Highline Mfg. Inc.

July 2003

Bale Pro 7000HD-4 2004 Owner's Manual

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Warranty

Highline New Agricultural Equipment Limited Warranty

Effective July 1, 2000 Two (2) Year / 24 Months
1st Year Parts and Labour - 2nd Year Parts Only

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

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

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

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

EXCLUSIONS AND LIMITATIONS

The warranties contained herein shall NOT APPLY TO:

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

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

PARTS WARRANTY

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

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

President's Message

Congratulations on your purchase of the *Bale Pro 7000 HD-4*! Bale Pro, a proven name in livestock feed handling equipment, is manufactured by Highline Mfg. Inc. Highline Mfg. Inc. is a company with over 25 years experience in the farm implement industry.

This operator's manual has been prepared to provide information necessary for safe and efficient operation of your *Bale Pro 7000 HD-4*. In this manual you will find safety procedures, maintenance routines and detailed parts diagrams. This bale processor model was designed for controlled, aggressive processing with less bunching. A little time and effort spent following the recommended maintenance procedures will increase the performance and durability of your bale processor.

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

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

Highline Mfg. Inc. thanks and congratulates you for choosing the *Bale Pro 7000 HD-4* 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.

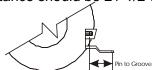
Before operating the Bale Pro 7000 HD-4, be sure to review *all* of the instructions and familiarize yourself with its features.

1.0 Operating Instructions

1.1 General Operating Instructions

Successful operation of the Bale Pro 7000 HD-4 is dependent upon the quality of the bale, the height of the feed rollers and flail guard rod and also upon the operator. The following steps ensure proper and efficient operation. Please read them all carefully before operating your new BP7HD-4.

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



- It is recommended that the hitch tongue be placed so that the Bale Pro 7000 HD-4 frame is level.
 This will ensure that the bale forks are low enough to load a bale. Ensure adequate clearance to the PTO shaft.
- 3. Ensure that the machine stays properly greased at all recommended locations (See Maintenance Instructions).
- 4. The top discharge deflector door has a 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.

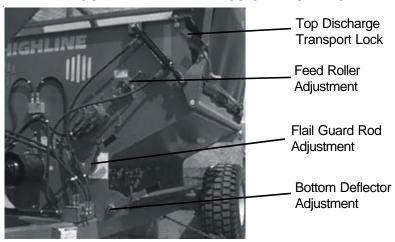
The door may drop a small amount (1/4") as the bale forks are brought to the fully down position and up again even if the door is not adjusted. This is caused by cross leakage inside the selector valve and should not be a problem except for repeated actuation of the selector valve. This leakage can be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



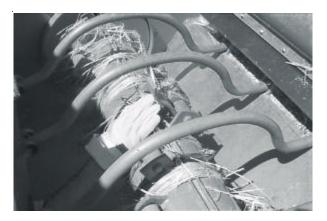
2. Ensure the flail guard rod adjustment lever is NOT in position #5. Failure to do so will result in damage to the twine cutter blade.



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.

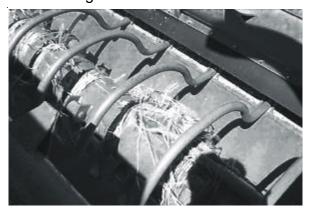


7. Align the twine cutter with the groove on the extension guide (Figure A). Slide the tool into the groove and cut through the twine in a saw-like action (Figure B).

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.



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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-4.

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

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

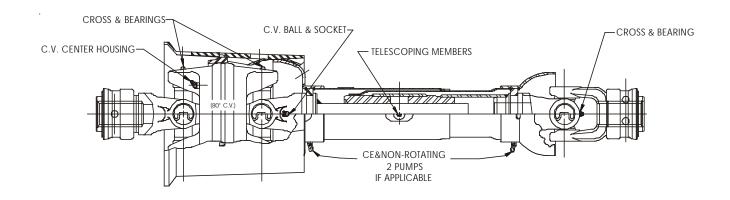
Casted pipe clamps for the bale forks should be checked every 50 bales and tightened if necessary.

Maintaining proper lubrication of the Bale Pro 7000 HD-4 is crucial for proper operation. Lubricate all fittings with a good quality lithium soap base E.P. grease meeting the N.L.G.I. #2 specifications and containing no more than 1% molyboenum disulfide.

