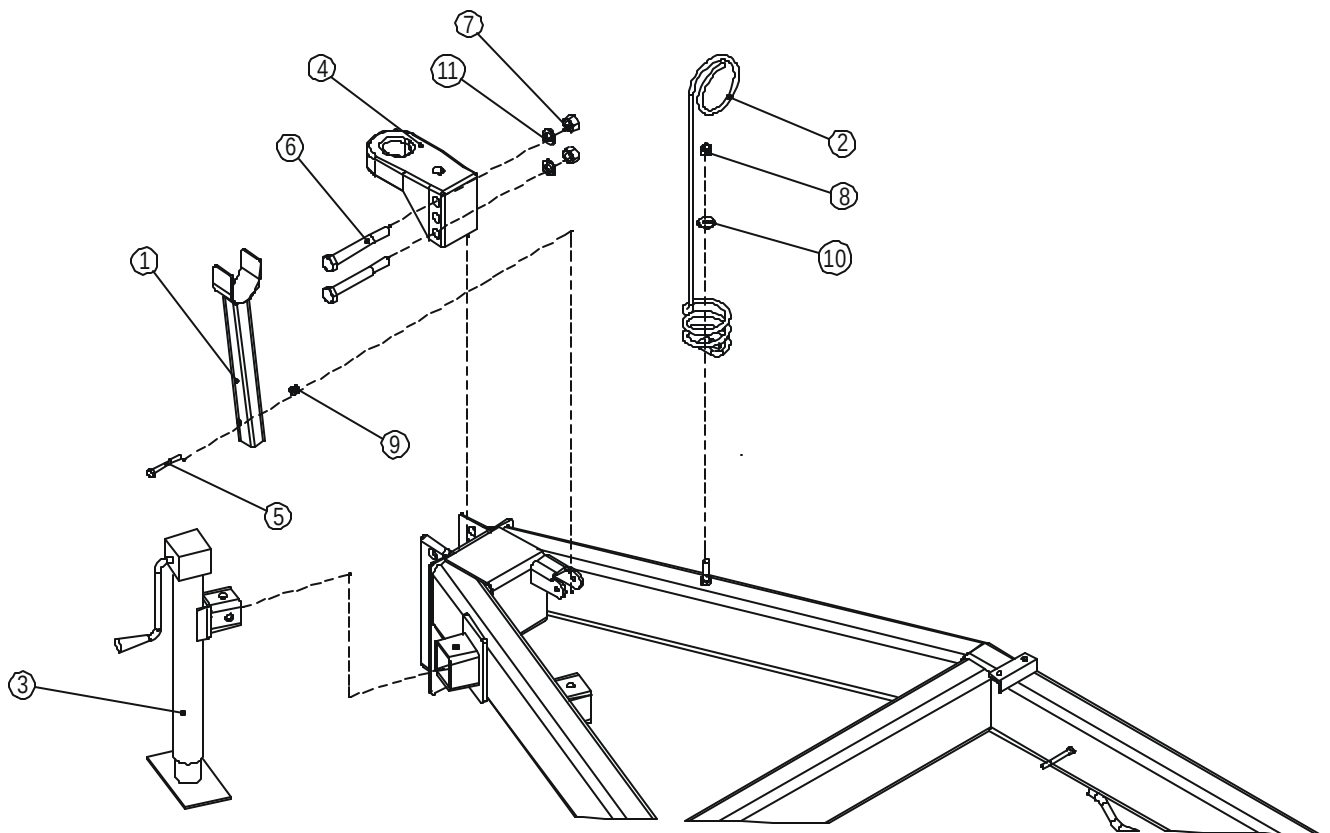
4.10 HD Hitch and Jack Assembly (Part No. 49289)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49020	SUPPORT, CV	1
2	30206	HYD,HOLDER,HOSE,1/2	1
3	31800	JACK,5000LBX15,SQ MNT,SIDEWIND	1
4	31861	HITCH,BASE,3 IN 1	1
5	30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	1
6	31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	2
7	31167	NUT,HEX,3/4,UNC,GR5,ZP	2
8	31173	NUT,NYLOCK,1/2,UNC,ZP	1
9	31176	NUT,NYLOCK,3/8,UNC,ZP	1
10	31236	WASHER,FLAT,1/2,ZP	1
11	31246	WASHER,LOCK,3/4,ZP	2



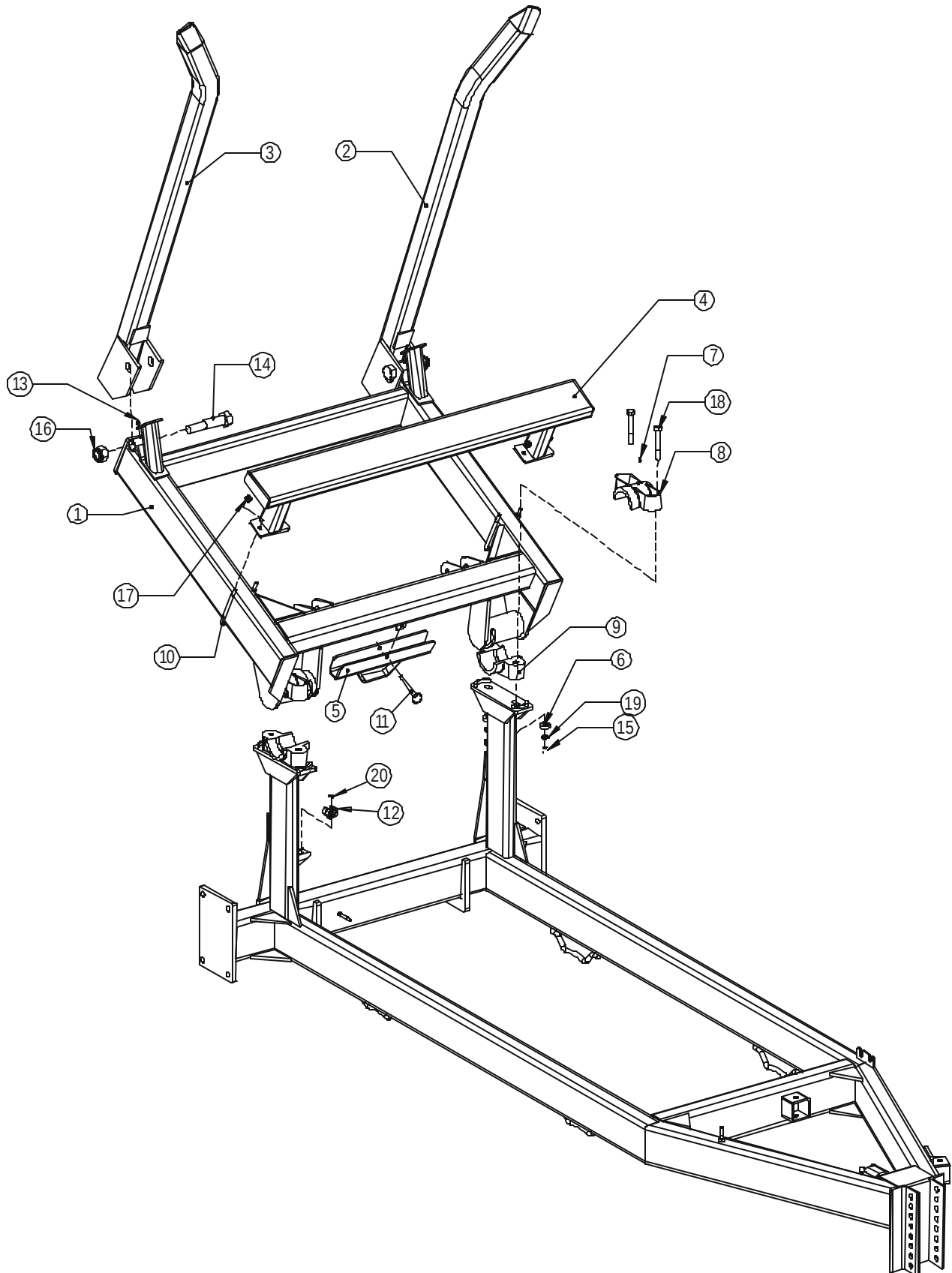
4.10 HDR Hitch and Jack Assembly (Part No. 49312)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49437	WLDT,CV HOLDER,HDR	1
2	30206	HYD,HOLDER,HOSE,1/2	1
3	31800	JACK,5000LBX15,SQ MNT,SIDEWIND	1
4	31861	HITCH,BASE, 3 IN 1	1
5	30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	1
6	31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	2
7	31167	NUT,HEX,3/4,UNC,GR5,ZP	2
8	31173	NUT,NYLOCK,1/2,UNC,ZP	1
9	31176	NUT,NYLOCK,3/8,UNC,ZP	1
10	31236	WASHER,FLAT,1/2,ZP	1
11	31246	WASHER,LOCK,3/4,ZP	2



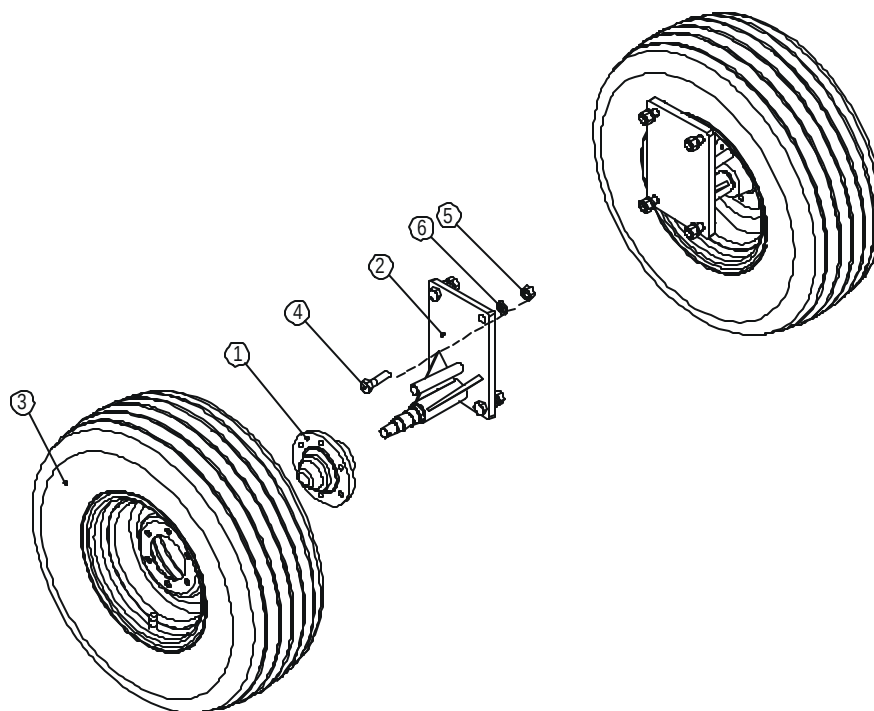
4.11 Cart,Dump Assembly (Part No. 49291 and HDR 49313)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45192	DUMP	1
2	49093	FORK, LEFT	1
3	49094	FORK, RIGHT	1
4	49095	BUMPER	1
5	49196	LOCK,CYLINDER,DUMP	1
6	E3276	PLT,C,3/8X11/16X1-1/2	4
7	30207	ZERK,1/4-28,GF641,STRAIGHT	2
8	30230	CLAMP,PIPE, TOP	2
9	30231	CLAMP, PIPE, BOTTOM	2
10	31061	BOLT,U,SQ,1/2-13,3X7,1-1/4 THREAD	2
11	31813	PIN,QUICK RELEASE,1/2X3,ZP	1
12	31814	CLIP,GRIPPER,1 - 1-1/2	2
13	91703	ZERK,1/4-28 X 45 °	2
14	31034	BOLT,HEX,1-1/4X6,UNC,GR5,ZP	2
15	31169	NUT,STOVER,5/8,UNC,GR5,ZP	4
16	31171	NUT,NYLOCK,1-1/4,UNC,ZP	2
17	31173	NUT,NYLOCK,1/2,UNC,ZP	4
18	31205	BOLT,HEX,5/8X4-1/2,UNC,GR8,ZP	4
19	31218	WASHER,LOCK,5/8,ZP	4
20	31739	RIVET,ST,3/16x.565,.375 HEAD	2

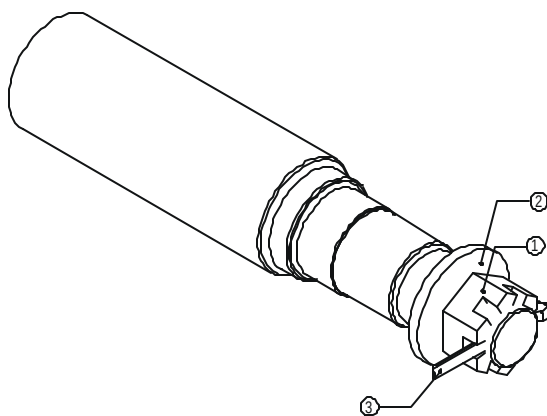


4.12 Standard Tire Assembly (Part No. BPOST-A)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45224	SUSP,HUB,H611,3600lbs	2
2	49022	AXLE	2
3	49089	WHEEL,COMPLETE,BP, OFF-WHITE	2
4	31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	8
5	31167	NUT,HEX,3/4,UNC,GR5,ZP	8
6	31246	WASHER,LOCK,3/4,ZP	8

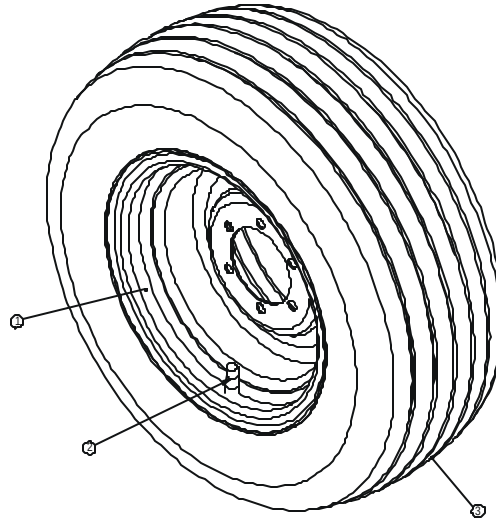
**4.12.1 Spindle Assembly (Part No. 45225)**

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

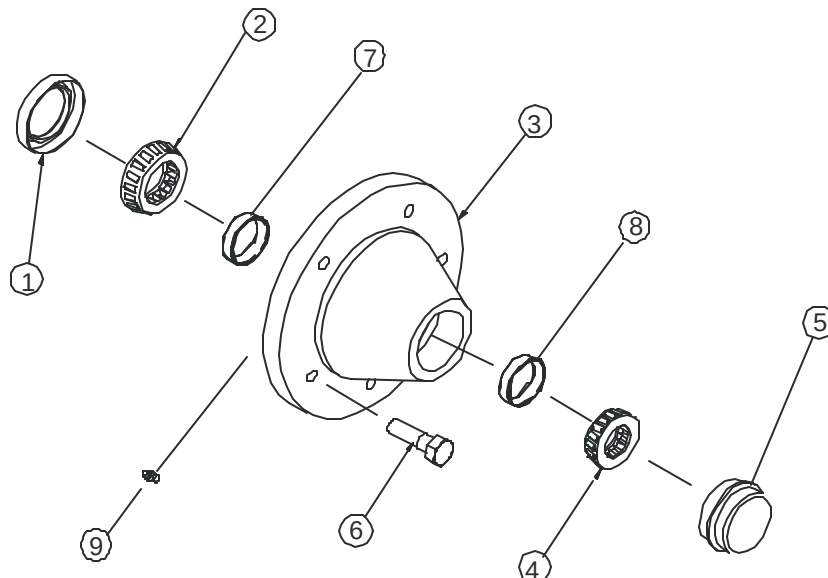


4.12.2 Standard Tire (Part No. 49089)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45223	SUSP,WHEEL,15X9LB,1.12OFF,6	1
2	91048	SUSP,STEM,VALVE,TR415	1
2	45222	SUSP,TIRE,11LX15FI	1

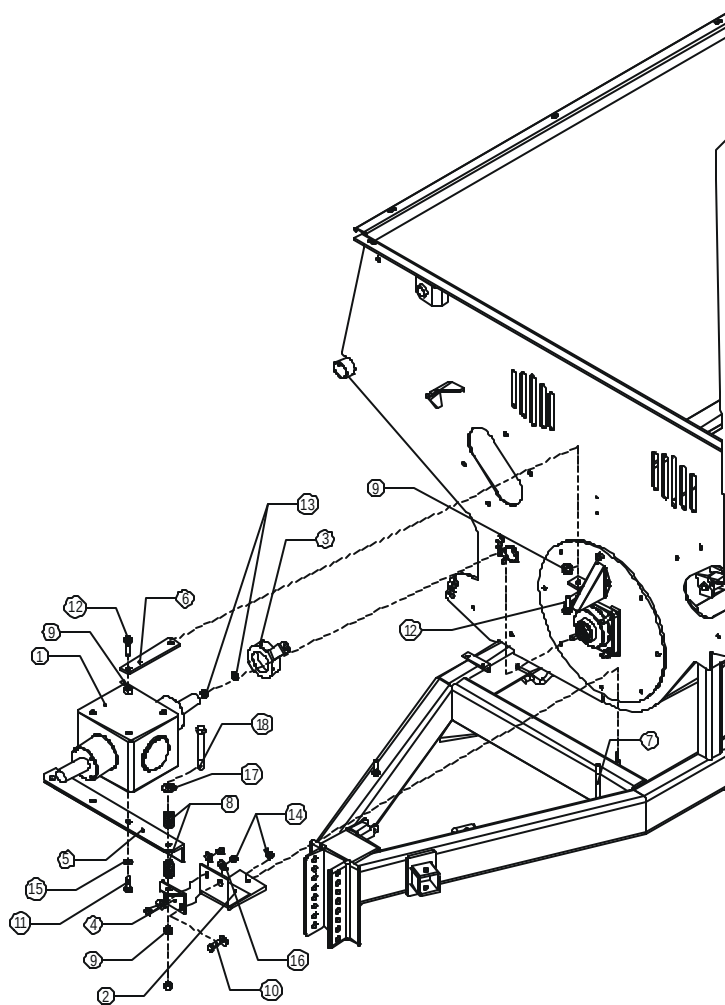
**4.12.3 Hub Assembly (Part No. 45224)**

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,1/2x1-1/4x1-3/4L	6
7	91150	SUSP,BRG,RACE,LM29710	1
8	91130	SUSP,BRG,RACE,LM67010	1
9	30207	ZERK,1/4-28,GF641,STRAIGHT	1



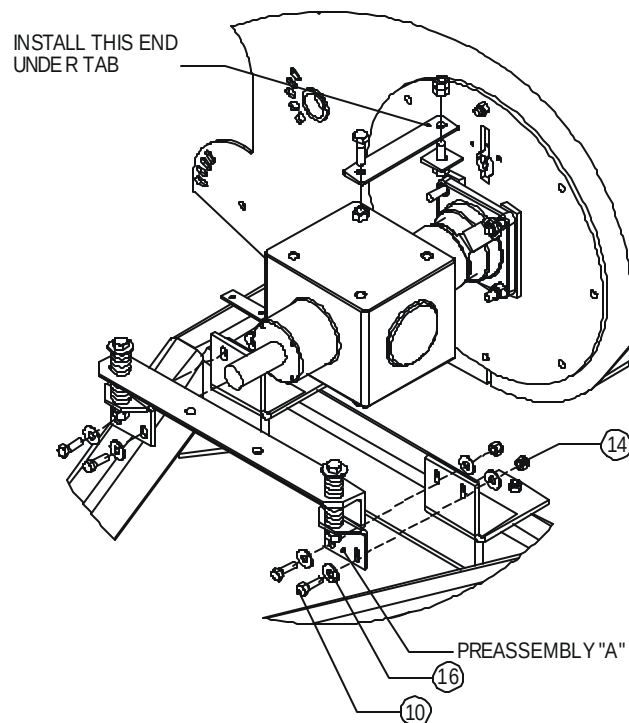
4.13 HDR Gearbox Installation (Part No. 49318)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49449	DRV, GEARBOX, INLINE REV, 1:1	1
2	49500	WLDT, GEARBOX, MOUNT, HDR	2
3	49550	WLDT, GUARD, SHAFT, GEARBOX	1
4	E6282	PLT, ANGLE, MOUNT, GEARBOX	2
5	E6283	ANGLE, MOUNT, GEARBOX	1
6	E6503	BAR, ANTIROTATION, GEARBOX	1
7	31061	BOLT, U, SQ, 1/2-13, 3X7, 1-1/4THREAD	2
8	32805	SPRING, CLUTCH, 6000	4
9	30236	NUT, HEX, 5/8, UNC, GR5, ZP	7
10	31016	BOLT, HEX, 1/2X1-1/2, UNC, GR5, ZP	4
11	31051	BOLT, HEX, 5/8X1-1/2, UNC, GR5, ZP	2
12	31052	BOLT, HEX, 5/8X2, UNC, GR5, ZP	2
13	31168	NUT, NYLOCK, JAM, 5/8, UNC, ZP	2
14	31173	NUT, NYLOCK, 1/2, UNC, ZP	8
15	31218	WASHER, LOCK, 5/8, ZP	2
16	31236	WASHER, FLAT, 1/2, ZP	8
17	31240	WASHER, FLAT, 5/8, ZP	2
18	31476	BOLT, HEX, 5/8X6, UNC, GR5, ZP	2



4.13.1 HDR Gearbox Installation Instructions

1. Install Item 3 on bearing housing. Use Item 12 (qty 2) to fasten it in place. Tighten securely.
2. Install gearbox shaft into internal spline as far as possible. ****Ensure that fill plug is facing up.****
3. Install Item 6 using fasteners Item 9 (qty 3) and 11 (qty 2). Use locking nuts to ensure that both ends of Item 6 are loose on these fasteners.
4. Pre-assemble Item 8 (qty 4) and Item 4 (qty 2) to Item 5 into Pre-assembly "A". Fasten with Item 18 (qty 2), 17 (qty 2), and 9 (qty 4). Tighten these fasteners until springs are compressed to 1-3/4". Install this Pre-assembly into the bottom of the gearbox using fasteners 11 (qty 2) and 15 (qty 2). Tighten these securely.
5. Install Item 2 (qty 2) on frame aligning its slots up with Item 4 slots in Pre-assembly "A". Fasten Item 2 (qty 2) to frame with Item 7 (qty 2) U-bolts and Item 14 nuts (qty 4). Tighten Item 2 brackets securely to frame.
6. Ensure gearbox box is level side to side on the frame.
7. Keeping box level install fasteners 10 (qty 4), 16 (qty 8), and 14 (qty 4) and tighten securely.
8. Loosen spring fasteners on full turn. Ensure that locking nuts are installed and tightened on Item 18.



