

Bale Pro 7000HD-3 2003 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 MERCHANTABILITY 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-3!* 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-3*. In this manual you will find safety procedures, maintenance routines and detailed parts diagrams. This bale processor model was designed for controlled, aggressive processing with less bunching. A little time and effort spent following the recommended maintenance procedures will increase the performance and durability of your bale processor.

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

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

Highline Mfg. Inc. thanks and congratulates you for choosing the *Bale Pro 7000 HD-3* as the live-stock 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.



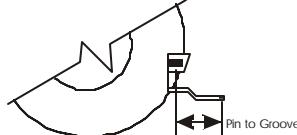
Before operating the Bale Pro 7000 HD-3, be sure to review *all* of the instructions and familiarize yourself with its features.

1.0 Operating Instructions

1.1 General Operating Instructions

Successful operation of the Bale Pro 7000 HD-3 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 BP7HD-3.

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-3 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 either the feed roller hydraulic circuit or has its own hose hookup to the tractor. The deflector door stroke has been preset at the factory to bring the door up to the fully up position. The cylinder can be adjusted as necessary by removing the rod pin and turning the clevis in or out to adjust the stroke. *If your machine has the Mechanical Valve Option then 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.

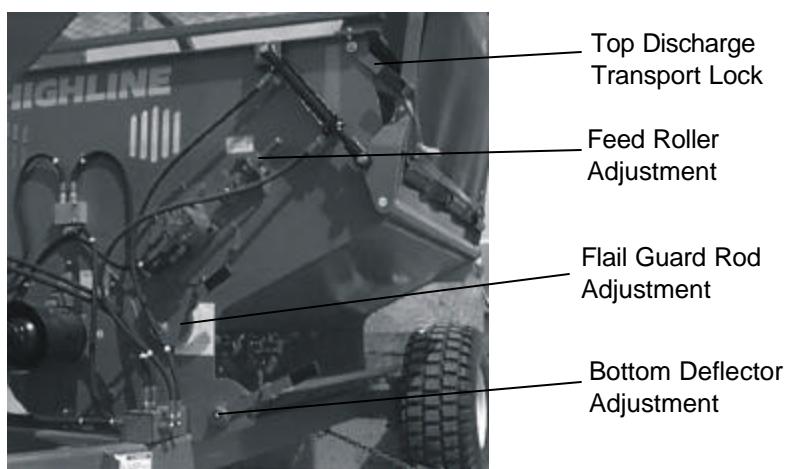
The door may drop a small amount (1/4") as the bale forks are brought to the fully down position and up again even if the door is not adjusted. This is caused by cross leakage inside the selector valve and should not be a problem except for repeated actuation of the selector valve. This leakage can be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

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. *If you have selected the Mechanical Valve Option, 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.

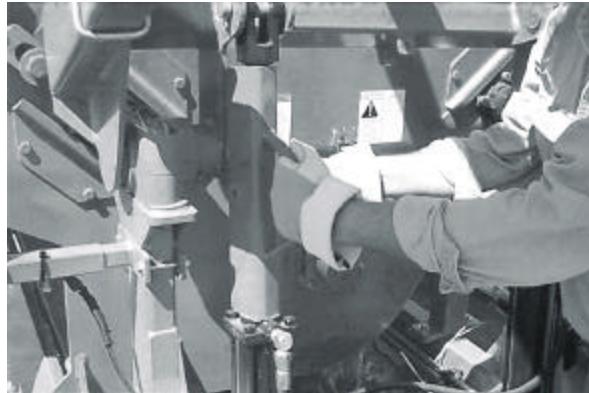


1.2 Twine Removal Procedure

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.

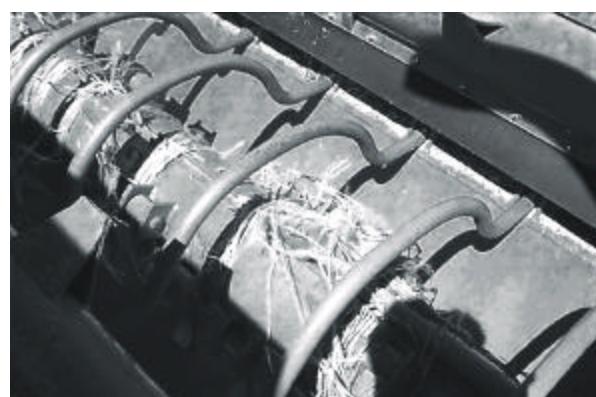


7. Align the twine cutter with the groove on the extension guide (Figure A). Slide the tool into the groove and cut through the twine in a saw-like action (Figure B).

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.



2.0 Maintenance Instructions

Please follow these maintenance procedures to ensure years of trouble free operation of your Bale Pro 7000 HD-3.

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.

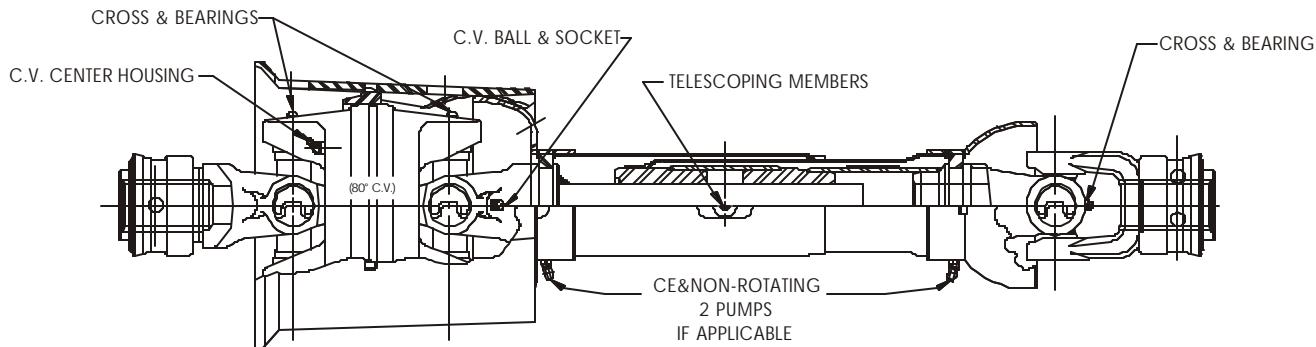
Casted pipe clamps for the bale forks should be checked every 50 bales and tightened if necessary.

Maintaining proper lubrication of the Bale Pro 7000 HD-3 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. Casted Pipe Clamps (Left and Right): Every 16 hrs.
3. Wheel Hub Bearings (Left and Right): Every 16 hrs.
4. Forks (Left and Right): Every 16 hrs.

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

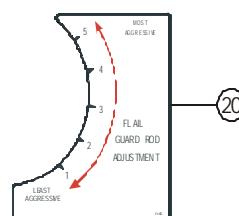
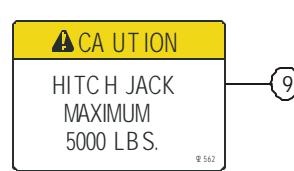
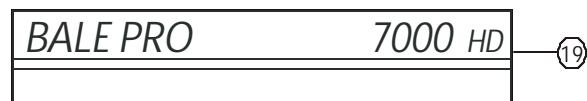
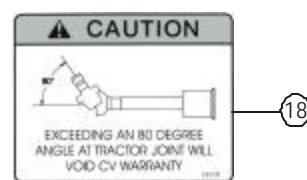
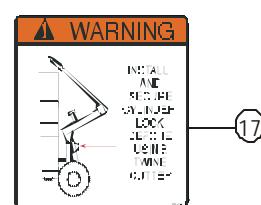
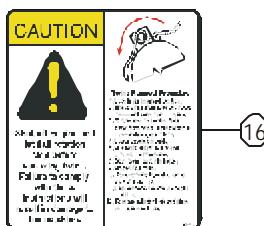
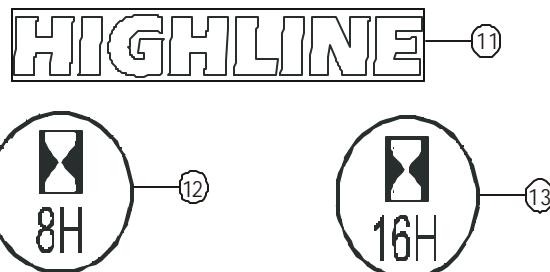
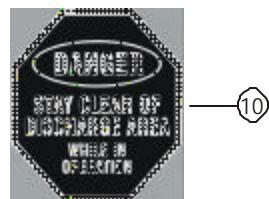
***Use low temperature grease when the temperature reaches below 0° Celsius (32° Fahrenheit).**



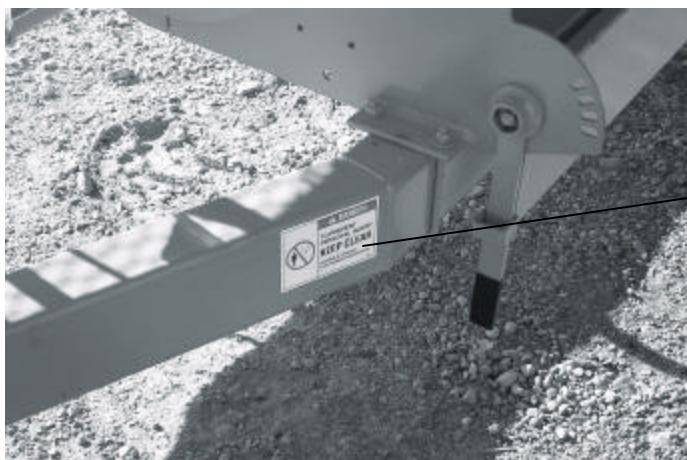
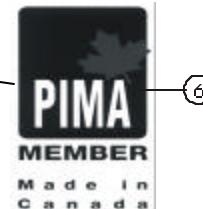
3.0 Decal Location (Part No. 49296)

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	6
14	E3834	DECAL,DANGER,DO NOT STAND	1
15	E5057	DECAL,HIGHLINE,71X10	2
16	E5857	DECAL,TWINE CUTTER	1
17	E5868	DECAL,LOCK,CYLINDER	1
18	E6105	DECAL,WARNING,CV ANGLE	1
19	E6258	DECAL,BALE_PRO_7000HD	2
20	E6402	DECAL,ROD ADJ,HD	1

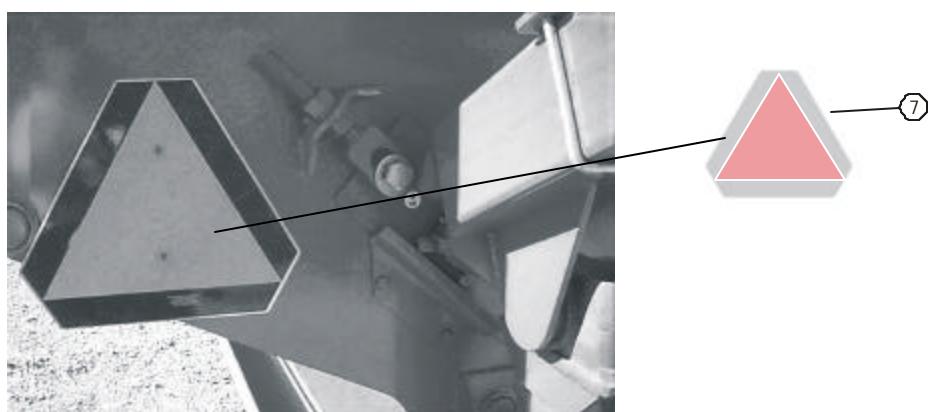
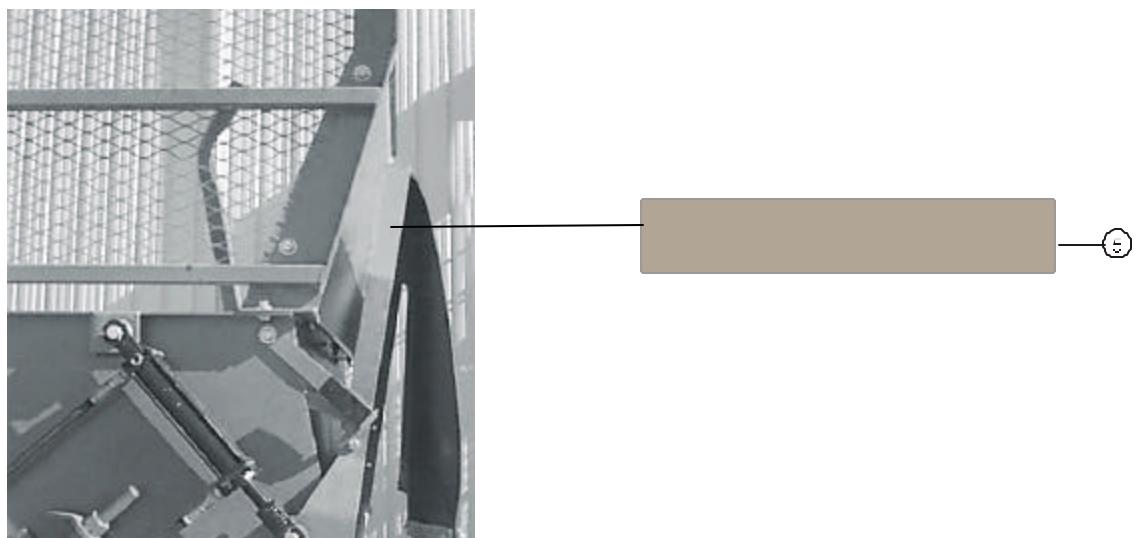
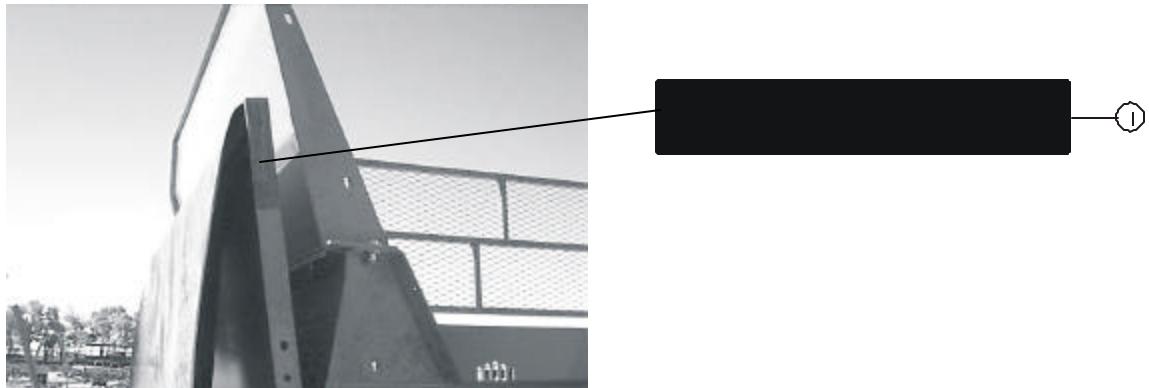
3.0 Decal Location (cont'd)



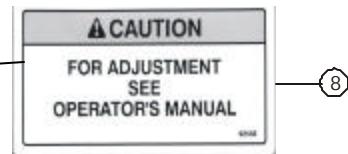
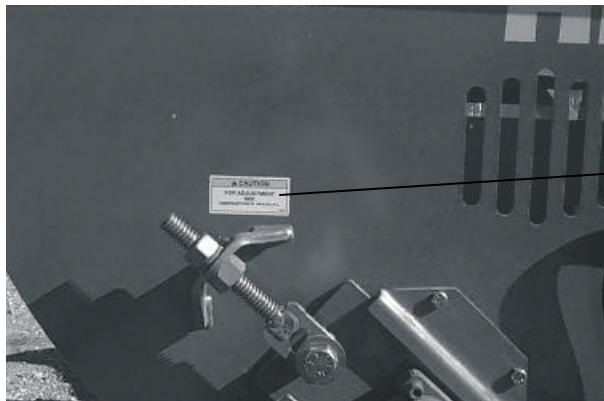
3.0 Decal Location (cont'd)



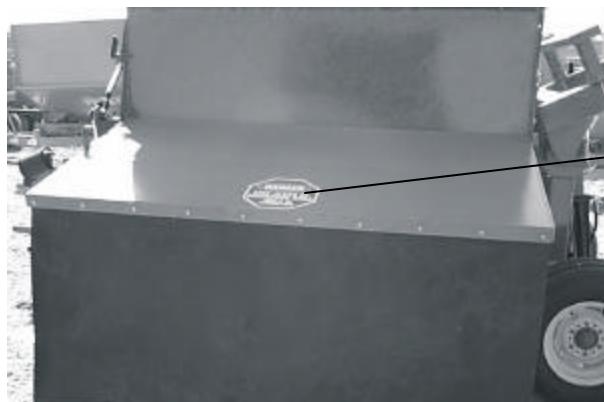
3.0 Decal Location (cont'd)



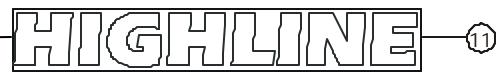
3.0 Decal Location (cont'd)



⑧

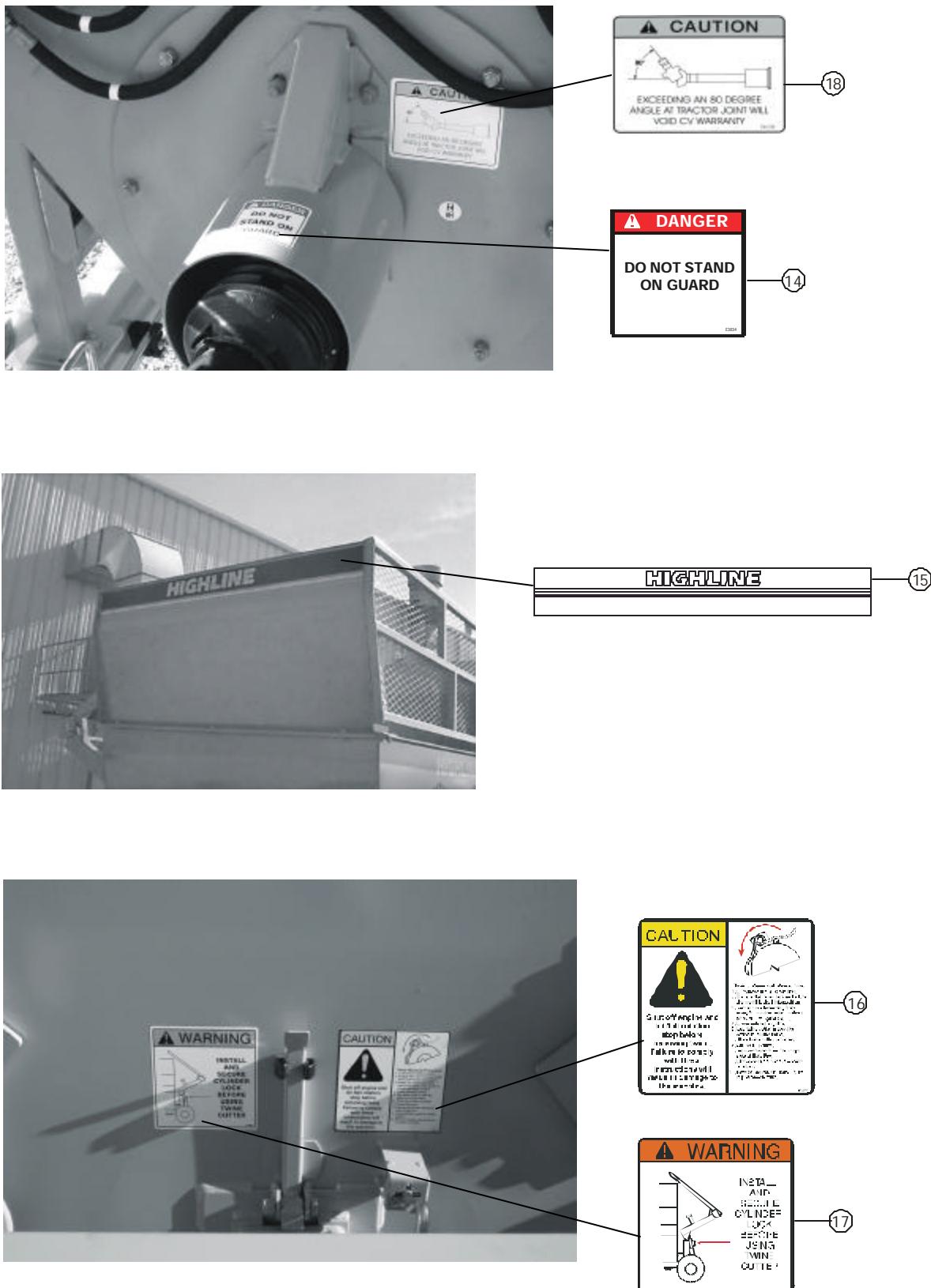


⑩



⑪

3.0 Decal Location (cont'd)



3.0 Decal Location (cont'd)



BALE PRO
7000 HD

⑯



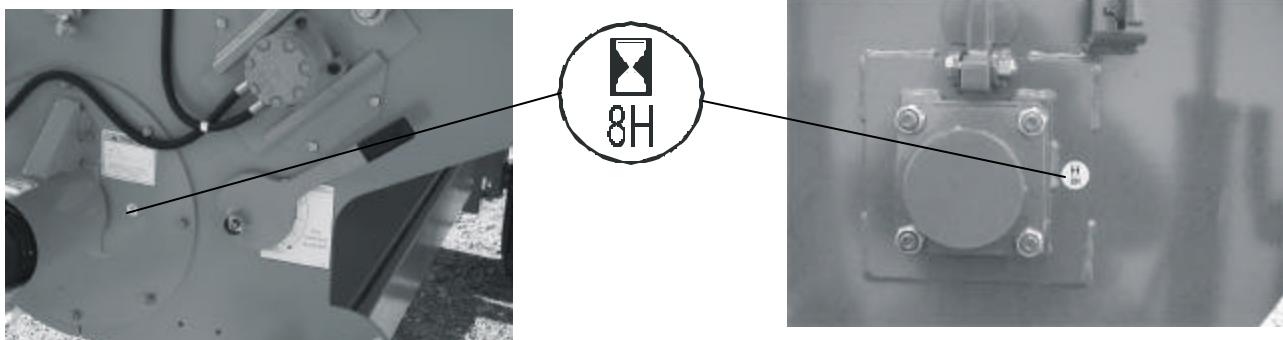
MOULDED
GUARD ROD
ADJUSTMENT
FL. AL.
1
2
3
4
5
LEAF
ADJUST SAE

⑰

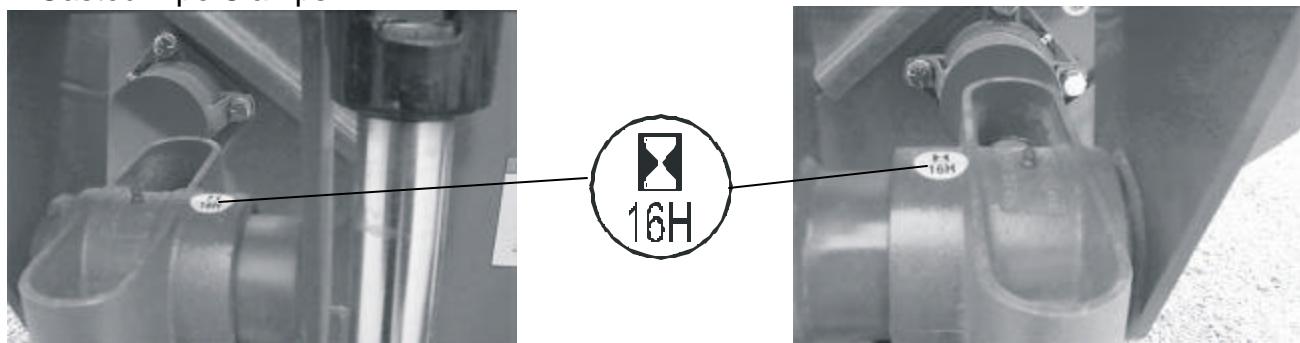
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3.1 Grease Zerk Locations