An E.P. grease meeting the N.L.G.I. #2 specifications and containing 3% molyboenum disulfide may be substituted in the telescoping, CV Ball and socket, and CV centre housing member only. For applications operationg below 0°F (-18°C) a good quality polyurea grease, meeting the N.L.G.I. #2 specifications and containing no more than 1% molyboenum 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.



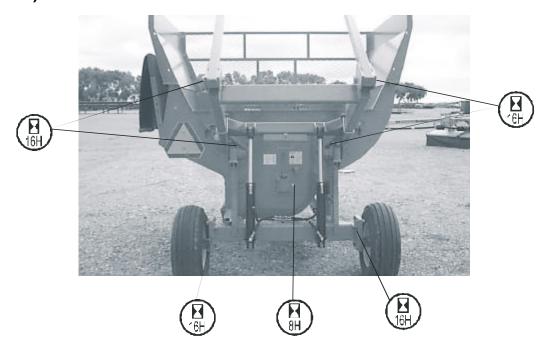
CAUTION: REPLACEMENT PARTS ARE NOT LUBRICATED

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 3.2 - Grease Zerk Locations.

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





3.0 Safety Messages

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

Understand Safety Alert Symbol

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



Understand Signal Words.

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

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

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

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

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

Read, Understand, and Follow Safety Instructions

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

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

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

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



Keep Machine in Good Condition

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

Visually inspect the machine daily before starting the machine.

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

Keep Spectators Away From Machine

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

Avoid Moving Parts

Contact with moving parts can cause death or serious injury.

- Keep away from power-driven parts such as the reel.
- Wear close-fitting clothing and confine long hair. Avoid wearing jewelry, such as rings, wrist watches, necklaces, or bracelets.
- Keep all shields and doors closed during operation.

Avoid High Pressure Leaks

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

Avoid Tire Explosion

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

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

Working on the Bale Processor

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

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

Safety Decal Maintenance

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

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

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

SHUTDOWN PROCEDURE

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

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

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



Stay Clear Of Rotating Driveline

Entanglement in rotating driveline can cause death or serious injury.