GEARBOX INSTALLATION DETAIL

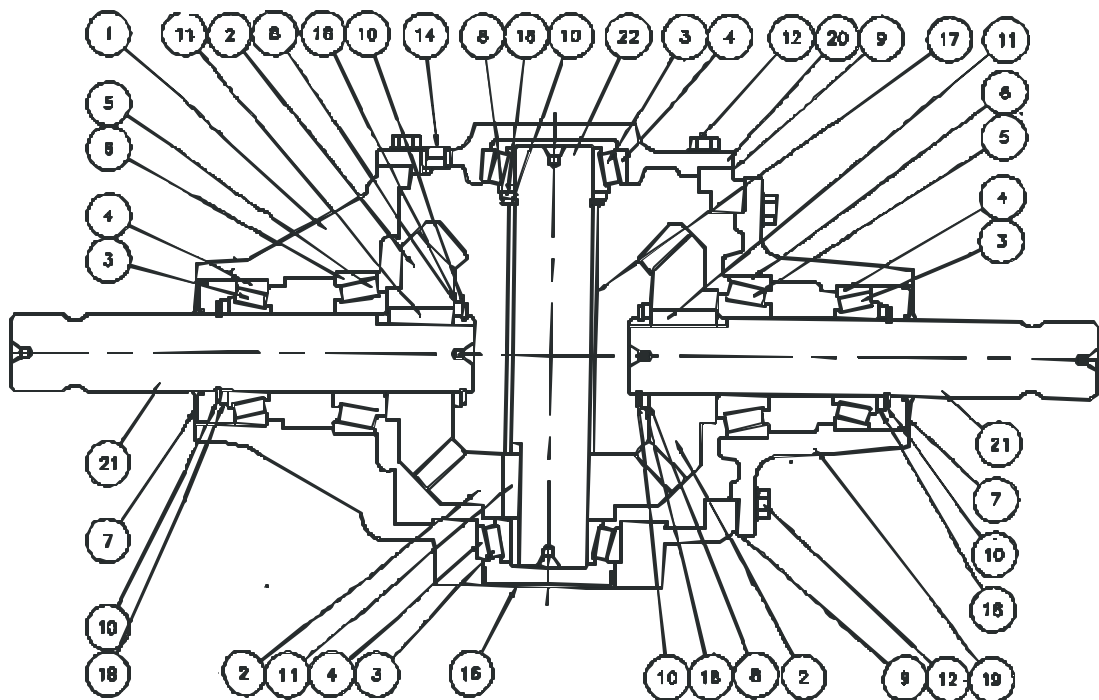
4.13.2 HDR Gearbox Assembly (Part No. 49449)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	33100	CASE-900	1
2	33101	GEAR-22T-1.75 BORE	3
3	33102	BEARING CONE	4
4	33103	BEARING CUP	4
5	33104	BEARING CONE	2
6	33105	BEARING CUP	2
7	33106	OIL SEAL-VITON	2
8	33107	SHIM-SHAFT	3
9	33108	SHIM-COVER	2
10	33109	SNAP RING	5
11	33110	KEY:3/8 SQ.	3
12	33111	BOLT:3/8-16 UNC x 1.00 GR 5	16
*13	33112	PLUG:1/2 NPT	1
14	33113	PLUG:3/8 NPT	1
*15	33114	VENT:1/2 NPT	1
16	33115	EXPANSION PLUG	1
17	33116	SPACER TUBE	1
18	33117	WASHER	5
19	33118	QUILL HOUSING	1
20	33119	COVER-CLOSED	1
21	33120	QUILL SHAFT	2
22	33121	THRU SHAFT	1

*Not Shown

SAE 80-90 gear oil. Fill to plug.

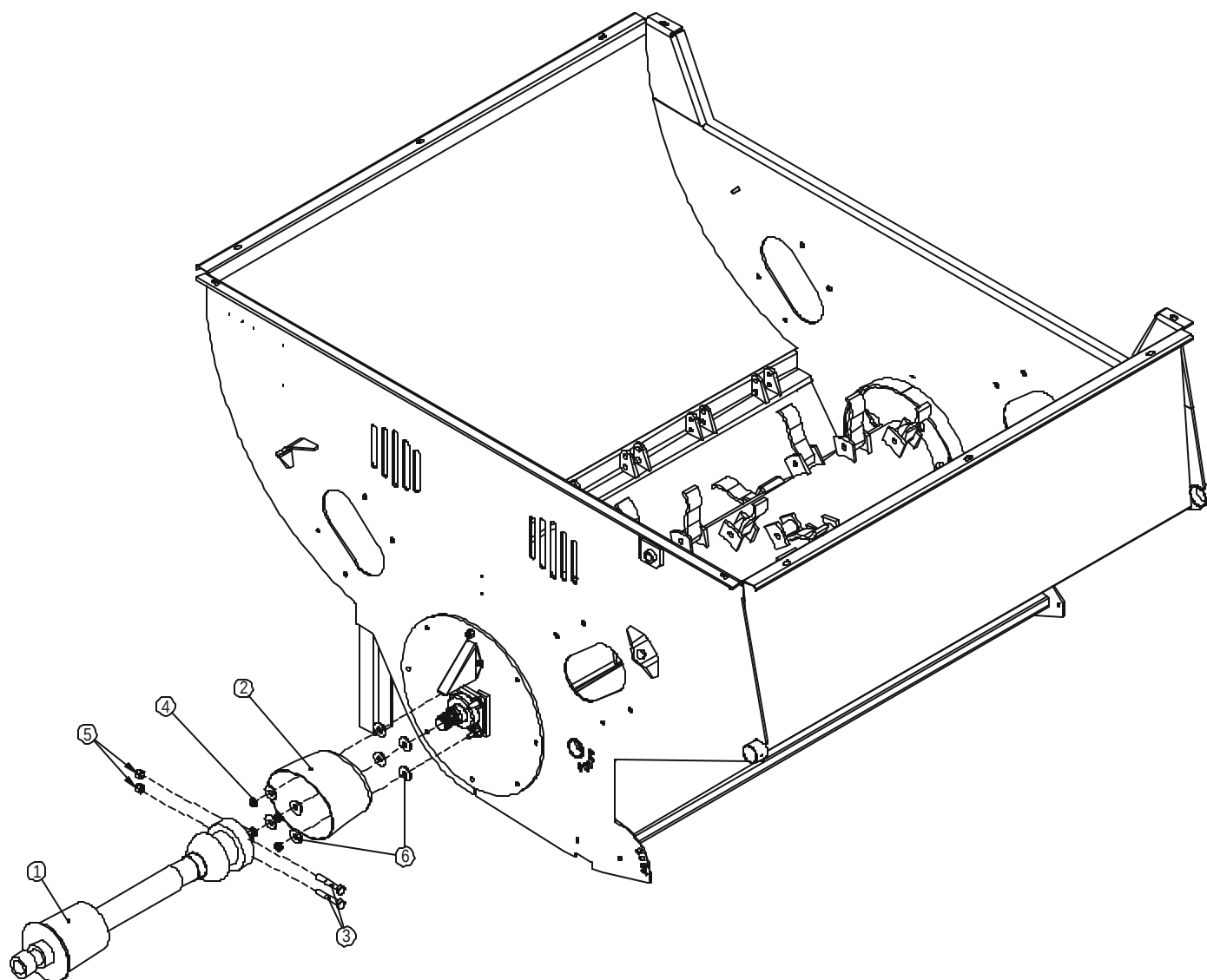
Oil fill volume is 2.5 Litres.



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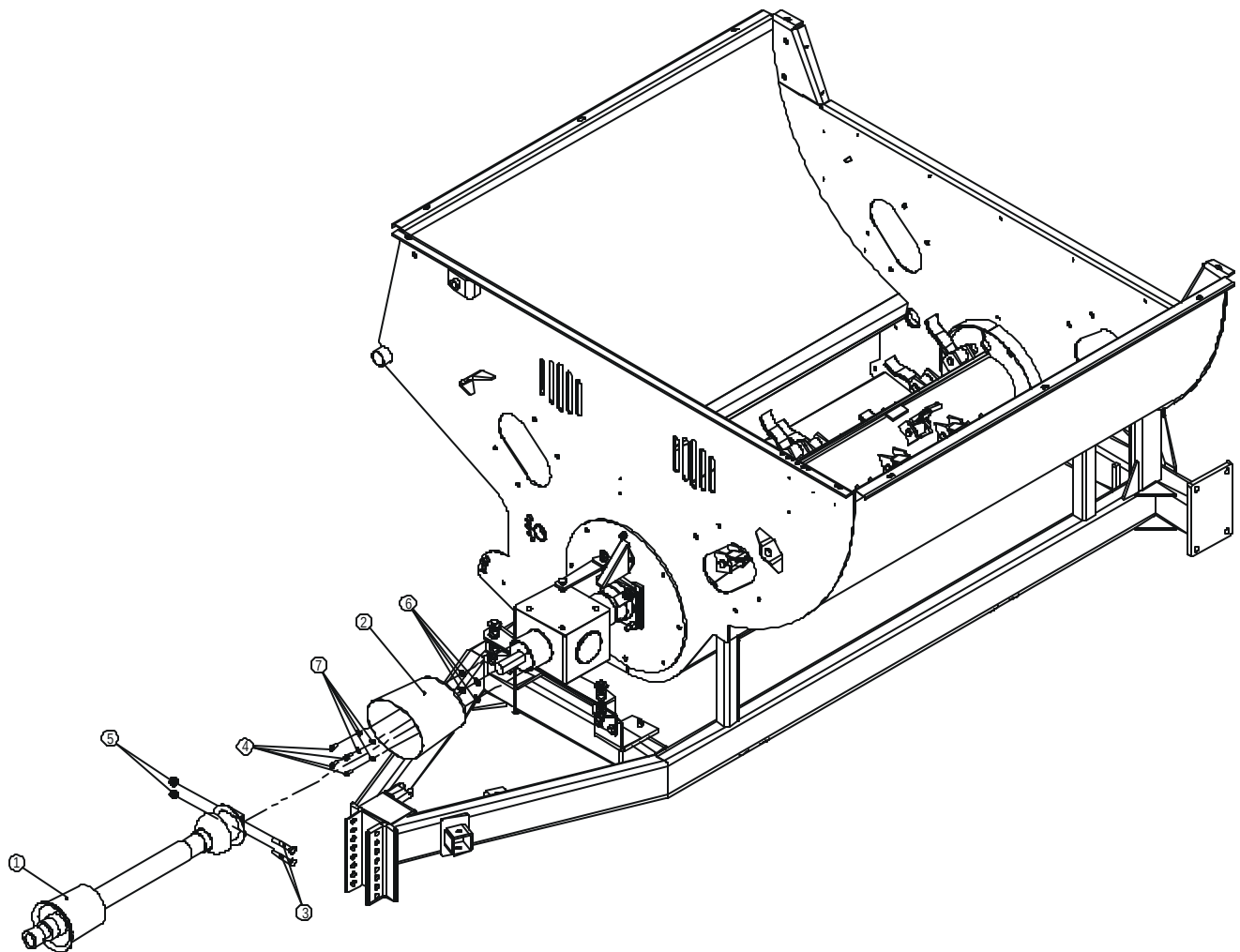
4.14 HD CV Installation (Part No. 49292)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45230	DRV,DL,35R,CV,CAT4,ROT	1
2	30284	DRV, GUARD, CV	1
3	31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	2
4	31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	4
5	31178	NUT,NYLOCK,5/8,UNC,ZP	2
6	31240	WASHER,FLAT,5/8,ZP	8



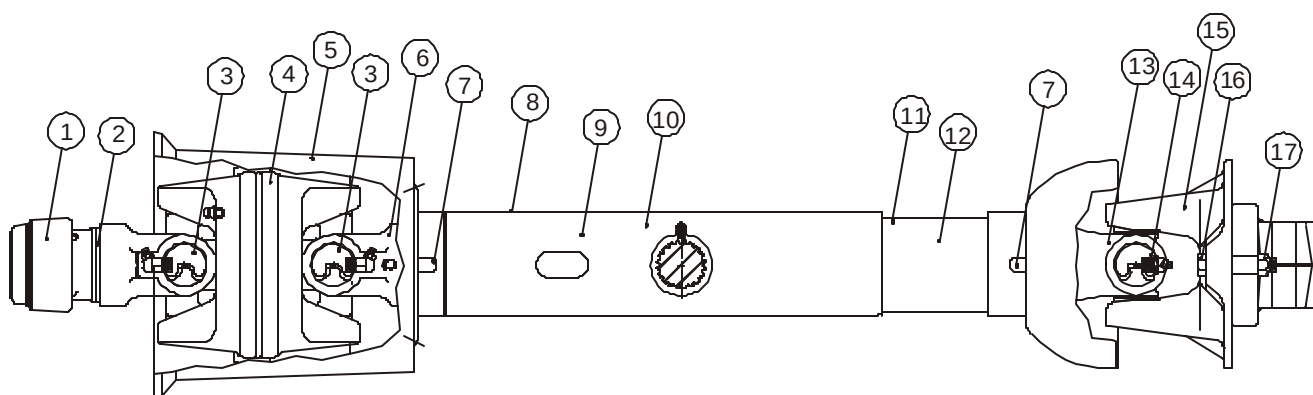
4.14 HDR CV Installation (Part No. 49373)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49450	DRV,DL,35R,CV,CAT4,ROT,30COM	1
2	E6508	DRV,GUARD,CV,HDR 7010	1
3	31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	2
4	31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	4
5	31178	NUT,NYLOCK,5/8,UNC,ZP	2
6	31351	WASHER,FLAT,3/8,ZP	4
7	31319	WASHER,LOCK,3/8,ZP	4



4.15 HD CV Assembly (Part No. 45230)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30352	AUTO LOCK REPAIR KIT	1
2	30353	AUTO LOCK YOKE ASSEMBLY	1
3	30354	CAT 4 80° CROSS AND BEARING	2
4	30355	CENTER HOUSING	1
5	30356	BELL EXTENSION (WITH CENTRALIZER)	1
6	30357	YOKE AND SHAFT	1
7	30358	NYLON REPAIR KIT	1
8	30359	SAFETY SIGN	1
9	30360	CENTRALIZER	1
10	30361	OUTER GUARD	1
11	30362	INNER GUARD	1
12	30363	SAFETY SIGN	1
13	30364	YOKE, TUBE AND SLIP SLEEVE	1
14	30365	35R CROSS AND BEARING KIT	1
15	30366	BALL SHEAR ASSEMBLY	1
16	30367	3/8" x 2" – 16 GR5 BOLT	1
17	30368	3/8" – 16 LOCKNUT	1

**IMPORTANT:**

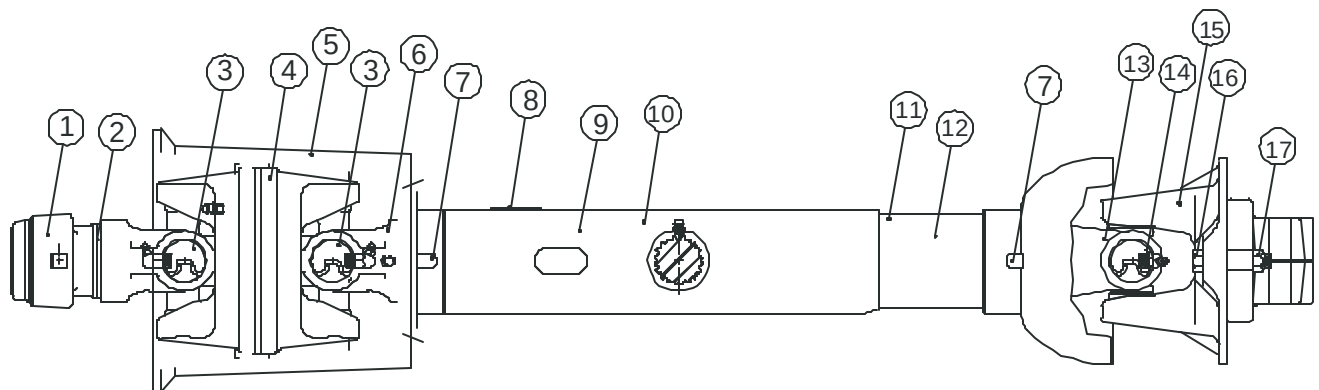
*Ensure that the drawbar on the tractor is extended so that the drawbar pin is 17" from the groove on the tractor's PTO.

**Ensure that the drawbar on the tractor is extended so that the drawbar pin is 15-1/2" from the groove on the tractor's PTO.

***Ensure that the drawbar on the tractor is extended so that the drawbar pin is 21-1/2" from the groove on the tractor's PTO.