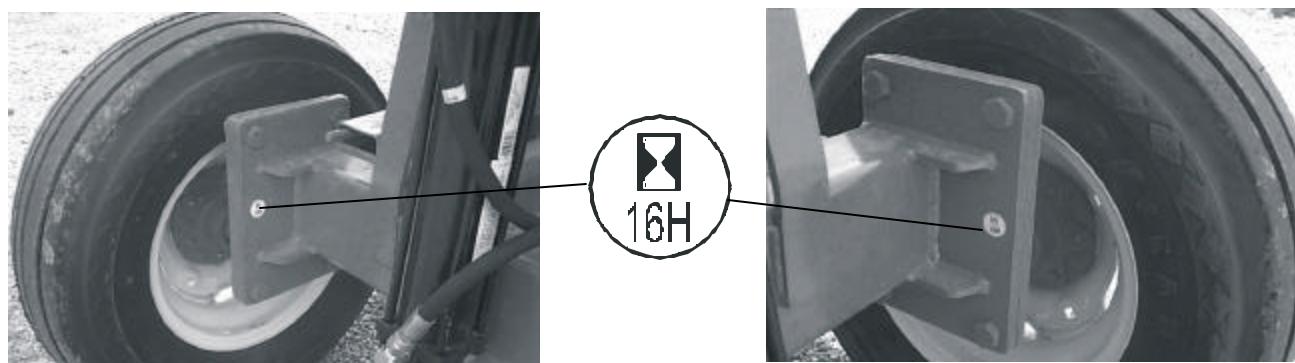
1. Flail Drum Bearings



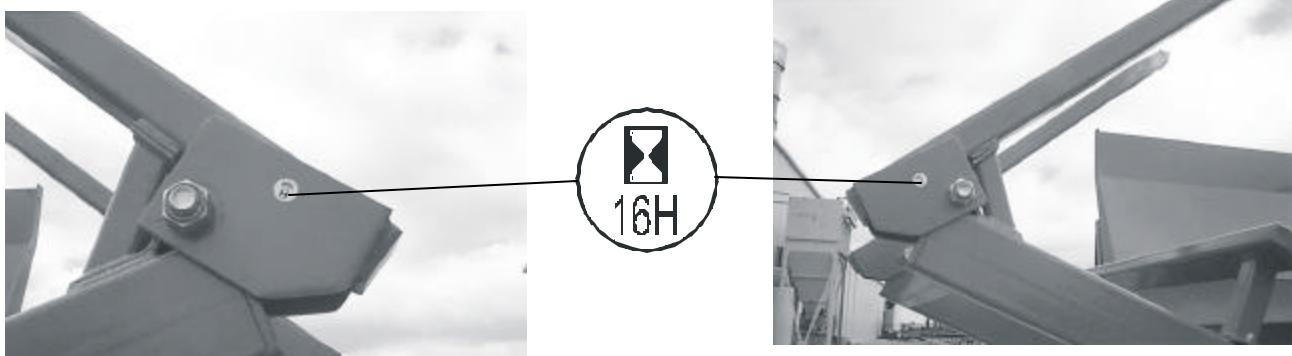
2. Casted Pipe Clamps



3. Wheel Hub Bearings



4. Forks

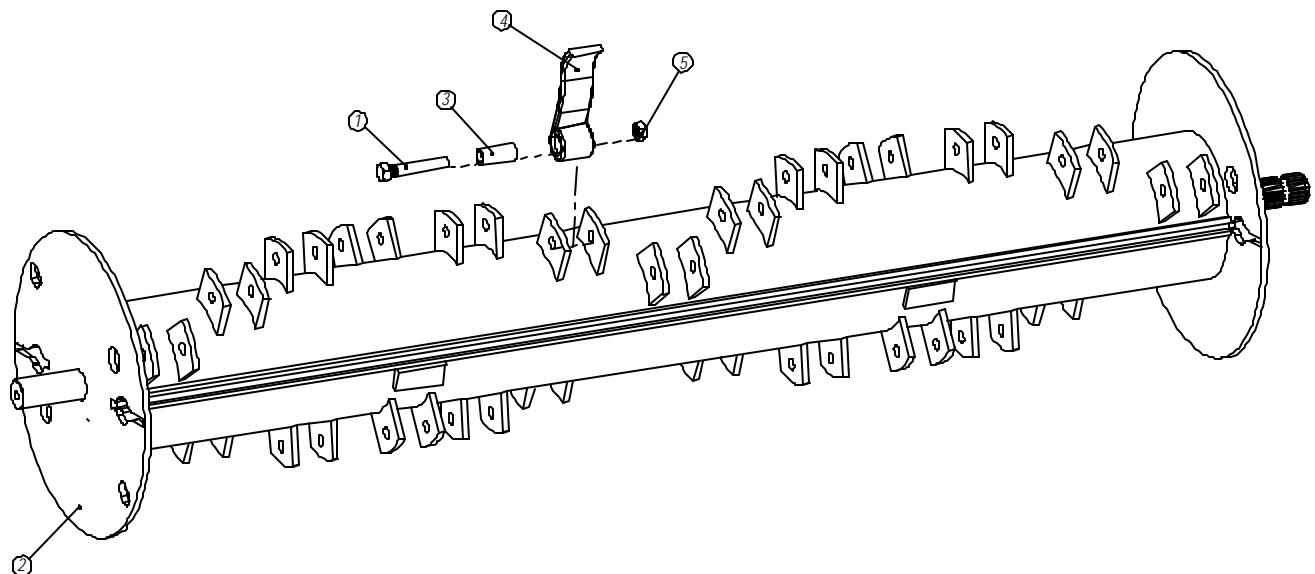


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4.0 Parts Information

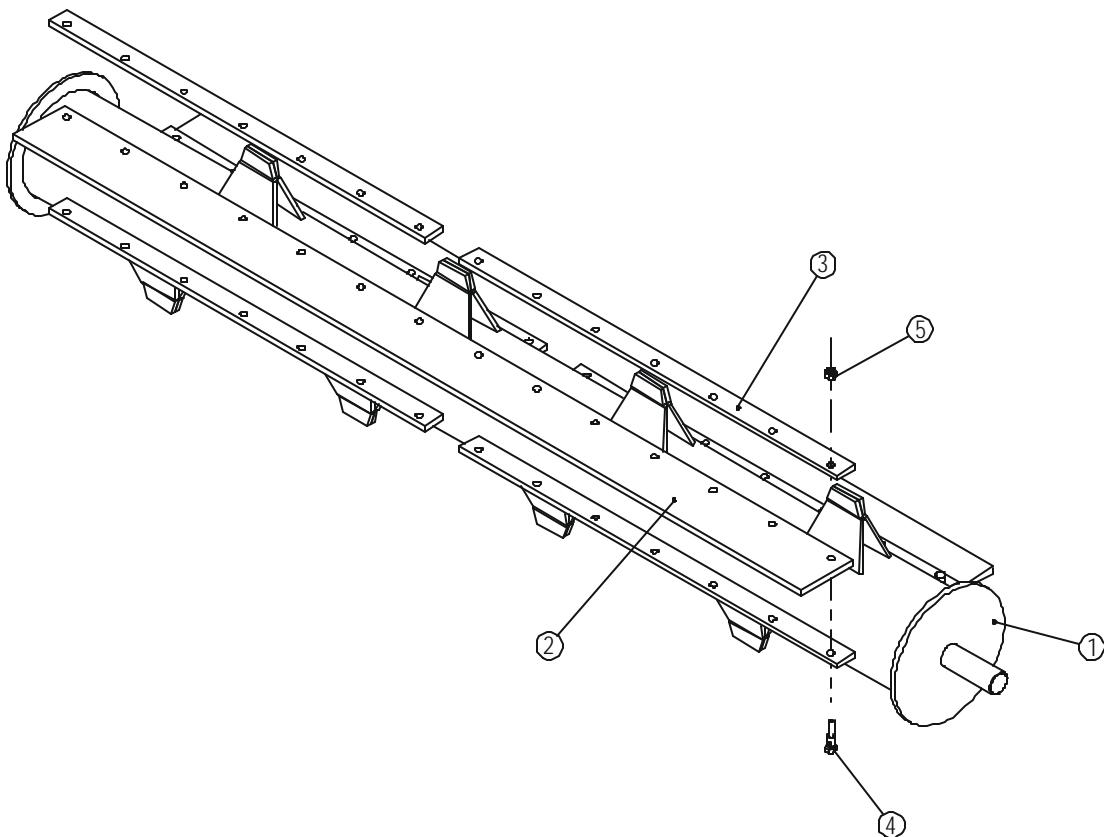
4.1 Flail Drum Assembly (Part No. 49160)

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,CDB W,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)

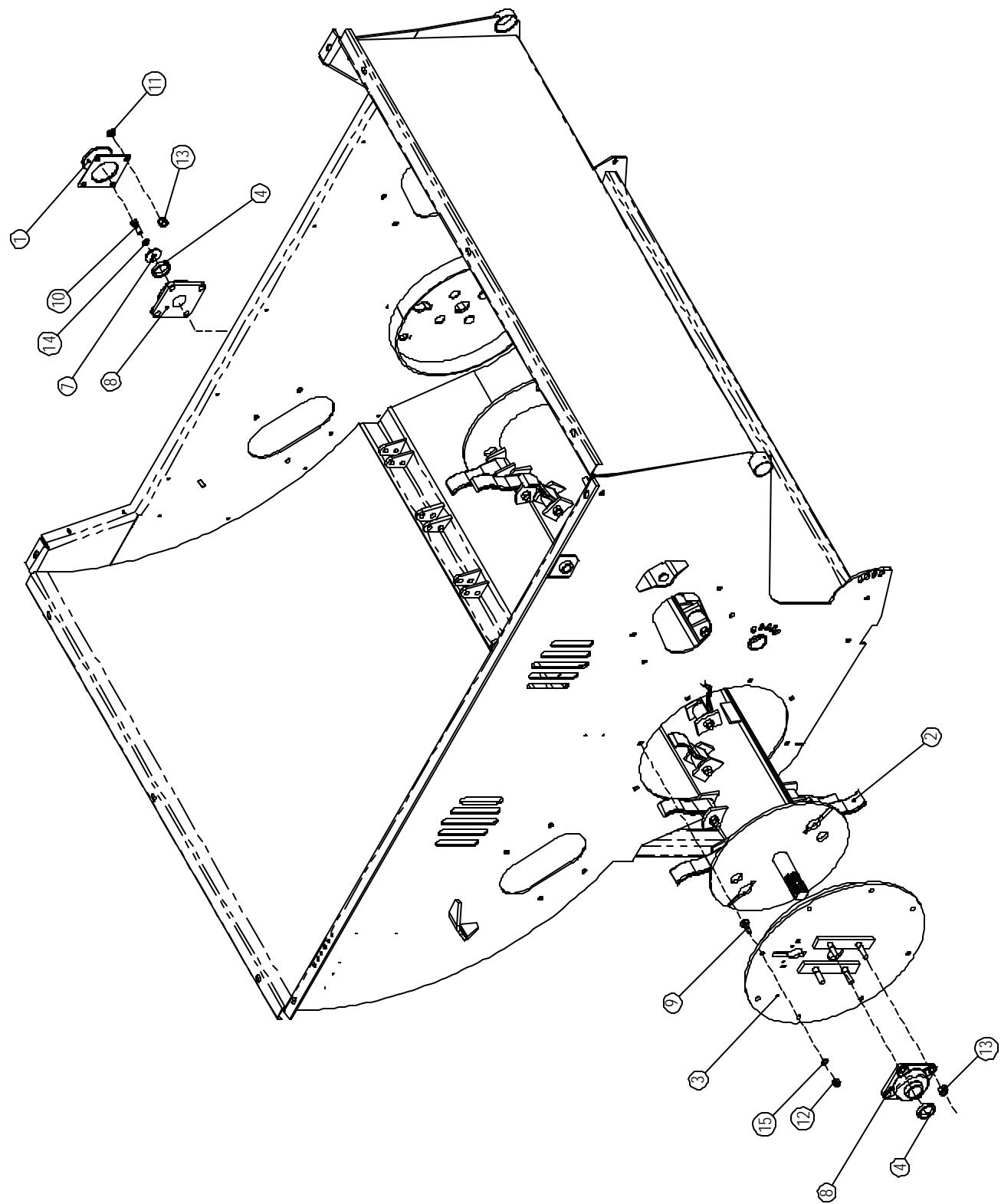
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49027	ROLLER, FEED	1
2	E3581	BELTING,ROLLER,FEED,14 HOLE	2
3	E6526	PLT,SCRAPER,RUBBER	4
4	31066	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP	28
5	31176	NUT,NYLOCK,3/8,UNC,ZP	28



4.3 Flail Drum Installation (Part No. 49177)

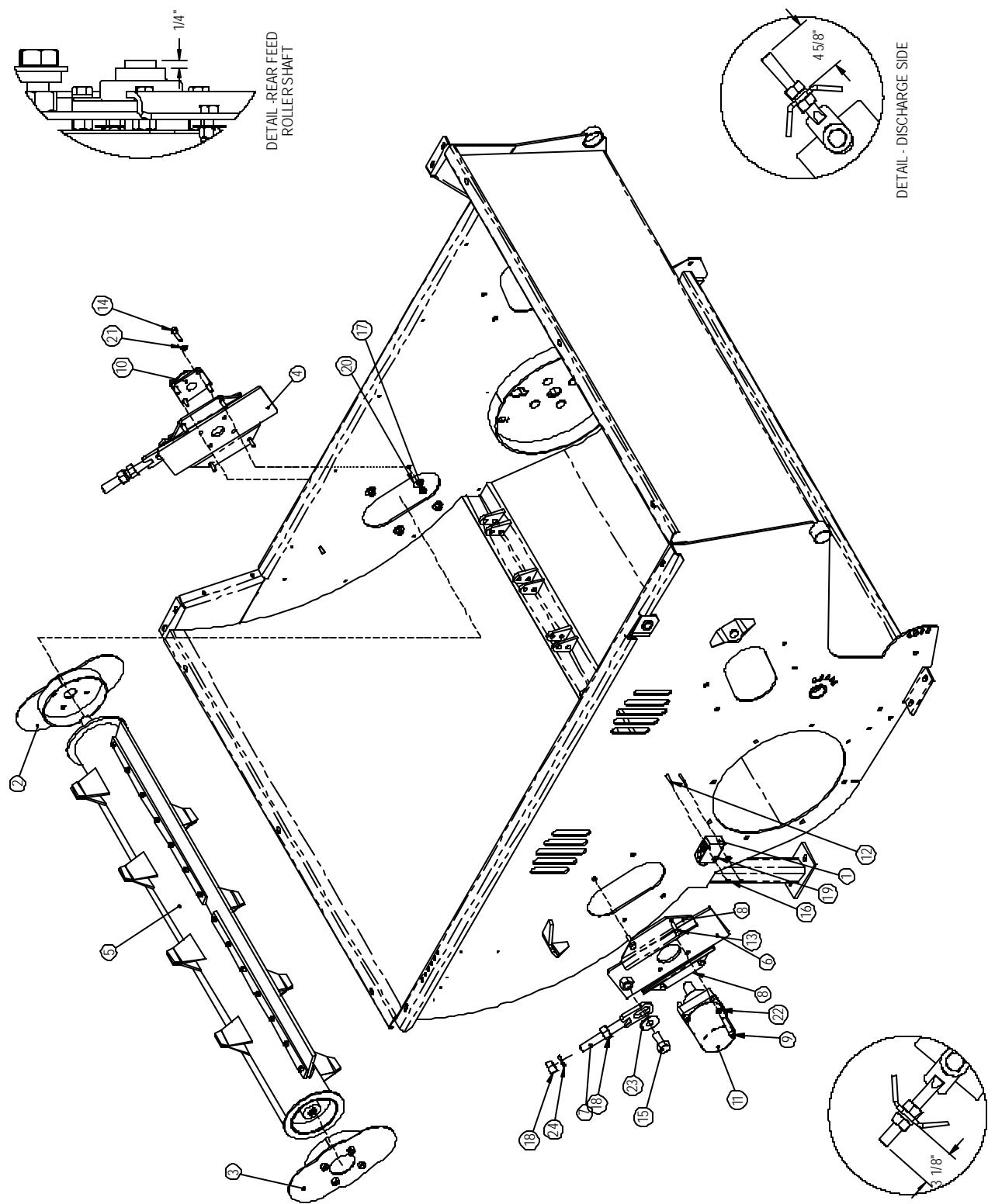
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49054	GUARD, DRUM, FLAIL	1
2	49160	DRUM, FLAIL, WITH CUTTER, COMPLETE	1
3	49163	PLATE, BEARING, FRONT	1
4	E3646	PIPE,SMLS,2-1/4x.240x3/8L	2
5	E6405	PIPE,SMLS,2-1/4x.240x1/4L	1
6	E6406	PIPE,SMLS,2-1/4x.240x1/8L	1
7	92081	WASHER,FLAT,3/16X20DX9/16ID	1
8	92091	DRV,BRG,FLANGE,1-3/4"	2
9	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	8
10	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	1
11	31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	4
12	31173	NUT,NYLOCK,1/2,UNC,ZP	8
13	31178	NUT,NYLOCK,5/8,UNC,ZP	8
14	31244	WASHER,LOCK,1/2,ZP	1
15	31894	RETAINER,BOLT,1/2	8

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



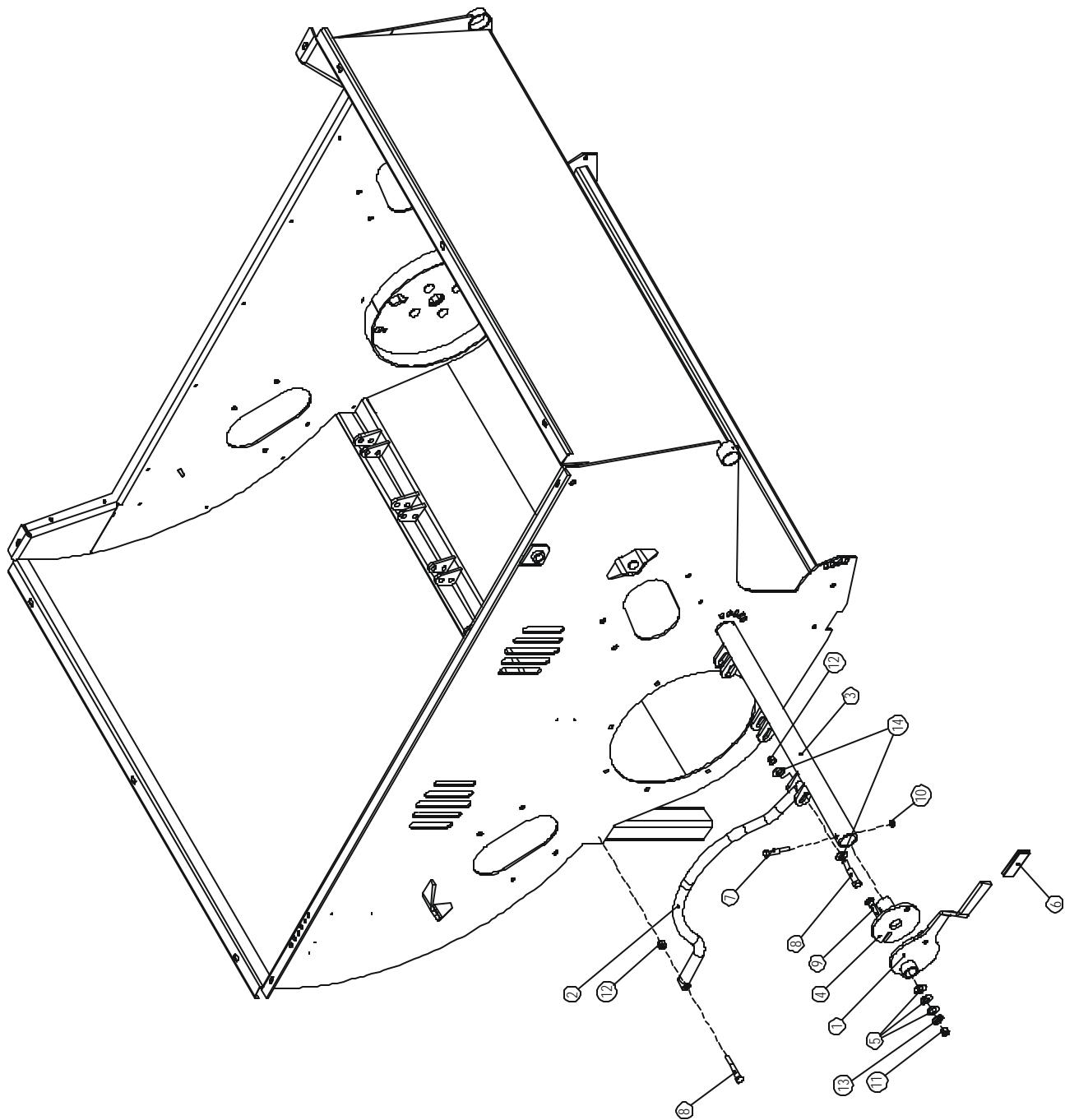
4.4 Feed Roller Installation (Part No. 49589)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	33149	HYD,VALVE, FLOW_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	49096	PLATE, SLIDE, FRONT	2
7	49585	ROD,ADJUSTMENT,UNC,1	4
8	E2138	PLATE, RETAINER, SLIDE	8
9	31059	BOLT,SHCS,1/2X2-1/2,UNC,GR5,ZP	8
10	92094	DRV, BRG, FLANGE, 1-3/8"	2
11	92145	HYD,MOTOR,RE3207050	2
12	31032	BOLT,HEX,1/4X2-1/4,UNC,GR5,ZP	2
13	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	16
14	31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	8
15	31448	BOLT,HEX,1X2,UNC,GR8,ZP	4
16	31174	NUT,NYLOCK,1/4,UNC,ZP	2
17	31173	NUT,NYLOCK,1/2,UNC,ZP	16
18	31162	NUT,HEX,1,UNC,GR5,ZP	8
19	31237	WASHER,FLAT,1/4,ZP	2
20	31236	WASHER,FLAT,1/2,ZP	16
21	31244	WASHER,LOCK,1/2,ZP	8
22	33017	WASHER,LOCK,HIGH-COLLAR,1/2,ZP	8
23	31235	WASHER,FLAT,1,ZP	4
24	31243	WASHER,LOCK,1,ZP	4



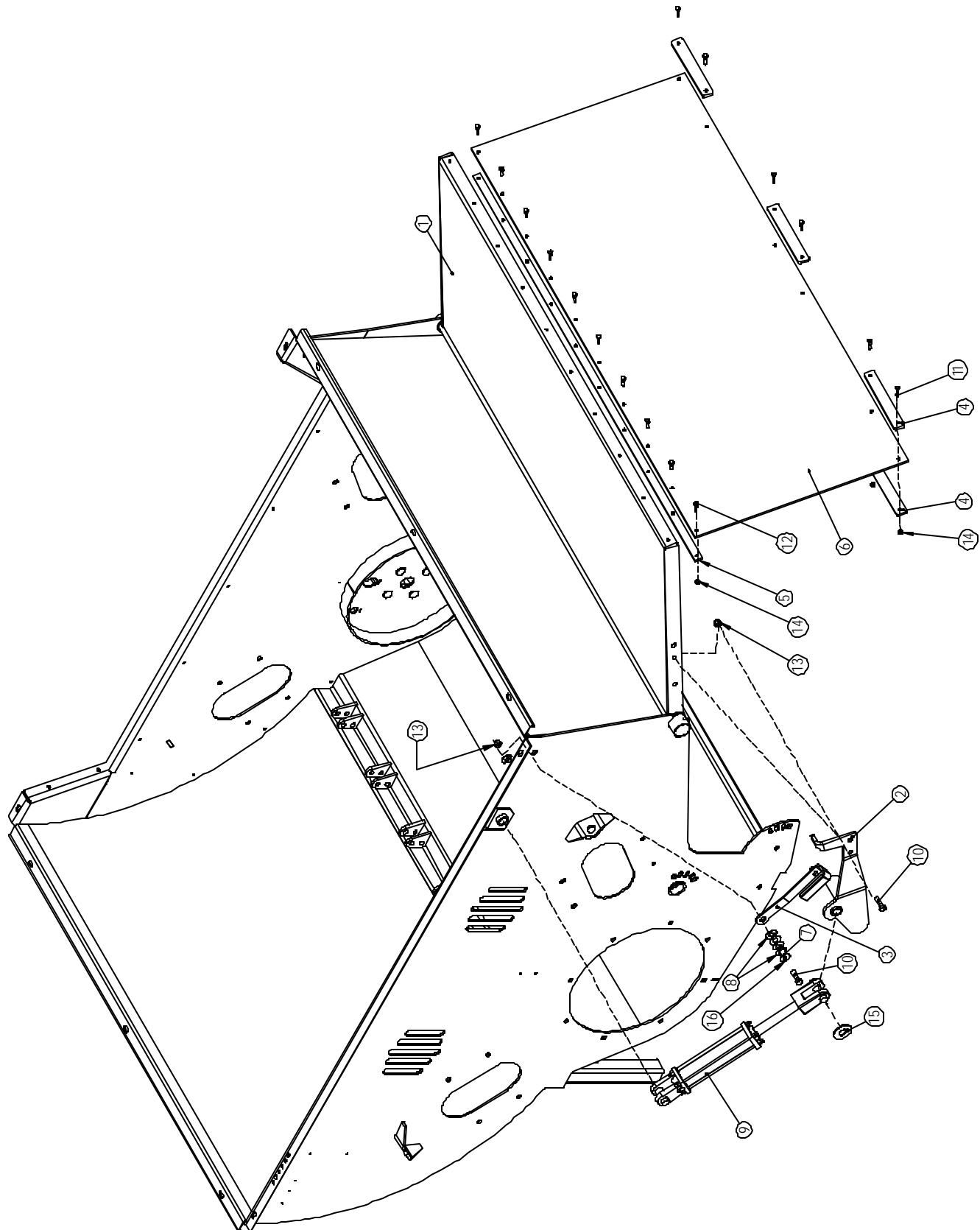
4.5 Flail Guard Rod Assembly (Part No. 49178)

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



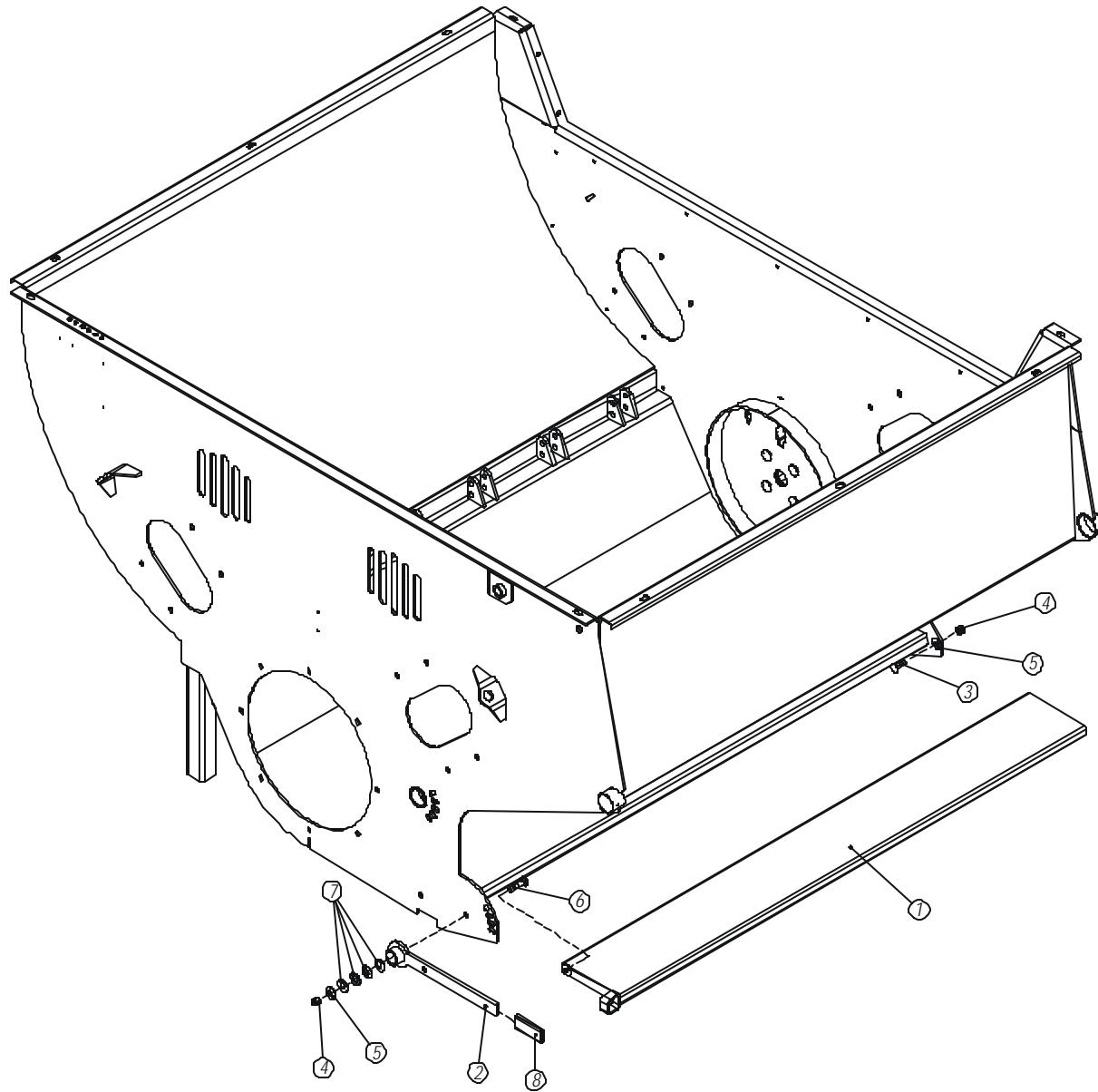
4.6 Top Discharge Door Assembly (Part No. 49287)