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



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



Avoid Discharge Area

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



Twine Cutter

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



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



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

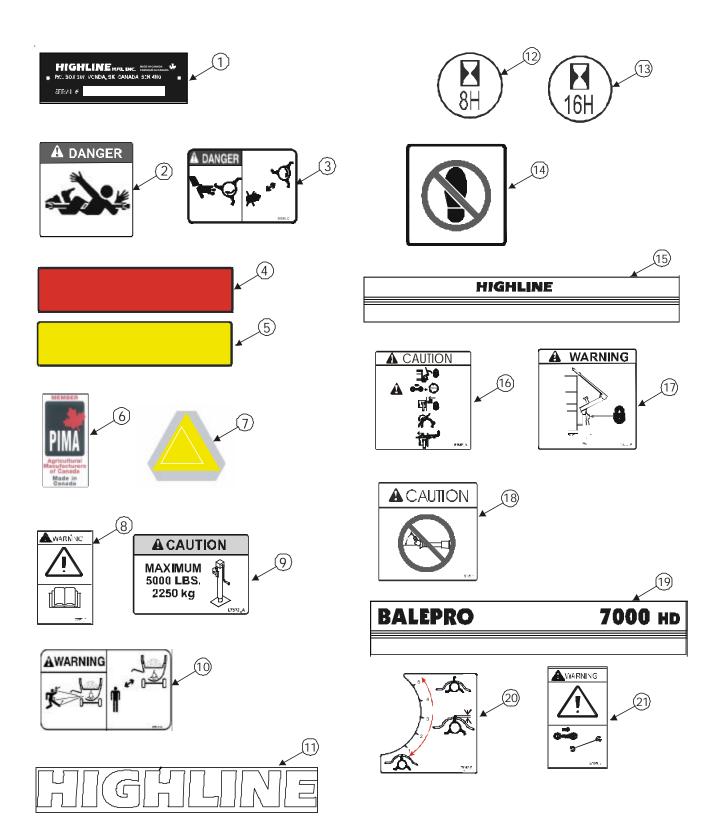


Depth of Cut Lever

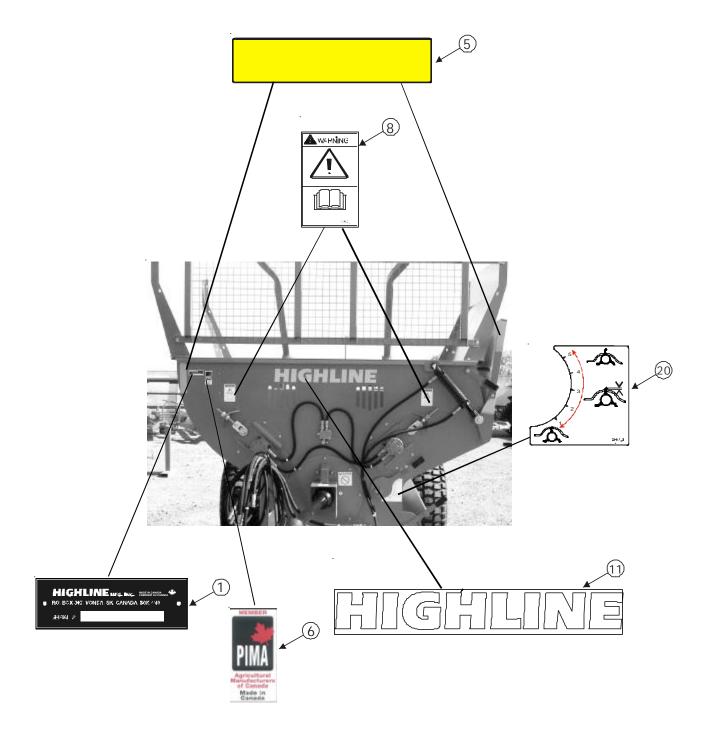
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3.1 Decal Location (Part No. 49296)

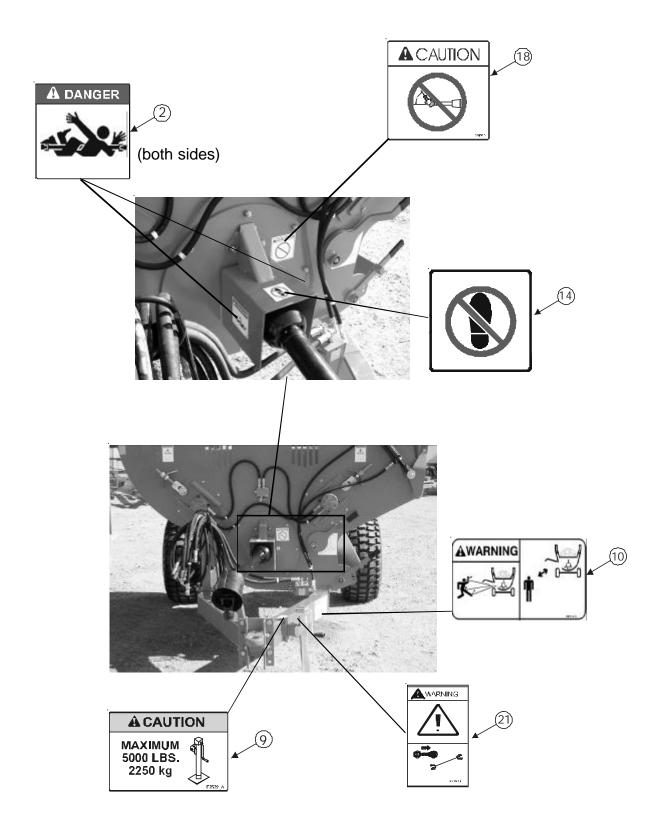
ITEMNO.	PARTNO.E	ESCRIPTION	QTY.
1	30208	PLT,SERIAL#	1
2	30271	DECAL,DANGER,ROTATINGDRIVE	2
3	30285	DECAL,DANGER,TOPREVENT	2
4	30577	DECAL,REDREFL,2X9	3
5	30578	DECAL,AMBERREFL,2X9	2
6	32981	DECAL,PIMA	1
7	92028	SIGN,SLOWMOVING,S276.5	1
8	E7552	DECAL,WARNING,OWNERS_MANUAL	2
9	E7572	DECAL,CAUTION,JACK,5000LBS	1
10	92573	DECAL,WARNING,DISCHARGE	2
11	92579	DECAL,HIGHLINE,4X30	1
12	E3265	DECAL,GREASEZERK,8H	2
13	E3266	DECAL,GREASEZERK,16H	6
14	E3834	DECAL,DANGER,DONOTSTAND	1
15	E5057	DECAL,HIGHLINE,71X10	2
16	E5857	DECAL,TWINECUTTER	1
17	E5868	DECAL,LOCK,CYLINDER	1
18	E6105	DECAL,WARNING,CVANGLE	1
19	E6258	DECAL,BALE_PRO_7000HD	2
20	E6402	DECAL,RODADJ,HD	1
21	E7553	DECAL,WARNING,STOP_ENGINE/SERVICE	1
22	30288	RIVET,ST,1/8X.390,.250HEAD	2
23	31174	NUT,NYLOCK,1/4,UNC,ZP	2