4.15 HDR CV Assembly (Part No. 49450)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30352	AUTO LOCK REPAIR KIT	1
2	30353	AUTO LOCK YOKE ASSEMBLY	1
3	30354	CAT 4 80 DEGREE CROSS AND BEARING	2
4	30355	CENTER HOUSING	1
5	30356	BELL EXTENSION (W CENTRALIZER)	1
6	32987	YOKE & SHAFT	1
7	30358	NYLON REPAIR KIT	2
8	30359	SAFETY SIGN	1
9	30360	CENTRALIZER (NOT SHOWN)	1
10	32988	OUTER GUARD	1
11	32989	INNER GUARD	1
12	30363	SAFETY SIGN	1
13	32990	YOKE,TUBE, AND SLIP SLEEVE	1
14	30365	35R CROSS AND BEARING KIT	1
15	32991	BALL SHEAR ASSEMBLY	1
16	30367	3/8 x 2 HEX BOLT,UNC,GR5	1
17	30368	3/8 LOCKNUT,UNC,GR5	1

**IMPORTANT:**

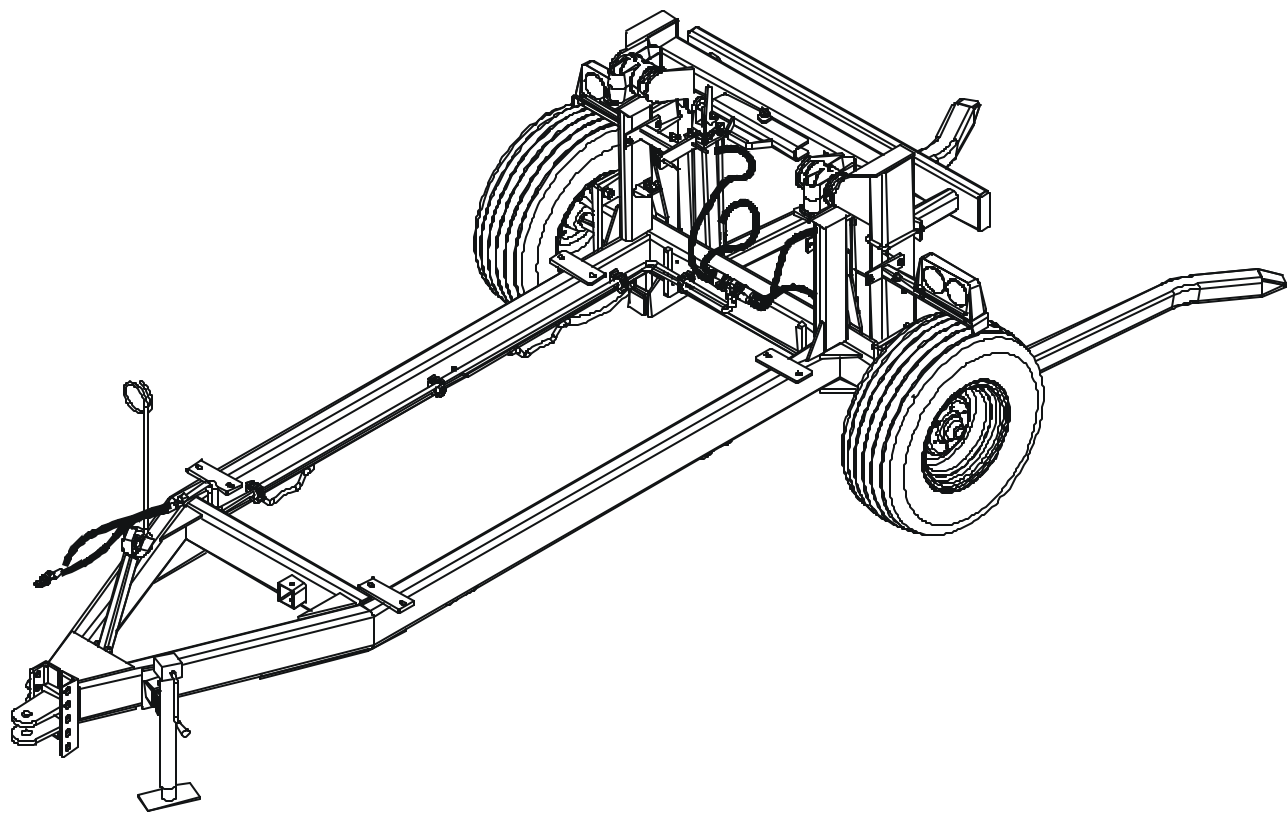
*Ensure that the drawbar on the tractor is extended so that the drawbar pin is 17" from the groove on the tractor's PTO.

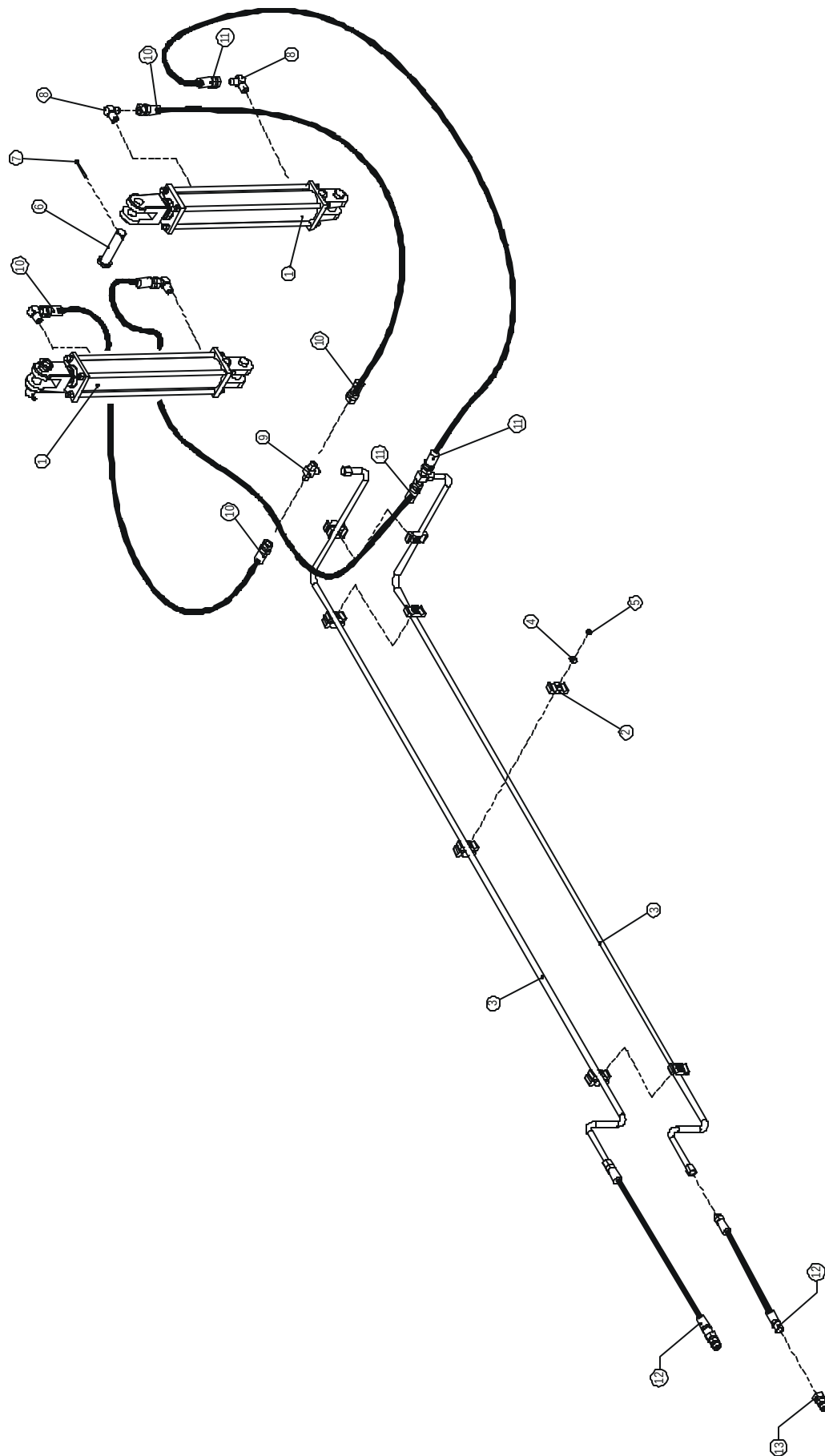
**Ensure that the drawbar on the tractor is extended so that the drawbar pin is 15-1/2" from the groove on the tractor's PTO.

***Ensure that the drawbar on the tractor is extended so that the drawbar pin is 21-1/2" from the groove on the tractor's PTO.

4.16 HD Cylinder Hydraulics (Part No. 49184)

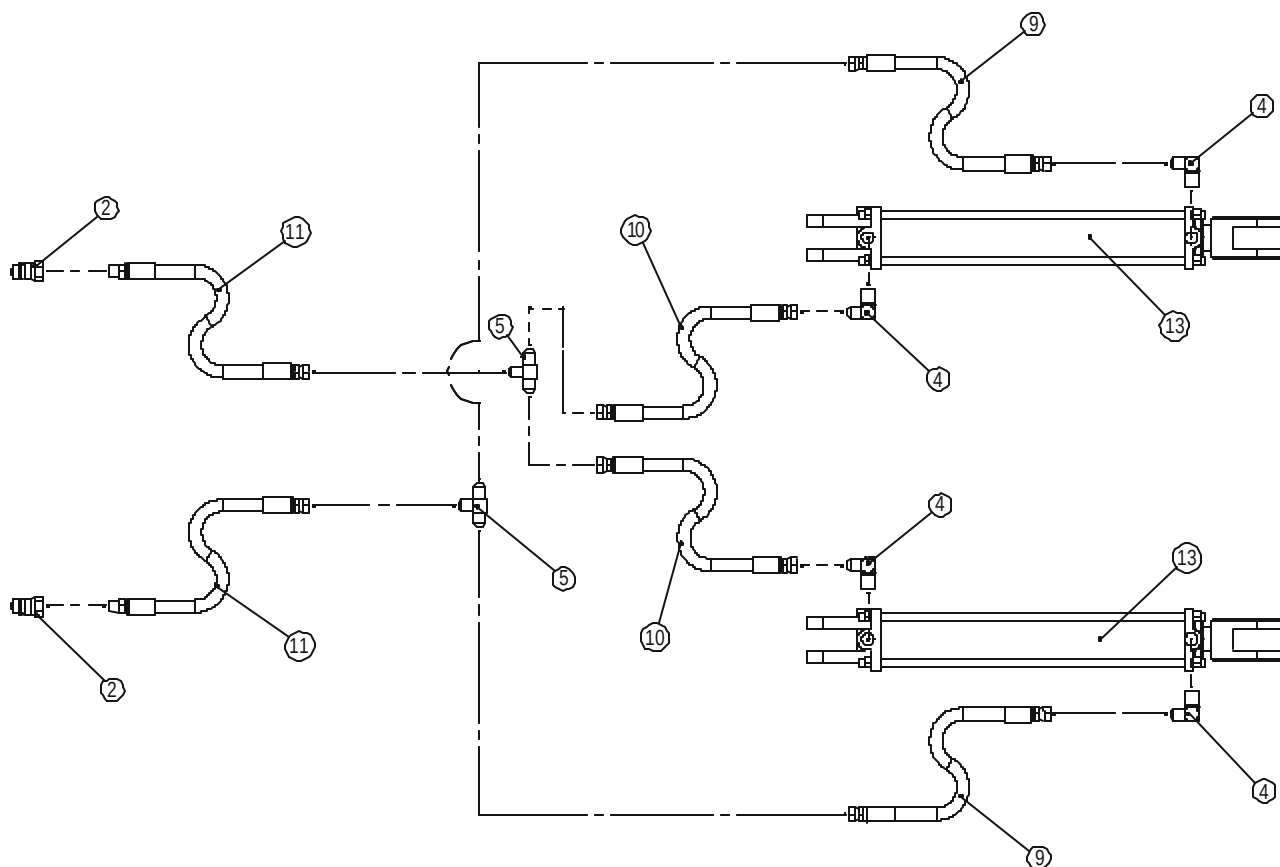
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	90133	Hyd,Cyl,3X16,1.5,8FP	2
2	30210	HOSECLAMP, 1/2	12
3	31802	HYD,LINE,STEEL,115, 1/2X.049,8FJ	2
4	31239	WASHER,FLAT,5/16,ZP	4
5	31177	NUT,NYLOCK,5/16,UNC,ZP	4
6	45185	PIN, CYL, TOP	2
7	31183	PIN,COTTER,3/16X2	2
8	30212	HYD,FIT,ELBOW,8MP-8MJ90	4
9	30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	2
10	90333	HYD,HOSE,3/8X28,8FJX-8FJX,2W	2
11	90332	HYD,HOSE,3/8X20,8FJX-8FJX,2W	2
12	30280	HYD,HOSE,3/8X96,8MP-8MJ,2W	2
13	30209	HYD,FIT,PIONEER,MALE,8FP	2

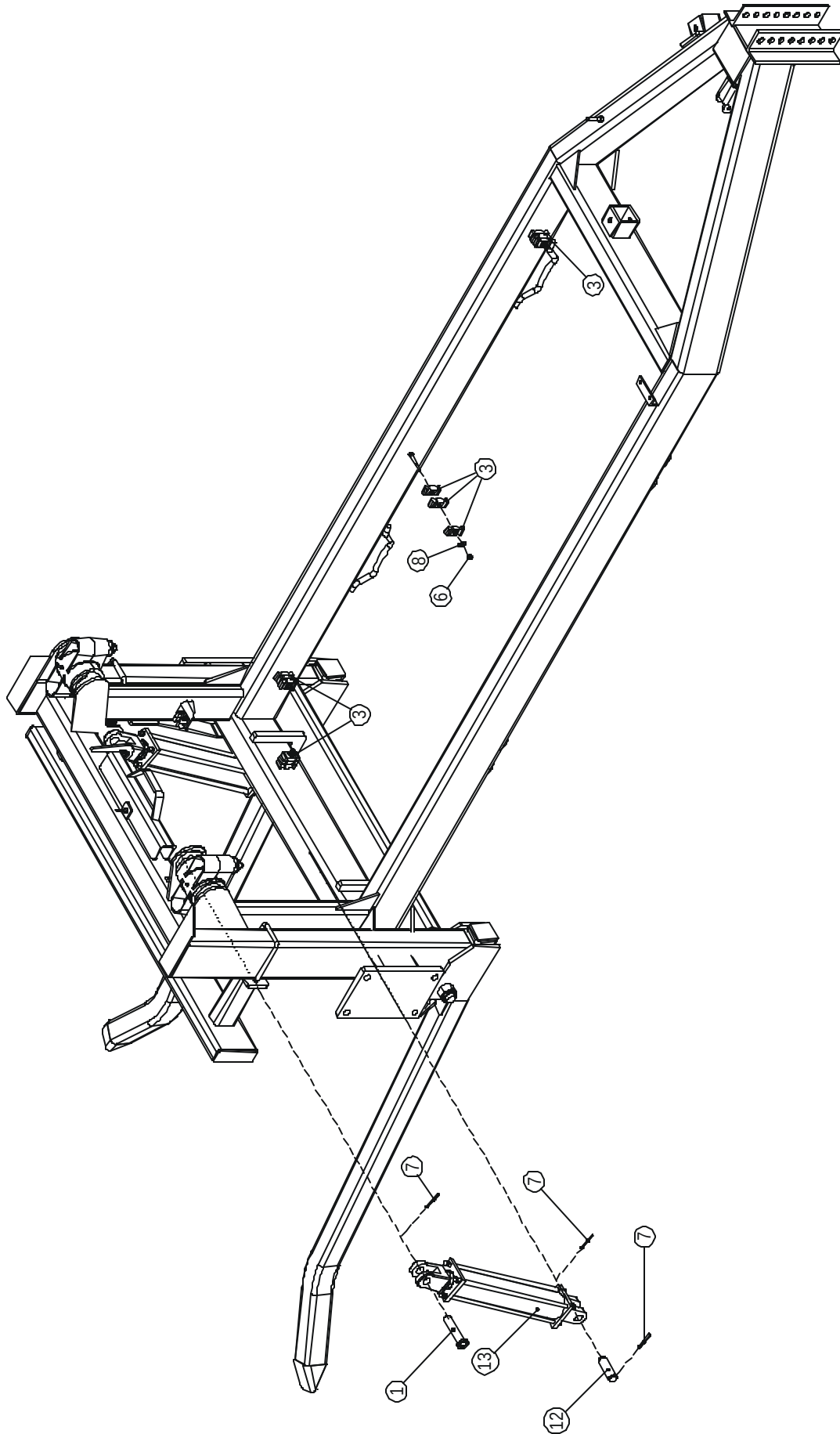




4.16 HDR Cylinder Hydraulics (Part No. 49305)

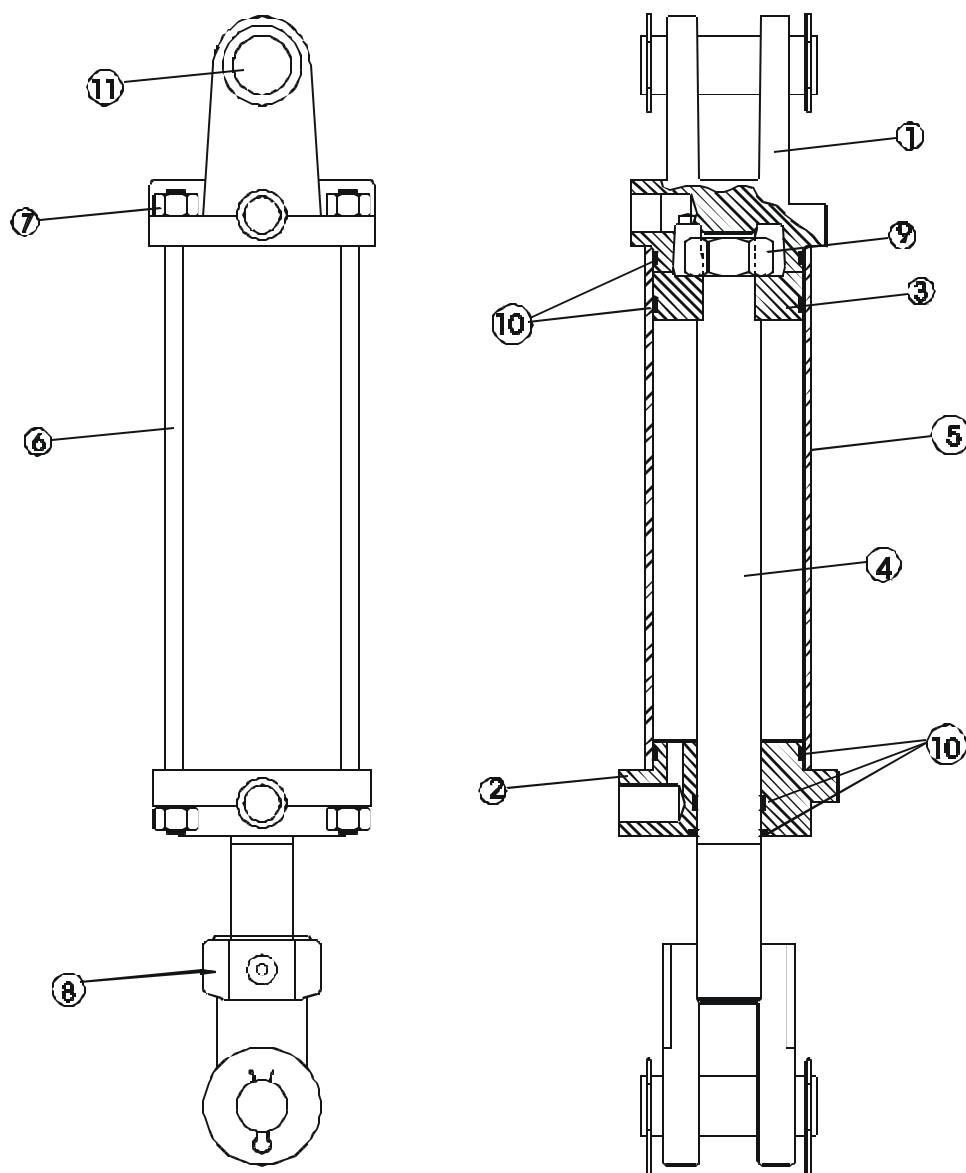
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45185	PIN, CYL, TOP	2
2	30209	HYD,FIT,PIONEER,MALE,8FP	2
3	30210	HOSECLAMP, 1/2	12
4	30212	HYD,FIT,ELBOW,8MP-8MJ90	4
5	30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	2
6	31177	NUT,NYLOCK,5/16,UNC,ZP	4
7	31183	PIN,COTTER,3/16X2	6
8	31239	WASHER,FLAT,5/16,ZP	4
9	31981	HYD,HOSE,3/8X28,8FJX-8FJX,2W	2
10	31982	HYD,HOSE,3/8X20,8FJX-8FJX,2W	2
11	31983	HYD,HOSE,3/8X210,8MP-8FJX,2W	2
12	32250	HYD,CYL,PIN,1	2
13	90133	Hyd,Cyl,3X16,1.5,8FP	2