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 120x7/8L	1
8	31668	WASHER,SPRING,3/4,342	4
9	90104	HYD,CYL,2X8,1.125,8FB	1
10	31017	BOLT ,HEX, 1/2X1-3/4,UNC,GR5,ZP	2
11	31046	BOLT ,HEX,5/16X1-1/2,UNC,GR5,ZP	6
12	31443	BOLT ,HEX,5/16X1-1/4,UNC,GR5,ZP	10
13	31173	NUT,NYLOCK,1/2,UNC,ZP	2
14	31177	NUT,NYLOCK,5/16,UNC,ZP	16
15	31235	WASHER,FLAT ,1,ZP	1
16	31236	WASHER,FLAT ,1/2,ZP	2



4.7 Bottom Discharge Door Assembly (Part No. 49181)

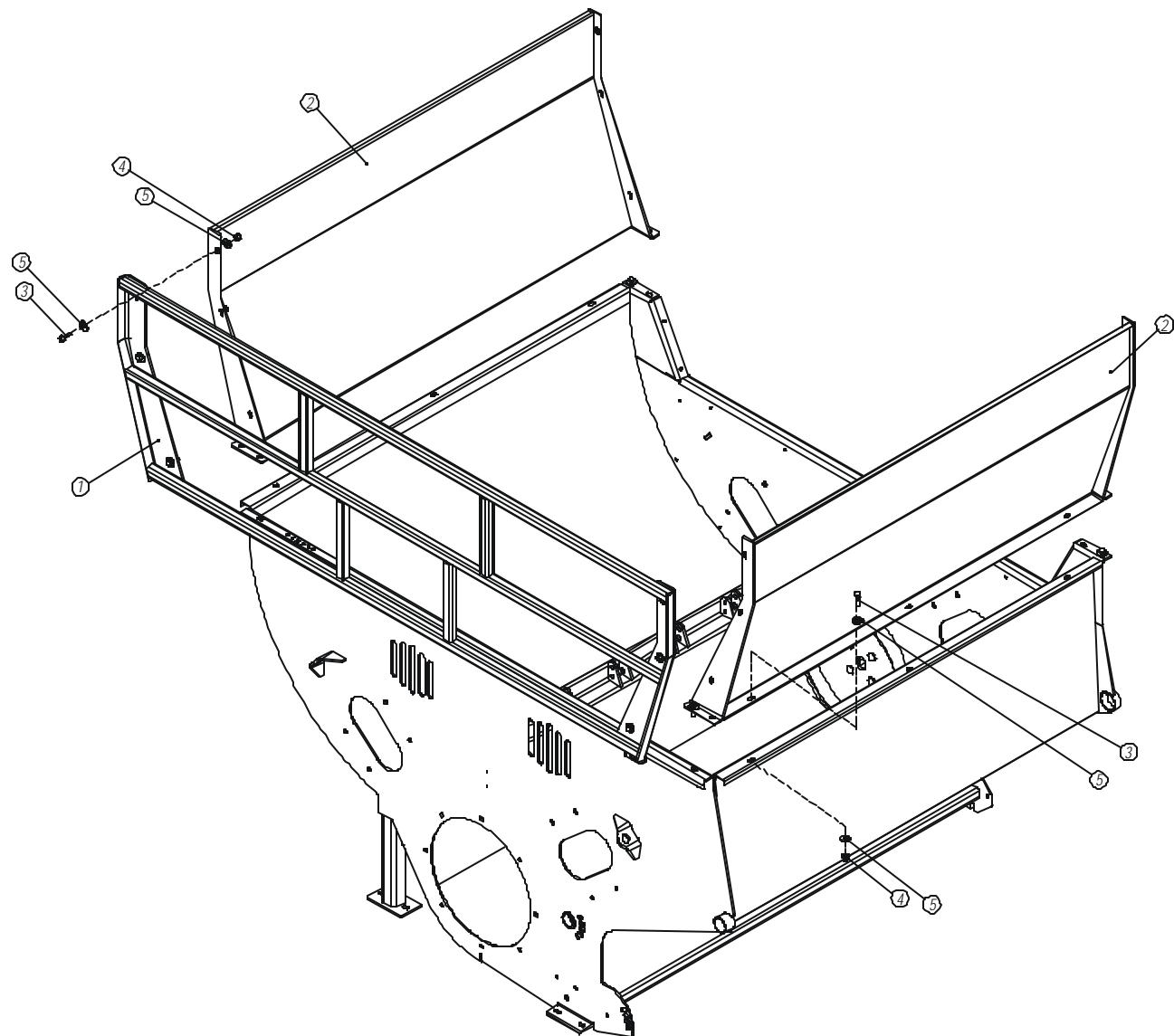
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49099	DOOR, DISCHARGE, BOTTOM	1
2	49102	HANDLE, DEFLECTOR, BOTTOM	1
3	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	1
4	31173	NUT,NYLOCK,1/2,UNC,ZP	2
5	31236	WASHER,FLAT ,1/2,ZP	3
6	31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	1
7	31668	WASHER,SPRING,3/4,342	4
8	92127	COVER,VINYL,3/8X1-1/2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



4.8 Bale Deflector and Spill Screen Assembly (Part No. 49593)

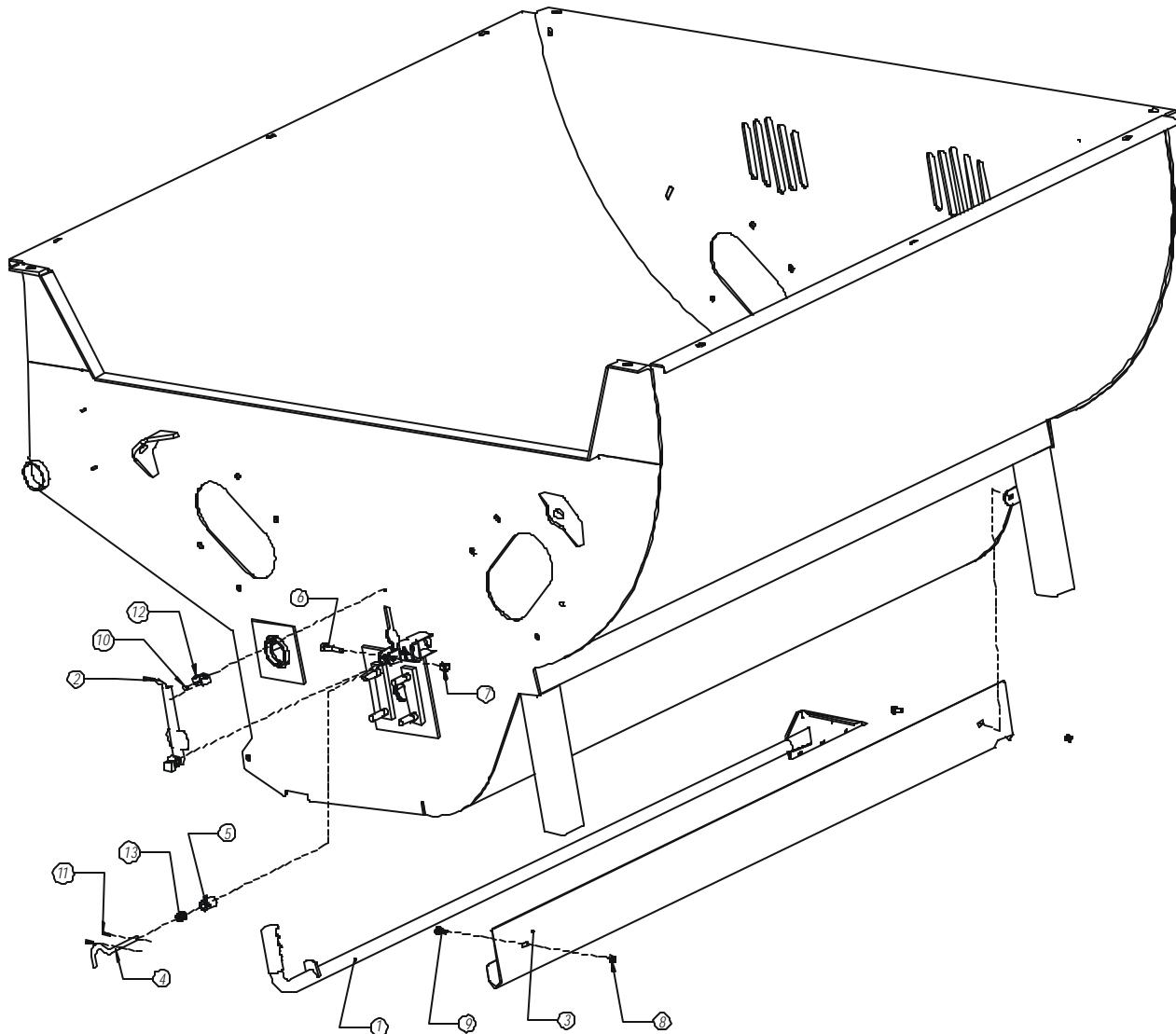
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49007	SCREEN, SPILL	1
2	49580	WLDL,DEFLECTOR, BALE	2
3	31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	18
4	31173	NUT,NYLOCK,1/2,UNC,ZP	18
5	31236	WASHER,FLAT,1/2,ZP	36

* Mesh not shown on Spill Screen



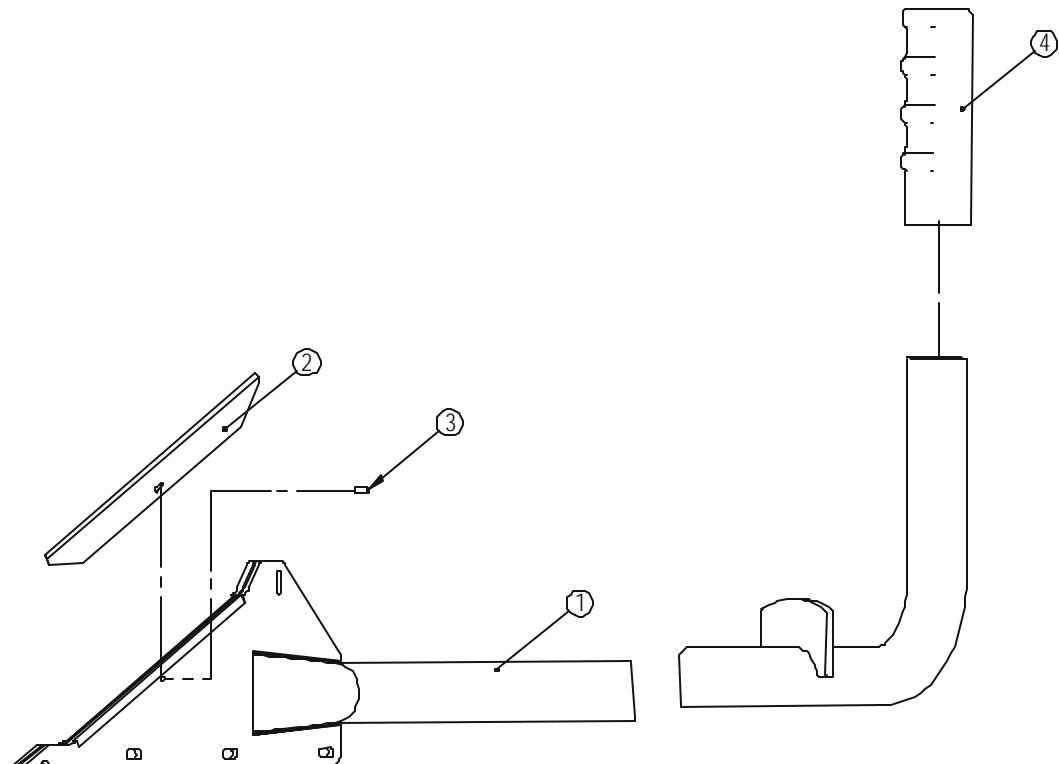
4.9 Twine Cutter Assembly (Part No. 49288)

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,G R5,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



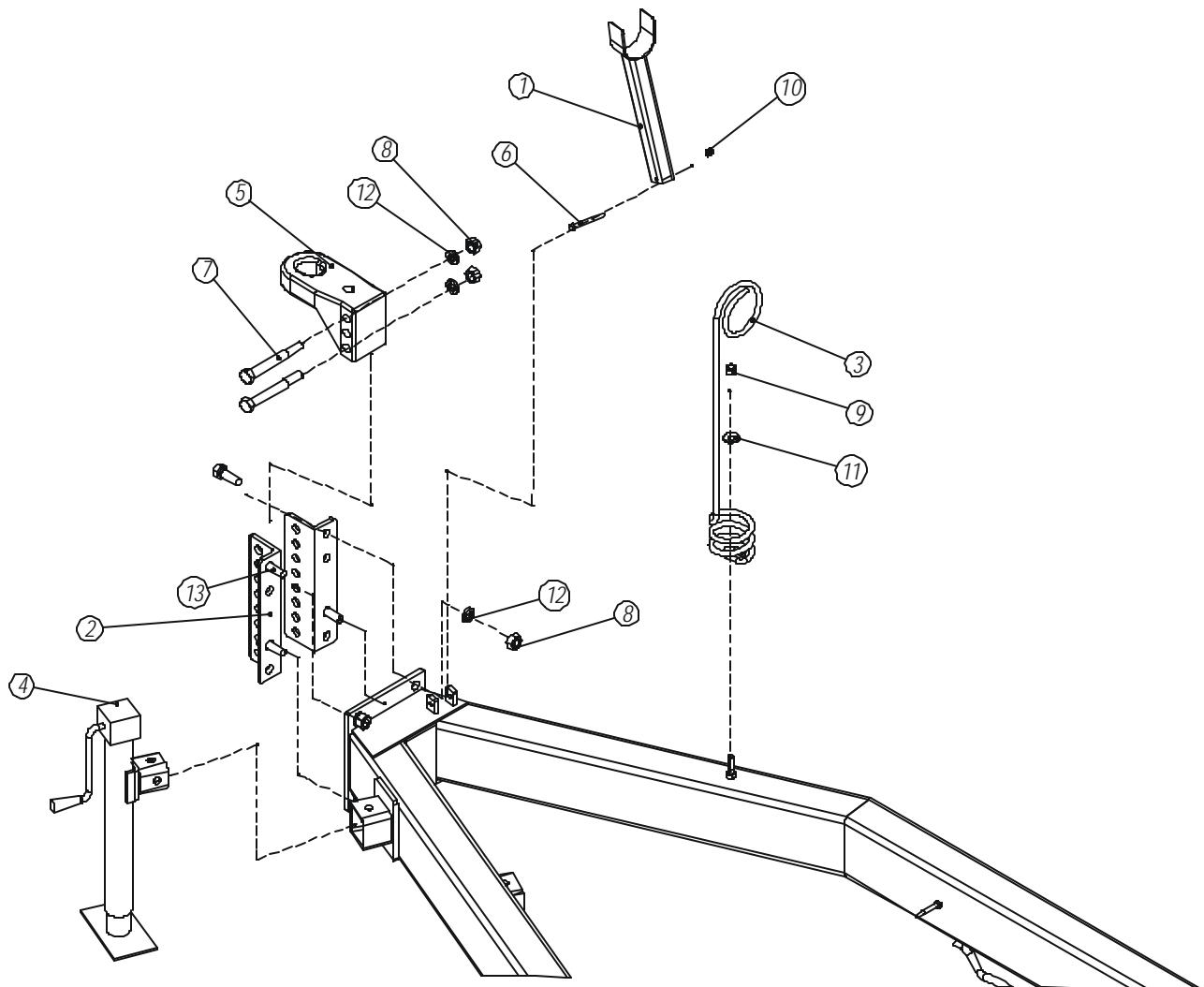
4.9.1 Twine Cutter Tool Assembly (Part No. 49165)

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



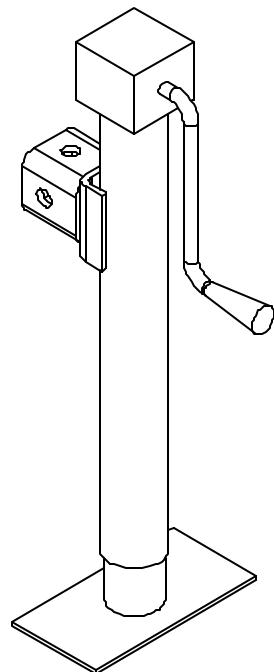
4.10 Hitch and Jack Assembly (Part No. 49597)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49586	WLDT,HOLDER,CV	1
2	E6546	ANGLE,BRIDLE,HITCH	2
3	30206	HYD,HOLDER,HOSE,1/2	1
4	31800	JACK,5000LBX15,SQ MNT,SIDEWIND	1
5	31861	HITCH,BASE,3 IN 1	1
6	30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	1
7	31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	2
8	31167	NUT,HEX,3/4,UNC,GR5,ZP	6
9	31173	NUT,NYLOCK,1/2,UNC,ZP	1
10	31176	NUT,NYLOCK,3/8,UNC,ZP	1
11	31236	WASHER,FLAT,1/2,ZP	1
12	31246	WASHER,LOCK,3/4,ZP	6
13	31339	BOLT,HEX,3/4X2,UNC,GR5,ZP	4



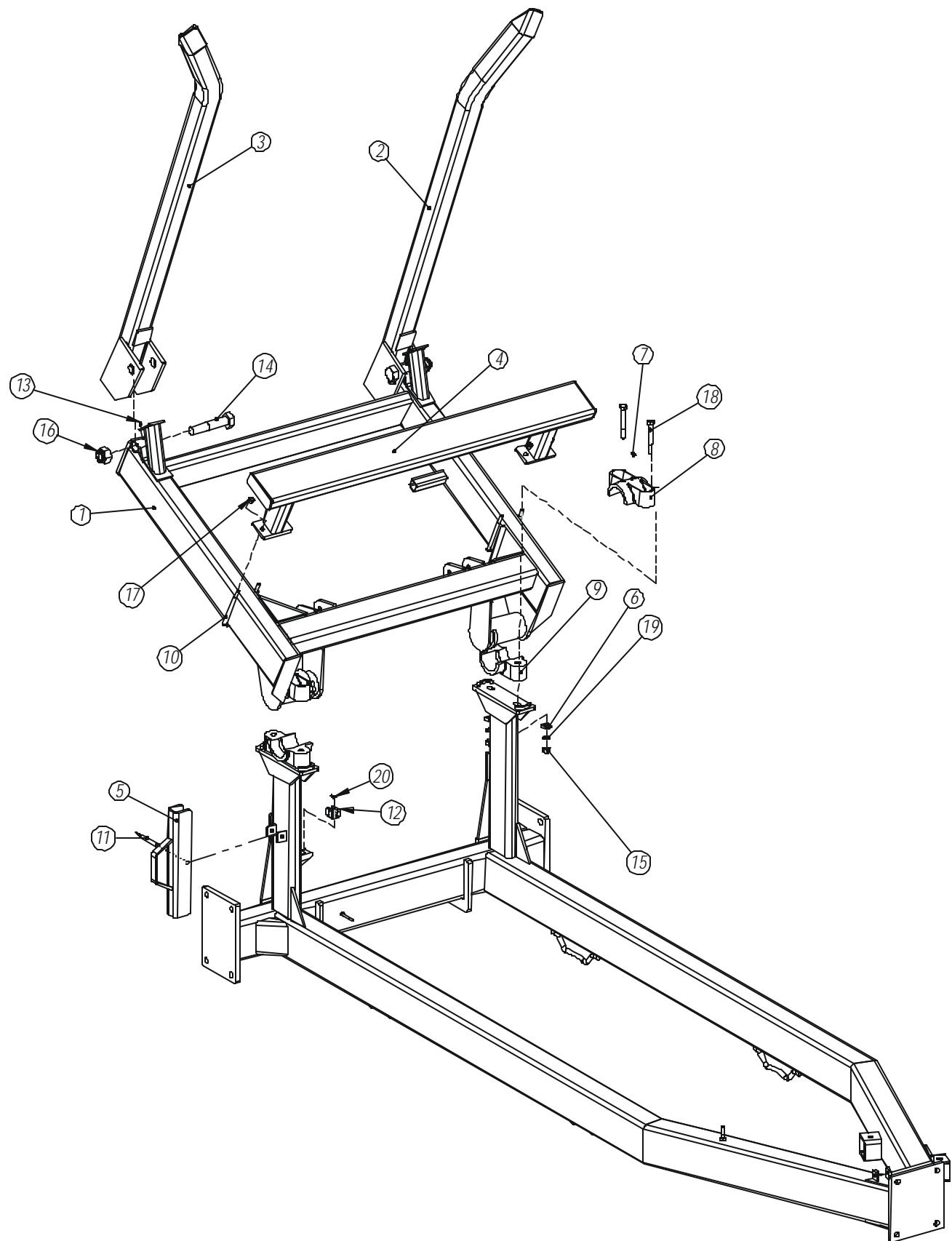
4.10.1 Jack Assembly (Part No. 31800)

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



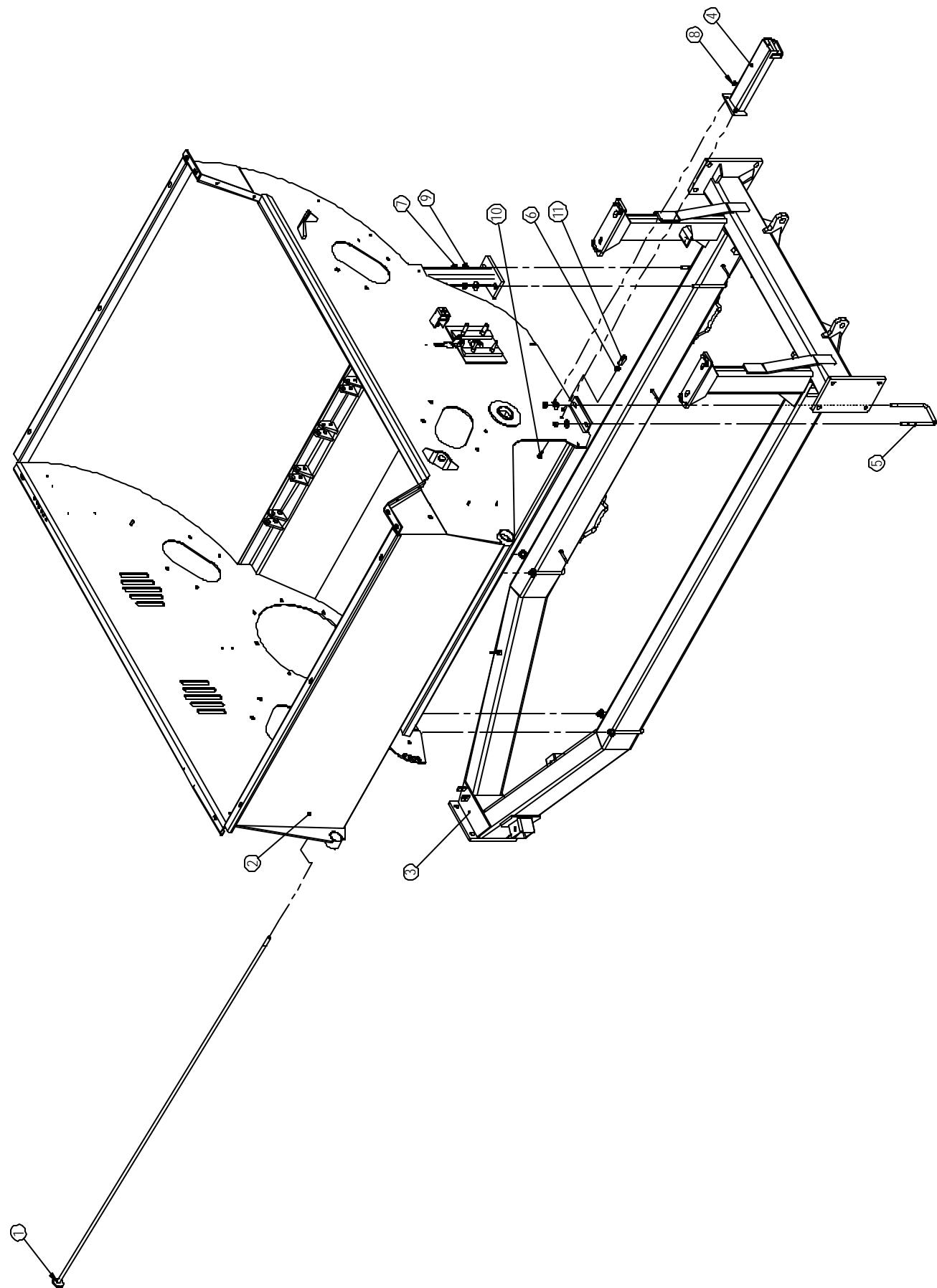
4.11 Cart/Dump Assembly (Part No. 49595)

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,S,CLAMP,BUSHING	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,1/2-13,3X7,1-1/4THREAD	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,Z P	2
15	31169	NUT,STOVER,5/8,UNC,GR5,Z P	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



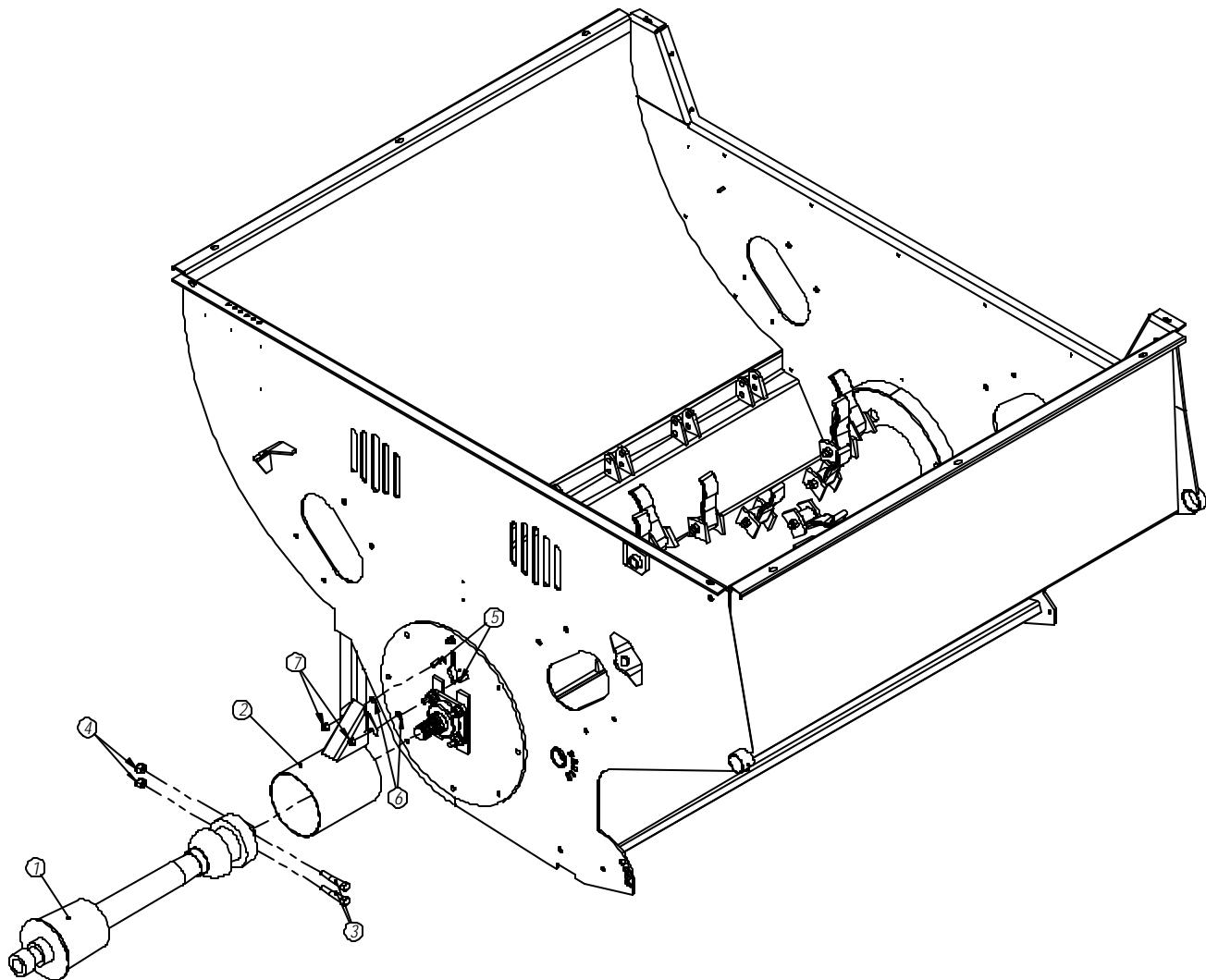
4.12 Tub to Frame Assembly (Part No. 49594)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49384	WLDT,ROD,SELECTOR	1
2	49591	WLDT,TUB	1
3	49592	WLDT,FRAME,CART	1
4	49583	WLDT,COVER,ROD	1
5	31945	BOLT,U,SO,1/2-13X4X7-1/2	4
6	31163	NUT,HEX,1/2,UNC,GR5,ZP	1
7	31173	NUT,NYLOCK,1/2,UNC,ZP	8
8	31176	NUT,NYLOCK,3/8,UNC,ZP	2
9	31236	WASHER,FLAT,1/2,ZP	8
10	31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	2
11	31987	NUT,COUPLING,1/2,UNC,ZP	1