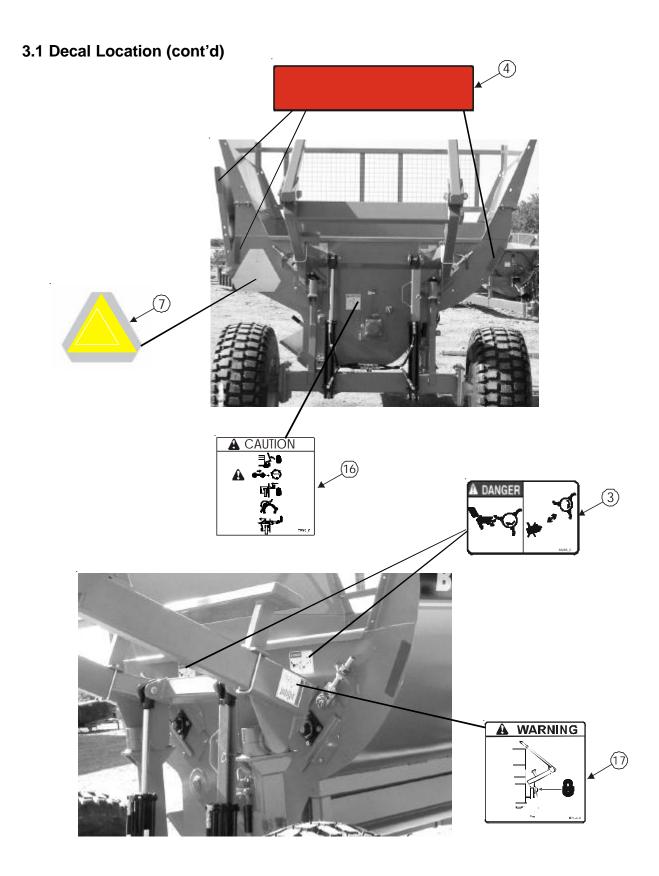


3.1 Decal Location (cont'd)

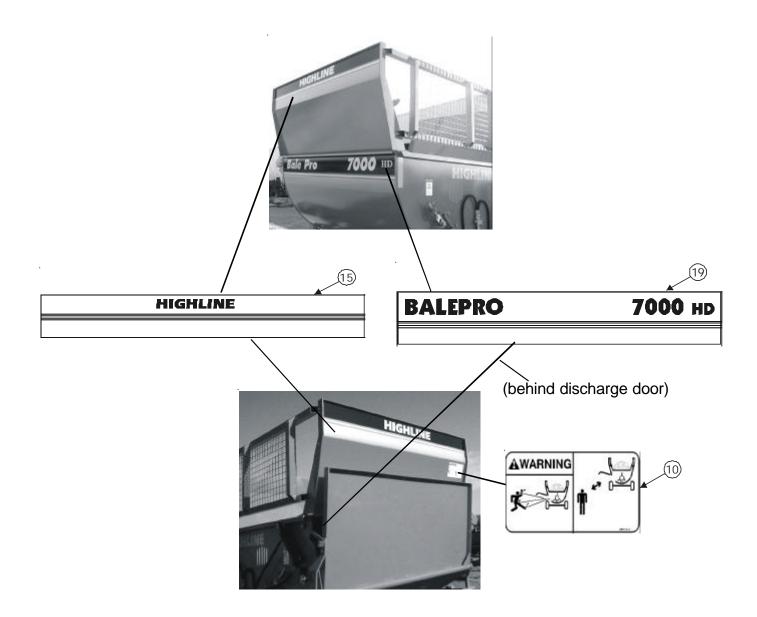


3.1 Decal Location (cont'd)



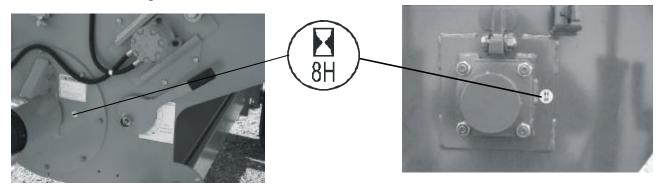


3.1 Decal Location (cont'd)

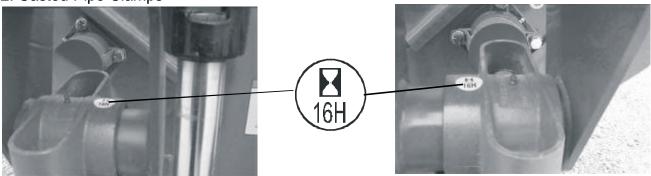


3.2 Grease Zerk Locations

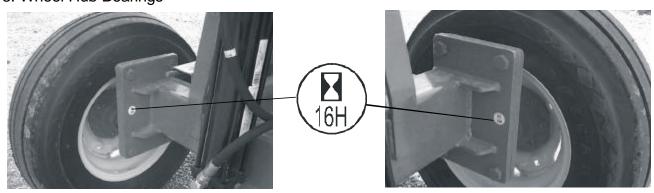
1. Flail Drum Bearings



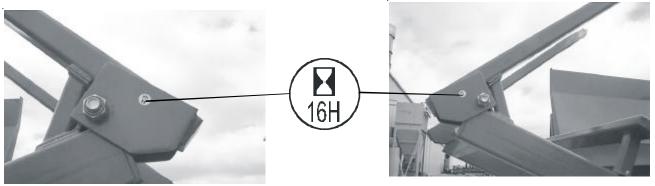
2. Casted Pipe Clamps