4.17 Cylinder Assembly (Part No. 90133)

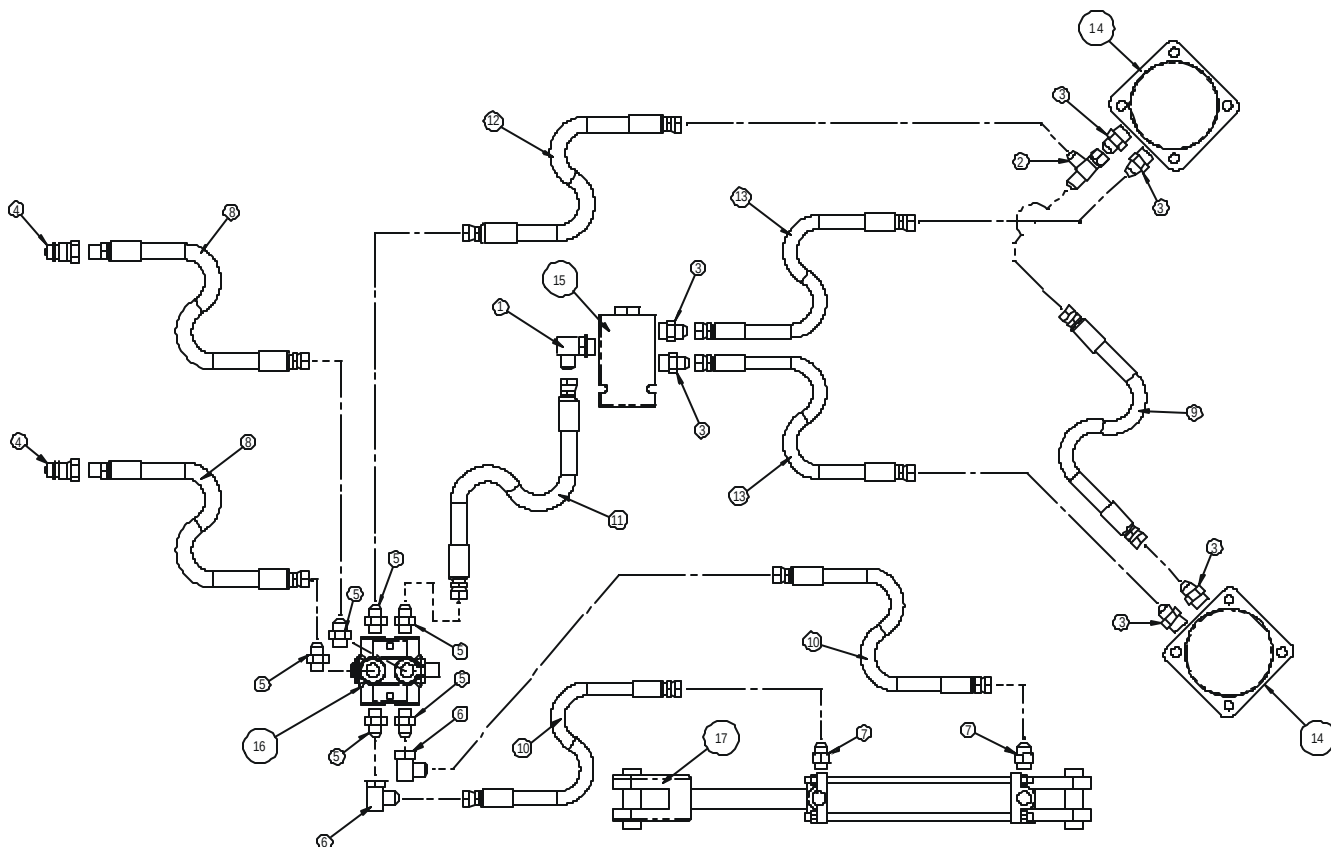
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	90991	CLEVIS CAP	1
2	32257	ROD CAP	1
3	90706	PISTON	1
4	90846	1-1/2" ROD	1
5	90993	CYLINDER TUBE	1
6	90802	1/2" TIE ROD	4
7	90800	1/2" NUT, UNF	8
8	90849	ROD CLEVIS	1
9	90722	1-14 NUT, UNF	1
10	90676	SEAL KIT	1
11	45185	TOP CYLINDER PIN	2



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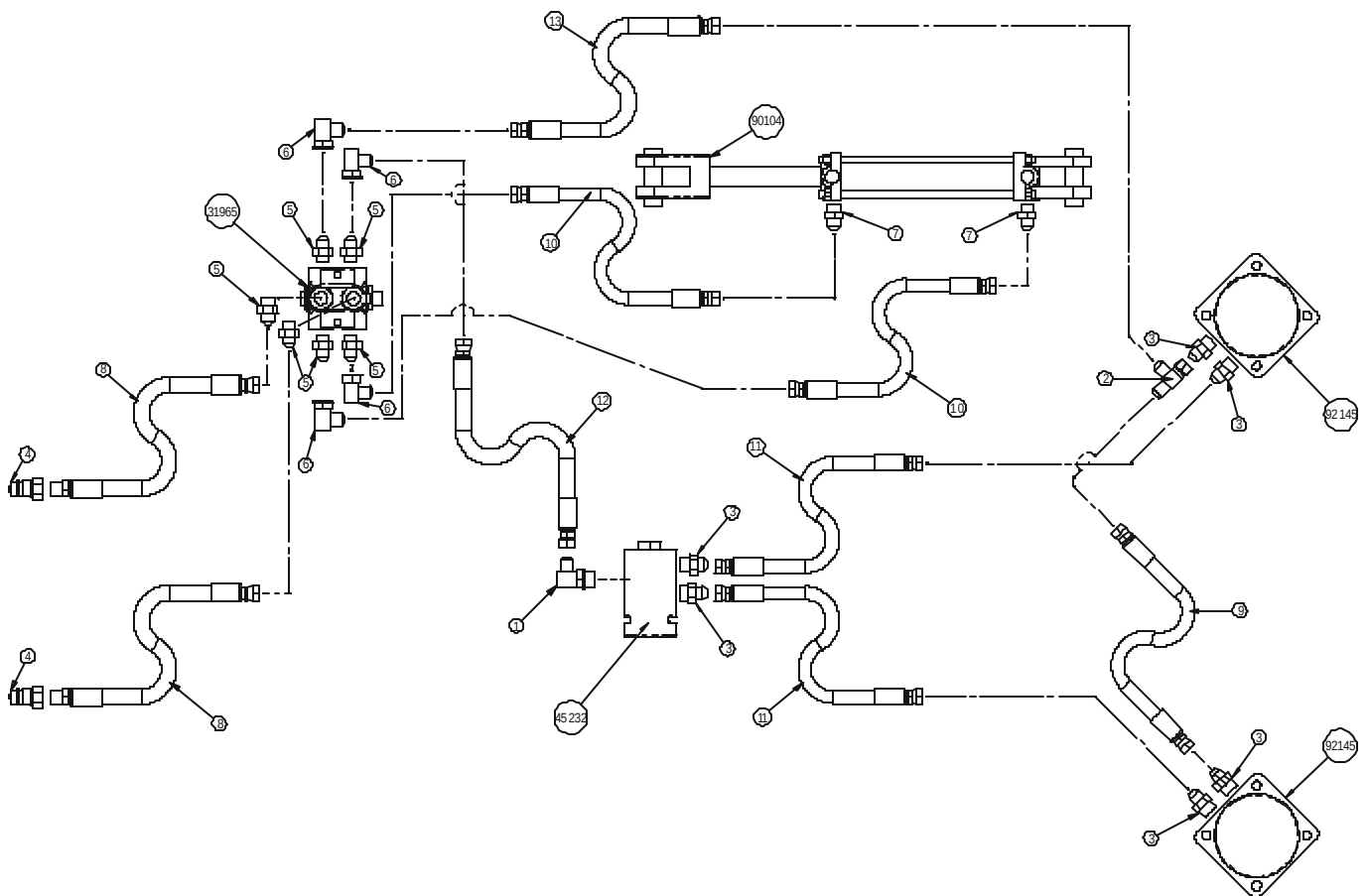
4.18 HD Feed Roll and Discharge Door Hydraulics (Part No. 49293)

ITEM NO.	PART NO.	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	6
4	30209	HYD, FIT, PIONEER, MALE, 8FP	2
5	30215	HYD, FIT, ADAPTER, 8MB-8MJ	6
6	30436	HYD, FIT, ELBOW, 8FJX-8MJ90	2
7	31957	HYD, FIT, ADAPTER, 8MB-8MJ, 028ORIFICE	2
8	31954	HYD, HOSE, 1/2X120, 8MP-8FJX, 2W	2
9	31955	HYD, HOSE, 3/8X40, 8FJX-8FJX, 2W	1
10	31956	HYD, HOSE, 3/8X56, 8FJX-8FJX, 2W	2
11	31958	HYD, HOSE, 1/2X36, 8FJX-8FJX, 2W	1
12	31961	HYD, HOSE, 1/2X52, 8FJX-8FJX, 2W	1
13	31962	HYD, HOSE, 3/8X36, 8FJX-8FJX, 2W	2
14	92145	HYD, MOTOR	2
15	45232	HYD, VALVE, DIVIDER	1
16	31965	HYD, VALVE, DOUBLE SELECTOR	1
17	90104	HYD, CYL, 2X8, 1.125, 8FB	1



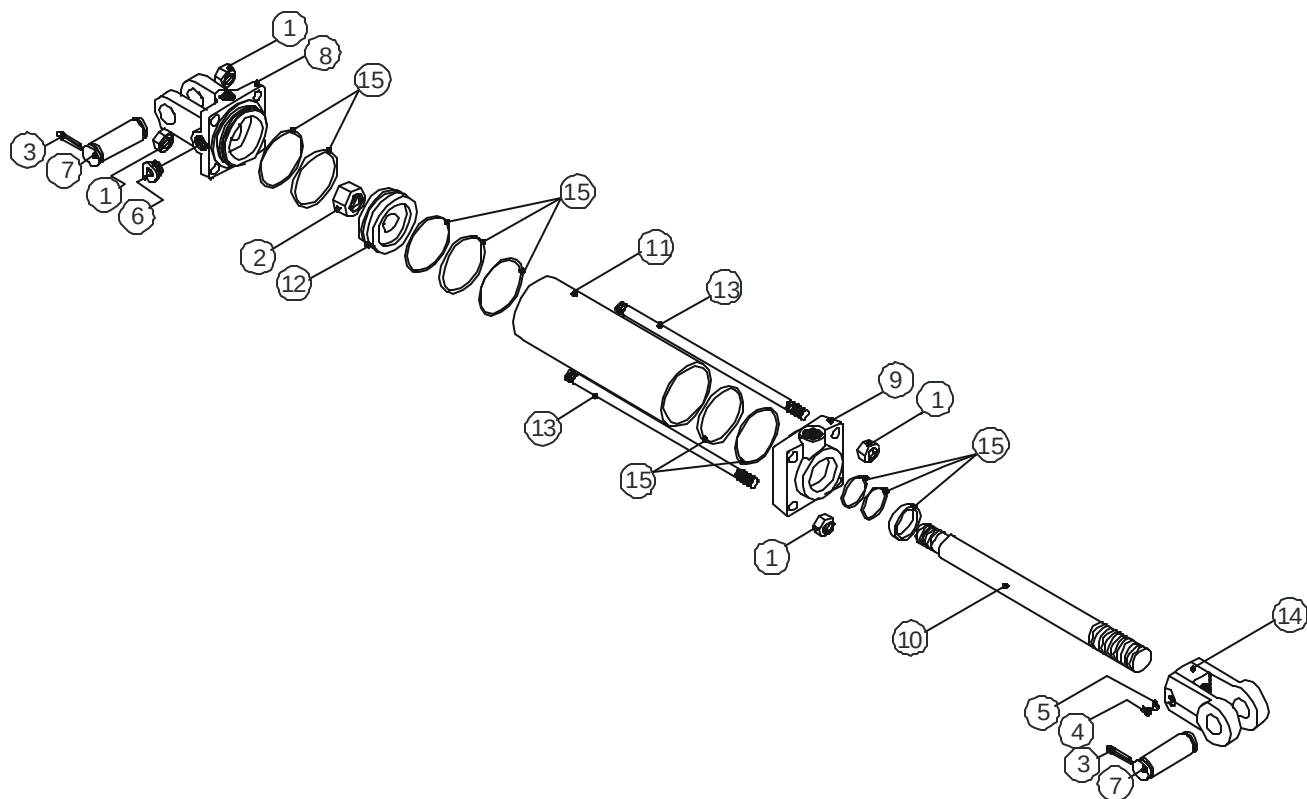
4.18 HDR Feed Roll and Discharge Door Hydraulics (Part No. 49399)

ITEM NO.	PART NO.	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	6
4	30209	HYD, FIT, PIONEER, MALE, 8FP	2
5	30215	HYD, FIT, ADAPTER, 8MB-8MJ	6
6	30436	HYD, FIT, ELBOW, 8FJX-8MJ90	4
7	31957	HYD, FIT, ADAPTER, 8MB-8MJ, 028ORIFICE	2
8	31954	HYD, HOSE, 1/2X120, 8MP-8FJX, 2W	2
9	31955	HYD, HOSE, 3/8X40, 8FJX-8FJX, 2W	1
10	31956	HYD, HOSE, 3/8X56, 8FJX-8FJX, 2W	2
11	31962	HYD, HOSE, 3/8X36, 8FJX-8FJX, 2W	2
12	31984	HYD, HOSE, 1/2X40, 8FJX-8FJX, 2W	1
13	31985	HYD, HOSE, 1/2X30, 8FJX-8FJX, 2W	1



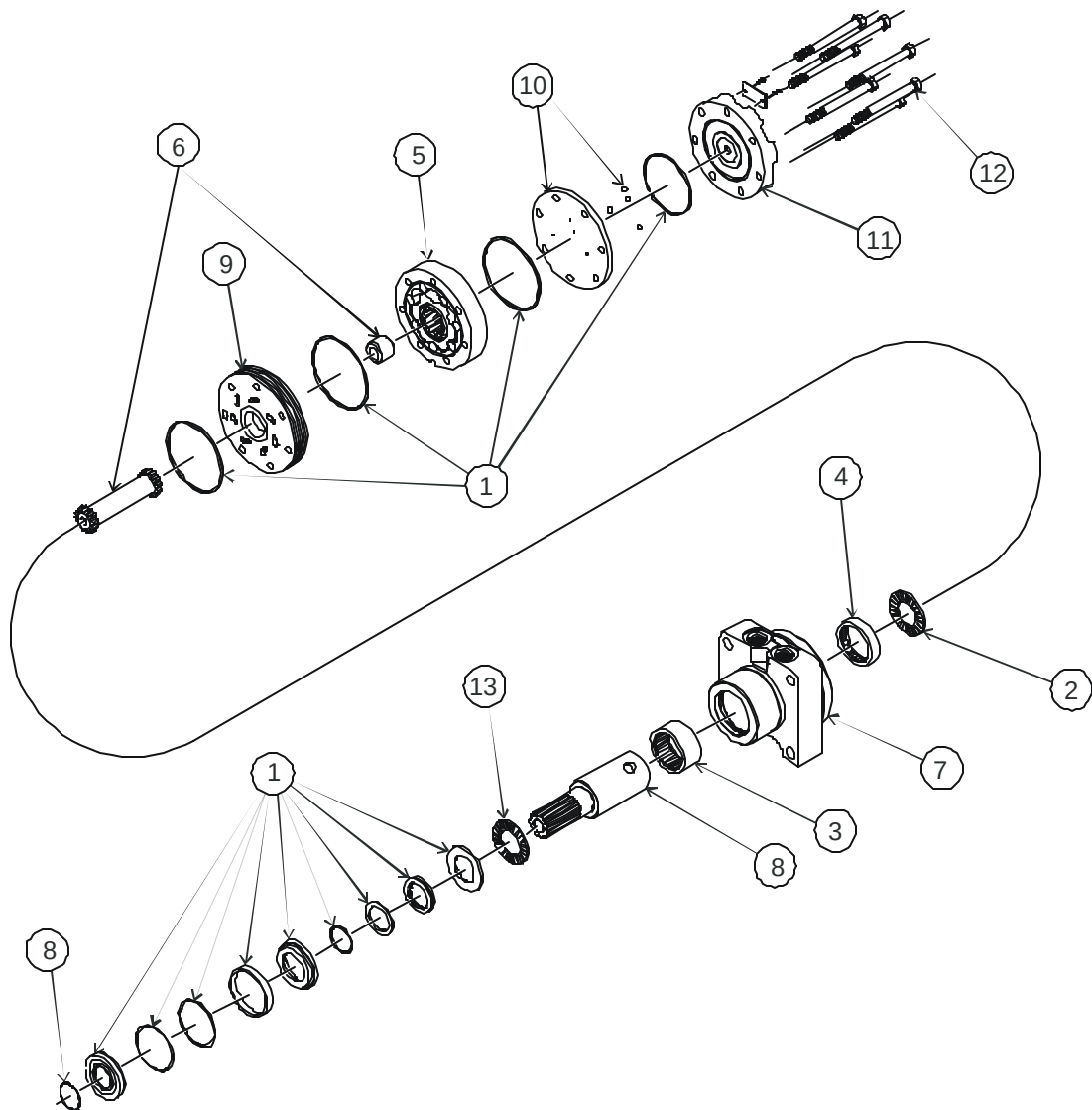
4.18.1 2x8 Hydraulic Cylinder (Part No. 90104)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31176	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,2,8ORBF	1
9	33028	HYD,CYL,CAP,ROD,2X1-1/8,8ORBF	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,TIEROD,3/8X8	4
14	33033	HYD,CLEVIS,1-1/8,1PIN	1
15	33034	HYD,CYL,SEALKIT,2,639572	1



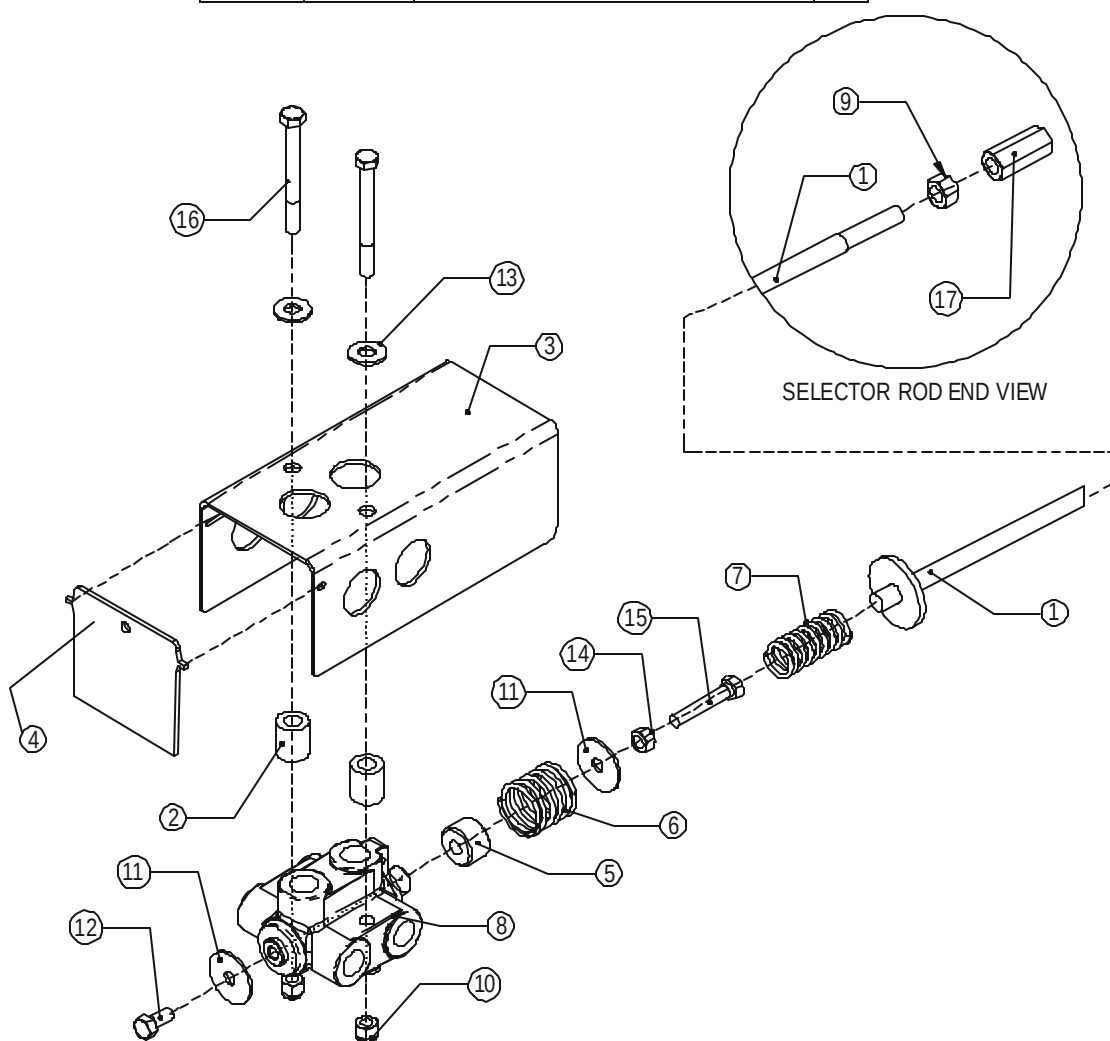
4.18.2 Orbit Motor Assembly (Part No. 92145)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32647	SEAL KIT,ROLLER STATOR	1
2	32651	BEARING,THRUST,REAR	1
3	32720	BEARING,HOUSING,FRONT	1
4	32649	BEARING,HOUSING,REAR,1/2	1
5	32643	ROTOR KIT	1
6	32722	DRIVE LINK KIT	1
7	32723	HOUSING KIT	1
8	32653	SHAFT KIT	1
9	32725	MANIFOLD	1
10	32726	BALANCE PLATE & BALLS	1
11	32727	END COVER	1
12	32655	BOLT KIT	7
13	32639	BEARING,THRUST,FRONT	1