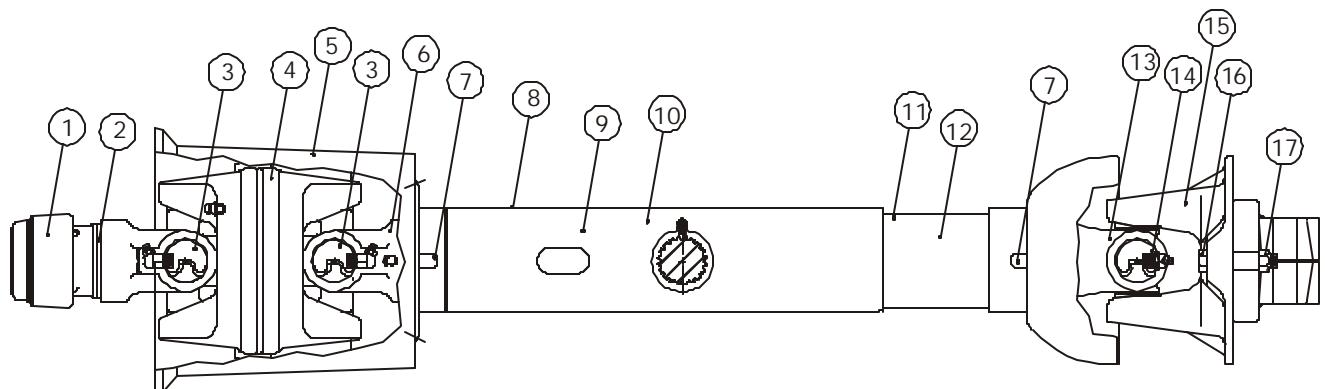
4.13 CV Installation (Part No. 49292)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45230	DRV,DL,35R,CV,CAT4,ROT	1
2	49464	WLDT,GUARD,CV,1,PIECE	1
3	31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	2
4	31178	NUT,NYLOCK,5/8,UNC,ZP	2
5	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	2
6	31894	RETAINER,BOLT,1/2	2
7	31173	NUT,NYLOCK,1/2,UNC,ZP	2



4.14 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	CAT4 80 DEGREE CROSS & BEARING	2
4	30355	CENTER HOUSING	1
5	30356	BELL EXTENSION (W CENTRALIZER)	1
6	30357	YOKE AND SHAFT	1
7	30358	NYLON REPAIR KIT	2
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, & SLIP SLEEVE	1
14	30365	35R CROSS AND BEARING KIT	1
15	32991	BALL SHEAR ASSEMBLY	1
16	30367	3/8 x 2-16 GR 5 BOLT	1
17	30368	3/8-16 LOCK NUT	1



IMPORTANT:

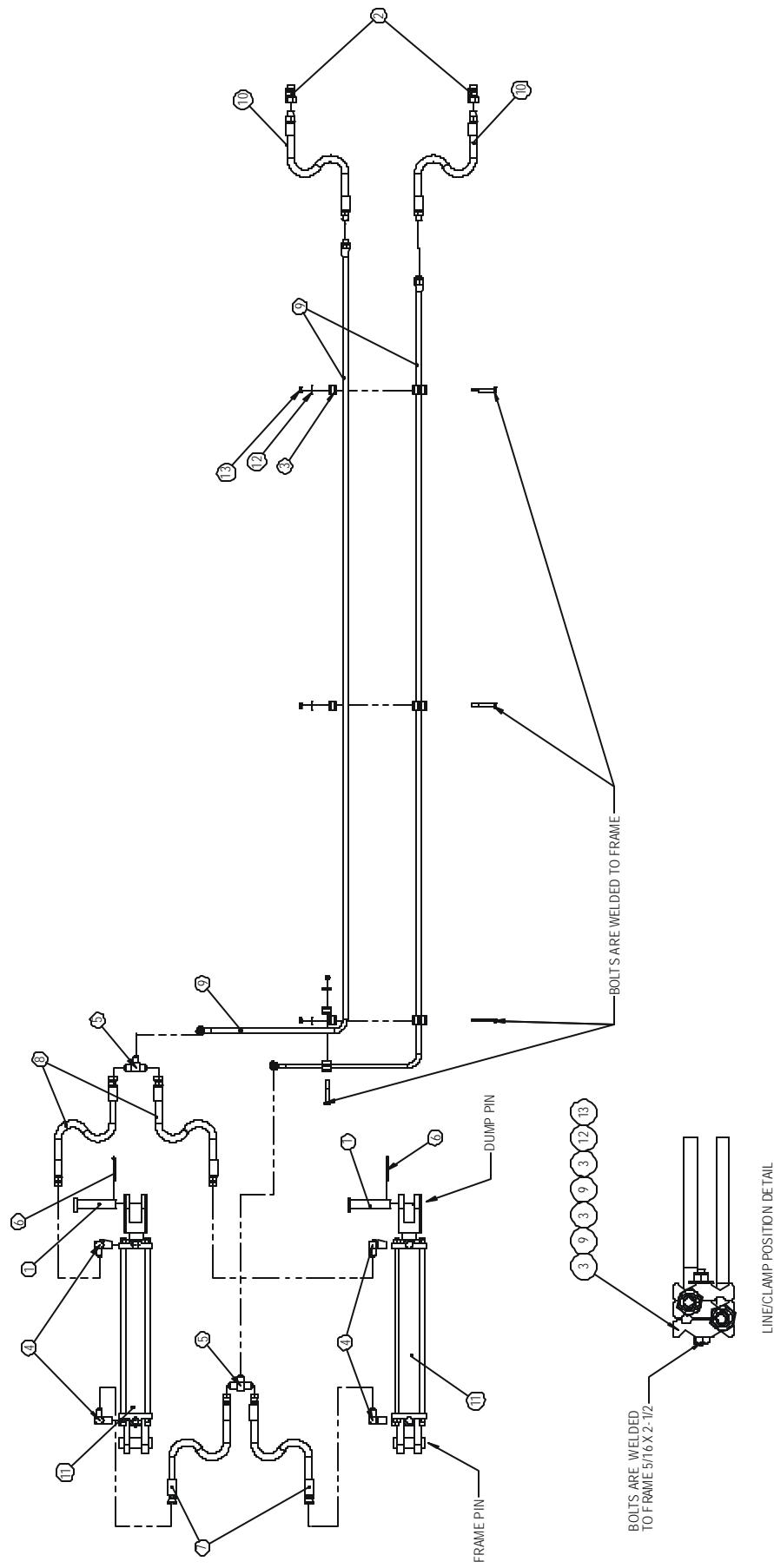
*Ensure that the drawbar on the tractor is extended so that the drawbar pin is 17" from the groove on the tractor's PTO.

**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.

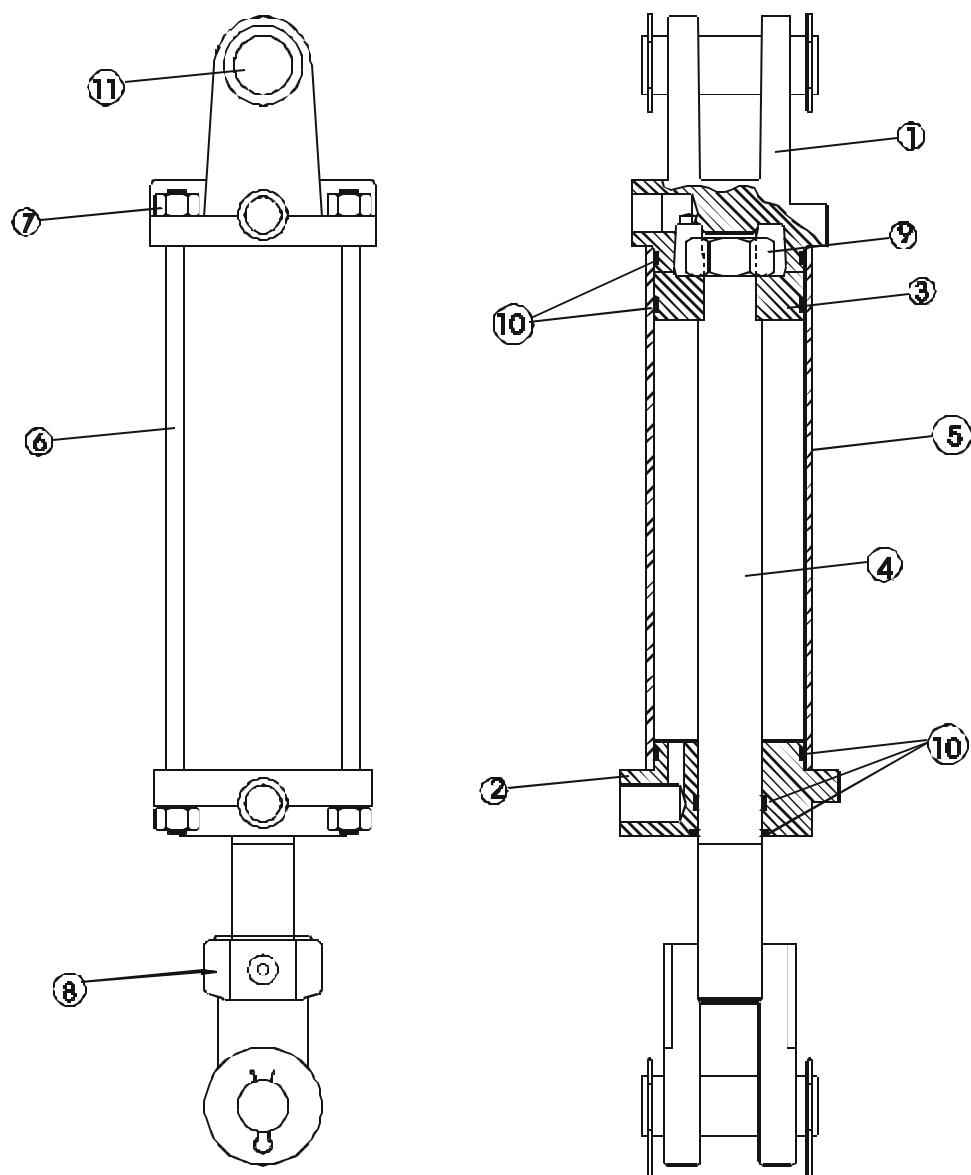
4.15 Hydraulic Cylinder Assembly (Part No. 49576)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45185	PIN, CYL, TOP	2
2	30209	HYD,FIT,PIONEER,MALE,8FP	2
3	30210	HYD,CLAMP,HOSE,1/2	12
4	30212	HYD,FIT,ELBOW,8MP-8MJ90	4
5	30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	2
6	31183	PIN,COTTER,3/16X2	2
7	31981	HYD,HOSE,3/8X28,8FJX-8FJX,2W	2
8	31982	HYD,HOSE,3/8X20,8FJX-8FJX,2W	2
9	33326	HYD,LINE,STEEL,104,1/2X.049,8FJ	2
10	33328	HYD,HOSE,3/8X102,8MJ-8MP,2W	2
11	90133	Hyd,Cyl,3X16,1.5,8FP	2
12	31239	WASHER,FLAT,5/16,ZP	4
13	31177	NUT,NYLOCK,5/16,UNC,ZP	4



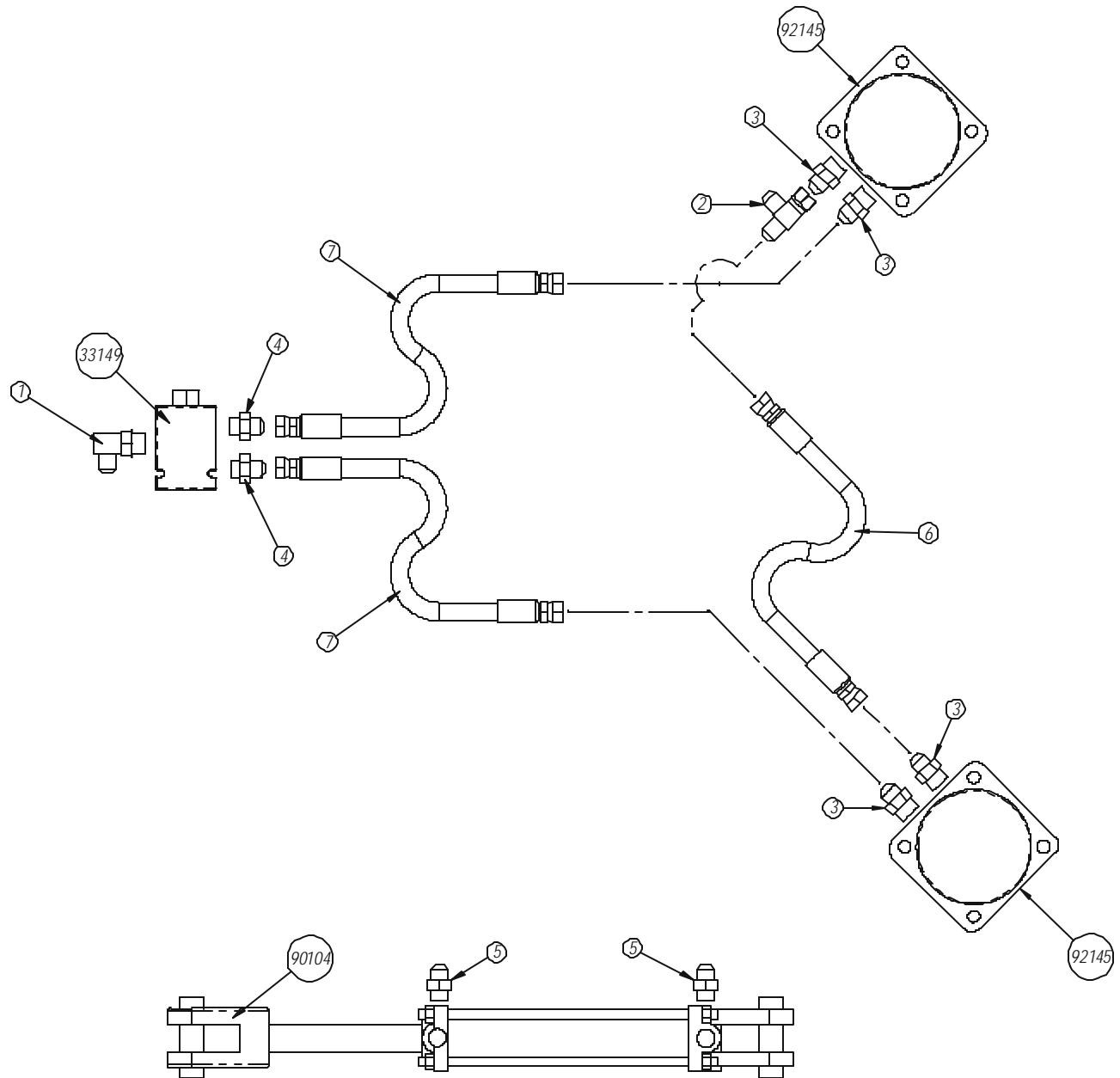
4.16 Cylinder Assembly (Part No. 90133)

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



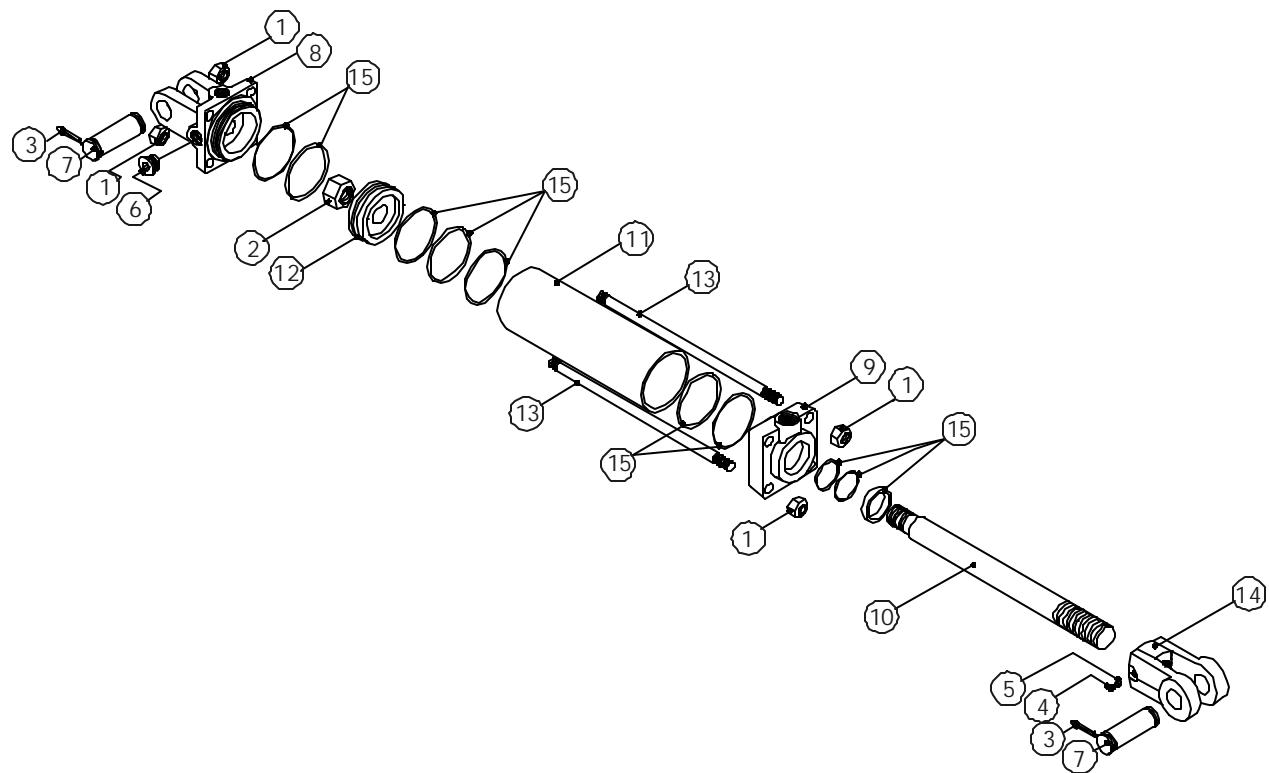
4.17 Feed Roll and Discharge Door Hydraulics (Part No. 49598)

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	4
4	30215	HYD, FIT, ADAPTER, 8MB-8MJ	2
5	33224	HYD, FIT, ADAPTER, 8MB-8MJ, 0310R IFICE	2
6	31955	HYD, HOSE, 3/8X40, 8FJX-8FJX, 2W	1
7	31962	HYD, HOSE, 3/8X36, 8FJX-8FJX, 2W	2



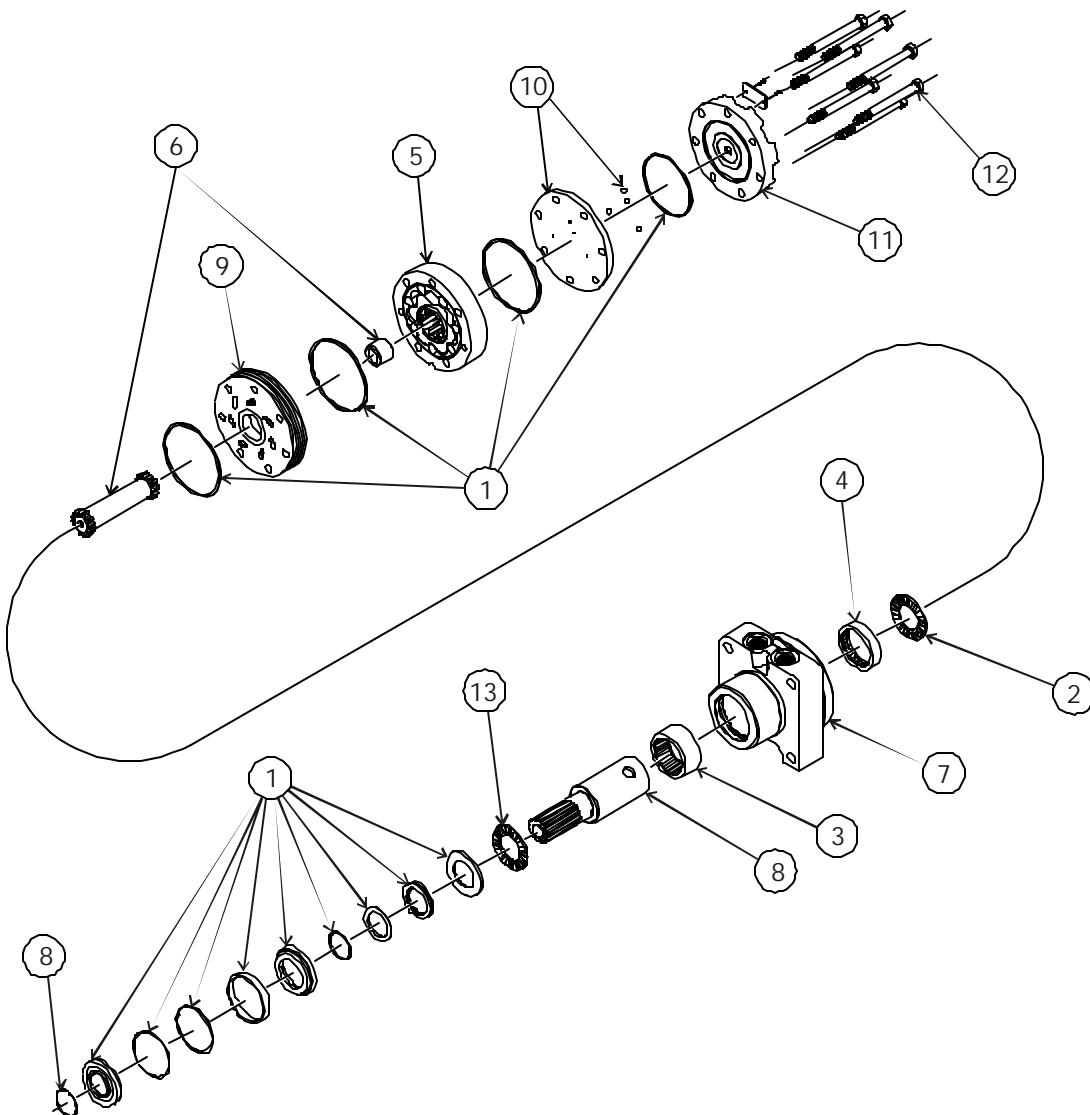
4.17.1 2x8 Hydraulic Cylinder (Part No. 90104)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31485	NUT,HEX,3/8,UNC,ZP	8
2	31588	NUT,HEX,3/4,UNF	1
3	30238	PIN,COTTER,3/16X1-1/2	4
4	30239	SETSCREW,SOCKET,3/8X1-1/2KNUR	1
5	30261	LOCKTHREAD,NYLOCK	1
6	33026	HYD,FIT,PLUG,8ORB,HOLLOWHEX	1
7	32250	HYD,CYL,PIN,1	2
8	33027	HYD,CYL,CLEVIS,CAP,2,80RB BF	1
9	33028	HYD,CYL,CAP,ROD,2X1-1/8,80RB BF	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



4.17.2 Orbit Motor Assembly (Part No. 92145)

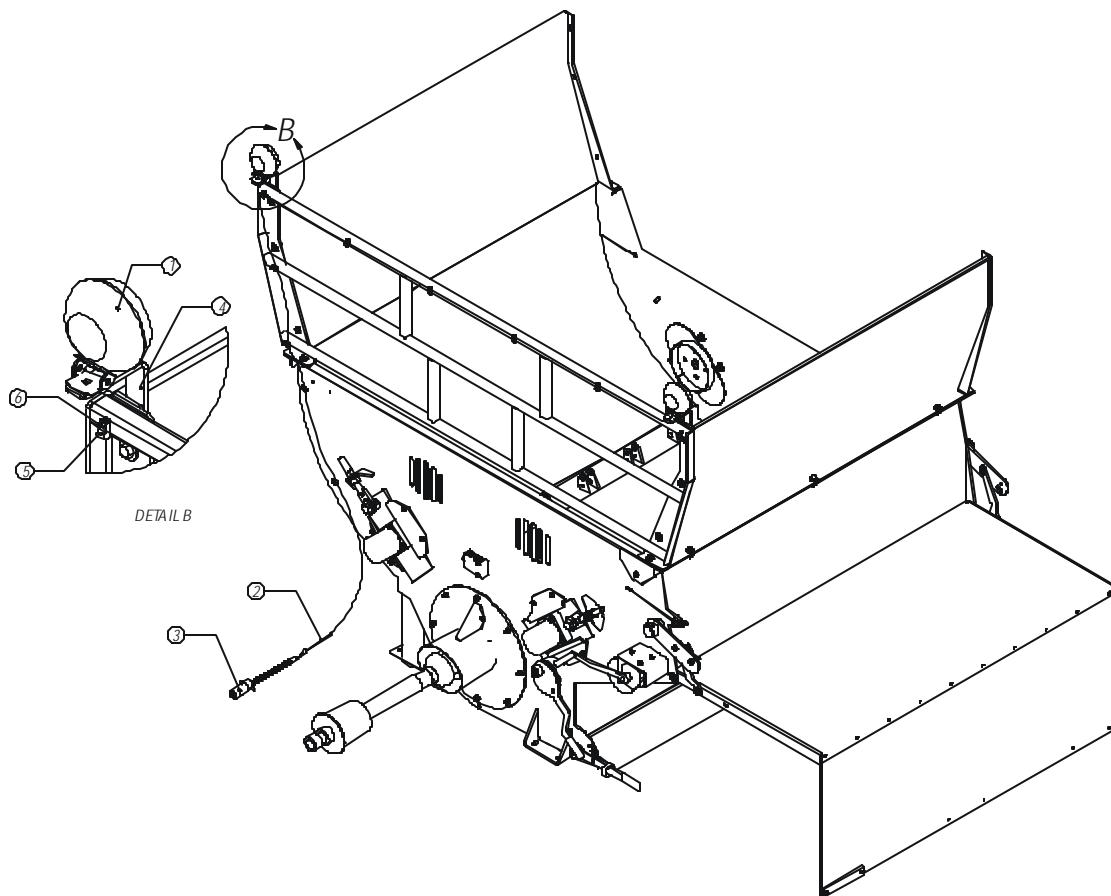
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32647	SEAL KIT,ROLLER STATOR	1
2	32651	BEARING,THRUST,REAR	1
3	32720	BEARING,HOUSING,FRONT	1
4	32649	BEARING,HOUSING,REAR,1/2	1
5	32643	ROTOR KIT	1
6	32722	DRIVE LINK KIT	1
7	32723	HOUSING KIT	1
8	32653	SHAFT KIT	1
9	32725	MANIFOLD	1
10	32726	BALANCE PLATE & BALLS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