3. Wheel Hub Bearings



4. Forks

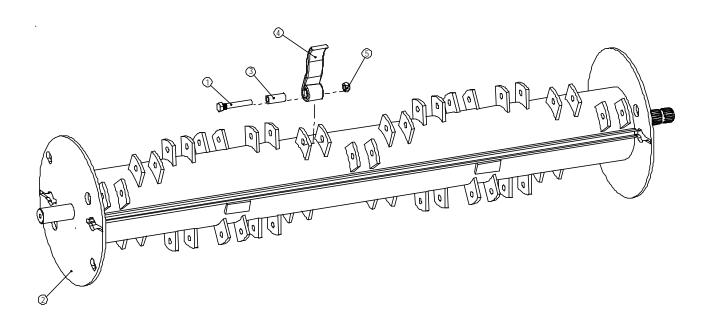


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4.0 Parts Information

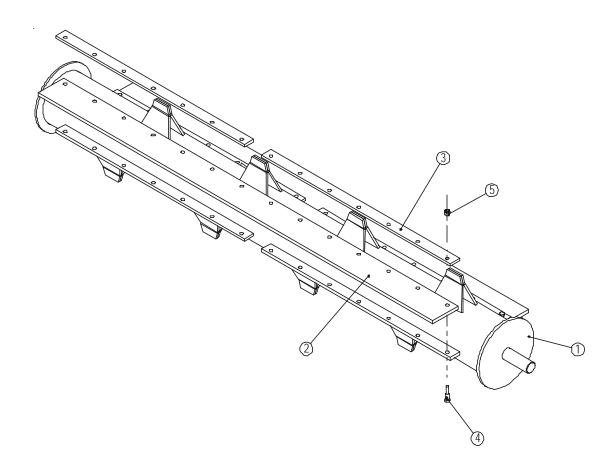
4.1 Flail Drum Assembly (Part No. 49160)

ITEMNO.	PARTNO.E	ESCRIPTION	QTY.
1	45099	BOLT,STUD,5/8X3-3/4,UNF,GR8	26
2	49159	DRUM,FLAIL,WITHCUTTER	1
3	E2083	PIPE,DOM,1x.180x2-1/8L,HARD	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)