4.19 Selector Valve Assembly (Part No. 49295)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49384	WLDT,ROD,SELECTOR	1
2	E6174	PIPE,SMLS,7/8x.188x1L	2
3	E6263	GUARD,SELECTOR,INDICATOR	1
4	E6264	PLT,INDICATOR,SELECTOR	1
5	E6327	BUSHING,SELECTOR	1
6	31959	SPRING,1.5X2.38X0.12	1
7	31960	SPRING,1X2.38X0.12	1
8	31965	HYD,VALVE,DOUBLE_SELECTOR	1
9	31163	NUT,HEX,1/2,UNC,GR5,ZP	1
10	31176	NUT,NYLOCK,3/8,UNC,ZP	2
11	31234	WASHER,SPFLAT,25/64X1-1/2X.083,ZP	2
12	31345	BOLT,HEX,3/8X3/4,UNC,GR5,ZP	1
13	31351	WASHER,FLAT,3/8,ZP	2
14	31485	NUT,HEX,3/8,UNC,GR5,ZP	1
15	30669	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP,FT	1
16	31781	BOLT,HEX,3/8X3-1/2,UNC,GR5,ZP	2
17	31987	NUT,COUPLING,1/2,UNC,ZP	1

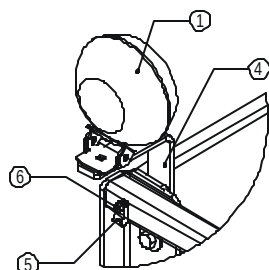


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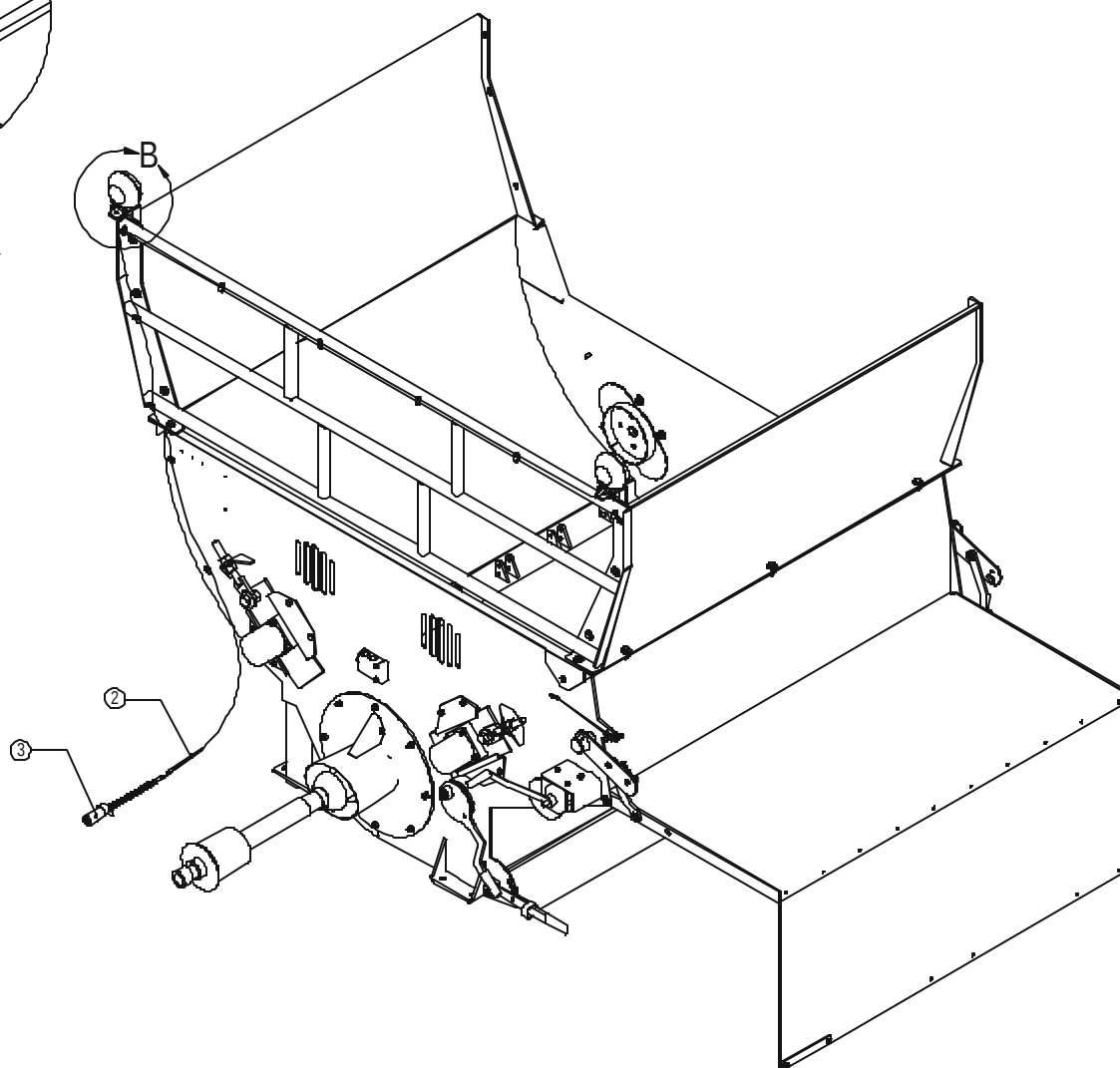
5.0 Options

5.1 Field Light Option (Part No. BPORFL-A)

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

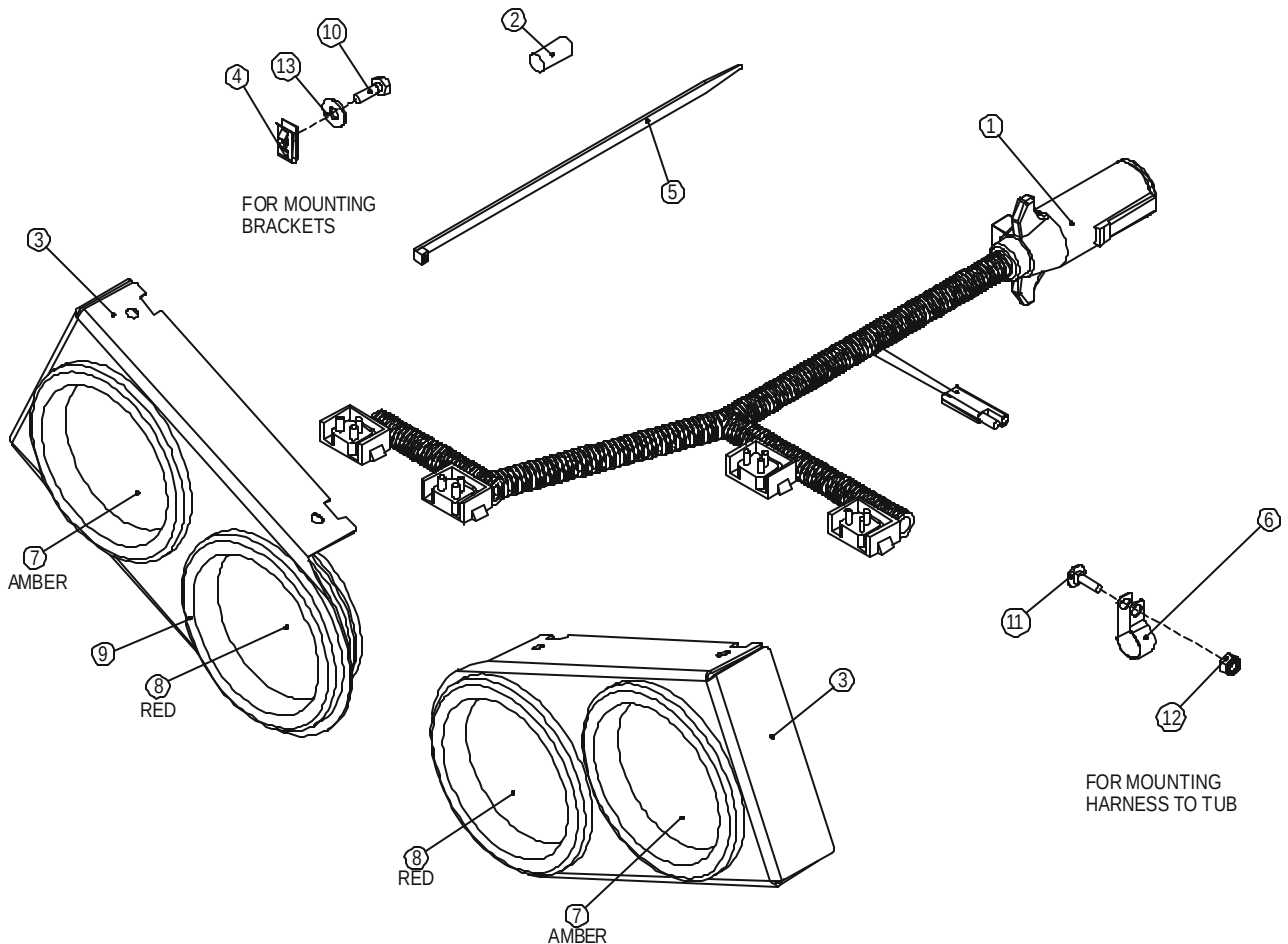


DETAIL B
SCALE 9 : 64



5.2 Clearance Light Option (Part No. BPOCL-A)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49364	ELEC,HARNESS,LIGHT,BP	1
2	E3669	SHAFT,1/2x1	4
3	E6259	MOUNT,LAMP,GROMMET,2X4-1/2	2
4	31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	4
5	31613	TIE,CABLE,NYLON,BLACK,11 1/2"	4
6	31650	ELEC,CLAMP,CABLE,3/4	9
7	31951	ELEC LIGHT,AMBER,4DIA,S/T/T	2
8	31952	ELEC LIGHT,RED,4DIA,S/T/T	2
9	31953	GROMMET,LIGHT,4X4-1/2	4
10	31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	4
11	37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	9
12	31174	NUT,NYLOCK,1/4,UNC,ZP	9
13	31237	WASHER,FLAT,1/4,ZP	4



5.2.1 Mounting Clearance Light Option

Please refer to Clearance Light Option on the previous page.

The clearance light kit you have purchased has the grommets (Item 9), lights (Item 7 & 8), and clips (Item 4) already installed in the light brackets (Item 3).

Plug wiring harness pin connectors into lights making sure that red lights are connected to the inside connector on each branch. The branches of the harness will be fastened to the rear wall of the tub after you mount the light brackets. See Figure C

The wiring harness is designed in the shape of a “Y”. The branches of the wire harness mount on the tub wall in different positions depending on the discharge model you have purchased. The HD model has the longer branch on the discharge side; the HDR has the longer branch on the non-discharge side. The longer branch of the harness has excess wire for the EZ Feed Option. If you do not have this option, wrap the excess harness inside the light bracket. (To determine excess harness position light in its mount location; it should be approx 16”). See Figure A

Fasten the light brackets to the tub ears on the rear wall (see Figure C) with the fasteners provided. Bolt (Item10) and washer (Item 13). See Figure B

As shown in Figure B, fasten the wiring harness to the tub using the fasteners and holes provided, keeping the bolt heads to the inside of the tub. Leave the fasteners loose so you can adjust the harness later. Bolt (Item 11), clamp (Item 6), and nut (Item 12)

After connecting the wire harness to the rear wall locate the hydraulic lines running under the tub. See Figure D, there are extra positions available in the hydraulic line clamps to run the harness to the front of the Bale Pro. Loosen the hydraulic line clamp (30210) and install the wire harness as shown. Install (Item 2, Fig D) in the opposing clamp hole as a spacer to keep the clamp vertical.

Plug wire harness into the tractor plug and check that the lights are operating correctly.

Tighten all fasteners down securely after adjusting harness for proper slack.

Figure A

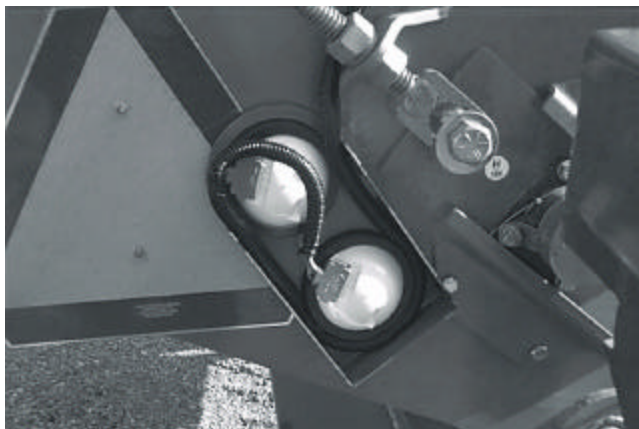


Figure B

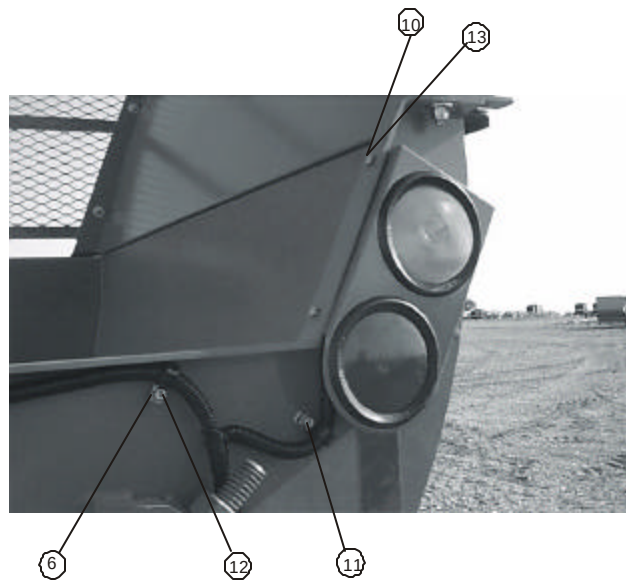
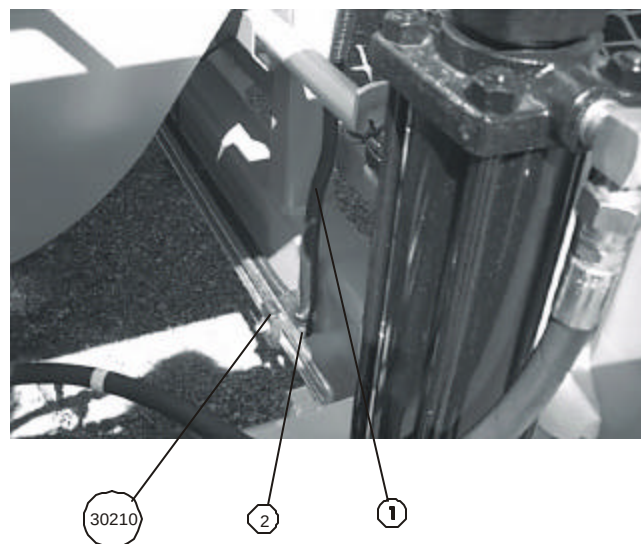


Figure C

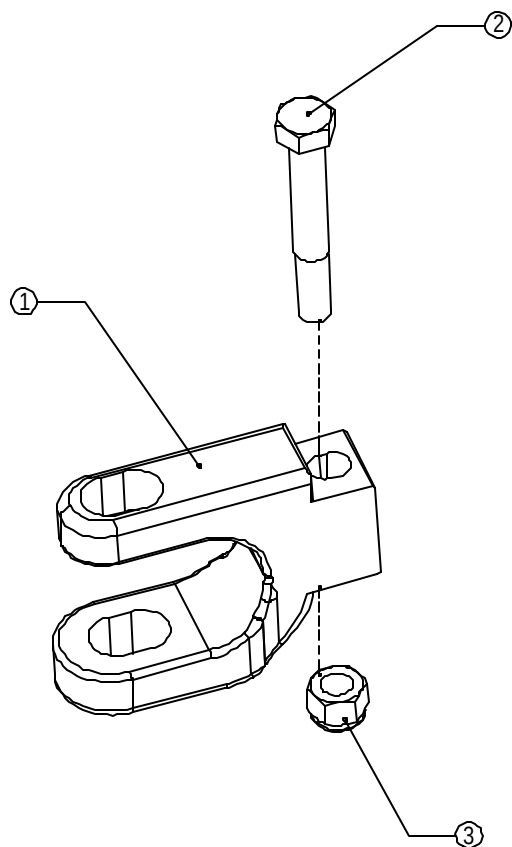


Figure D



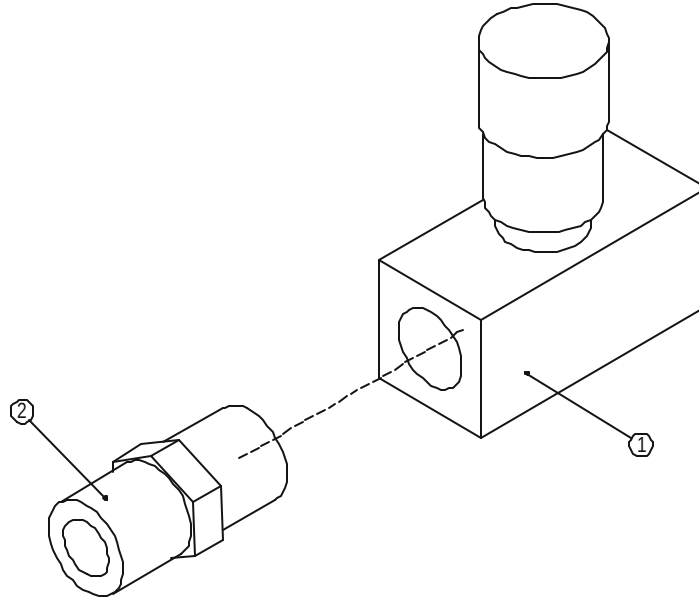
5.3 Hitch Clevis Option (Part No. BPOHC-A)