5.0 Options

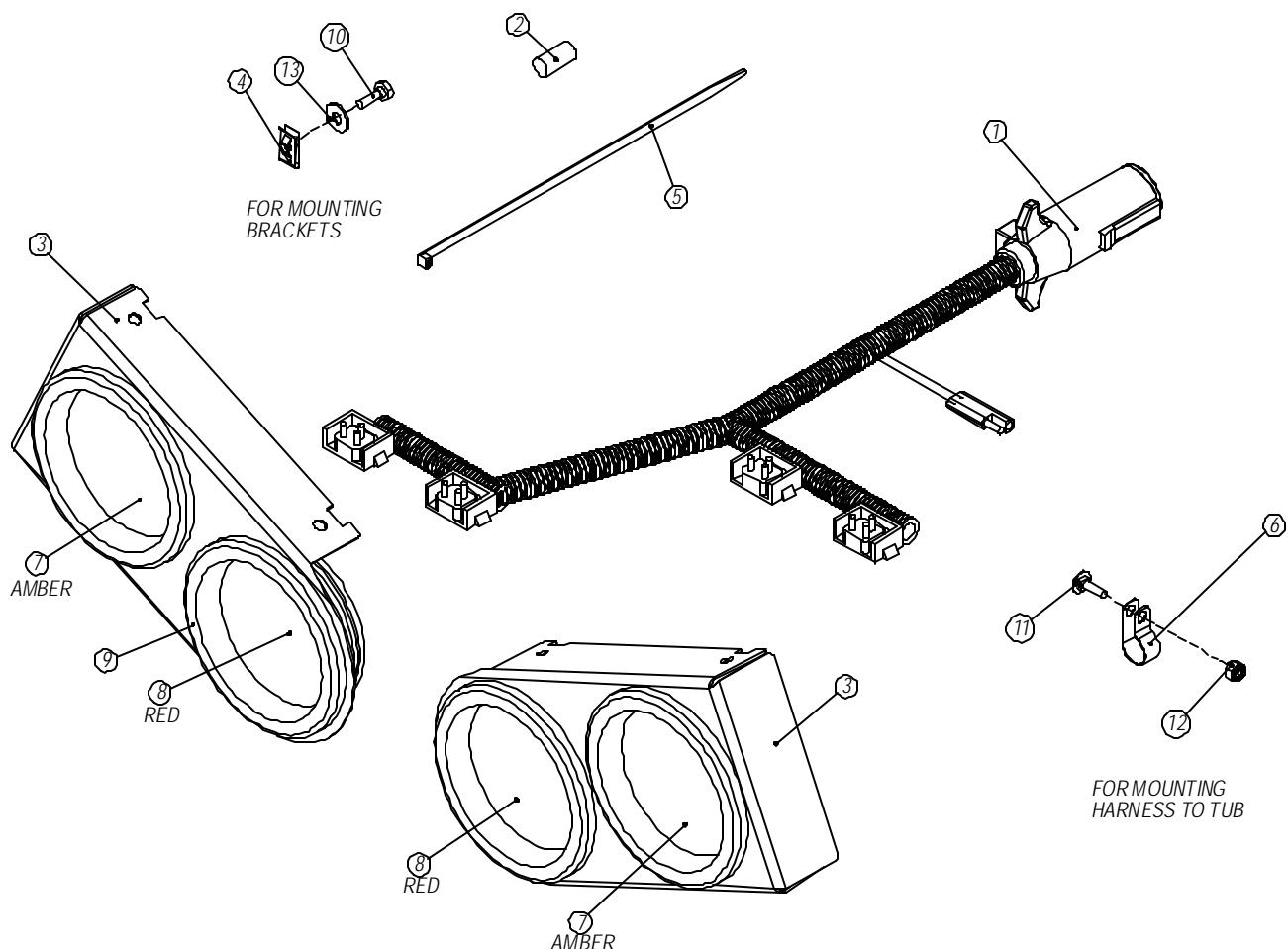
5.1 Field Light Option (Part No. BPORFL-3 (89003))

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



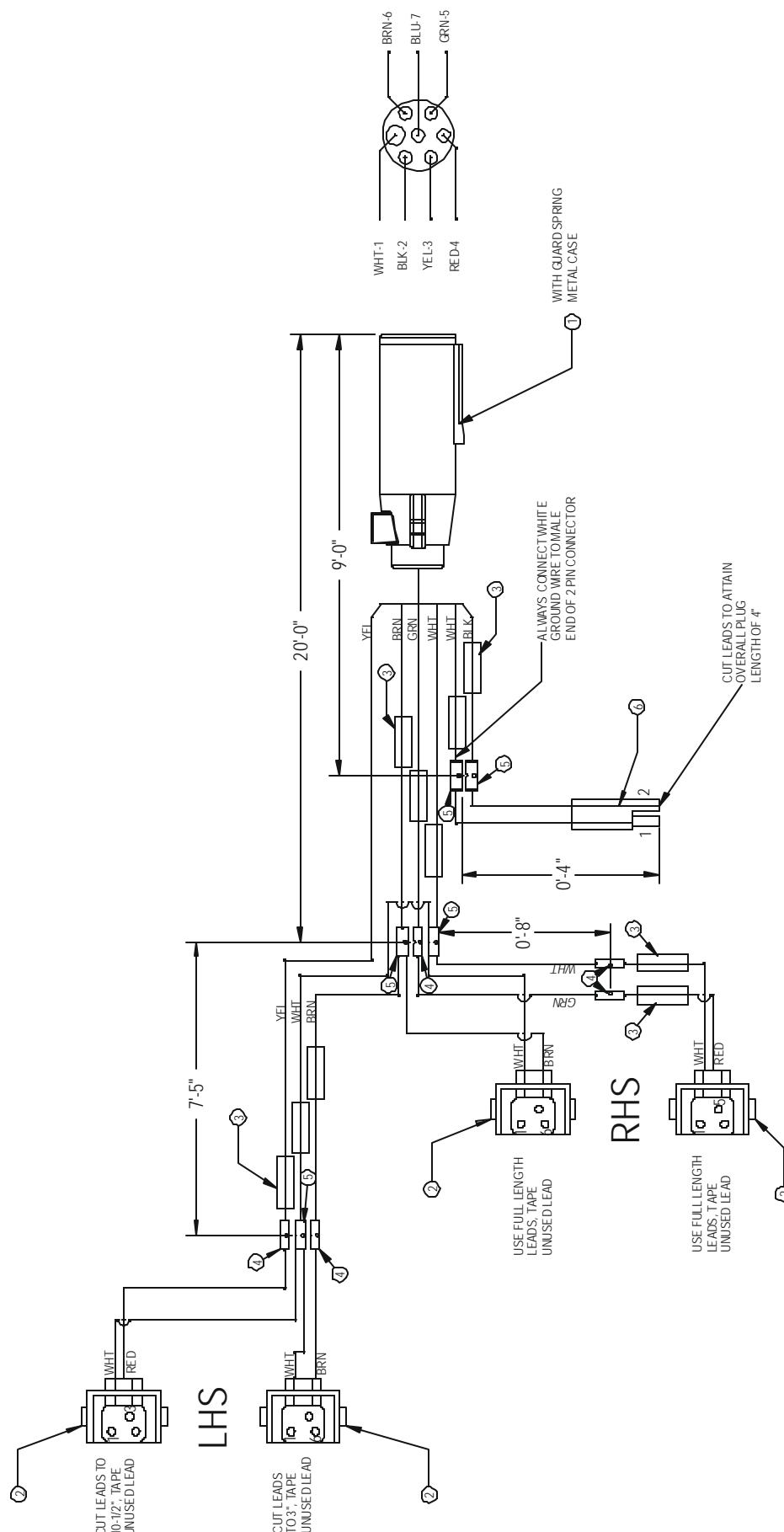
5.2 Clearance Light Option (Part No. BPOCL-3 (89002))

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 Harness Schematic for Clearance Light Option (Part No. 49364)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30556	ELEC,CONN,7 WIRE,FEMALE	1
2	31853	ELEC,PLUG,STOP/TURN,RIGHT ANGL	4
3	31976	ELEC,HEAT_SHRINK_TUBE,DUAL_WALL,1/4X48	12IN
4	31977	ELEC,CONN,BUTT,16-14GA,NON_INSULATED	5
5	31978	ELEC,CONN,BUTT,12-10GA,NON_INSULATED	5
6	37686	ELEC,PLUG,2_POLE,10GA	0.5
7	37980	ELEC,WIRE,14GA,STAND,BLACK	9FT
8	37981	ELEC,WIRE,14GA,STAND,WHITE	37.25FT
9	92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	30.42FT
10	92153	ELEC,WIRE,16,GREEN,STRAND	20.83FT
11	92154	ELEC,WIRE,16,YELLOW,STRAND	27.42FT
12	92155	ELEC,WIRE,16,BROWN	27.42FT
13	92170	TIE,CABLE,4",BLACK	13



5.2.2 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

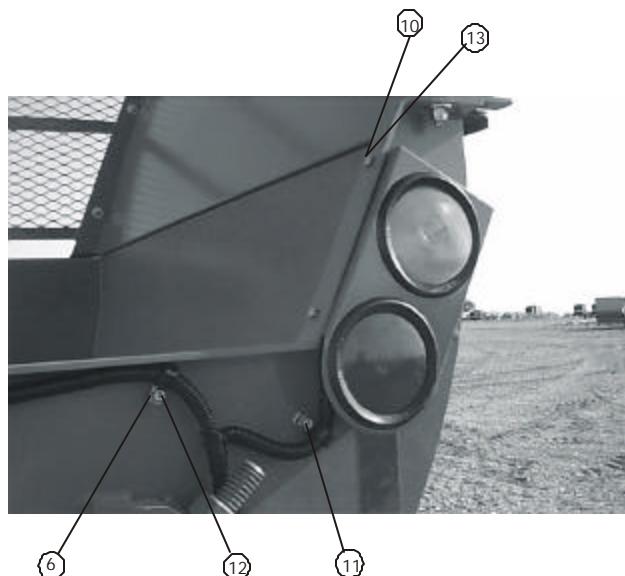
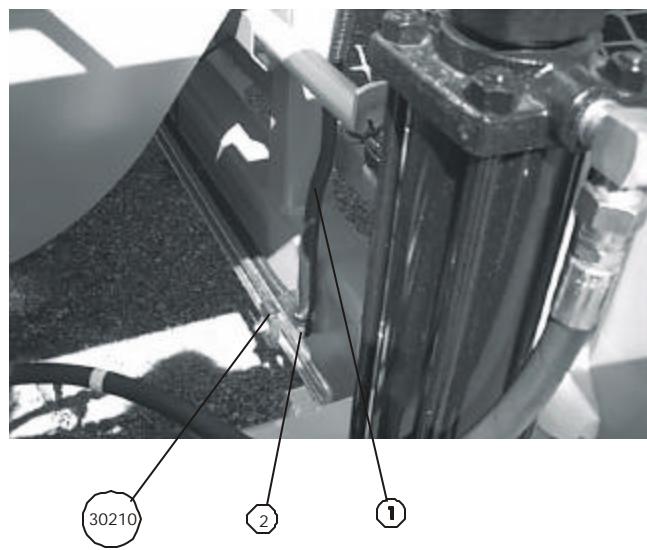


Figure C

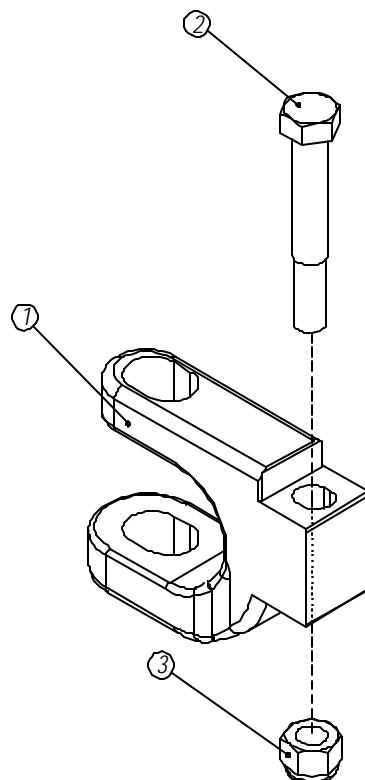


Figure D



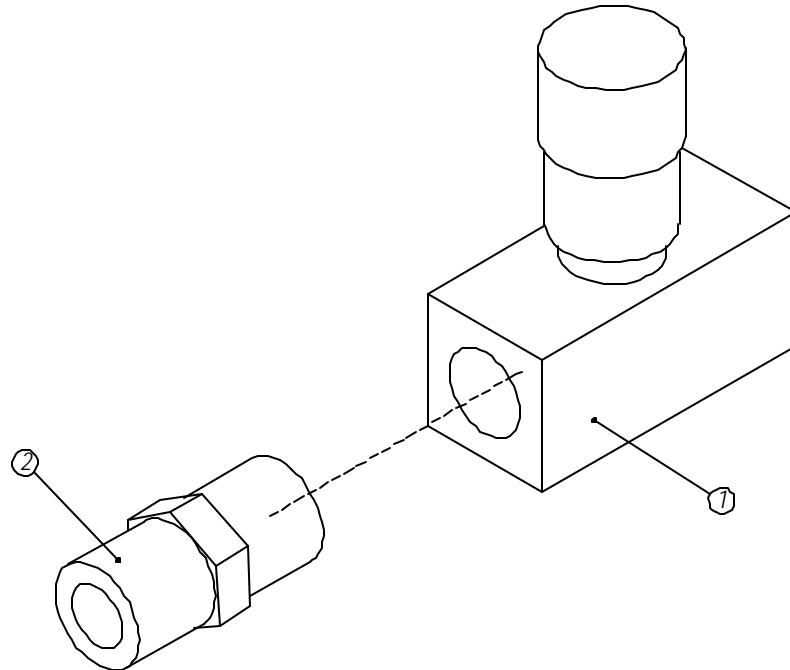
5.3 Hitch Clevis Option (Part No. BPOHC-3 (89004))

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

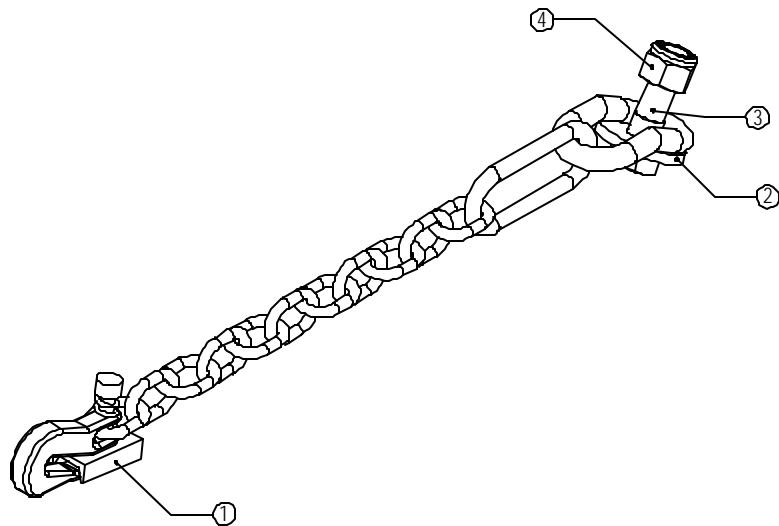


5.4 Flow Control Option (Part No. BPOFC-3 (89005))

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

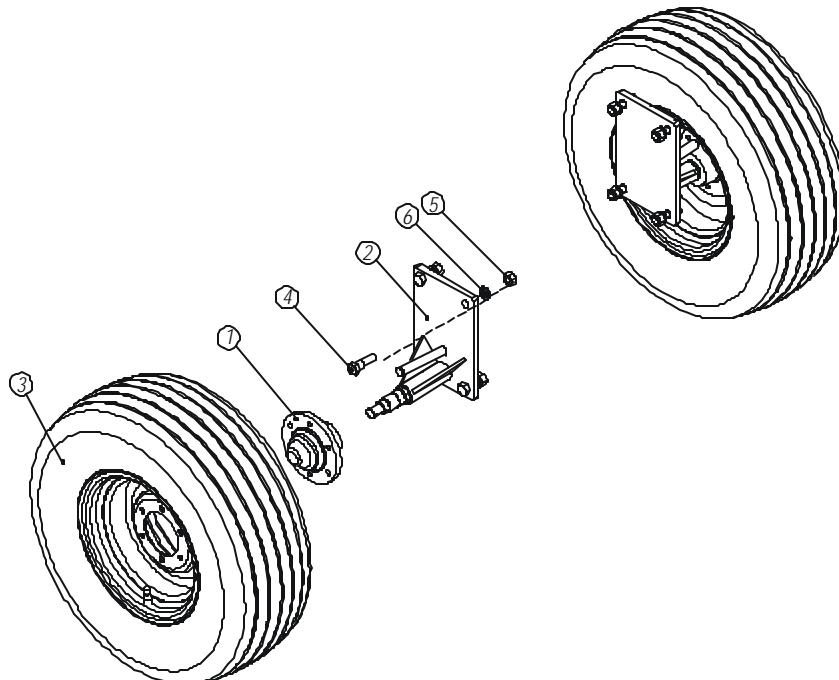
**5.5 Safety Chain Option (Part No. BPOSC-3 (89006))**

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



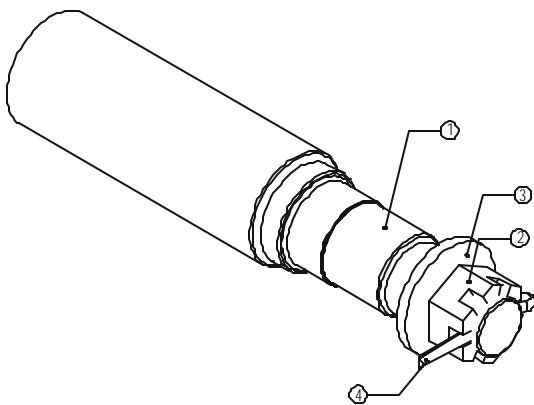
5.6 Standard Tire Assembly (Part No. BPOST-3 (89001))

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



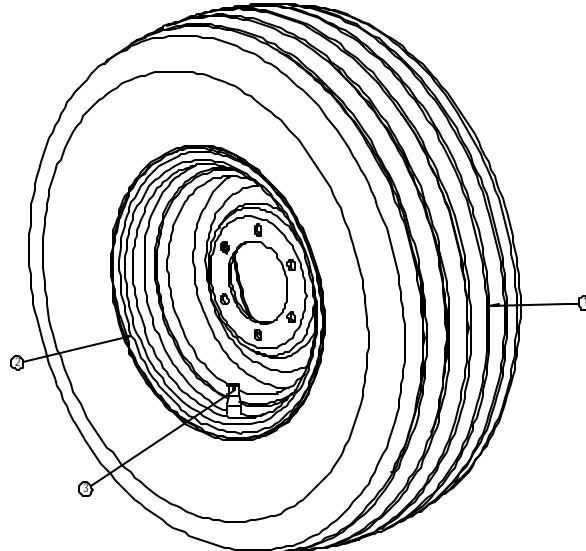
5.6.1 S611 Spindle Assembly (Part No. 45225)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31900	SUSP, SPINDLE ONLY, S611	1
2	30372	NUT,CASTELLATED,BP6800	1
3	30371	WASHER,FLAT,611 HUB	1
4	31183	PIN,COTTER,3/16X2	1



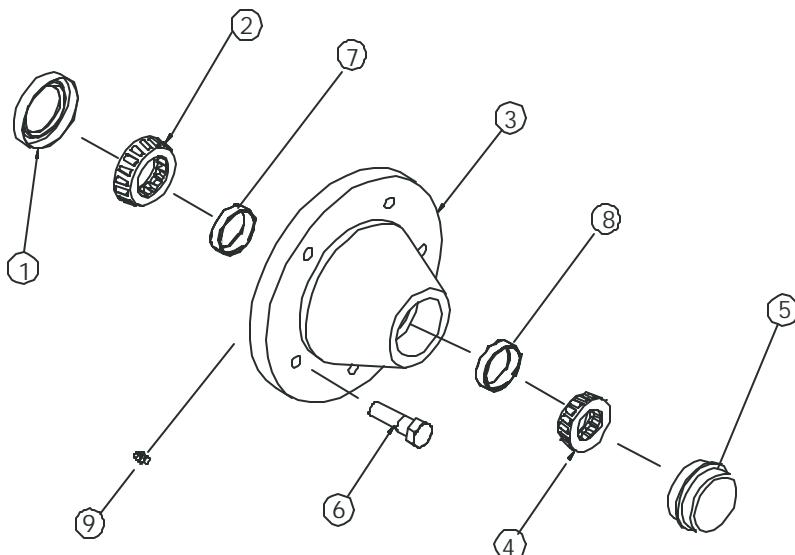
5.6.2 Standard Tire (Part No. 49089)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45222	SUSP, TIRE, 11LX15FI, 6PLY	1
2	45223	SUSP, WHEEL, 15X9LB, 1.12OFF, 6	1
3	91048	SUSP, STEM, VALVE, TR801HP	1

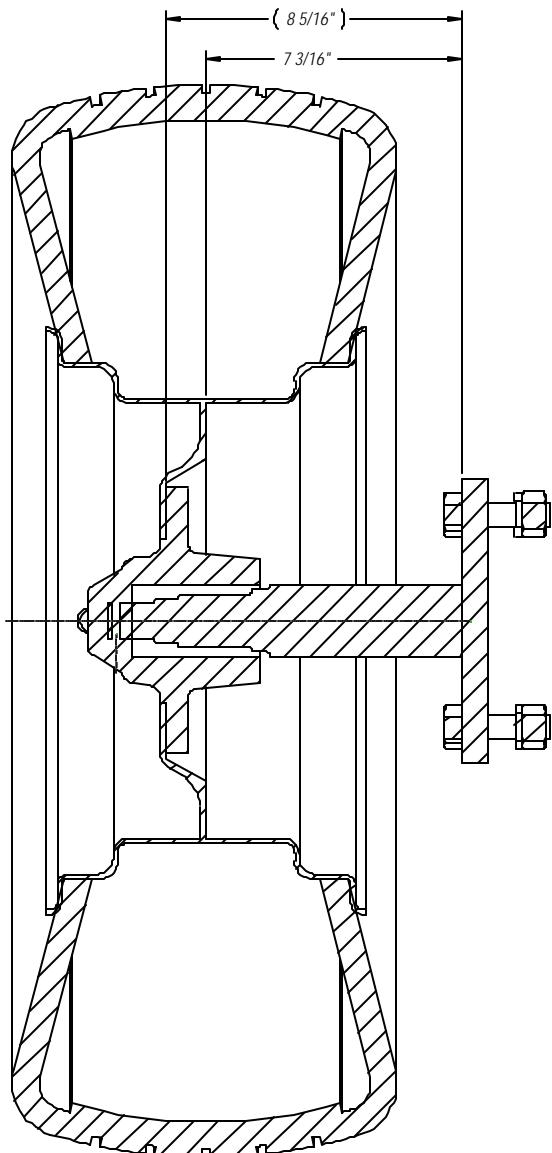


5.6.3 H611 Hub Assembly (Part No. 45224)

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

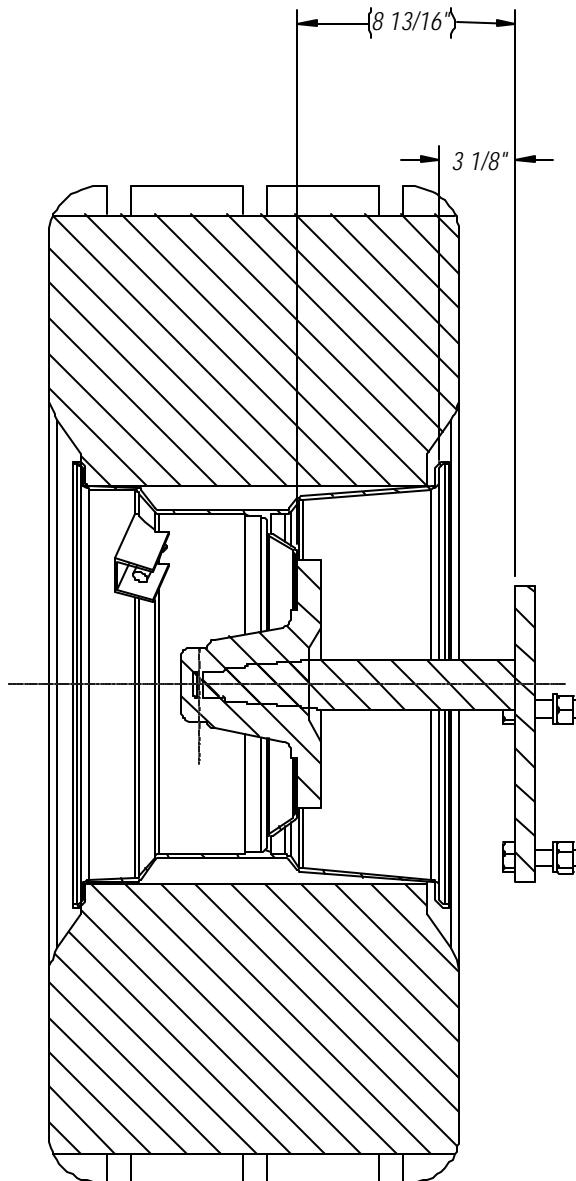


STANDARD TIRE
(6 Bolt Wheel Assembly)



NOTE: INSTALL STANDARD TIRE/RIM COMBINATION AS ORIENTED ABOVE. FAILURE TO DO SO MAY RESULT IN SPINDLE BREAKAGE AND VOID WARRANTY.