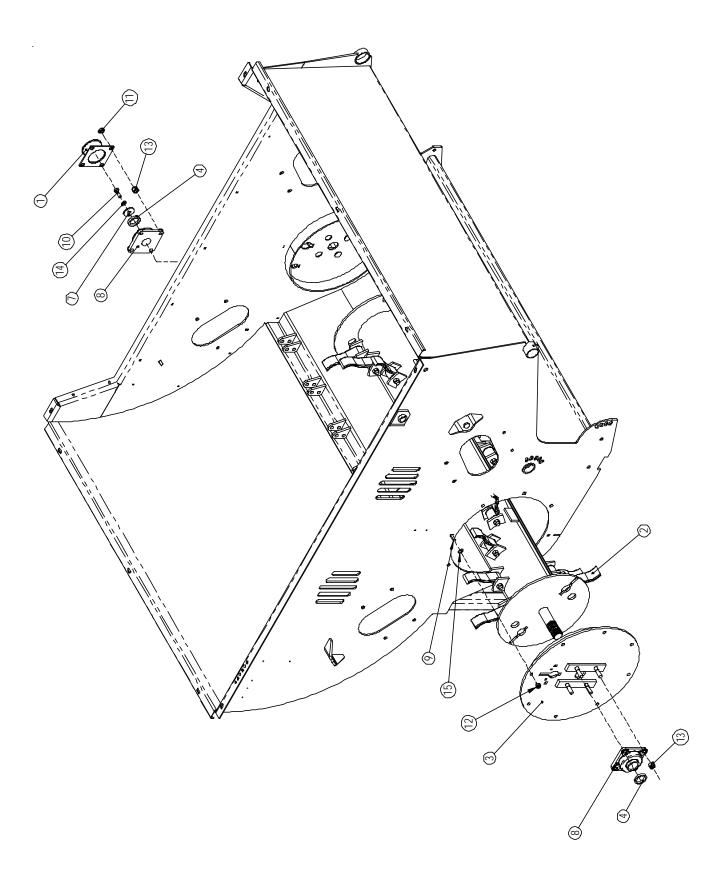
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49027	ROLLER, FEED	1
2	E3581	BELTING,ROLLER,FEED,14 HOLE	2
3	E6526	PLT,SCRAPER,RUBBER	4
4	31066	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP	28
5	31 176	NUT,NYLOCK,3/8,UNC,ZP	28



4.3 Flail Drum Installation (Part No. 49177)

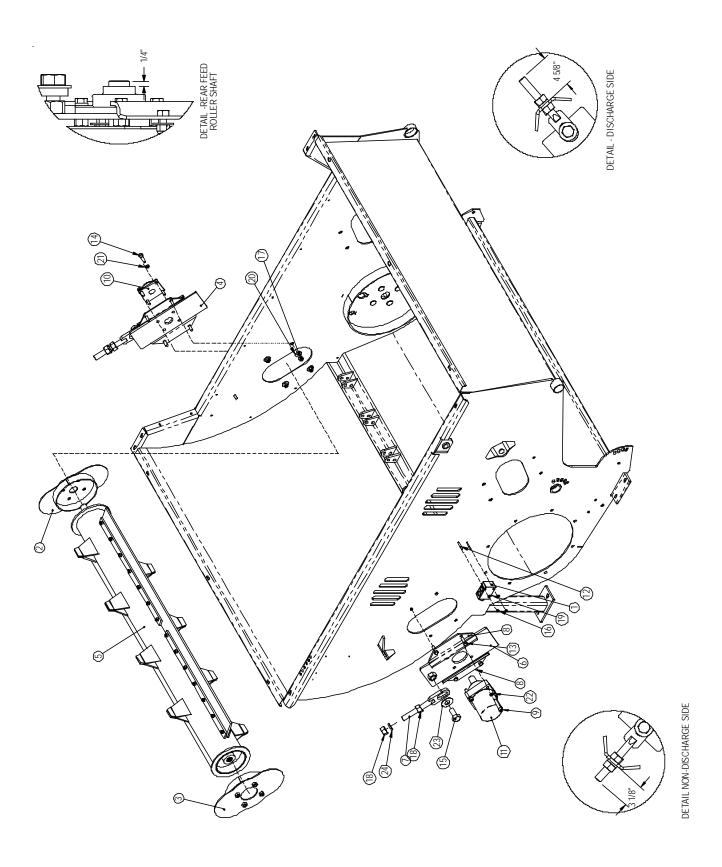
ITEMNO.	PARTNO.E	ESCRIPTION	QTY.
1	49054	GUARD, DRUM,FLAIL	1
2	49160	DRUM,FLAIL,WITHCUTTER,COMPLETE	1
3	49163	PLATE,BEARING,FRONT	1
4	E3646	PIPE,SMLS,2-1/4x.240x3/8L	2
5	E6405	PIPE,SMLS,2-1/4x.240x1/4L	1
6	E6406	PIPE,SMLS,2-1/4x.240x1/8L	1
7	92081	WASHER,FLAT,3/16X2ODX9/16ID	1
8	92091	DRV,BRG,FLANGE,1-3/4"	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 E6405 AND E6406 ARE NOT SHOWN AND ARE TO BE USED AS REQUIRED.