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

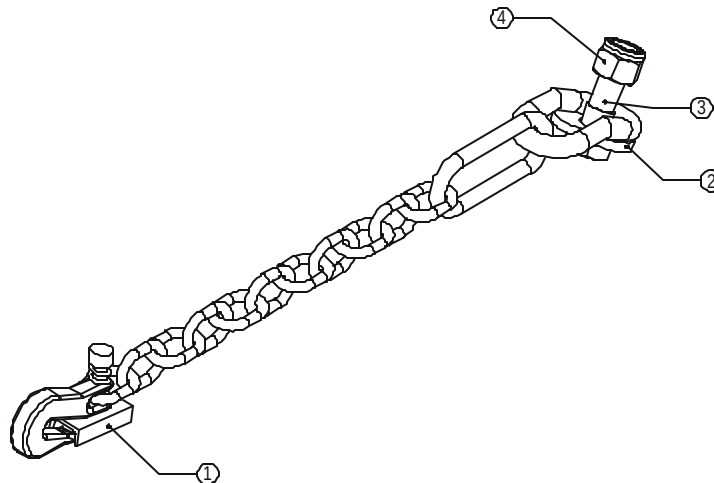


5.4 Flow Control Option (Part No. BPOFC-A)

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

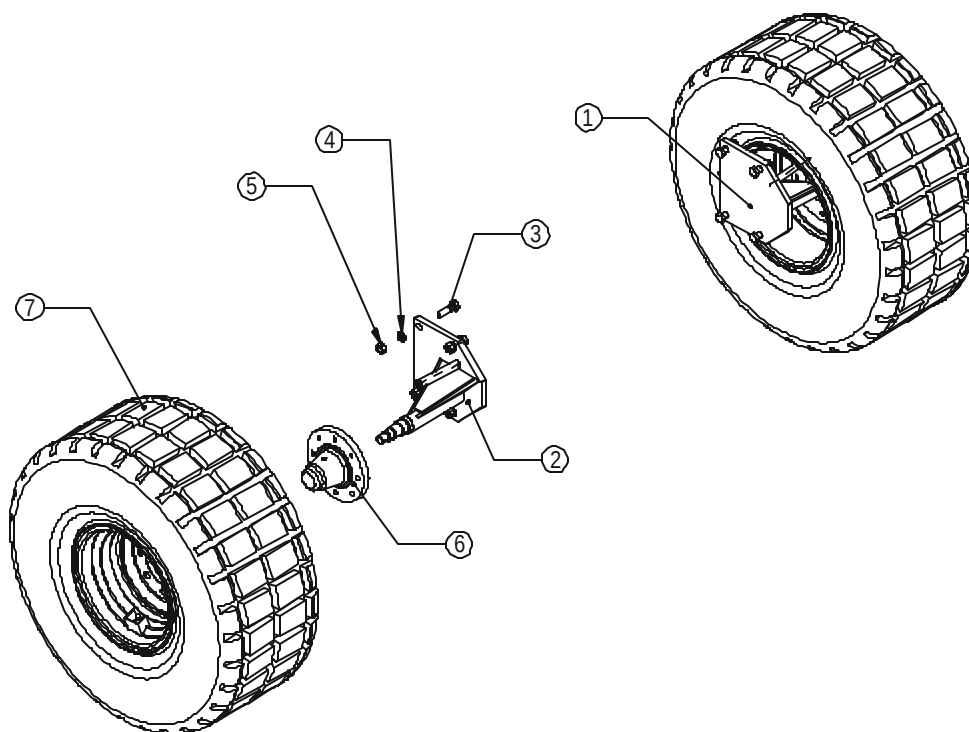
**5.5 Safety Chain Option (Part No. BPOSC-A)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31590	CHAIN, SAFETY, ASAE, 10100LB, 5'4"	1
2	E6150	PLT, C, 1/4x13/16x2-1/4	1
3	31315	BOLT, HEX, 3/4X2-1/2, GR8, ZP	1
4	31175	NUT, NYLOCK, 3/4, UNC, ZP	1



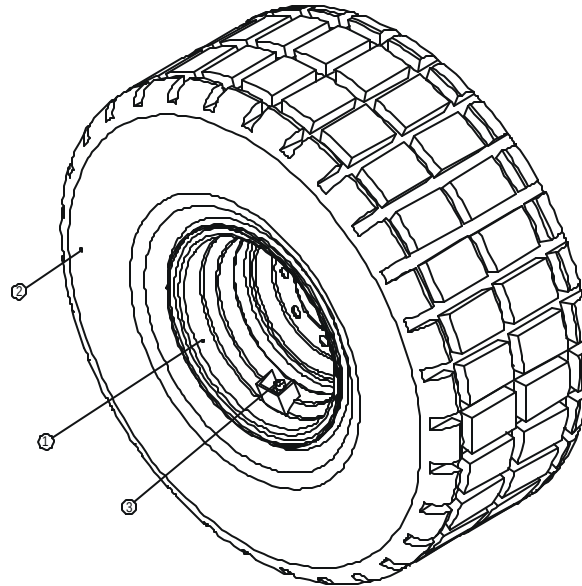
5.6 Large Tire Option (Part No. BPOLT-A)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49169	AXLE,16.5X16.1,RIGHT	1
2	49173	AXLE,16.5X16.1,LEFT	1
3	31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	8
4	31246	WASHER,LOCK,3/4,ZP	8
5	31167	NUT,HEX,3/4,UNC,GR5,ZP	8
6	30102	SUSP,HUB,COMPLETE,EM5500	2
7	31923	WHEEL,COMPLETE,16.5Lx16.1,8,WH	2

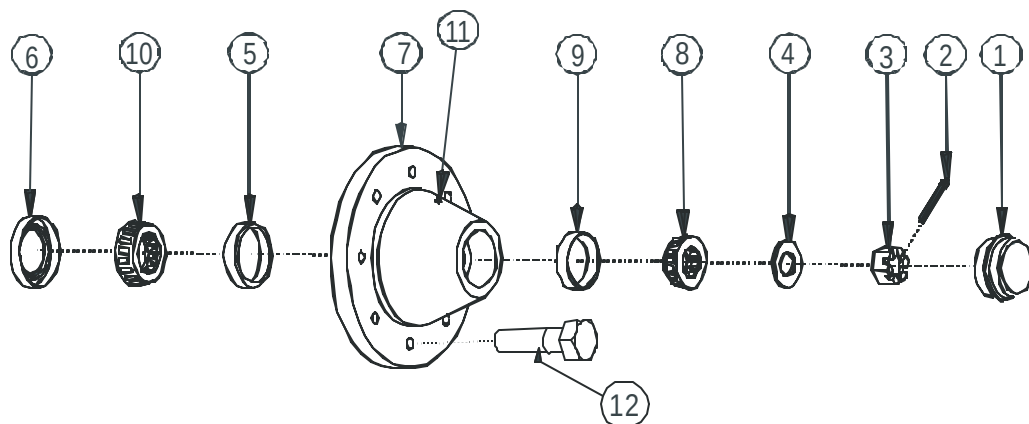


5.6.1 Large Tire (Part No. 31923)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32325	SUSP, RIM, W14CX16.1, +.375, 8, WH	1
2	32324	SUSP, TIRE, 16.5LX16.1, ST2, 6PLY	1
3	91048	SUSP, STEM, VALVE, TR801HP	1

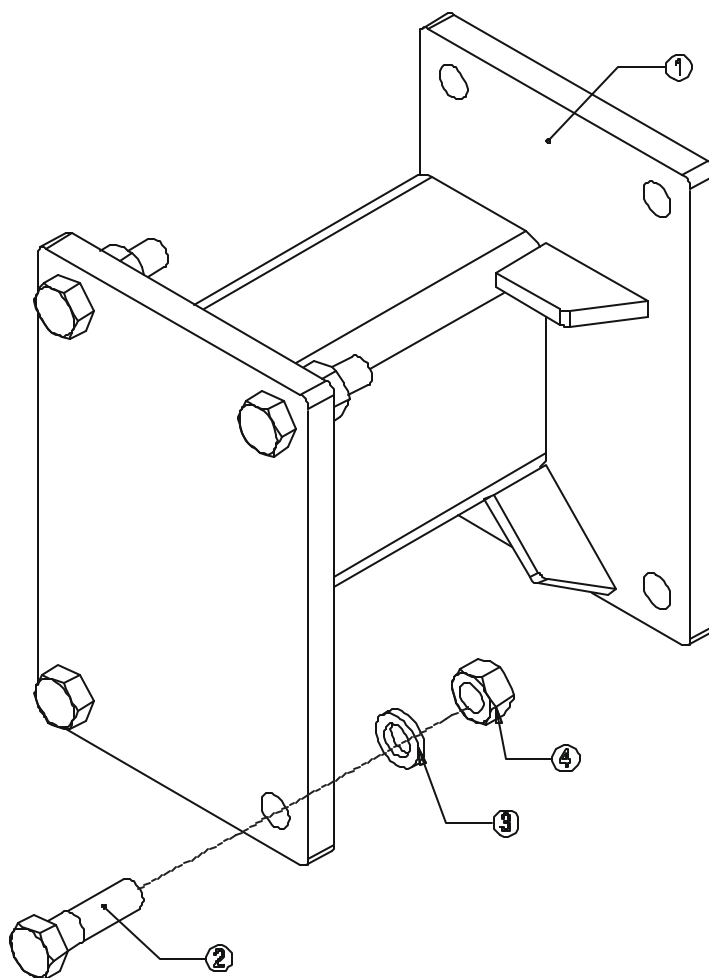
**5.6.2 Hub Assembly (Part No. 30102)**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30220	SUSP, CAP, DUST	1
2	30221	PIN, COTTER, 3/16X1-3/4	1
3	30222	NUT, SLOTTED, 1, UNF	1
4	30223	WASHER, FLAT, 1IDX2OD, .2385	1
5	30226	DRV, BRG, RACE, INNER, 1.781	1
6	30228	DRV, BRG, SEAL, 1.98	1
7	30229	SUSP, HUB, EM5500, 8BOLT	1
8	91111	DRV, BRG, TAPERED, OUTER, 1.375	1
9	91131	DRV, BRG, RACE, OUTER, 1.375	1
10	91133	DRV, BRG, TAPERED, INNER, 1.781	1
11	30207	ZERK, 1/4-28, GF641, STRAIGHT	1
12	32301	SUSP, BOLT, WHEEL, 9/16X1-1/4Tx1-13/16L	8



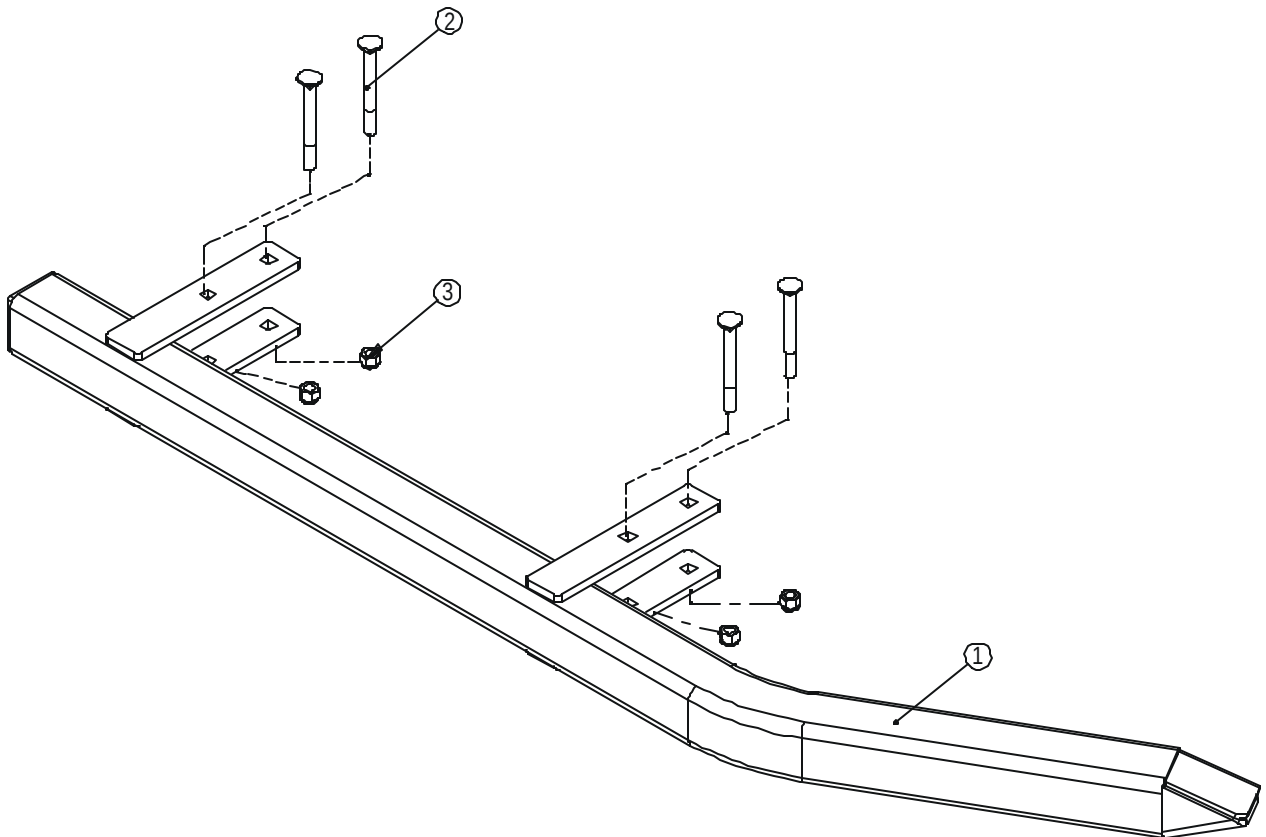
5.7 12" Axle Extension Option (Part No. BPOAE12-A)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49065	EXTENSION, AXLE, SHORT, BP	1
2	31315	BOLT, HEX, 3/4X2-1/2, GR8, ZP	4
3	31246	WASHER, LOCK, 3/4, ZP	4
4	31777	NUT, HEX, 3/4, UNC, GR8, ZP	4



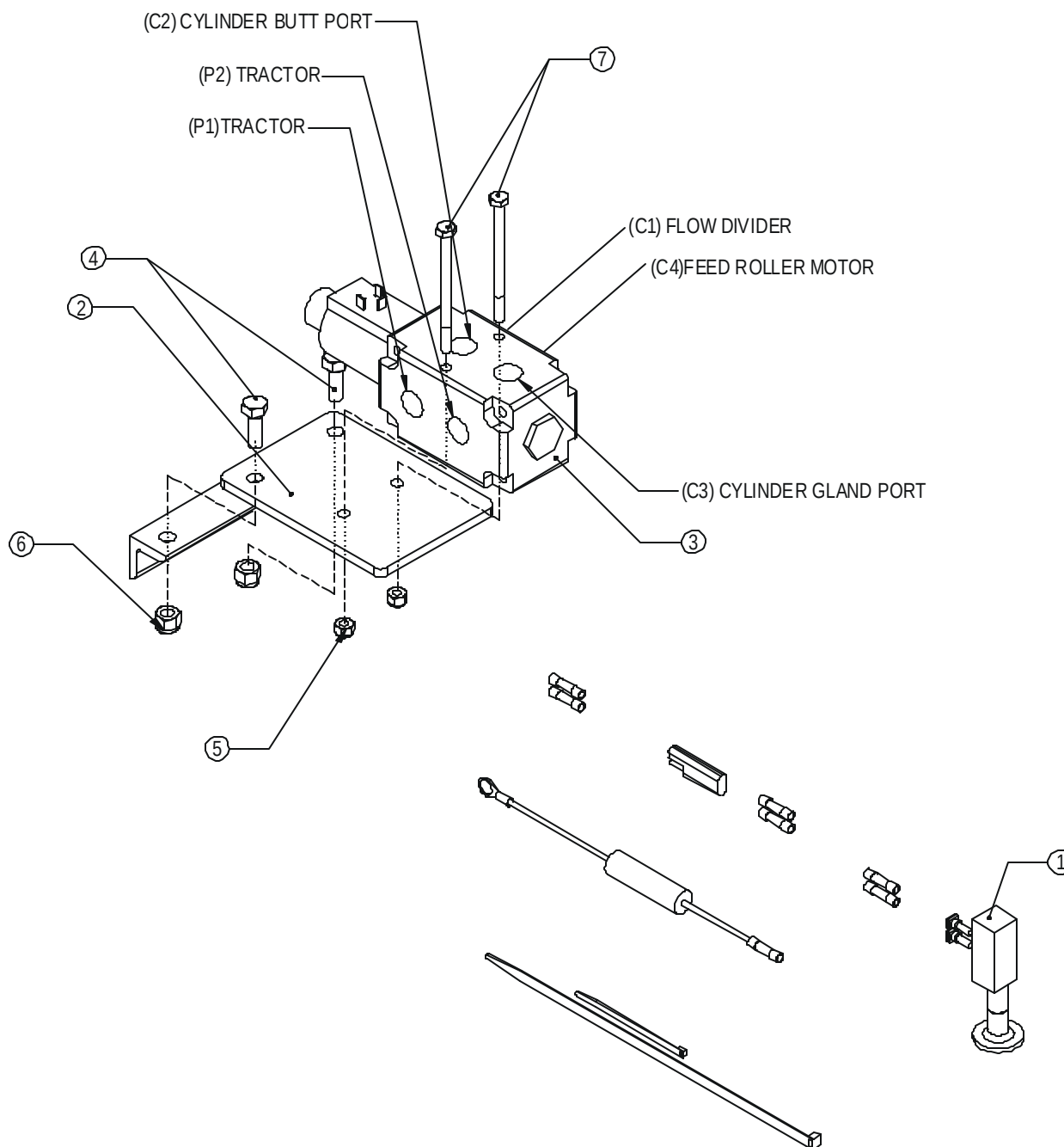
5.8 Narrow Fork Option (Part No. BPONF-A)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49370	WLDT,FORK,NARROW	1
2	31893	BOLT,CARR,1/2x4-1/2,UNC,GR5,ZP	4
3	31173	NUT,NYLOCK,1/2,UNC,ZP	4



5.9 Electric/Hydraulic Selector Valve Option (Part No. BPOEH-A)

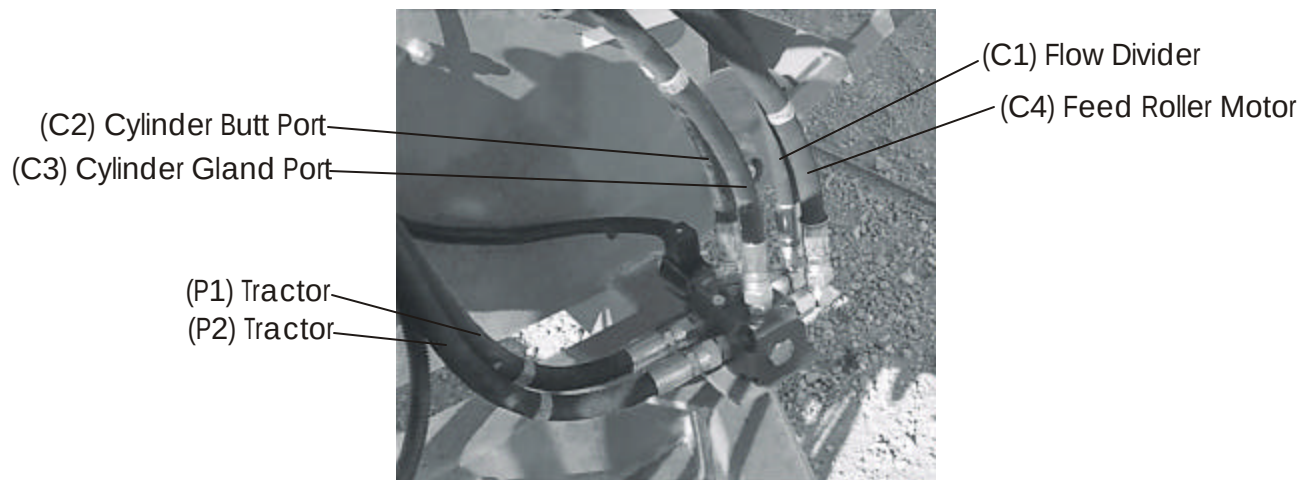
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49421	ELEC,HARNESS,SELECTOR VAL VE	1
2	E6417	PLT,ELEC,VALVE,MOUNT	1
3	33201	HYD,VALVE,ELEC_DOUBLE_SELECTOR	1
4	31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	2
5	31174	NUT,NYLOCK,1/4,UNC,ZP	2
6	31176	NUT,NYLOCK,3/8,UNC,ZP	2
7	33200	BOLT,HEX,1/4X3-1/2,UNC,GR5,ZP	2



5.9.1 Electric/Hydraulic Selector Valve Option Installation Instructions

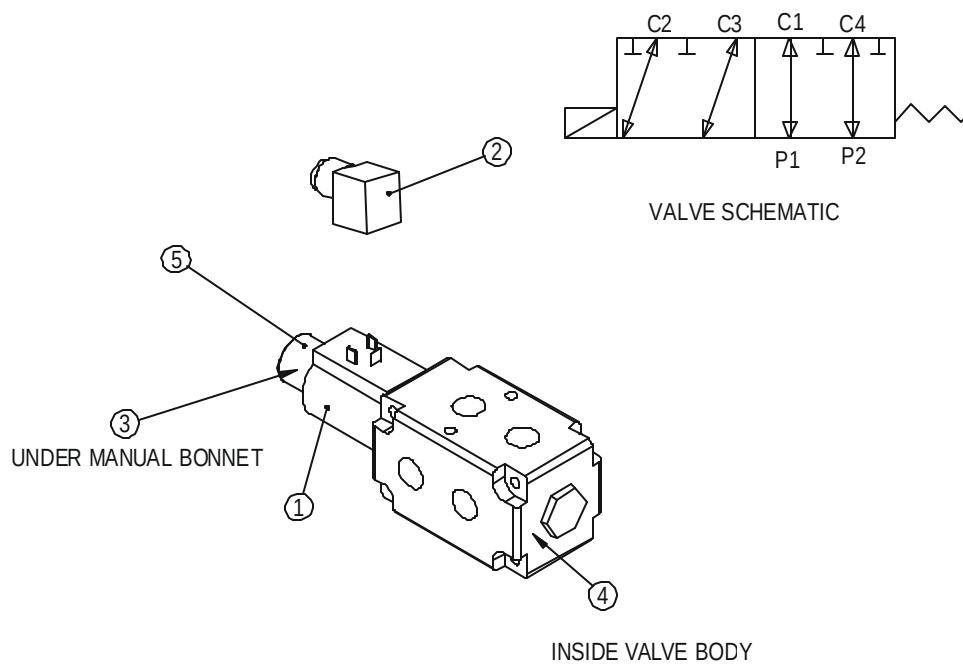
1. Unhook hoses from the selector valve located on mount angle or tub wall (depending on model) in front of tub.
2. The selector rod is no longer needed. The rod can be disassembled from the machine by removing the jam and coupling nut located on the rear end of the rod (located under protective cover at rear of main frame and just in front of fork lift frame).
3. Pull the selector rod out the front of the tub wall.
4. Mount Electric/Hydraulic assembly in previous valves location as shown in the drawing on previous page.
5. Re-attach hoses as shown in the photograph below.
6. Connect wiring harness to the valve keeping the harness connector body in the orientation shown in the drawing and photograph. The harness end should point to the tub wall.
7. Route the wire harness through hose holder to the front of the processor.
8. Run the harness to the tractor and mount the switch in a suitable location.
9. Route the red wire to the tractors accessory power and the black wire to ground. You may need to adjust the length of the red and black wire that are inside the loom for easier routing.