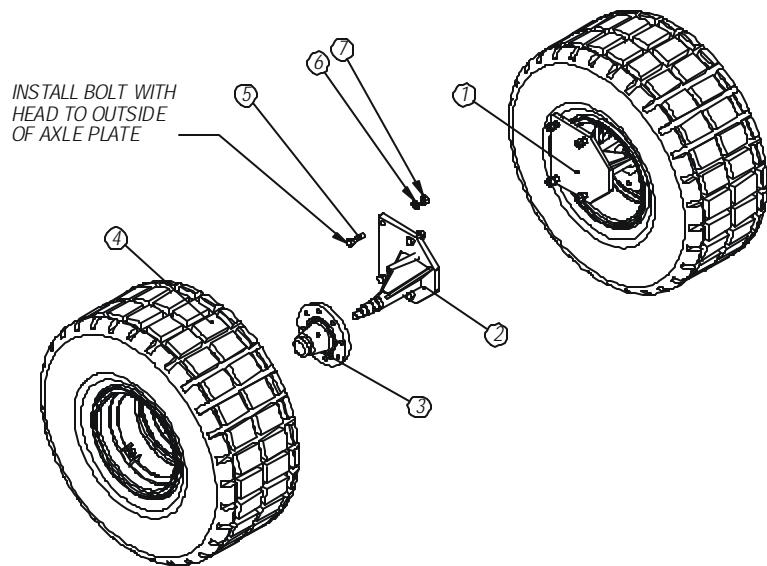
LARGE TIRE
(8 Bolt Wheel Assembly)



NOTE: INSTALL LARGE TIRE/RIM COMBINATION AS ORIENTED ABOVE. FAILURE TO DO SO MAY RESULT IN SPINDLE BREAKAGE AND VOID WARRANTY.

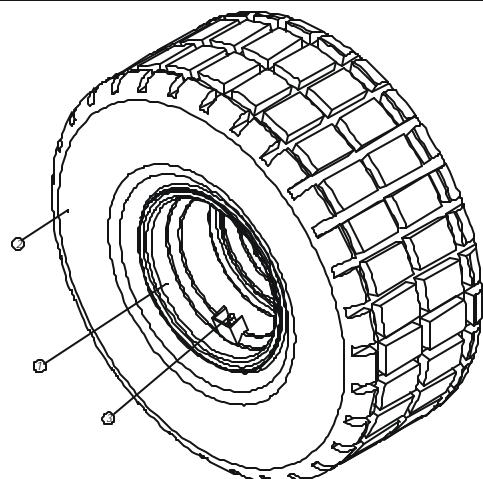
5.7 Large Tire Option (Part No. BPOLT-3 (89000))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49581	WLDT,AXLE,16.5L,RGT,13EM5500	1
2	49582	WLDT,AXLE,16.5L,LFT,13EM5500	1
3	30102	SUSP,HUB,COMPLETE,EM5500	2
4	32994	WHEEL,16.5x16.1,-1.5.8,WH	2
5	31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	8
6	31246	WASHER,LOCK,3/4,ZP	8
7	31167	NUT,HEX,3/4,UNC,GR5,ZP	8



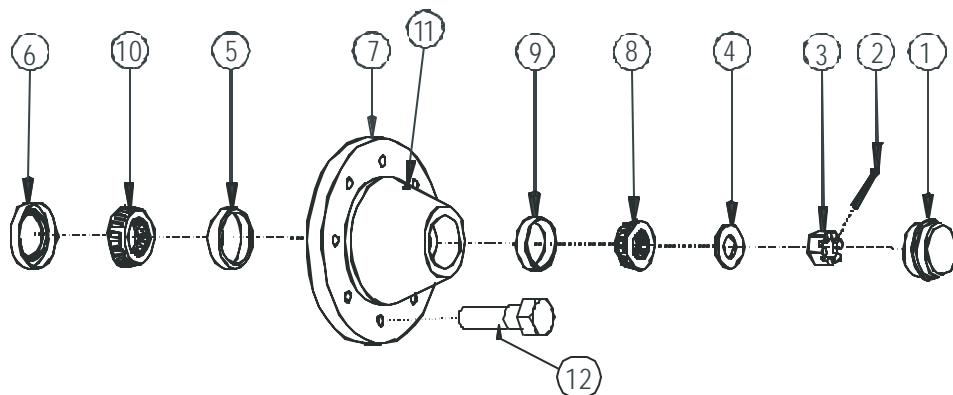
5.7.1 Large Tire (Part No. 32994)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32992	SUSP,RIM,W14CX16.1,-1.5.8,WH	1
2	32324	SUSP,TIRE,16.5LX16.1,ST2,6PLY	1
3	91048	SUSP,STEM,VALVE,TR801HP	1



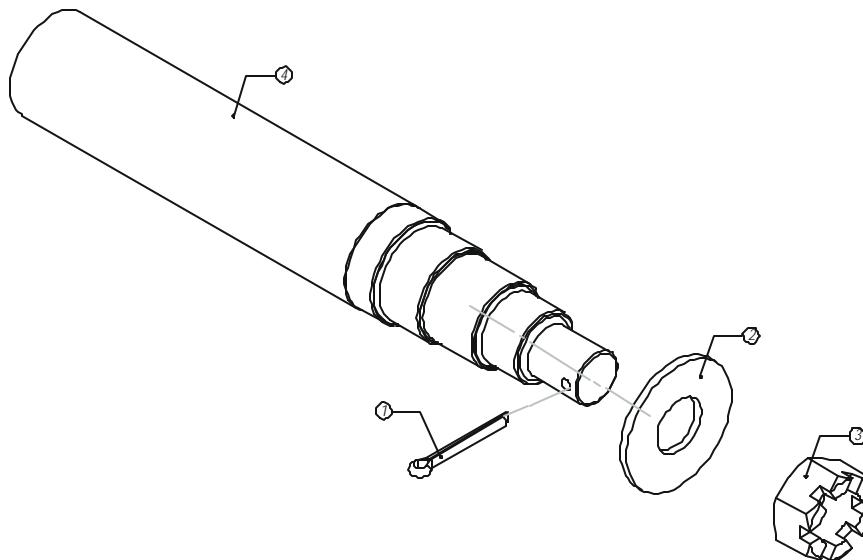
5.7.2 EM5500 Hub Assembly (Part No. 30102)

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



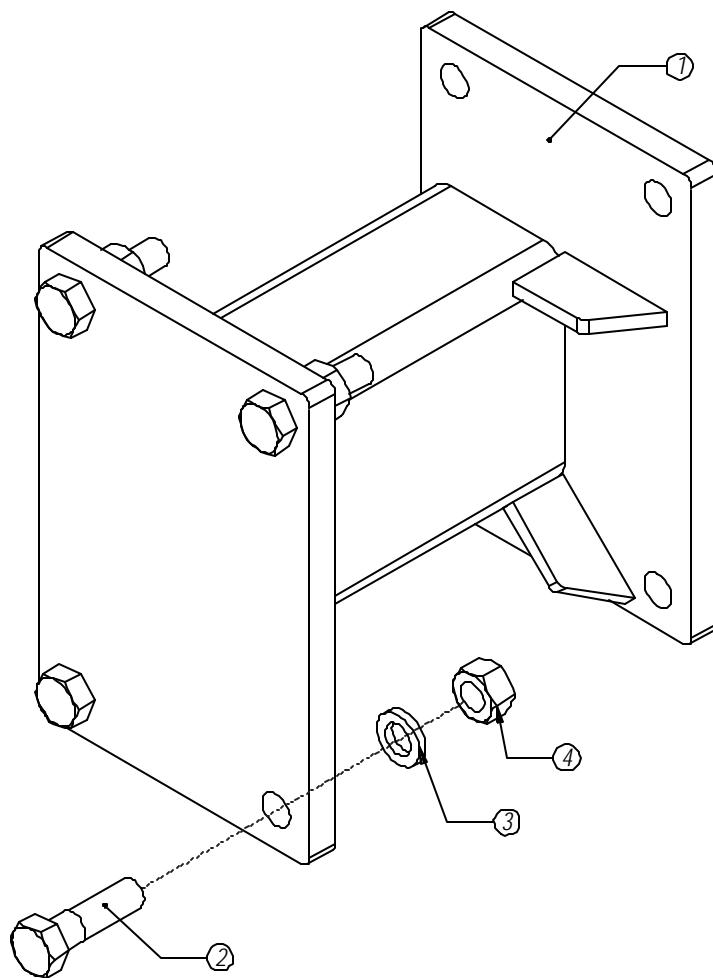
5.7.3 EM5500 Spindle Assembly (Part No. 33327)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30221	PIN,COTTER,3/16X1-3/4	1
2	31235	WASHER,FLAT,1,ZP	1
3	32297	NUT,SLOTTED,1"-14 UNF	1
4	33327	SUSP,SPINDLE,EM5500,13	1



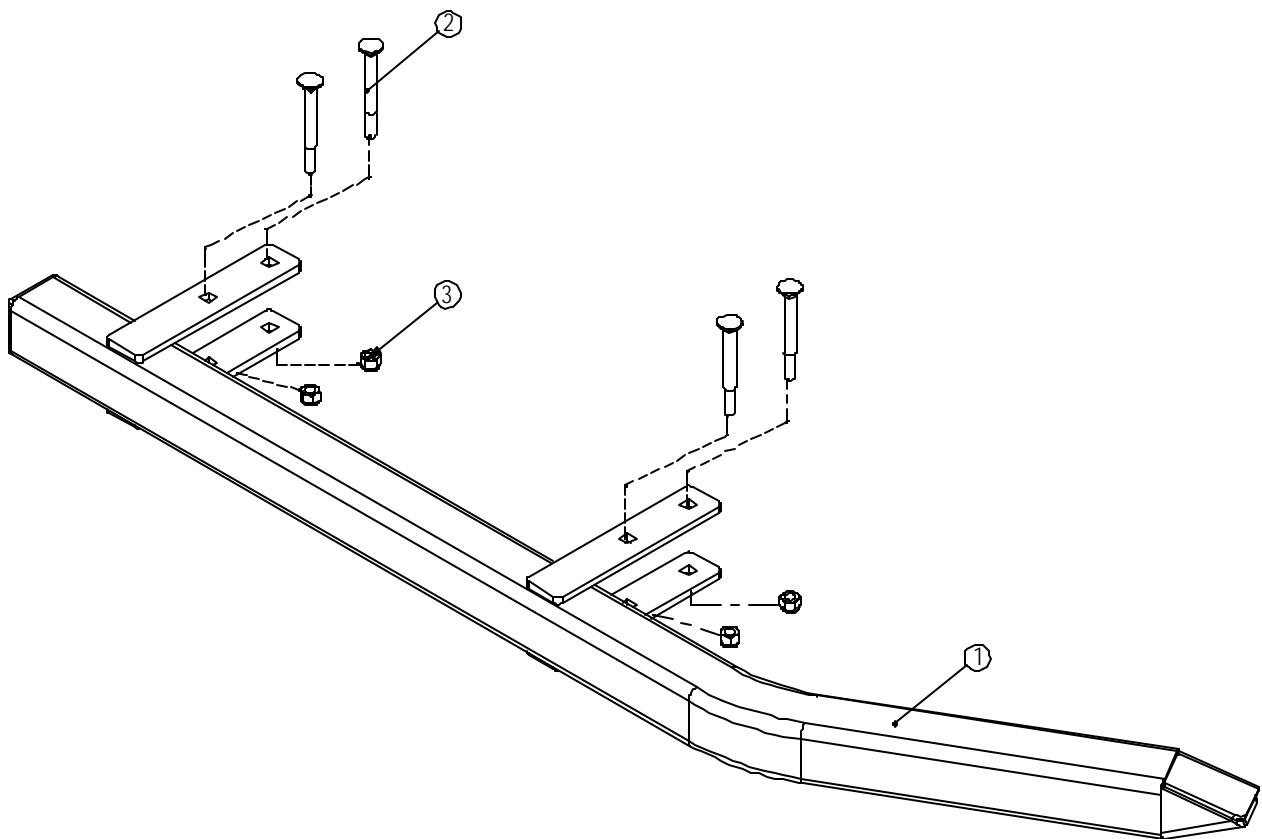
5.8 12" Axle Extension Option (Part No. BPOAE12-3 (89007))

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



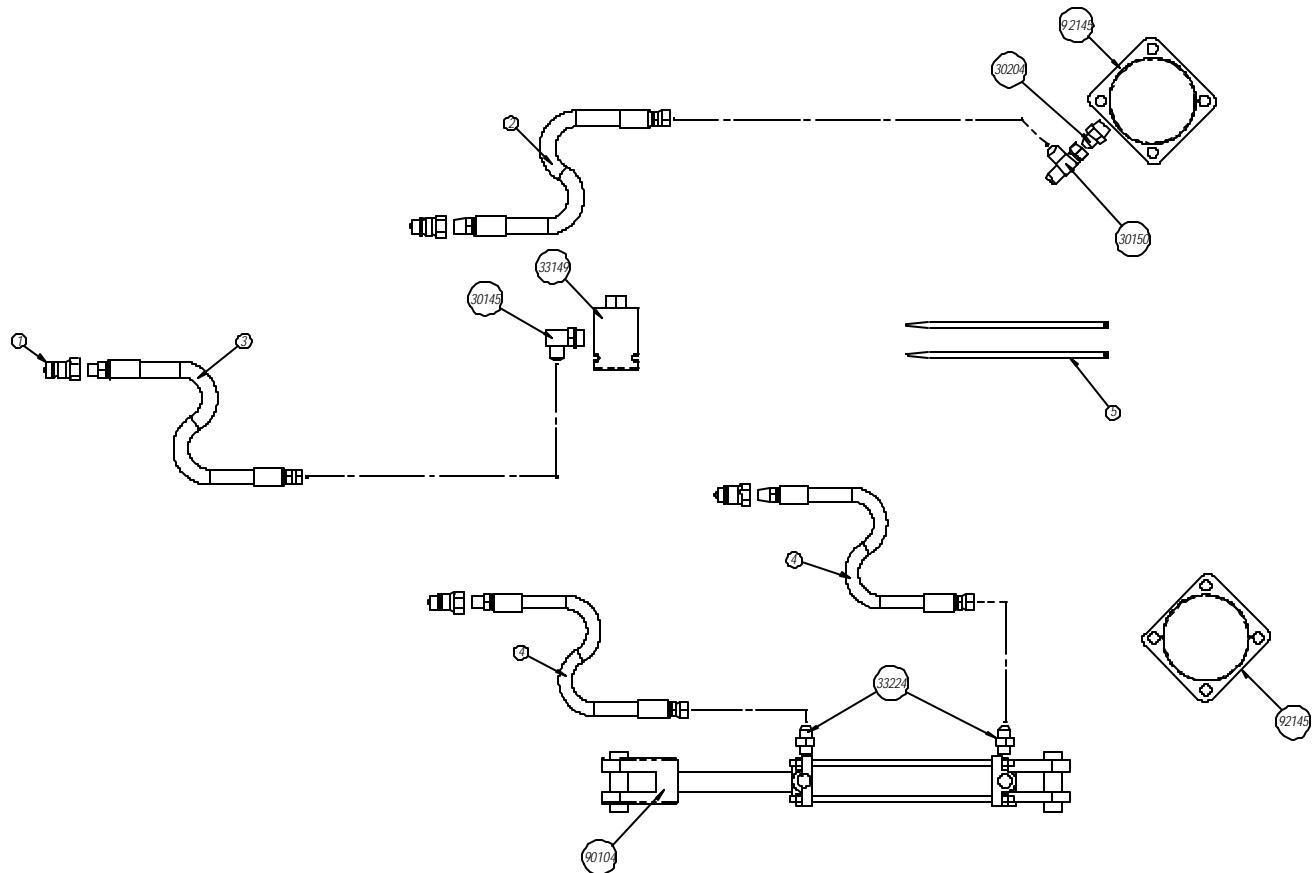
5.9 Narrow Fork Option (Part No. BPONF-3 (89008))

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

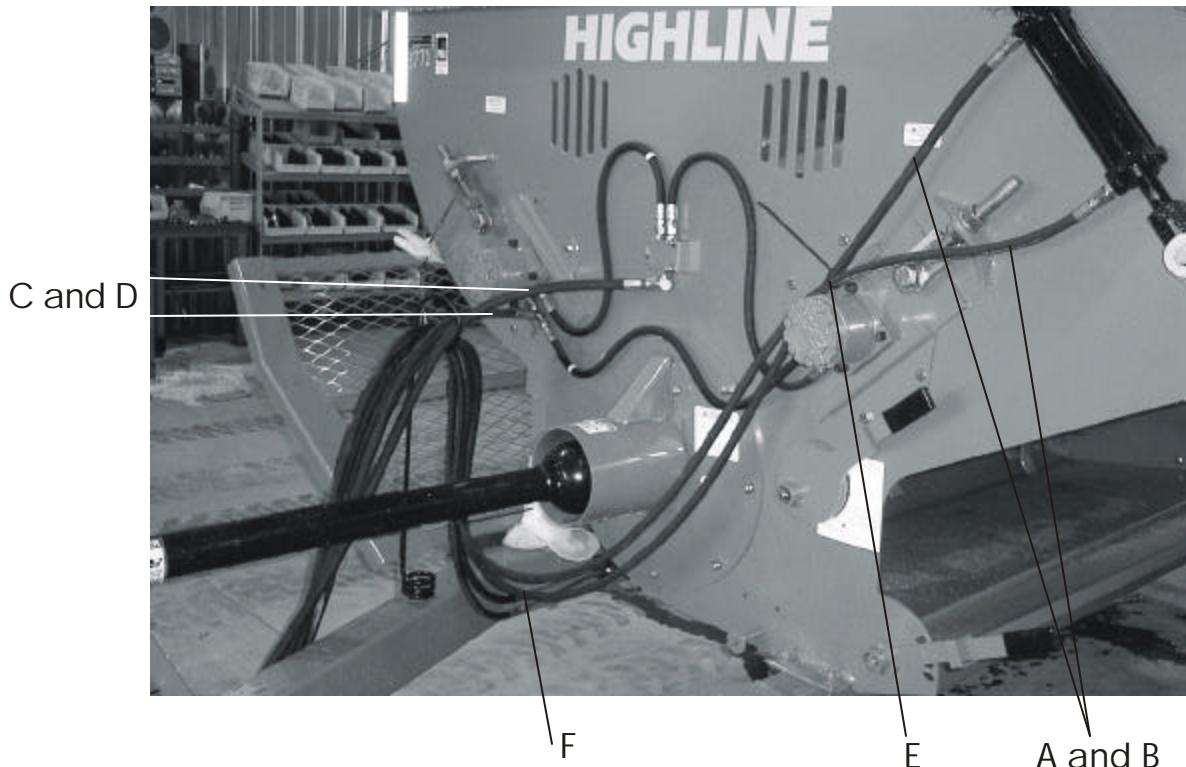


5.10 Three Remote Hydraulic Option (Part No. BPO3RH-3 (89009))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30209	HYD,FIT,PIONEER,MALE,8FP	4
2	30281	HYD,HOSE,1/2X96,8MP-8FJX,2W	1
3	33147	HYD,HOSE,1/2X108,8MP-8FJX,2W	1
4	33148	HYD,HOSE,3/8X180,8MP-8FJX,2W	2
5	31613	TIE,CABLE,NYLON,BLACK,11 1/2"	2



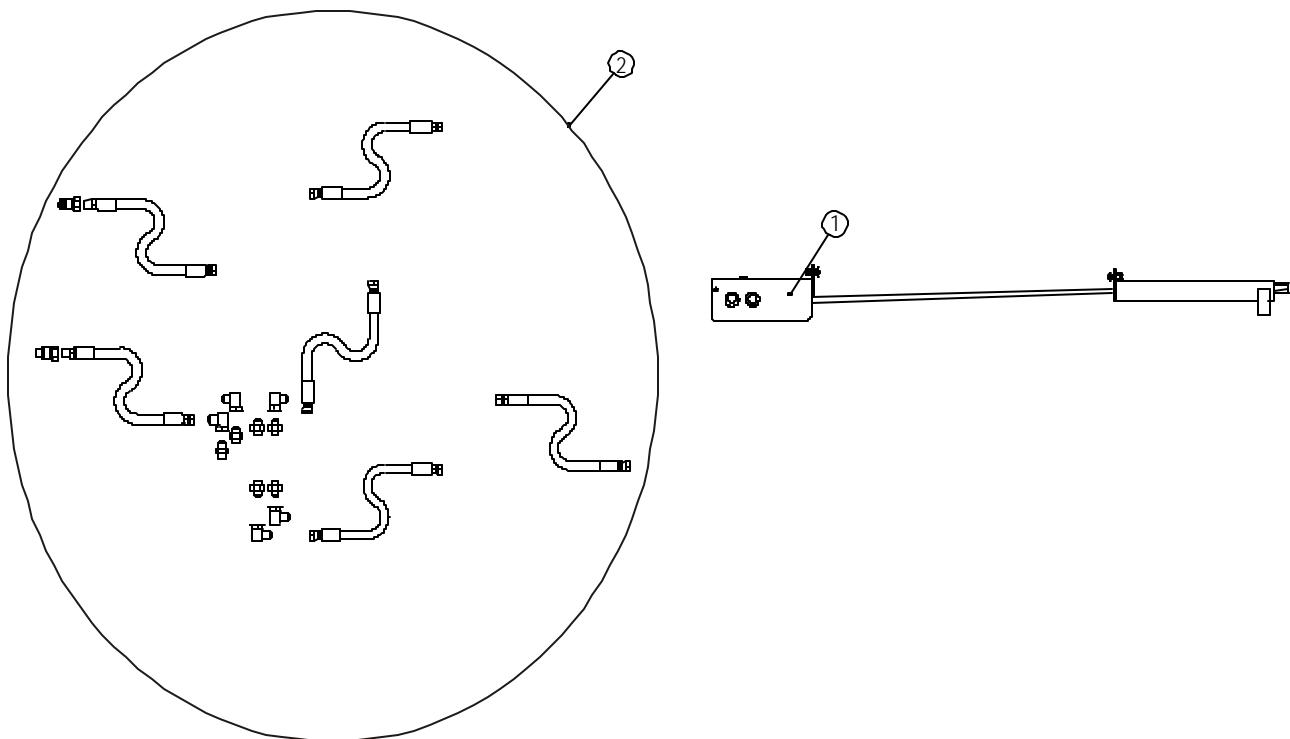
HOSE ROUTING INSTRUCTIONS (Three Remote Hydraulic)



- Route the hoses (A and B) from door cylinder as shown.
- They should run above the hydraulic motor and then underneath the PTO guard; keeping the hoses as close to the front wall as possible.
- Cable tie the hoses near the motor (E) and near the steel lines (F). Leave some slack near motor so when feed roll floats and the hoses do not interfere.
- Route the hoses (C and D) through the pigtail to the front of the machine.

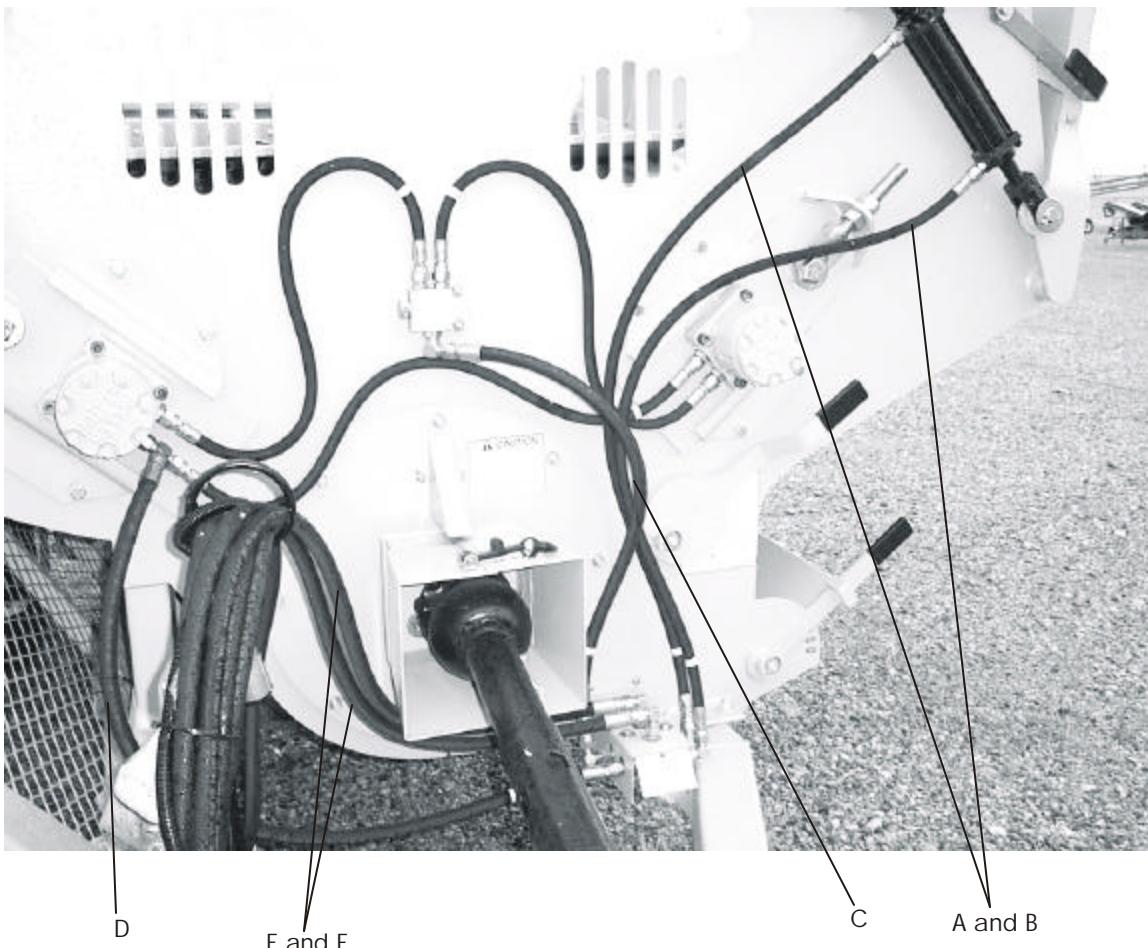
5.11 Mechanical Valve Option (Part No. BPOMAV-3 (89010))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49596	ASSY, ROD,SELECTOR	1
2	49599	ASSY, HYD,SELECTOR	1



HOSE ROUTING INSTRUCTIONS (Mechanical Valve)