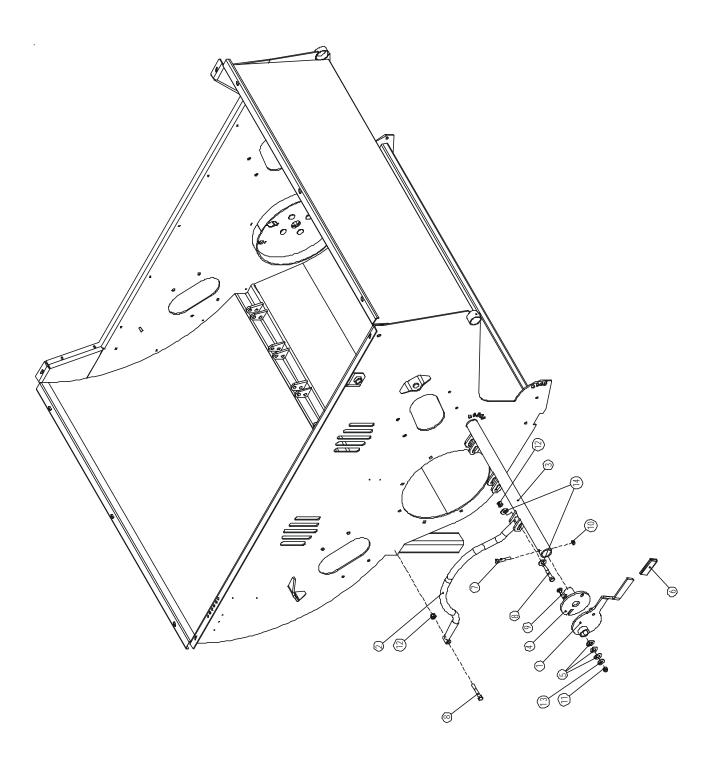
4.4 Feed Roller Installation (Part No. 49589)

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



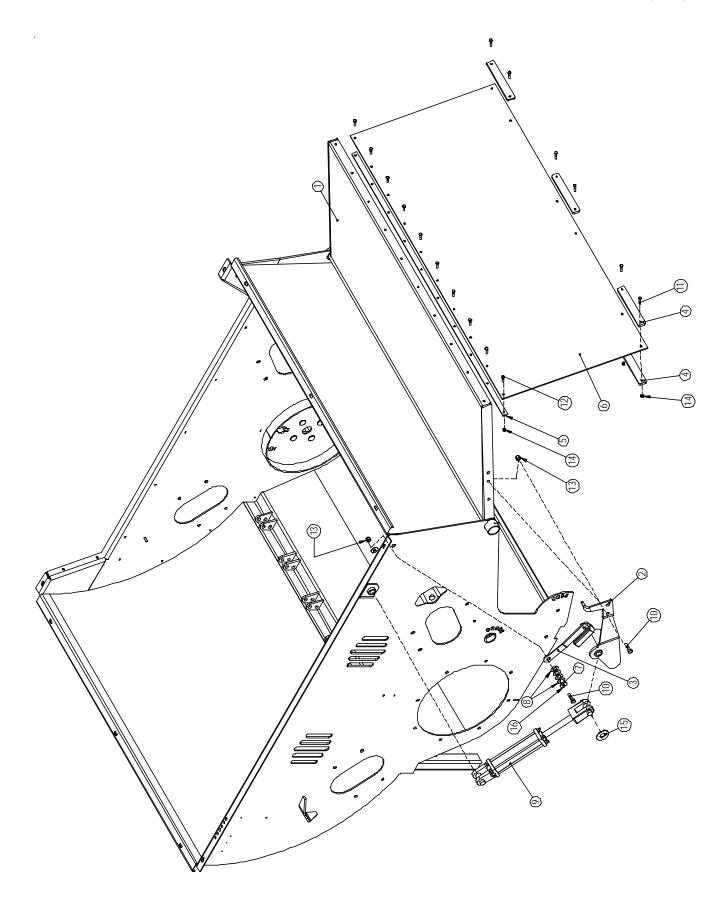
4.5 Flail Guard Rod Assembly (Part No. 49178)