When unhooking from processor use quick disconnect.



5.9.2 Electric/Hydraulic Selector Valve (Part No. 33201)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	33126	COIL,C4801-V12-DCGM5050/5051	1
2	33124	MPM 182-09 DIN CONNECTOR	1
3	33128	NUT GM 5043	1
4	33129	SPRING,RETURN	1
5	33138	BOOT,OVERIDE	1



6.0 Parts Index

PartNum	DESCRIPTION	PAGE	ITEM
30102	SUSP,HUB,COMPLETE,EM5500	88	6
30145	HYD,FIT,ELBOW,10MB-8MJ90	76	1
30145	HYD,FIT,ELBOW,10MB-8MJ90	77	1
30150	HYD,FIT,TEE,8FJX-8MJ-8MJ	76	2
30150	HYD,FIT,TEE,8FJX-8MJ-8MJ	77	2
30204	HYD,FIT,ADAPTER,10MB-8MJ	76	3
30204	HYD,FIT,ADAPTER,10MB-8MJ	77	3
30206	HYD,HOLDER,HOSE,1/2	56	2
30206	HYD,HOLDER,HOSE,1/2	57	2
30207	ZERK,1/4-28,GF641,STRAIGHT	44	8
30207	ZERK,1/4-28,GF641,STRAIGHT	46	8
30207	ZERK,1/4-28,GF641,STRAIGHT	58	7
30207	ZERK,1/4-28,GF641,STRAIGHT	61	9
30207	ZERK,1/4-28,GF641,STRAIGHT	89	11
30208	PLT,SERIAL#	18	1
30208	PLT,SERIAL#	20	1
30209	HYD,FIT,PIONEER,MALE,8FP	70	13
30209	HYD,FIT,PIONEER,MALE,8FP	72	2
30209	HYD,FIT,PIONEER,MALE,8FP	76	4
30209	HYD,FIT,PIONEER,MALE,8FP	77	4
30210	HOSECLAMP,1/2	70	2
30210	HOSECLAMP,1/2	72	3
30212	HYD,FIT,ELBOW,8MP-8MJ90	70	8
30212	HYD,FIT,ELBOW,8MP-8MJ90	72	4
30215	HYD,FIT,ADAPTER,8MB-8MJ	76	5
30215	HYD,FIT,ADAPTER,8MB-8MJ	77	5
30220	SUSP,CAP,DUST	89	1
30221	PIN,COTTER,3/16X1-3/4	89	2
30222	NUT,SLOTTED,1,UNF	89	3
30223	WASHER,FLAT,1IDX2OD,.2385	89	4
30226	DRV,BRG,RACE,INNER,1.781	89	5
30228	DRV,BRG,SEAL,1.98	89	6
30229	SUSP,HUB,EM5500,8BOLT	89	7
30230	CLAMP,PIPE,TOP	58	8
30231	CLAMP,PIPE,BOTTOM	58	9
30236	NUT,HEX,5/8,UNC,GR5,ZP	62	9
30238	PIN,COTTER,3/16X1-1/2	78	3
30239	SETSCREW,SOCKTE,3/8X1-1/2KNUR	78	4

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

30261	LOCKTHREAD,NYLOCK	78	5
30271	DECAL,DANGER,ROTATING DRIVE	18	2
30271	DECAL,DANGER,ROTATING DRIVE	20	2
30280	HYD,HOSE,3/8X96,8MP-8MJ,2W	70	12
30284	DRV,GUARD,CV	66	2
30285	DECAL,DANGER,TO PREVENT	18	3
30285	DECAL,DANGER,TO PREVENT	20	3
30294	SCREW,TEK,1/4X1	82	6
30313	HYDFIT,TEE,8MJ-8MJ-8MJ	70	9
30313	HYDFIT,TEE,8MJ-8MJ-8MJ	72	5
30342	SUSP,CAP,DUST,611 HUB	61	5
30344	BEARING,1-1/2" 611 HUB	61	2
30345	SUSP,BRG,1-1/4,611 HUB	61	4
30346	OIL SEAL	61	1
30352	AUTO LOCK REPAIR KIT	68	1
30352	AUTO LOCK REPAIR KIT	69	1
30353	AUTO LOCK YOKE ASSEMBLY	68	2
30353	AUTO LOCK YOKE ASSEMBLY	69	2
30354	CAT 4 80° CROSS AND BEARING	68	3
30354	CAT 4 80° CROSS AND BEARING	69	3
30355	CENTER HOUSING	68	4
30355	CENTER HOUSING	69	4
30356	BELL EXTENSION (WITH CENTRALIZER)	68	5
30356	BELL EXTENSION (WITH CENTRALIZER)	69	5
30357	YOKE AND SHAFT	68	6
30358	NYLON REPAIR KIT	68	7
30358	NYLON REPAIR KIT	69	7
30359	SAFETY SIGN	68	8
30359	SAFETY SIGN	69	8
30360	CENTRALIZER	68	9
30360	CENTRALIZER	69	9
30361	OUTER GUARD	68	10
30362	INNER GUARD	68	11
30363	SAFETY SIGN	68	12
30363	SAFETY SIGN	69	12
30364	YOKE,TUBE AND SLIP SLEEVE	68	13
30365	35R CROSS AND BEARING KIT	68	14
30365	35R CROSS AND BEARING KIT	69	14
30366	BALL SHEAR ASSEMBLY	68	15
30367	3/8X2-16 GR5 BOLT	68	16
30367	3/8X2-16 GR5 BOLT	69	16

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

30368	3/8 - 16 LOCKNUT	68	17
30368	3/8 - 16 LOCKNUT	69	17
30371	WASHER,FLAT,611 HUB	60	2
30372	NUT,CASTELLATED,BP6800	60	1
30373	SUSP,HUB,H611	61	3
30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	56	5
30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	57	5
30436	HYD,FIT,ELBOW,8FJX-8MJ90	76	6
30436	HYD,FIT,ELBOW,8FJX-8MJ90	77	6
30577	DECAL,RED REFL,2X9	18	4
30577	DECAL,RED REFL,2X9	20	4
30578	DECAL,AMBER REFL,2X9	18	5
30578	DECAL,AMBER REFL,2X9	20	5
30611	NUT,NYLOCK,JAM,1/2,UNC,ZP	40	10
30611	NUT,NYLOCK,JAM,1/2,UNC,ZP	42	10
30669	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP,FT	80	15
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	34	10
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	36	9
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	48	3
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	49	3
31009	BOLT,CARR,1/2X2,UNC,ZP	40	9
31009	BOLT,CARR,1/2X2,UNC,ZP	42	9
31012	BOLT,CARR,1/4X1,UNC,GR5,ZP	34	11
31012	BOLT,CARR,1/4X1,UNC,GR5,ZP	36	10
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	34	12
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	36	11
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	38	13
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	50	3
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	62	10
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	38	14
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	44	11
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	46	11
31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	40	7
31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	42	7
31032	BOLT,HEX,1/4X2-1/4,UNC,GR5,ZP	38	15
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	83	10
31034	BOLT,HEX,1-1/4X6,UNC,GR5,ZP	58	14
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	60	4
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	88	3
31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	56	6
31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	57	6

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	67	4
31043	BOLT,HEX,3/8X1,UNC,GR5,ZP	92	4
31046	BOLT,HEX,5/16X1-1/2,UNC,GR5,ZP	44	12
31046	BOLT,HEX,5/16X1-1/2,UNC,GR5,ZP	46	12
31051	BOLT,HEX,5/8X1-1/2,UNC,GR5,ZP	62	11
31052	BOLT,HEX,5/8X2,UNC,GR5,ZP	62	12
31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	66	3
31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	67	3
31058	BOLT,HEX,9/16X3-1/2,UNC,GR5,ZP	40	8
31058	BOLT,HEX,9/16X3-1/2,UNC,GR5,ZP	42	8
31059	BOLT,SHCS,1/2X2-1/2,UNC,GR5,ZP	38	10
31061	BOLT,U,SQ,1/2-13,3X7,1-1/4 THREAD	58	10
31061	BOLT,U,SQ,1/2-13,3X7,1-1/4 THREAD	62	7
31066	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP	32	4
31070	BOLT,HEX,1/2X2,UNC,GR5,ZP	38	16
31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	52	6
31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	53	6
31159	NUT,ACME,1,5TPI,RH	38	17
31163	NUT,HEX,1/2,UNC,GR5,ZP	80	9
31167	NUT,HEX,3/4,UNC,GR5,ZP	56	7
31167	NUT,HEX,3/4,UNC,GR5,ZP	57	7
31167	NUT,HEX,3/4,UNC,GR5,ZP	60	5
31167	NUT,HEX,3/4,UNC,GR5,ZP	88	5
31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	34	13
31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	36	12
31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	62	13
31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	66	4
31169	NUT,STOVER,5/8,UNC,GR5,ZP	58	15
31170	NUT,LOCK,STOVER,5/8,UNF,ZP	30	5
31170	NUT,LOCK,STOVER,5/8,UNF,ZP	31	5
31171	NUT,NYLOCK,1-1/4,UNC,ZP	58	16
31173	NUT,NYLOCK,1/2,UNC,ZP	34	14
31173	NUT,NYLOCK,1/2,UNC,ZP	36	13
31173	NUT,NYLOCK,1/2,UNC,ZP	38	18
31173	NUT,NYLOCK,1/2,UNC,ZP	40	11
31173	NUT,NYLOCK,1/2,UNC,ZP	42	11
31173	NUT,NYLOCK,1/2,UNC,ZP	44	14
31173	NUT,NYLOCK,1/2,UNC,ZP	46	14
31173	NUT,NYLOCK,1/2,UNC,ZP	48	4
31173	NUT,NYLOCK,1/2,UNC,ZP	49	4
31173	NUT,NYLOCK,1/2,UNC,ZP	50	4

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

31173	NUT,NYLOCK,1/2,UNC,ZP	52	7
31173	NUT,NYLOCK,1/2,UNC,ZP	53	7
31173	NUT,NYLOCK,1/2,UNC,ZP	56	8
31173	NUT,NYLOCK,1/2,UNC,ZP	57	8
31173	NUT,NYLOCK,1/2,UNC,ZP	58	17
31173	NUT,NYLOCK,1/2,UNC,ZP	62	14
31173	NUT,NYLOCK,1/2,UNC,ZP	91	3
31174	NUT,NYLOCK,1/4,UNC,ZP	34	15
31174	NUT,NYLOCK,1/4,UNC,ZP	36	14
31174	NUT,NYLOCK,1/4,UNC,ZP	38	19
31174	NUT,NYLOCK,1/4,UNC,ZP	83	12
31174	NUT,NYLOCK,1/4,UNC,ZP	92	5
31175	NUT,NYLOCK,3/4,UNC,ZP	86	3
31175	NUT,NYLOCK,3/4,UNC,ZP	87	4
31176	NUT,NYLOCK,3/8,UNC,ZP	32	5
31176	NUT,NYLOCK,3/8,UNC,ZP	52	8
31176	NUT,NYLOCK,3/8,UNC,ZP	53	8
31176	NUT,NYLOCK,3/8,UNC,ZP	56	9
31176	NUT,NYLOCK,3/8,UNC,ZP	57	9
31176	NUT,NYLOCK,3/8,UNC,ZP	78	1
31176	NUT,NYLOCK,3/8,UNC,ZP	80	10
31176	NUT,NYLOCK,3/8,UNC,ZP	92	6
31177	NUT,NYLOCK,5/16,UNC,ZP	44	15
31177	NUT,NYLOCK,5/16,UNC,ZP	46	15
31177	NUT,NYLOCK,5/16,UNC,ZP	70	5
31177	NUT,NYLOCK,5/16,UNC,ZP	72	6
31178	NUT,NYLOCK,5/8,UNC,ZP	34	16
31178	NUT,NYLOCK,5/8,UNC,ZP	36	15
31178	NUT,NYLOCK,5/8,UNC,ZP	66	5
31178	NUT,NYLOCK,5/8,UNC,ZP	67	5
31179	NUT,NYLOCK,9/16,UNC,ZP	40	12
31179	NUT,NYLOCK,9/16,UNC,ZP	42	12
31183	PIN,COTTER,3/16X2	60	3
31183	PIN,COTTER,3/16X2	70	7
31183	PIN,COTTER,3/16X2	72	7
31205	BOLT,HEX,5/8X4-1/2,UNC,GR8,ZP	58	18
31218	WASHER,LOCK,5/8,ZP	58	19
31218	WASHER,LOCK,5/8,ZP	62	15
31234	WASHER,SPFLAT,25/64X1-1/2X.083,ZP	80	11
31235	WASHER,FLAT,1,ZP	38	20
31236	WASHER,FLAT,1/2,ZP	38	21

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

31236	WASHER,FLAT,1/2,ZP	40	13
31236	WASHER,FLAT,1/2,ZP	42	13
31236	WASHER,FLAT,1/2,ZP	44	16
31236	WASHER,FLAT,1/2,ZP	46	16
31236	WASHER,FLAT,1/2,ZP	48	5
31236	WASHER,FLAT,1/2,ZP	49	5
31236	WASHER,FLAT,1/2,ZP	50	5
31236	WASHER,FLAT,1/2,ZP	56	10
31236	WASHER,FLAT,1/2,ZP	57	10
31236	WASHER,FLAT,1/2,ZP	62	16
31237	WASHER,FLAT,1/4,ZP	34	17
31237	WASHER,FLAT,1/4,ZP	36	16
31237	WASHER,FLAT,1/4,ZP	38	22
31237	WASHER,FLAT,1/4,ZP	83	13
31239	WASHER,FLAT,5/16,ZP	70	4
31239	WASHER,FLAT,5/16,ZP	72	8
31240	WASHER,FLAT,5/8,ZP	62	17
31240	WASHER,FLAT,5/8,ZP	66	6
31242	WASHER,FLAT,9/16,ZP	40	14
31242	WASHER,FLAT,9/16,ZP	42	14
31243	WASHER,LOCK,1,ZP	38	23
31244	WASHER,FLAT,1/2,ZP	34	18
31244	WASHER,FLAT,1/2,ZP	36	17
31244	WASHER,LOCK,1/2,ZP	38	24
31246	WASHER,LOCK,3/4,ZP	56	11
31246	WASHER,LOCK,3/4,ZP	57	11
31246	WASHER,LOCK,3/4,ZP	60	6
31246	WASHER,LOCK,3/4,ZP	88	4
31246	WASHER,LOCK,3/4,ZP	90	3
31315	BOLT,HEX,3/4X2-1/2,GR8,ZP	87	3
31315	BOLT,HEX,3/4X2-1/2,GR8,ZP	90	2
31319	WASHER,LOCK,3/8,ZP	67	7
31345	BOLT,HEX,3/8X3/4,UNC,GR5,ZP	80	12
31351	WASHER,FLAT,3/8,ZP	67	6
31351	WASHER,FLAT,3/8,ZP	80	13
31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	48	6
31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	49	6
31443	BOLT,HEX,5/16X1-1/4,UNC,GR5,ZP	44	13
31443	BOLT,HEX,5/16X1-1/4,UNC,GR5,ZP	46	13
31448	BOLT,HEX,1X2,UNC,GR8,ZP	38	25
31476	BOLT,HEX,5/8X6,UNC,GR5,ZP	62	18

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

31485	NUT,HEX,3/8,UNC,GR5,ZP	80	14
31486	BOLT,HEX,3/4X5,UNC,GR5,ZP	86	2
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	52	9
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	53	9
31588	NUT,HEX,3/4,UNF	78	2
31590	CHAIN,SAFETY,ASAE,10100LB,5'4"	87	1
31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	83	4
31613	TIE,CABLE,NYLON,BLACK,11 1/2	83	5
31649	ELEC,CLAMP,CABLE,1/2	82	5
31650	ELEC,CLAMP,CABLE,3/4	83	6
31668	WASHER,SPRING,3/4,342	40	5
31668	WASHER,SPRING,3/4,342	42	5
31668	WASHER,SPRING,3/4,342	44	9
31668	WASHER,SPRING,3/4,342	46	9
31668	WASHER,SPRING,3/4,342	48	7
31668	WASHER,SPRING,3/4,342	49	7
31739	RIVET,ST,3/16X.565,.375 HEAD	52	10
31739	RIVET,ST,3/16X.565,.375 HEAD	53	10
31739	RIVET,ST,3/16X.565,.375 HEAD	58	20
31777	NUT,HEX,3/4,UNC,GR8,ZP	90	4
31781	BOLT,HEX,3/8X3-1/2,UNC,GR5,ZP	80	16
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	56	3
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	57	3
31802	HYD,LINE,STEEL,115,1/2X.049,8FJ	70	3
31805	PIN,SPRING,3/16X1-1/2	52	11
31805	PIN,SPRING,3/16X1-1/2	53	11
31809	PIN,SPRING,3/32X5/16	54	3
31810	GRIP,HANDLE,1-1/4IDX4-1/2	54	4
31813	PIN,QUICK RELEASE,1/2X3,ZP	58	11
31814	CLIP,GRIPPER,1 - 1-1/2	52	12
31814	CLIP,GRIPPER,1 - 1-1/2	53	12
31814	CLIP,GRIPPER,1 - 1-1/2	58	12
31860	SPRING,COMPRESSION,3/4X1-7/8	52	13
31860	SPRING,COMPRESSION,3/4X1-7/8	53	13
31861	HITCH,BASE,3 IN 1	56	4
31861	HITCH,BASE,3 IN 1	57	4
31862	CLEVIS,HITCH,3IN1	86	1
31893	BOLT,CARR,1/2X4-1/2,UNC,GR5,ZP	91	2
31894	RETAINER,BOLT,1/2	34	19
31894	RETAINER,BOLT,1/2	36	18
31895	RETAINER,BOLT,1/4	34	20