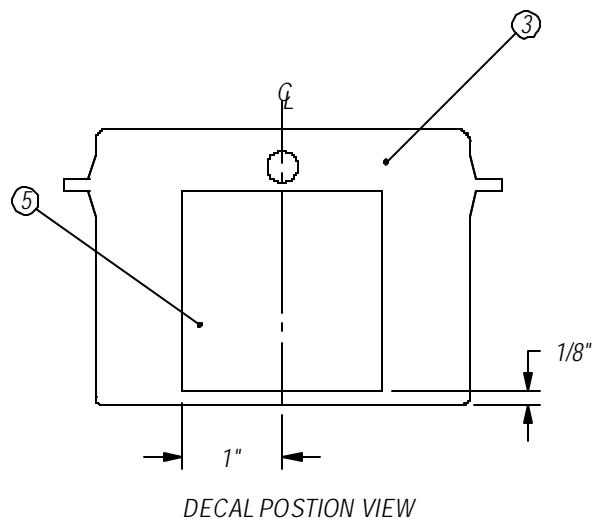
MACHINE MAY APPEAR DIFFERENT THEN PICTURE



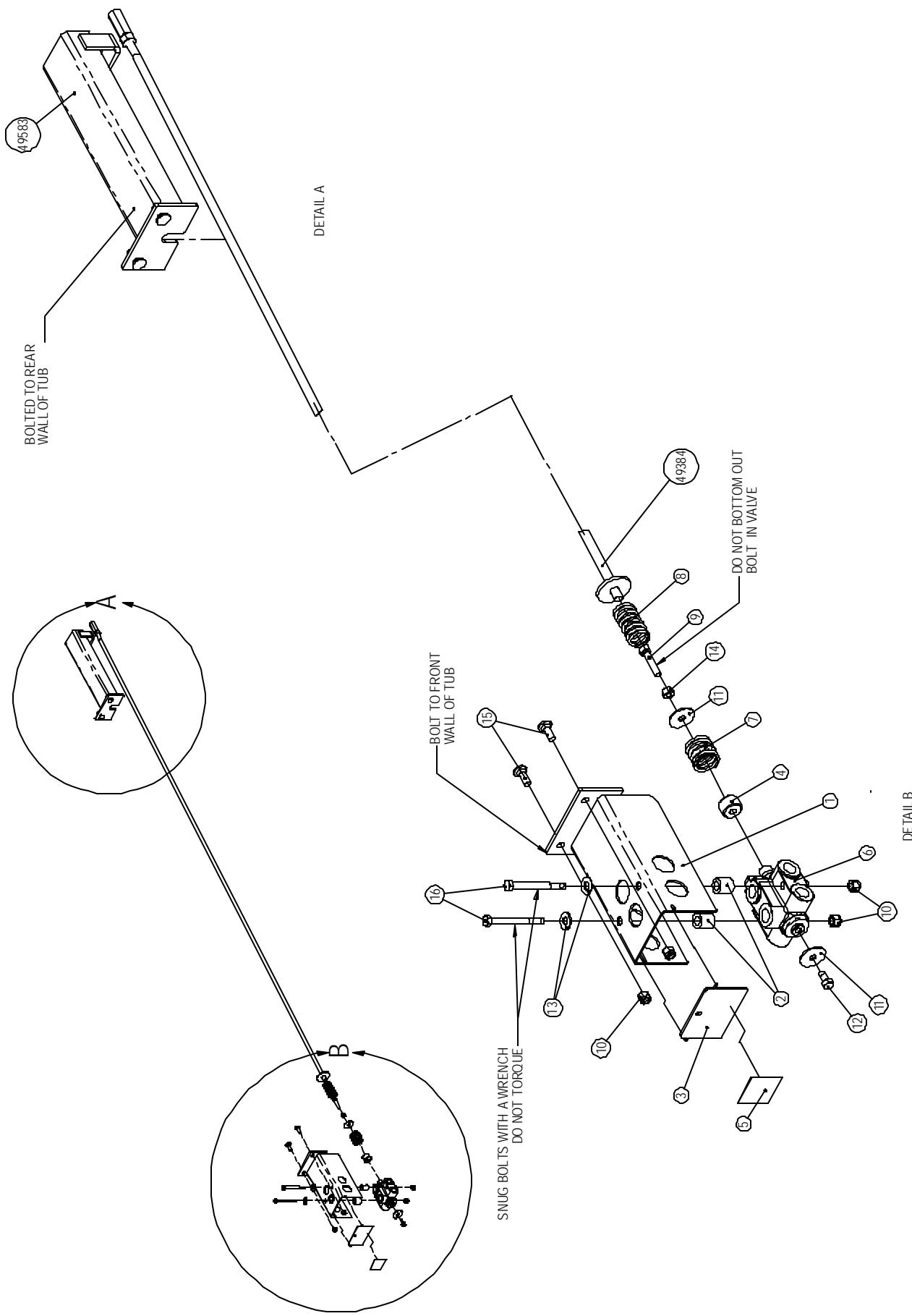
- Route the hoses (A and B) from door cylinder as shown (above hydraulic motor).
- Feed roll hoses should be routed above PTO guard (C and D).
- Supply and return lines should be routed under PTO guard (E and F).
- Route all hoses through the pigtail to the front of the machine.

5.11.1 Selector Rod Assembly (Part No. 49596)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49397	WLDT,SELECTOR,SHIELD	1
2	E7504	PIPE,SMLS,7/8X.188X 7/8L	2
3	E6264	PLT,INDICATOR,SELECTOR	1
4	E6327	BUSHING,SELECTOR	1
5	E6328	REFLECTIVE,TAPE,SELECTOR	1
6	31965	HYD,VALVE,DOUBLE_SELECTOR	1
7	32998	SPRING,1.5X2.50X0.135	1
8	32999	SPRING,1.25X2.31X0.148	1
9	30669	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP,FT	1
10	31176	NUT,NYLOCK,3/8,UNC,ZP	4
11	31234	WASHER,SP,FLAT,.25/64IDX1-1/2OD	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	31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	2
16	31781	BOLT,HEX,3/8X3-1/2,UNC,GR5,ZP	2

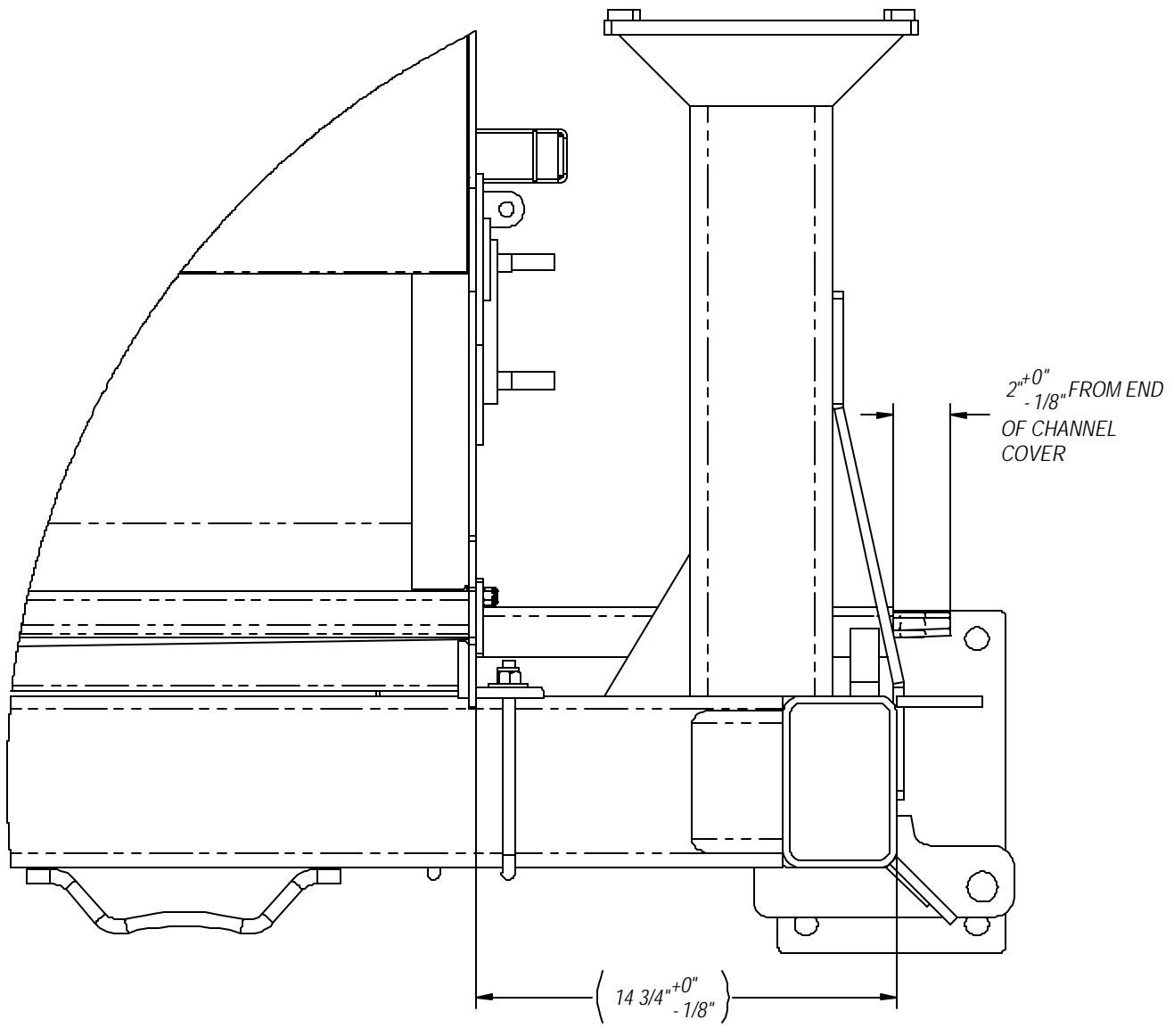


DECAL POSITION VIEW



5.11.2 Mechanical Valve Installation Instructions

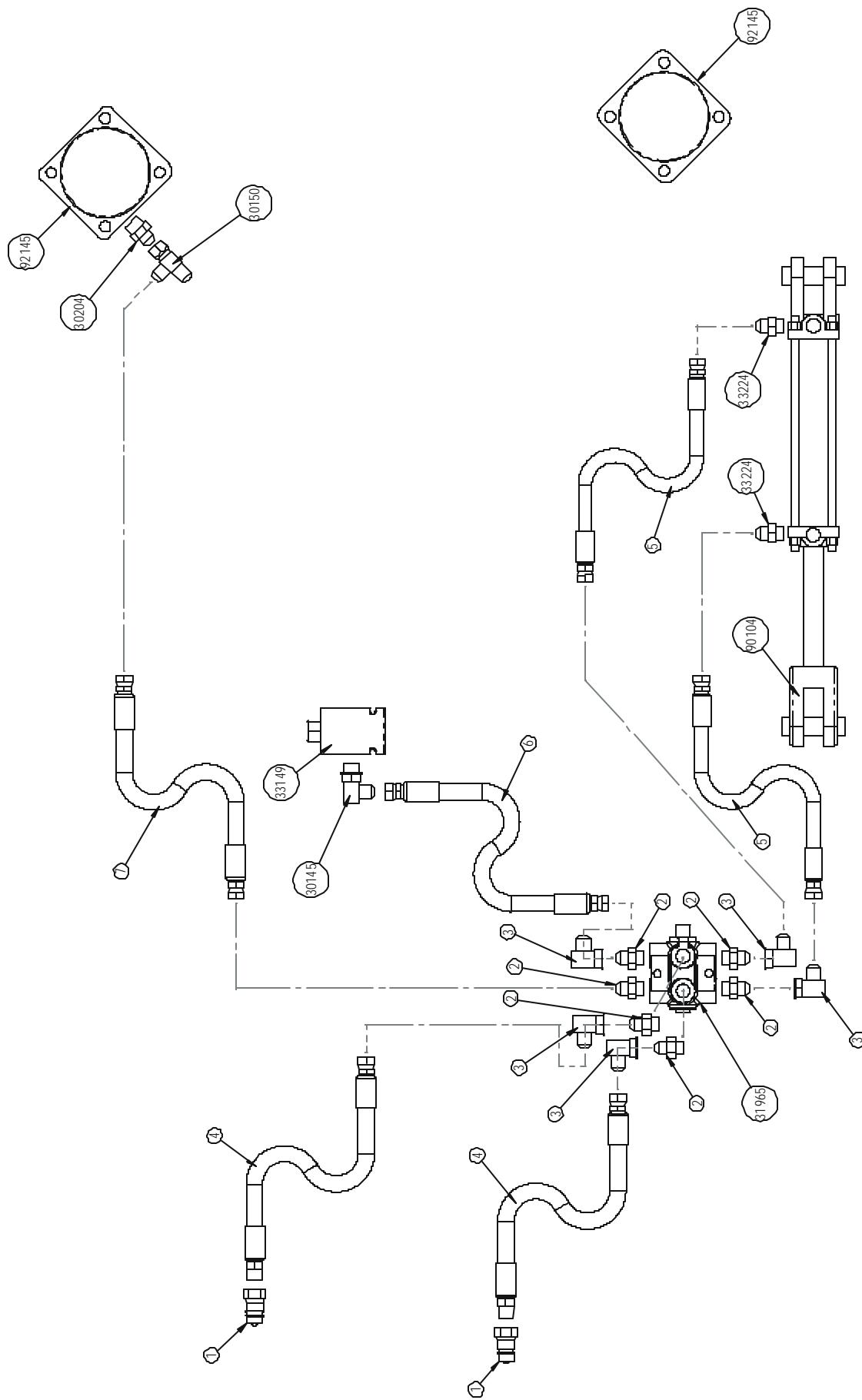
1. Hook the processor to a tractor and connect the bale lift hoses to the tractor. Raise the bale lift and install the cylinder lock.
2. Install item 14 and 15 on the on end of selector valve (item 8). Be sure not to bottom out item 15 inside the spool. Bottoming out the bolt could result in spool not shifting properly
3. Install item 6,9,14 and 17 into the valve (item 8). Fasten in place with item 11 keeping in mind again not to bottom bolt out in valve spool.
4. Take cover (item 2) and install indicator door (item 5) then fasten bushings (item4), and valve (item 7) to the cover using the fasteners provided (items 19,16,13). Snug the bolts holding the valve to the cover. If these bolts are over torqued valve will no shift properly.
5. Refer to diagram 5.11.3. Connect all the adapter fittings (item 2) to the valve and tighten them $\frac{1}{4}$ turn past snug. Connect all elbows (item 3) to appropriate adapters on the valve. Attach the hoses to the valve as shown in the diagram and tighten securely.
6. Refer to 5.11.1 Install selector rod (item 1) through the front and rear wall of tub using the holes provided. They can be found toward the discharge side of the machine close to the frame member.
7. Refer to 5.11.1 diagram. Install the valve/cover/hose combination to the front of the tub wall at the location provided. Install spring (item 10) between valve washer (item 14) and selector rod (item 1). Fasten cover to front wall with fasteners provided (item 13, 18).
8. Refer to 5.11.1 diagram. Install rear cover to back tub wall using the fasteners provided (items 13,18).
9. Connect opposite hose ends as shown in figure 5.11.3.
10. Install items 12 and 20 on the end of the selector rod.
11. The selector rod assembly should be set at 2" from the end of the coupling nut to the edge of the selector rod cover 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. See 5.11.2 diagram.
12. 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.
13. Large adjustments made to the selector rod without checking circuit operation may result in damage to the selector rod, valve, and springs.



COUPLER NUT SETTING

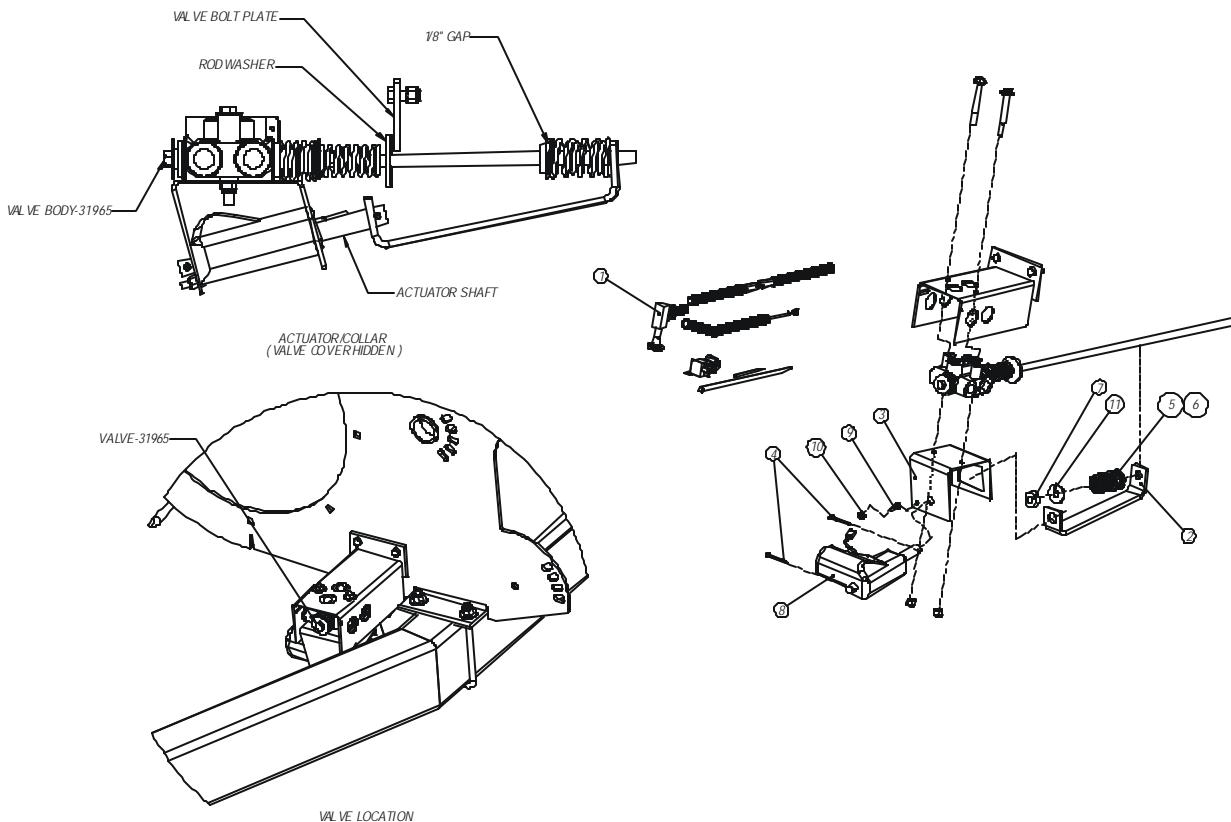
5.11.3 Selector Hydraulics Schematic (Part No. 49599)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30209	HYD,FIT,PIONEER,MALE,8FP	2
2	30215	HYD,FIT,ADAPTER,8MB-8MJ	6
3	30436	HYD, FIT, ELBOW,8FJX-8MU90	5
4	31954	HYD,HOSE,1/2X120,8MP-8FJX,2W	2
5	31956	HYD,HOSE,3/8X56,8FJX-8FJX,2W	2
6	31958	HYD,HOSE,1/2X36,8FJX-8FJX,2W	1
7	31961	HYD,HOSE,1/2X52,8FJX-8FJX,2W	1



5.12 Electric/Hydraulic Selector Valve Option (Part No. BPOEH-3 (89011))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49575	ELEC,HARNESS,SELECTOR VALVE	1
2	E6975	PLT,S,LINK,ACTUATOR	1
3	E6969	PLT,S,MOUNT,ACTUATOR	1
4	30238	PIN,COTTER,3/16X 1-1/2	2
5	32998	SPRING,1.5X2.50X0.135	1
6	32999	SPRING,1.25X2.31X0.148	1
7	33206	COLLAR,SHAFT,1/2,2_PIECE	1
8	33403	ACTUATOR,60LBSX2,12VDC	1
9	31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	1
10	31174	NUT,NYLOCK,1/4,UNC,ZP	1
11	31242	WASHER,FLAT,9/16,ZP	1

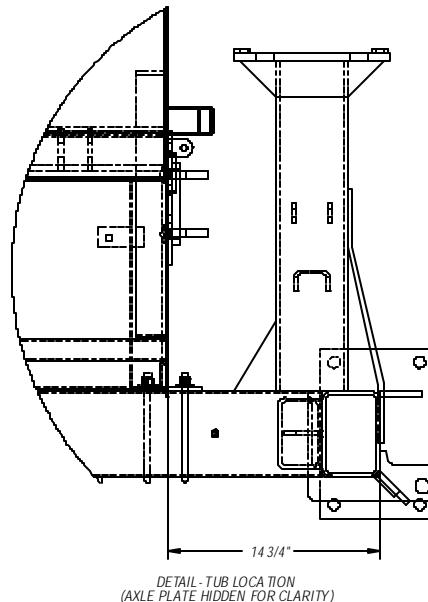


SHAFT COLLAR INSTALLATION INSTRUCTION:

1. FIND VALVE ON FRONT TUB WALL AS SHOWN IN THE DETAIL.
2. ENSURE ACTUATOR SHAFT IS FULLY EXTENDED.
3. ENSURE ROD WASHER IS TOUCHING VALVE BOLT PLATE.
4. SLIDE COILED TOGETHER SPRINGS (32998 & 32999) AND WASHER (31242) AGAINST LINK BAR (E6975).
5. INSTALL SHAFT COLLAR (33206)ON SELECTOR ROD BEHIND THE FRONT TUB WALL ALLOWING A 1/8" GAP BETWEEN THE WASHER (31242) AND COILED TOGETHER SPRINGS (32998 & 32999) .

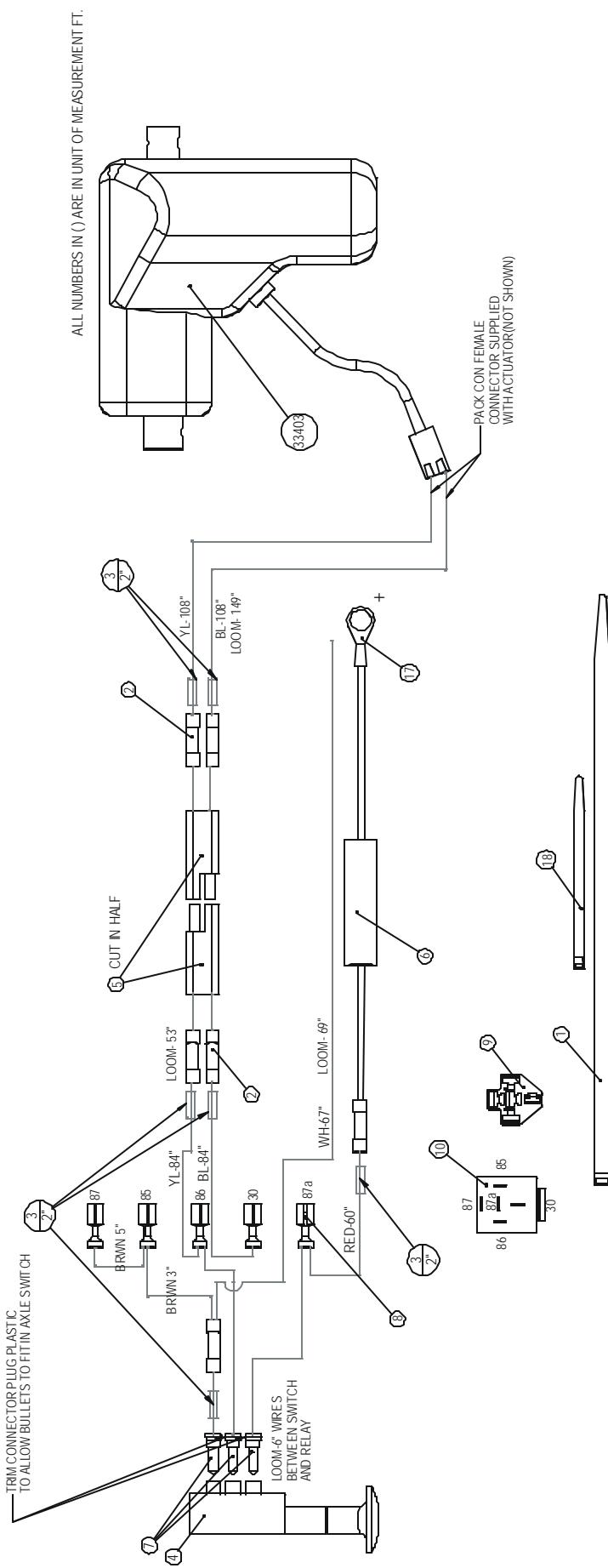
5.12.1 Electric/Hydraulic Selector Valve Option Installation Instructions

1. Unbolt valve with cover from the front wall and set it to the side.
2. Remove the hex and coupling nut from the end of the selector rod. See next page for the position of the coupling nut in relation to the rod end (for later installation).
3. Pull rod out at front of tub until only a few inches is left sticking through the front wall. Go to the discharge side of the machine and slide the spring and the end of the link bar onto the rod.
4. Reinstall the rod through the rear wall.
5. Install the nut and coupling nut on the selector rod end and set the coupling nut at its previous position in relation to the rod end.
6. Remove the bolts that hold the cover to the selector valve. Install the bracket on the bottom of the selector valve as shown. Reinstall bolts and nuts.
7. Remount the valve to the front wall.
8. Connect the wire harness to the actuator connector. Route the wire harness through the hose holder to the front of the processor.
9. Run the harness to the tractor and mount the switch in a suitable location inside the cab.
10. Route the red wire to the tractors accessory power and the white wire to ground. You may need to adjust the length of the red or white wire that is inside the loom for easier routing.
11. When unhooking from the processor use the quick disconnect on the harness.
12. Attach the shaft collar on the rod at the distance shown on the next page.