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31895	RETAINER,BOLT,1/4	36	19
31923	WHEEL,COMPLETE,16.5LX16.1,8,WHITE	88	7
31951	ELEC_LIGHT,AMBER,4DIA,S/T/T	83	7
31952	ELEC_LIGHT,RED,4DIA,S/T/T	83	8
31953	GROMMET,LIGHT,4X4-1/2	83	9
31954	HYD,HOSE,1/2X120,8MP-8FJX,2W	76	8
31954	HYD,HOSE,1/2X120,8MP-8FJX,2W	77	8
31955	HYD,HOSE,3/8X40,8FJX-8FJX,2W	76	9
31955	HYD,HOSE,3/8X40,8FJX-8FJX,2W	77	9
31956	HYD,HOSE,3/8X56,8FJX-8FJX,2W	76	10
31956	HYD,HOSE,3/8X56,8FJX-8FJX,2W	77	10
31957	HYD,FIT,ADAPTER,8MB-8MJ,028 ORIFICE	76	7
31957	HYD,FIT,ADAPTER,8MB-8MJ,028 ORIFICE	77	7
31958	HYD,HOSE,1/2X36,8FJX-8FJX,2W	76	11
31959	SPRING,1.5X2.38X0.12	80	6
31960	SPRING,1X2.38X0.12	80	7
31961	HYD,HOSE,1/2X52,8FJX-8FJX,2W	76	12
31962	HYD,HOSE,3/8X36,8FJX-8FJX,2W	76	13
31962	HYD,HOSE,3/8X36,8FJX-8FJX,2W	77	11
31965	HYD,VALVE,DOUBLE_SELECTOR	76	16
31965	HYD,VALVE,DOUBLE_SELECTOR	80	8
31980	DRV,BRG,FLANGE,2-1/4	36	6
31981	HYD,HOSE,3/8X28,8FJX-8FJX,2W	72	9
31982	HYD,HOSE,3/8X20,8FJX-8FJX,2W	72	10
31983	HYD,HOSE,3/8X210,8MP-8FJX,2W	72	11
31984	HYD,HOSE,1/2X40,8FJX-8FJX,2W	77	12
31985	HYD,HOSE,1/2X30,8FJX-8FJX,2W	77	13
31987	NUT,COUPLING,1/2,UNC,ZP	80	17
32070	BUSHING,MACHINE,10GAX1"X1-1/2"	44	17
32070	BUSHING,MACHINE,10GAX1"X1-1/2"	46	17
32082	HYD,FIT,ADAPTOR,8MP-8MP	87	2
32250	HYD,CYL,PIN,1	72	12
32250	HYD,CYL,PIN,1	78	7
32257	ROD CAP	74	2
32301	SUSP,BOLT,WHEEL,9/16X1-1/4TX1-13/16L	89	12
32324	SUSP,TIRE,16.5LX16.1,ST2,6PLY	89	2
32325	SUSP,RIM,W14CX16.1,+.375,8,WH	89	1
32336	SUSP,BOLT,WHEEL,1/2X1-1/4	61	6
32639	BEARING,THRUST,FRONT	79	13
32643	ROTOR KIT	79	5
32647	SEAL KIT,ROLLER STATOR	79	1

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32649	BEARING,HOUSING,REAR,1/2"	79	4
32651	BEARING,THRUST,REAR	79	2
32653	SHAFT KIT	79	8
32655	BOLT KIT	79	12
32720	BEARING,HOUSING,FRONT	79	3
32722	DRIVE LINK KIT	79	6
32723	HOUSING KIT	79	7
32725	MANIFOLD	79	9
32726	BALANCE PLATE AND BALLS	79	10
32727	END COVER	79	11
32805	SPRINT,CLUTCH,6000	62	8
32975	HYD,VALVE,CONTROL,FLOW,8FP	87	1
32981	DECAL,PIMA	18	6
32981	DECAL,PIMA	20	6
32987	YOKE AND SHAFT	69	6
32988	OUTER GUARD	69	10
32989	INNER GUARD	69	11
32990	YOKE,TUBE AND SLIP SLEEVE	69	13
32991	BALL SHEAR ASSEMBLY	69	15
33017	WASHER,LOCK,HIGH-COLLAR,1/2,ZP	38	26
33026	HYD,FIT,PLUG,8ORB,HOLLOWHEX	78	6
33027	HYD,CYL,CLEVIS,CAP,2,8ORBF	78	8
33028	HYD,CYL,CAP,ROD,2X1-1/8,8ORBF	78	9
33029	HYD,CYL,ROD,1-1/8X14-3/4	78	10
33030	HYD,CYL,2X8,H6203	78	11
33031	HYD,CYL,PISTION,2,H6688	78	12
33032	HYD,CYL,TIEROD,3/8X8	78	13
33033	HYD,CLEVIS,1-1/8,1PIN	78	14
33034	HYD,CYL,SEALKIT,2,639572	78	15
33100	CASE-900	64	1
33101	GEAR-22T-1.75 BORE	64	2
33102	BEARING CONE	64	3
33103	BEARING CUP	64	4
33104	BEARING CONE	64	5
33105	BEARING CUP	64	6
33106	OIL SEAL-VITON	64	7
33107	SHIM-SHAFT	64	8
33108	SHIM-COVER	64	9
33109	SNAP RING	64	10
33110	KEY:3/8 SQ	64	11
33111	BOLT:3/8-16 UNCX1.00 GR5	64	12

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

33112	PLUG:1/2 NPT	64	13
33113	PLUG:3/8 NPT	64	14
33114	VENT:1/2 NPT	64	15
33115	EXPANSION PLUG	64	16
33116	SPACER TUBE	64	17
33117	WASHER	64	18
33118	QUILL HOUSING	64	19
33119	COVER-CLOSED	64	20
33120	QUILL SHAFT	64	21
33121	THRU SHAFT	64	22
33124	MPM 18209 DIN CONNECTOR	94	2
33126	COIL,C4801-V12-DCGM5050/5051	94	1
33128	NUT GM 5043	94	3
33129	SPRING,RETURN	94	4
33138	BOOT,OVERRIDE	94	5
33200	BOLT,HEX,1/4X3-1/4,UNC,GR5,ZP	92	7
33201	HYD,VALVE,ELEC_DOUBLE_SELECTOR	92	3
37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	83	11
45099	BOLT,STUD,5/8X3-3/4,UNF,GR8	30	1
45099	BOLT,STUD,5/8X3-3/4,UNF,GR8	31	1
45185	PIN,CYL,TOP	70	6
45185	PIN,CYL,TOP	72	1
45185	TOP CYLINDER PIN	74	11
45192	DUMP	58	1
45222	SUSP,TIRE,11LX15FI	61	3
45223	SUSP,WHEEL,15X9LB,1.12OFF,6	61	1
45224	SUSP,HUB,H611,3600LBS	60	1
45230	DRV,DL,35R,CV,CAT4,ROT	66	1
45232	HYD,VALVE,DIVIDER	38	1
45232	HYD,VALVE,DIVIDER	76	15
47012	GUARD,TWINE,REAR	38	2
47019	GUARD,TWINE,FRONT	38	3
49007	SCREEN,SPILL	50	1
49014	DEFLECTOR,BALE	50	2
49015	PLATE,SLIDE,REAR	38	4
49017	ROLLER,FEED,COMPLETE	38	5
49020	SUPPORT,CV	56	1
49022	AXLE	60	2
49027	ROLLER,FEED	32	1
49053	GUARD,ROLLER,FEED	38	6
49054	GUARD,DRUM,FLAIL	34	1

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

49054	GUARD,DRUM,FLAIL	36	1
49065	EXTENSION,AXLE,SHORT,BP	90	1
49089	WHEEL,COMPLETE,BP,OFF-WHITE	60	3
49093	FORK,LEFT	58	2
49094	FORK,RIGHT	58	3
49095	BUMPER	58	4
49096	PLATE,SLIDE,FRONT	38	7
49099	DOOR,DISCHARGE,BOTTOM	48	1
49101	HANDLE,ADJ,ROD,FLAIL	40	1
49101	HANDLE,ADJ,ROD,FLAIL	42	1
49102	HANDLE,DEFLECTOR,BOTTOM	48	2
49102	HANDLE,DEFLECTOR,BOTTOM	49	1
49107	ROD,ADJ,ROLLER,FEED	38	8
49108	GUARD,FLAIL	40	2
49108	GUARD,FLAIL	42	2
49110	BAR,ADJ,GUARD,FLAIL	40	3
49159	DRUM,FLAIL,WITH CUTTER	30	2
49160	DRUM,FLAIL,WITH CUTTER,COMPLETE	34	2
49163	PLATE,BEARING,FRONT	34	3
49164	CUTTER,TWINE	54	1
49165	CUTTER,TWINE,COMPLETE	52	1
49165	CUTTER,TWINE,COMPLETE	53	1
49169	AXLE,16.5X16.1,RIGHT	88	1
49173	AXLE,16.5X16.1,LEFT	88	2
49196	LOCK,CYLINDER,DUMP	58	5
49204	ELEC,LIGHT,12V,REWORKED	82	1
49205	ELEC,HARNESS,LIGHT,OPTIONAL	82	2
49235	BAR,ADJ,GUARD,FLAIL,HDR	42	3
49236	DOOR,DISCHARGE,BOTTOM,HDR	49	2
49285	WLDT,COVER,CUTTER	52	2
49285	WLDT,COVER,CUTTER	53	2
49307	ASSY,DRUM,FLAIL,HDR,COMPLETE	36	2
49308	WLDT,DRUM,FLAIL,HDR,INT SPL	31	2
49309	WLDT,PLT,BRG,FRONT,HDR	36	3
49310	WLDT,DOOR,DISCHARGE,HDR	46	1
49311	WLDT,PIN,DOOR,FRONT	46	2
49364	ELEC,HARNESS,LIGHT,BP	83	1
49365	WLDT,DOOR,DISCHARGE	44	1
49367	WLDT,PIN,DOOR,FRONT	44	2
49368	WLDT,LOCK,DOOR	44	3
49368	WLDT,LOCK,DOOR	46	3

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

49370	WLDT,FORK,NARROW	91	1
49384	WLDT,ROD,SELECTOR	80	1
49396	PIN,ADJUSTMENT,ROD,FLAIL,HDR	42	4
49420	ELEC,HARNESS,TRACTOR_RFLIGHT	82	3
49421	ELEC,HARNESS,SELECTOR VALVE	92	1
49437	WLDT,CV HOLDER,HDR	57	1
49449	DRV,GEARBOX,INLINE REV,1:1	62	1
49450	DRV,DL,35R,CV,CAT4,ROT,30 COM	67	1
49451	PIN,ADJUSTMENT,ROD,FLAIL,HD	40	4
49500	WLDT,GEARBOX,MOUNT,HDR	62	2
49550	WLDT,GUARD,SHAFT,GEARBOX	62	3
90104	HYD,CYL,2X8,1.125,8FB	44	10
90104	HYD,CYL,2X8,1.125,8FB	46	10
90104	HYD,CYL,2X8,1.125,8FB	76	17
90133	HYD,CYL,3X16,1.5,8FP	70	1
90133	HYD,CYL,3X16,1.5,8FP	72	13
90332	HYD,HOSE,3/8X20,8FJX-8FJX,2W	70	11
90333	HYD,HOSE,3/8X28,8FJX-8FJX,2W	70	10
90676	SEAL KIT	74	10
90706	PISTON	74	3
90722	1-14 NUT,UNF	74	9
90800	1/2" NUT,UNF	74	7
90802	1/2" TIE ROD	74	6
90846	1-1/2" ROD	74	4
90849	ROD CLEVIS	74	8
90991	CLEVIS CAP	74	1
90993	CYLINDER TUBE	74	5
91048	SUSP,STEM,VALVE,TR415	61	2
91048	SUSP,STEM,VALVE,TR801HP	89	3
91111	DRV,BRG,TAPERED,OUTER,1.375	89	8
91130	SUSP,BRG,RACE	61	8
91131	DRV,BRG,RACE,OUTER,1.375	89	9
91133	BRV,BRG,TAPERED,INNER,1.781	89	10
91150	SUSP,BRG,RACE	61	7
91703	ZERK,1/4-28X45°	58	13
92028	SIGN,SLOWMOVING,S276.5	18	7
92028	SIGN,SLOWMOVING,S276.5	20	7
92081	WASHER,FLAT,3/16X20DX9/16 ID	34	8
92081	WASHER,FLAT,3/16X20DX9/16 ID	36	7
92091	DRV,BRG,FLANGE,1-3/4	34	9
92091	DRV,BRG,FLANGE,1-3/4	36	8

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

92094	DRV,BRG,FLANGE,1-3/8	38	11
92127	COVER,VINYL,3/8X1-1/2	40	6
92127	COVER,VINYL,3/8X1-1/2	42	6
92127	COVER,VINYL,3/8X1-1/2	48	8
92127	COVER,VINYL,3/8X1-1/2	49	8
92145	HYD,MOTOR	38	12
92145	HYD,MOTOR	76	14
92558	DECAL,WARNING,FOR ADJUSTMENT	18	8
92558	DECAL,WARNING,FOR ADJUSTMENT	20	8
92562	DECAL,WARNING,HITCH,JACK	18	9
92562	DECAL,WARNING,HITCH,JACK	20	9
92573	DECAL,DANGER,OCTAGON	18	10
92573	DECAL,DANGER,OCTAGON	20	10
92579	DECAL,HIGHLINE,4X30	18	11
92579	DECAL,HIGHLINE,4X30	20	11
E2083	PIPE,CDBW,1X.180X2-1/8L	30	3
E2083	PIPE,CDBW,1X.180X2-1/8L	31	3
E2138	PLATE,RETAINER,SLIDE	38	9
E3003	PLT,WEIGHT,BELTING	44	4
E3003	PLT,WEIGHT,BELTING	46	4
E3265	DECAL,GREASEZERK,8H	18	12
E3265	DECAL,GREASEZERK,8H	20	12
E3266	DECAL,GREASEZERK,16H	18	13
E3266	DECAL,GREASEZERK,16H	20	13
E3276	PLT,C,3/8X11/16X1-1/2	58	6
E3581	BELTING,ROLLER,FEED,14 HOLE	32	2
E3646	PIPE,SMLS,2-1/4X.240X3/8L	34	4
E3646	PIPE,SMLS,2-1/4X.240X3/8L	36	4
E3669	SHAFT,1/2X1	83	2
E5017	PLT,RETAINING,BELTING	44	5
E5017	PLT,RETAINING,BELTING	46	5
E5018	BELTING,DISCHARGE	44	6
E5018	BELTING,DISCHARGE	46	6
E5057	DECAL,HIGHLINE,72X10	18	14
E5057	DECAL,HIGHLINE,72X10	20	14
E5377	FLAIL,TG,.447	30	4
E5377	FLAIL,TG,.447	31	4
E5673	BRACKET,MOUNT,LIGHT	82	4
E5838	BLADE,TWINE CUTTER	54	2
E5845	SHT,HOLDER,TWINE CUTTER	52	3
E5848	LOCK,HANDLE,DRUM,FLAIL	52	4

*Highline Mfg.Inc.**BP 7000HD-A and BP 7000HDR-A*

E5848	LOCK,HANDLE,DRUM,FLAIL	53	3
E5850	LOCK,DRUM,FLAIL	52	5
E5850	LOCK,DRUM,FLAIL	53	4
E5856	GUARD,CUTTER,FRONT	34	5
E5856	GUARD,CUTTER,FRONT	36	5
E5857	DECAL,TWINE CUTTER	18	15
E5857	DECAL,TWINE CUTTER	20	15
E5868	DECAL,LOCK,CYLINDER	18	16
E5868	DECAL,LOCK,CYLINDER	20	16
E6105	DECAL,WARNING,CV ANGLE	18	17
E6105	DECAL,WARNING,CV ANGLE	20	17
E6142	SHT,HOLDER,TWINE CUTTER,HDR	53	5
E6150	PLT,C,1/4X13/16X2-1/4	87	2
E6174	PIPE,SMLS,7/8X.188X1L	80	2
E6188	PIPE,SMLS,3/4X.120X13/16L	44	7
E6188	PIPE,SMLS,3/4X.120X13/16L	46	7
E6192	DECAL, BALE PRO 7000 HDR	20	18
E6258	DECAL, BALE PRO 7000 HD	18	18
E6259	MOUNT,LAMP,GROMMET,2X4-1/2	83	3
E6263	GUARD,SELECTOR,INDICATOR	80	3
E6264	PLT,INDICATOR,SELECTOR	80	4
E6282	PLT,ANGLE,MOUNT,GEARBOX	62	4
E6283	ANGLE,MOUNT,GEARBOX	62	5
E6327	BUSHING,SELECTOR	80	5
E6328	REFLECTIVE,TAPE,SELECTOR	18	19
E6328	REFLECTIVE,TAPE,SELECTOR	20	19
E6402	DECAL,ROD ADJ,HD	18	20
E6405	PIPE,SMLS,2-1/4X.240X1/4L	34	6
E6406	PIPE,SMLS,2-1/4X.240X1/8L	34	7
E6412	DECAL,ROD ADJ,HDR	20	20
E6417	PLT,ELEC,VALVE,MOUNT	92	2
E6503	BAR,ANITROTATION,GEARBOX	62	6
E6506	BRACKET,SMV	20	21
E6508	DRV,GUARD,CV,HDR_7010	67	2
E6526	PLT,SCRAPER,RUBBER	32	3

7.0 Specifications

Minimum Horse Power:	85 HP
Capacity:	2 bales - 6' long x 6' diameter - max. 2000 lbs each
Flail Drum Length:	71"
Flail Drum Diameter:	24 1/4" Balanced
Flails:	26 - 7/16" x 6 7/16" Tempered Spring Steel
Tires:	2 - 11L X 15 Highway Service (Inflate to 45 psi)
Floatation Tires (Optional):	2 - 16.5LX 16.1 Softrac (Inflate to 24 psi)
Height:	105 - 1/2" (Fully Assembled)
Width:	106"
Length:	186 - 1/2"
Weight:	4200 lbs
Hitch Weight (Empty):	1380 lbs
Drawbar Weight (with bale in chamber):	2650 lbs
PTO Requirements:	1000 RPM PTO
Dual Hydraulics:	Dual remote, 2000 psi
Cylinders:	2 - 3" x 16", 1 1/2" Rod Diameter

Dealer Information

Dealer: _____

Address: _____

City: _____

Province / State: _____

Postal Code / Zip Code: _____

Phone: _____



Identification Numbers

Model Number: _____

Serial Number: _____

Dealer Checklist

Bale Pro Dealer Checklist

Checked	Check List Item
	Flail rod adjustment handle moves freely and will hit all 5 adjustment holes.
	Bottom deflector door moves freely and will hit all 4 adjustment holes.
	Free and proper movement of selector rod.
	Transport lock for deflector door is installed and functional.
	Position feed rollers - Discharge 3 1/8" - top of Acme rod to top of lug.
	Non-discharge 4 5/8" - top of Acme rod to top of lug.
	Ensure all grease point decals are installed
	Ensure lift assembly is against frame when cylinders are retracted.
	Guards installed on exposed rotating shafts (ie. rotor, feed rollers)
	Tail/warning lights installed and functional . When applicable
	Gearbox filled with oil. When applicable
	Check tire pressure and adjust as required.(See Specifications - page 75)
	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 with nylon tie straps in storage position for shipping.
	Gripper clip for extension guide is installed and functional.
	Full library of manuals (operators, and parts) shipped w/machine. When applicable
	Mini operators manual tethered into plastic box. When applicable
	Perform a full 1000 rpm operation test of all components:
	- feed rollers (slide easily in slide retainers)
	- flail drum (not binding on twine guards)
	- discharge door activates (when dump is down)
	- feed rollers activate (when dump is up)
	- flails not hitting tub or rods
	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.