5.12.2 Harness Schematic for Elec/Hyd Selector Valve Option (Part No. 49575)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31613	TIE,CABLE,NYLON,BLACK,11 1/2"	3
2	30408	ELEC,CONN,BUTT,16-14	6
3	31976	ELEC,HEAT_SHRINK,DUAL_WALL,1/4	1
4	33123	ELEC,SWITCH,AXLE	1
5	33125	ELEC,CONN,2_POLE,FLAT,16GA	1
6	33127	ELEC,HOLDER,FUSE,15AMP	1
7	33130	ELEC,PLUG,BUL,156,90 DEG	3
8	33325	ELEC,TERMINAL,FEMALE,VF4	5
9	33404	ELEC,SOCKET,RELAY,VF4-45F11	1
10	92130	ELEC_RELAY,12V,30A	1
11	92149	ELEC,WIRE,16GA,STRAND,BLACK	1
12	92150	ELEC,WIRE,16GA,STRAND,WHITE	1
13	92151	ELEC,WIRE,16GA,STRAND,RED	1
14	92154	ELEC,WIRE,16GA,STRAND,YELLOW	1
15	92155	ELEC,WIRE,16GA,STRAND,BROWN	1
16	92143	ELEC,LOOM,1/2,SPLIT,CORRUGATED	1
17	92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	1
18	92170	TIE,CABLE,4",BLACK	6



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6.0 Parts Index

Part No.	Description	Page	Item
30102	SUSP,HUB,COMPLETE,EM5500	66	3
30145	HYD,FIT,ELBOW,10MB-8MJ90	51	1
30150	HYD,FIT,TEE,8FJX-8MJ-8MJ	51	2
30204	HYD,FIT,ADAPTER,10MB-8MJ	51	3
30206	HYD,HOLDER,HOSE,1/2	40	3
30207	ZERK,1/4-28,GF641,STRAIGHT	42	7
30207	ZERK,1/4-28,GF641,STRAIGHT	63	9
30207	ZERK,1/4-28,GF641,STRAIGHT	67	11
30208	PLT,SERIAL#	16	1
30209	HYD,FIT,PIONEER,MALE,8FP	48	2
30209	HYD,FIT,PIONEER,MALE,8FP	70	1
30209	HYD,FIT,PIONEER,MALE,8FP	78	1
30210	HYD,CLAMP,HOSE,1/2	48	3
30212	HYD,FIT,ELBOW,8MP-8MJ90	48	4
30215	HYD,FIT,ADAPTER,8MB-8MJ	51	4
30215	HYD,FIT,ADAPTOR,8MB-8MJ	78	2
30220	SUSP,CAP,DUST	67	1
30221	PIN,COTTER,3/16X1-3/4	67	1
30221	PIN,COTTER,3/16X1-3/4	67	2
30222	NUT,SLOTTED,1,UNF	67	3
30223	WASHER,FLAT,1IDX2OD,.2385	67	4
30226	DRV,BRG,RACE,1.781	67	5
30228	DRV,BRG,SEAL,1.98	67	6
30229	SUSP,HUB,EM5500,8BOLT	67	7
30230	CLAMP,PIPE,TOP	42	8
30231	CLAMP,PIPE,BOTTOM	42	9
30238	PIN,COTTER,3/16X1-1/2	52	3
30238	PIN,COTTER,3/16X1-1/2	80	4
30239	SETSCREW,SOCKET,3/8X1-1/2KNUR	52	4
30261	LOCKTHREAD,NYLOCK	52	5
30271	DECAL,DANGER,ROTATING DRIVE	16	2
30281	HYD,HOSE,1/2X96,8MP-8FJX,2W	70	2
30285	DECLA,DANGER,TO PREVENT	16	3
30294	SCREW,TEK,1/4X1	54	6
30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	48	5
30342	SUSP,CAP,DUST,611 HUB	63	5
30344	BRG,1-1/2,611 HUB	63	2
30345	SUSP,BRG,1-1/4,611 HUB	63	4
30346	OIL SEAL	63	1
30352	AUTO LOCK REPAIR KIT	47	1
30353	AUTO LOCK YOKE ASSEMBLY	47	2
30354	CAT 4 80° CROSS AND BEARING	47	3
30355	CENTER HOUSING	47	4
30356	BELL EXTENSION (WITH CENTRALIZER)	47	5
30357	YOKE AND SHAFT	47	6
30358	NYLON REPAIR KIT	47	7
30359	SAFETY SIGN	47	8
30360	CENTRALIZER	47	9
30361	OUTER GUARD	47	10
30362	INNER GUARD	47	11

30363	SAFETY SIGN	47	12
30364	YOKE,TUBE AND SLIP SLEEVE	47	13
30365	35R CROSS AND BEARING KIT	47	14
30367	3/8"X2" - 16 GR5 BOLT	47	16
30368	3/8" - 16 LOCKNUT	47	17
30371	WASHER,FLAT,611 HUB	62	3
30372	NUT,CASTELLATED,BP6800	62	2
30373	SUSP,HUB,H611	63	3
30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	40	6
30408	ELEC,CONN,BUTT,16-14	82	2
30436	HYD,FIT,ELBOW,8FJX-8MJ90	78	3
30556	ELEC,CONN,7 WIRE,FEMALE	56	1
30577	DECAL,RED REFL,2X9	16	4
30578	DECAL,AMBER REFL,2X9	16	5
30611	NUT,NYLOCK,JAM,1/2,UNC,ZP	32	10
30669	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP,FT	74	9
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	28	9
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	36	3
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	46	5
31009	BOLT,CARR,1/2X2,UNC,GR5,ZP	32	9
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	28	10
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	30	13
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	37	3
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	30	14
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	34	10
31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	32	7
31032	BOLT,HEX,1/4X2-1/4,UNC,GR5,ZP	30	12
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	55	10
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	80	9
31034	BOLT,HEX,1-1/4X6,UNC,GR5,ZP	42	14
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	62	4
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	66	5
31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	40	7
31046	BOLT,HEX,5/16X1-1/2,UNC,GR5,ZP	34	11
31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	46	3
31058	BOLT,HEX,9/16X3-1/2,UNC,GR5,ZP	32	8
31059	BOLT,SHCS,1/2X2-1/2,UNC,GR5,ZP	30	9
31061	BOLT,U,SQ,1/2-13,3X7,1-1/4 THREAD	42	10
31066	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP	27	4
31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	38	6
31162	NUT,HEX,1,UNC,GR5,ZP	30	18
31163	NUT,HEX,1/2,UNC,GR5,ZP	44	6
31167	NUT,HEX,3/4,UNC,GR5,ZP	40	8
31167	NUT,HEX,3/4,UNC,GR5,ZP	62	5
31167	NUT,HEX,3/4,UNC,GR5,ZP	66	7
31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	28	11
31169	NUT,STOVER,5/8,UNC,GR5,ZP	42	15
31170	NUT,LOCK,STOVER,5/8,UNF,ZP	26	5
31171	NUT,NYLOCK,1-1/4,UNC,ZP	42	16
31173	NUT,NYLOCK,1/2,UNC,ZP	28	12
31173	NUT,NYLOCK,1/2,UNC,ZP	30	17
31173	NUT,NYLOCK,1/2,UNC,ZP	32	11
31173	NUT,NYLOCK,1/2,UNC,ZP	34	13

31173	NUT,NYLOCK,1/2,UNC,ZP	36	4
31173	NUT,NYLOCK,1/2,UNC,ZP	37	4
31173	NUT,NYLOCK,1/2,UNC,ZP	38	7
31173	NUT,NYLOCK,1/2,UNC,ZP	40	9
31173	NUT,NYLOCK,1/2,UNC,ZP	42	17
31173	NUT,NYLOCK,1/2,UNC,ZP	44	7
31173	NUT,NYLOCK,1/2,UNC,ZP	46	7
31173	NUT,NYLOCK,1/2,UNC,ZP	69	3
31174	NUT,NYLOCK,1/4,UNC,ZP	30	16
31174	NUT,NYLOCK,1/4,UNC,ZP	55	12
31174	NUT,NYLOCK,1/4,UNC,ZP	80	10
31175	NUT,NYLOCK,3/4,UNC,ZP	60	3
31175	NUT,NYLOCK,3/4,UNC,ZP	61	4
31176	NUT,NYLOCK,3/8,UNC,ZP	27	5
31176	NUT,NYLOCK,3/8,UNC,ZP	38	8
31176	NUT,NYLOCK,3/8,UNC,ZP	40	10
31176	NUT,NYLOCK,3/8,UNC,ZP	44	8
31176	NUT,NYLOCK,3/8,UNC,ZP	74	10
31177	NUT,NYLOCK,5/16,UNC,ZP	34	14
31177	NUT,NYLOCK,5/16,UNC,ZP	48	13
31178	NUT,NYLOCK,5/8,UNC,ZP	28	13
31178	NUT,NYLOCK,5/8,UNC,ZP	46	4
31179	NUT,NYLOCK,9/16,UNC,ZP	32	12
31183	PIN,COTTER,3/16X2	48	6
31183	PIN,COTTER,3/16X2	62	4
31205	BOLT,HEX,5/8X4-1/2,UNC,GR8,ZP	42	18
31218	WASHER,LOCK,5/8,ZP	42	19
31234	WASHER,SP,FLAT,25/64IDX1-1/2OD	74	11
31235	WASHER,FLAT,1,ZP	30	23
31235	WASHER,FLAT,1,ZP	34	15
31235	WASHER,FLAT,1,ZP	67	2
31236	WASHER,FLAT,1/2,ZP	30	20
31236	WASHER,FLAT,1/2,ZP	32	13
31236	WASHER,FLAT,1/2,ZP	34	16
31236	WASHER,FLAT,1/2,ZP	36	5
31236	WASHER,FLAT,1/2,ZP	37	5
31236	WASHER,FLAT,1/2,ZP	40	11
31236	WASHER,FLAT,1/2,ZP	44	9
31237	WASHER,FLAT,1/4,ZP	30	19
31237	WASHER,FLAT,1/4,ZP	55	13
31239	WASHER,FLAT,5/16,ZP	48	12
31242	WASHER,FLAT,9/16,ZP	32	14
31242	WASHER,FLAT,9/16,ZP	80	11
31243	WASHER,LOCK1,1ZP	30	24
31244	WASHER,LOCK,1/2,ZP	28	14
31244	WASHER,LOCK,1/2,ZP	30	21
31246	WASHER,LOCK,3/4,ZP	40	12
31246	WASHER,LOCK,3/4,ZP	62	6
31246	WASHER,LOCK,3/4,ZP	66	6
31246	WASHER,LOCK,3/4,ZP	68	3
31315	BOLT,HEX,3/4X2-1/2,GR8,ZP	61	3
31315	BOLT,HEX,3/4X2-1/2,GR8,ZP	68	2
31339	BOLT,HEX,3/4X2,UNC,GR5,ZP	40	13

31345	BOLT,HEX,3/8X3/4,UNC,GR5,ZP	74	12
31351	WASHER,FLAT,3/8,ZP	74	13
31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	36	6
31443	BOLT,HEX,5/16X1-1/4,UNC,GR5,ZP	34	12
31448	BOLT,HEX,1X2,UNC,GR5,ZP	30	15
31485	NUT,HEX,3/8,UNC,ZP	52	1
31485	NUT,HEX,3/8,UNC,GR5,ZP	74	14
31486	BOLT,HEX,3/4X5,UNC,GR5,ZP	60	2
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	38	9
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	44	10
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	74	15
31588	NUT,HEX,3/4,UNF	52	2
31590	CHAIN,SAFETY,ASAE,10100LB,5'4"	61	1
31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	55	4
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	55	5
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	70	5
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	82	1
31649	ELEC,CLAMP,CABLE,1/2	54	5
31650	ELEC,CLAMP,CABLE,3/4	55	6
31668	WAHSER,SPRING,3/4,342	32	5
31668	WASHER,SPRING,3/4,342	34	8
31668	WASHER,SPRING,3/4,342	36	7
31739	RIVET,ST,3/16X.565,.375 HEAD	38	10
31739	RIVET,ST,3/16X.565,.375 HEAD	42	20
31777	NUT,HEX,3/4,UNC,GR8,ZP	68	4
31781	BOLT,HEX,3/8X3-1/2,UNC,GR5,ZP	74	16
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	40	4
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	41	1
31805	PIN,SPRING,3/16X1-1/2	38	11
31809	PIN,SPRING,3/32X5/16	39	3
31810	GRIP,HANDLE,1-1/4IDX4-1/2	39	4
31813	PIN,QUICK RELEASE,1/2X3,ZP	42	11
31814	CLIP,GRIPPER,1 - 1-1/2	38	12
31814	CLIP,GRIPPER,1 - 1-1/2	42	12
31853	ELEC,PLUG,STOP/TURN,RIGHT ANGL	56	2
31860	SPRING,COMPRESSION,3/4X1-7/8"	38	13
31861	HITCH,BASE,3 IN 1	40	5
31862	CLEVIS,HITCH,3 IN 1	60	1
31893	BOLT,CARR,1/2X4-1/2,UNC,GR5,ZP	69	2
31894	RETAINER,BOLT,1/2	28	15
31894	RETAINER,BOLT,1/2	46	6
31900	SUSP,SPINDLE ONLY,S6111	62	1
31945	BOLT,U,SQ,1/2-13X4X7-1/2	44	5
31951	ELEC_LIGHT,AMBER,4DIA,S/T/T	55	7
31952	ELEC_LIGHT,RED,4DIA,S/T/T	55	8
31953	GROMMET,LIGHT,4X4-1/2	55	9
31954	HYD,HOSE,1/2X120,8MP-8FJX,2W	78	4
31955	HYD,HOSE,3/8X40,8FJX-8FJX,2W	51	6
31956	HYD,HOSE,3/8X56,8FJX-8FJX,2W	78	5
31958	HYD,HOSE,1/2X36,8FJX-8FJX,2W	78	6
31961	HYD,HOSE,1/2X52,8FJX-8FJX,2W	78	7
31962	HYD,HOSE,3/8X36,8FJX-8FJX,2W	51	7
31965	HYD,VALVE,DOUBLE SELECTOR	74	6

31976	ELEC, HEAT SHRINK TUBE,DUAL WALL,1/4X48	56	3
31976	ELEC,HEAT SHRINK,DUAL WALL,1/4	82	3
31977	ELEC,CONN,BUTT,16-14GA,NON INSULATED	56	4
31978	ELEC,CONN,BUTT,12-10GA,NON INSULATED	56	5
31981	HYD,HOSE,3/8X28,8FJX-8FJX,2W	48	7
31982	HYD,HOSE,3/8X20,8FJX-8FJX,2W	48	8
31987	NUT,COUPLING,1/2,UNC,ZP	44	11
32082	HYD,FIT,ADAPTER,8MP-8MP	61	2
32250	HYD,CYL,PIN,1	52	7
32257	ROD CAP	50	2
32297	NUT,SLOTTED,1"-14,UNF	67	3
32301	SUSP,BOLT,WHEEL,9/16X1-1/4TX1-13/16L	67	12
32324	SUSP,TIRE,16.5LX16.1,ST2,6PLY	66	2
32336	SUSP,BOLT,WHEEL,1/2X1-1/4X1-3/4L	63	6
32639	BEARING,THRUST,FRONT	53	13
32643	ROTOR KIT	53	5
32647	SEAL KIT,ROLLER,STATOR	53	1
32649	BEARING,HOUSING,REAR,1/2	53	4
32651	BEARING,THRUST,REAR	53	2
32653	SHAFT KIT	53	8
32655	BOLT KIT	53	12
32720	BEARING,HOUSING,FRONT	53	3
32722	DRIVE LINK KIT	53	6
32723	HOUSING KIT	53	7
32725	MANIFOLD	53	9
32726	BALANCE PLATE & BALLS	53	10
32727	END COVER	53	11
32975	HYD,VALVE,CONTROL,FLOW,8FP	61	1
32981	DECAL,PIMA	16	6
32991	BALL SHEAR ASSEMBLY	47	15
32992	SUSP,RIM,W14CX16.1,-1.5,8,WH	66	1
32994	WHEEL,16.5X16.1,-1.5,8,WH	66	4
32998	SPRING,1.5X2.50X0.135	74	7
32998	SPRING,1.5X2.50X0.135	80	5
32999	SPRING,1.25X2.31X0.148	74	8
32999	SPRING,1.25X2.31X0.148	80	6
33017	WASHER,LOCK,HIGH-COLLAR,1/2,ZP	30	22
33026	HYD,FIT,PLUG,8ORB,HOLLOWHEX	52	6
33027	HYD,CYL,CLEVIS,CAP,2,8ORBF	52	8
33028	HYD,CYL,CAP,ROD,2X1-1/8,8ORBF	52	9
33029	HYD,CYL,ROD,1-1/8X14-3/4	52	10
33030	HYD,CYL,2X8	52	11
33031	HYD,CYL,PISTON,2	52	12
33032	HYD,CYL,TIEROD,3/8X8	52	13
33033	HYD,CLEVIS,1-1/8,1PIN	52	14
33034	HYD,CYL,SEALKIT2	52	15
33123	ELEC,SWITCH,AXLE	82	4
33125	ELEC,CONN,2 POLE,FLAT,16GA	82	5
33127	ELEC,HOLDER,FUSE,15AMP	82	6
33130	ELEC,PLUG,BUL.156,90DEG	82	7
33147	HYD,HOSE,1/2X108,8MP-8FJX,2W	70	3
33148	HYD,HOSE,1/2X180,8MP-8FJX,2W	70	4
33149	HYD,VAVLE,FLOW_DIVIDER	30	1

33206	COLLAR,SHAFT,1/2,2 PIECE	80	7
33224	HYD,FIT,ADAPTER,8MB-8MJ,031 ORIFICE	51	5
33325	ELEC,TERMINAL,FEMALE,VF4	82	8
33326	HYD,LINE,STEEL,104,1/2X.049,8FJ	48	9
33327	SUSP,SPINDLE,EM5500,13	67	4
33328	HYD,HOSE,3/8X102,8MJ-8MP,2W	48	10
33403	ACTUATOR,60LBSX2,12VDC	80	8
33404	ELEC,SOCKET,,RELAY,VF4-45F11	82	9
33438	KIT,PIN&CHAIN-5/8"X4.25"	41	2
33439	KIT,5K BEARING REPLACEMENT	41	3
33440	KIT,STD BEVEL GEAR REPLAC.	41	4
33441	KIT,SW CRN CRANK REPLAC.	41	5
33442	COVER,GEARBOX	41	6
37686	ELEC,PLUG,2 POLE,10GA	56	6
37980	ELEC,WIRE,14GA,STAND,BLACK	56	7
37981	ELEC,WIRE,14GA,STAND,WHITE	56	8
37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	55	11
45099	BOLT,STUD,5/8X3-3/4,UNF,GR8	26	1
45185	PIN,CYL,TOP	48	1
45185	TOP CYLINDER PIN	50	11
45192	DUMP	42	1
45222	SUSP,TIRE,11LX15FI,6PLY	63	1
45223	SUSP,WHEEL,15X9LB,1.12OFF,6	63	2
45224	SUSP,HUB,H611,3600LBS	62	1
45230	DRV,DL,35R,CV,CAT4,ROT	46	1
47012	GUARD,TWINE,REAR	30	2
47019	GUARD,TWINE,FRONT	30	3
49007	SCREEN,SPILL	37	1
49015	PLATE,SLIDE,REAR	30	4
49017	ROLLER,FEED,COMPLETE	30	5
49022	AXLE	62	2
49027	ROLLER,FEED	27	1
49054	GUARD,DRUM,FLAIL	28	1
49065	EXTENSION,AXLE,SHORT,BP	68	1
49089	WHEEL,COMPLETE,BP,OFF-WHITE	62	3
49093	FORK,LEFT	42	2
49094	FORK,RIGHT	42	3
49095	BUMPER	42	4
49096	PLATE,SLIDE,FRONT	30	6
49099	DOOR,DISCHARGE,BOTTOM	36	1
49101	HANDLE,ADJ,ROD,FLAIL	32	1
49102	HANDLE,DEFLECTOR,BOTTOM	36	2
49108	GUARD,FLAIL	32	2
49110	BAR,ADJ,GUARD,FLAIL	32	3
49159	DRUM,FLAIL,WITH CUTTER	26	2
49160	DRUM,FLAIL,WITH CUTTER,COMPLETE	28	2
49163	PLATE,BEARING,FRONT	28	3
49164	CUTTER,TWINE	39	1
49165	CUTTER,TWINE,COMPLETE	38	1
49196	LOCK,CYLINDER,DUMP	42	5
49204	ELEC,LIGHT,12V,REWORDED	54	1
49205	ELEC,HARNESS,LIGHT,OPTIONAL	54	2
49285	WLDT,COVER,CUTTER	38	2

49364	ELEC,HARNESS,LIGHT,BP	55	1
49365	WLDT,DOOR,DISCHARGE	34	1
49367	WLDT,PIN,DOOR,FRONT	34	2
49368	WLDT,LOCK,DOOR	34	3
49370	WLDT,FORK,NARROW	69	1
49384	WLDT,ROD,SELECTOR	44	1
49397	WLDT,ELECTOR,SHIELD	74	1
49420	ELEC,HARNESS,TRACTOR RFLIGHT	54	3
49451	PIN,ADJUSTMENT,ROD,FLAIL,HD	32	4
49464	WLDT,GUARD,CV,1_PIECE	46	2
49575	ELEC,HARNESS,SELECTOR,VALVE	80	1
49580	WLDT,DEFLECTOR,BALE	37	2
49581	WLDT,AXLE,16.5L,RGT,13EM5500	66	1
49582	WLDT,AXLE,16.5L,LFT,13EM5500	66	2
49583	WLDT,COVER,ROD	44	4
49585	ROD,ADJUSTMENT,UNC,1	30	7
49586	WLDT,HOLDER,CV	40	1
49591	WLDT,TUB	44	2
49592	WLDT,FRAME,CART	44	3
49596	ASSY,ROD,SELECTOR	72	1
49599	ASSY,HYD,SELECTOR	72	2
90104	HYD,CYL,2X8,1.125,8FB	34	9
90133	HYD,CYL,3X16,1.5,8FP	48	11
90676	SEAL KIT	50	10
90706	PISTON	50	3
90722	1-14 NUT,UNF	50	9
90800	1/2" NUT,UNF	50	7
90802	1/2" TIE ROD	50	6
90846	1-1/2" ROD	50	4
90849	ROD CLEVIS	50	8
90991	CLEVIS CAP	50	1
90993	CYLINDER TUBE	50	5
91048	SUSP,STEM,VALVE,TR801HP	63	3
91048	SUSP,STEM,VALVE,TR801HP	66	3
91111	DRV,BRG,TAPERED,OUTER,1.375	67	8
91130	SUSP,BRG,RACE,LM67010	63	8
91131	DRV,BRG,RACE,OUTER,1.375	67	9
91133	DRV,BRG,TAPERED,INNER,1.781	67	10
91150	SUSP,BRG,RACE,LM29710	63	7
91703	ZERK,1/4-28 X 45°	42	13
92028	SIGN,SLOWMOVING	16	7
92081	WASHER,FLAT,3/16X2ODX9/16ID	28	7
92091	BRV,BRG,FLANGE1-3/4"	28	8
92094	DRV,BRG,FLANGE,1-3/8"	30	10
92127	COVER,VINYL,3/8X1-1/2	32	6
92127	COVER,VINYL,3/8X1-1/2	36	8
92130	ELEC RELAY,12V,30A	82	10
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	56	9
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	82	16
92145	HYD,MOTOR	30	11
92149	ELEC,WIRE,16GA,STRAND,BLACK	82	11
92150	ELEC,WIRE,16GA,STRAND,WHITE	82	12
92151	ELEC,WIRE,16GA,STRAND,RED	82	13

92153	ELEC,WIRE,16,GREEN,STRAND	56	10
92154	ELEC,WIRE,16,YELLOW,STRAND	56	11
92154	ELEC,WIRE,16GA,STRAND,YELLOW	82	14
92155	ELEC,WIRE,16,BROWN	56	12
92155	ELEC,WIRE,16GA,STRAND,BROWN	82	15
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	82	17
92170	TIE,CABLE,4",BLACK	56	13
92170	TIE,CABLE,4",BLACK	82	18
92558	DECAL,WARNING,FOR ADJUSTMENT	16	8
92562	DECAL,WARNING,HITCH,JACK	16	9
92573	DECAL,DANGER,OCTAGON	16	10
92579	DECAL,HIGHLINE,4X30	16	11
E2083	PIPE,CDBW,1X.180X2-1/8L	26	3
E2138	PLATE,RETAINER,SLIDE	30	8
E3003	PLT,WEIGHT,BELTING	34	4
E3265	DECAL,GREASEZERK,8H	16	12
E3266	DECAL,GREASEZERK,16H	16	13
E3276	PLT,S,CLAMP,BUSHING	42	6
E3581	BELTING,ROLLER,FEED,14 HOLE	27	2
E3646	PIPE,SMLS,2-1/4X.240X3/8L	28	4
E3669	SHAFT,1/2X1	55	2
E3834	DECAL,DANGER,DO NOT STAND	16	14
E5017	PLT,RETAINING,BELTING	34	5
E5018	BELTING,DISCHARGE	34	6
E5057	DECAL,HIGHLINE,71X10	16	15
E5377	FLAIL,TG,.447	26	4
E5673	BRACKET,MOUNT,LIGHT	54	4
E5838	BLADE,TWINE CUTTER	39	2
E5845	SHT,HOLDER,TWINE CUTTER	38	3
E5848	LOCK,HANDLE,DRUM,FLAIL	38	4
E5850	LOCK,DRUM,FLAIL	38	5
E5857	DECAL,TWINE CUTTER	16	16
E5868	DECAL,LOCK,CYLINDER	16	17
E6105	DECAL,WARNING,CV ANGLE	16	18
E6150	PLT,C,1/4X13/16X2-1/4	61	2
E6188	PIPE,SMLS,3/4X.120X7/8L	34	7
E6258	DECAL,BALE_PR_7000HD	16	19
E6259	MOUNT,LAMP,GROMMET,2X4-1/2	55	3
E6264	PLT,INDICATOR,SELECTOR	74	3
E6327	BUSHING,SELECTOR	74	4
E6328	REFLECTIVE,TAPE,SELECTOR	74	5
E6402	DECAL,ROD ADJ,HD	16	20
E6405	PIPE,SMLS,2-1/4X.240X1/4L	28	5
E6406	PIPE,SMLS,2-1/4X.240X1/8L	28	6
E6526	PLT,SCRAPER,RUBBER	27	3
E6546	ANGLE,BRIDLE,HITCH	40	2
E6969	PLT,S,MOUNT,ACTUATOR	80	3
E6975	PLT,S,LINK,ACTUATOR	80	2
E7504	PIPE,SMLS,7/8X.188X7/8L	74	2

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 7HD-3 Dealer Checklist

Options: BPO3RH-3 BPOEH-3 BPOHC-3 BPORFL-3 BPONF-3
 BPOMAV-3 BPOST-3 BPOAE12-3 EZFEED S# _____
 BPOLT-3 BPOFC-3 BPOSC-3 BPOCL-3

N/A	✓	Check List Item
		Flail rod adjustment handle moves freely and will hit all 5 adjustment holes.
		Anchor Guard Position - bottom hole
		Bottom deflector door moves freely and will hit all 4 adjustment holes.
		Free and proper movement of selector rod. Refer to Assembly Drawing 49295
		Transport lock for deflector door is installed and functional.
		Position feed rollers. Refer to Assembly Drawing 49286
		Ensure all grease points are lubricated and grease point decals installed
		Ensure lift assembly is against frame when cylinders are retracted.
		Safety decals & reflective stripes installed per specifications and drawings.
		Check tire pressure as specified on tire.
		Ensure flail drum lock engages the flail drum in both positions and disengages freely.
		Ensure twine cutter can be passed through the full length of tub (both top/bottom of flail drum).
		Ensure twine cutter is secured in storage position for shipping.
		Gripper clip for extension guide is installed and functional.
		Full library of manuals (operators, and parts) shipped with machine (When applicable).

N/A	✓	PACKAGING LIST
		1-49093 Fork,Left and 1-49094 Fork,Right
		2-49580 Wldt,Deflector,Bale
		1-E5018 Belting,Discharge (6-E3003 Plt,Weight,Belting and 1-E5017 Plt,Retaining,Belting)
		Mount 49007 Screen,Spill - on right hand side of tubs.
		16-31016 Bolt,Hex,1/2x1 1/2,UNC,GR5,ZP and 16-31173 Nut,Nylock,1/2,UNC,ZP
		10-31443 Bolt,Hex,5/16x1 1/4,UNC,GR5,ZP and 10-31177 Nut,Nylock,5/16,UNC,ZP
		32-31236 Washer,Flat,1/2,ZP

N/A	✓	OPERATIONAL CHECK
		- feed rollers (slide easily in slide retainers)
		- flail drum (not binding on twine guards)
		- discharge door activates (when dump is down)
		- feed rollers activate (when dump is up)
		- flails not hitting tub or rods - test 1 in 10 using tractor
		Feed Rollers turn in both directions-unison (same direction)
		Ensure free movement of BP forks (not binding).
		Ensure cylinder transport lock fits with forks in transport position.
		Hydraulic motors to be operated and checked for leaks and free movement.
		Cycle all cylinders a minimum of 3 times, check for leaks and clearance problems.
		Discharge Door - CylinderClevis adjusted