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



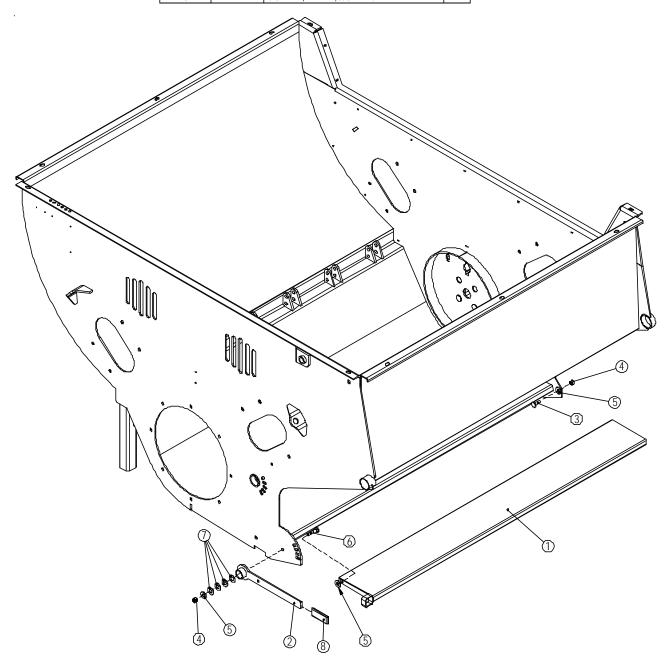
4.6 Top Discharge Door Assembly (Part No. 49287)

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)

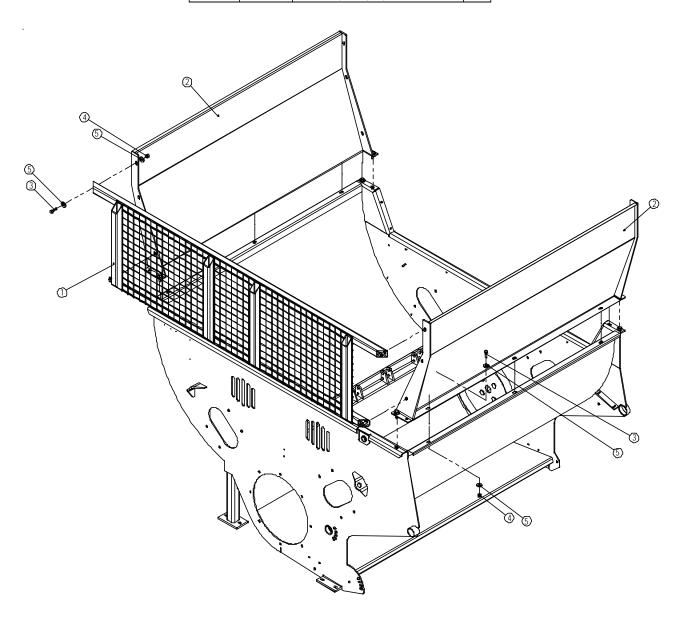
ITEMNO.	PARTNO.D	ESCRIPTION	QTY.
1	49099	DOOR,DISCHARGE,BOTTOM	1
2	49102	HANDLE, DEFLECTOR, BOTTOM	1
3	31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	1
4	31173	NUT,NYLOCK,1/2,UNC,ZP	2
5	31236	WASHER,FLAT,1/2,ZP	3
6	31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	1
7	31668	WASHER,SPRING,3/4,342	4
8	92127	COVER, VINYL, 3/8X1-1/2	1



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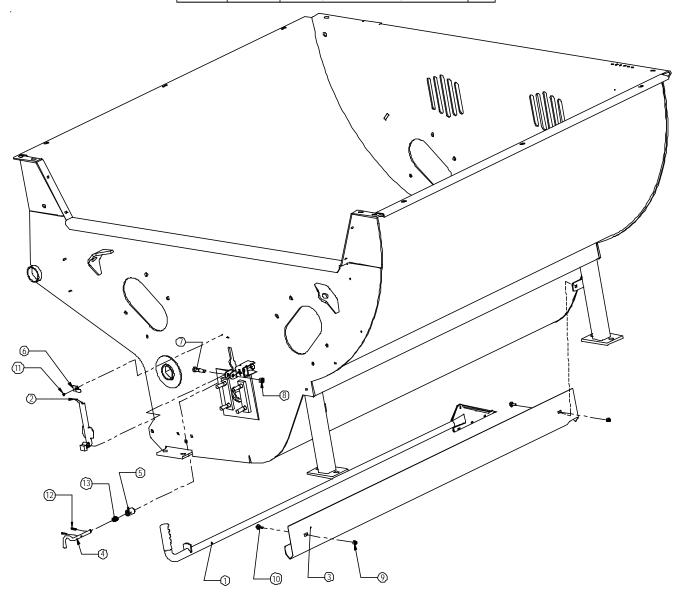
4.8 Bale Deflector and Spill Screen Assembly (Part No. 49532)

ITEMNO.	PARTNO.E	ESCRIPTION	QTY.
1	49531	WLDT,SCREEN,FRONT	1
2	49580	WLDT,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



4.9 Twine Cutter Assembly (Part No. 49288)

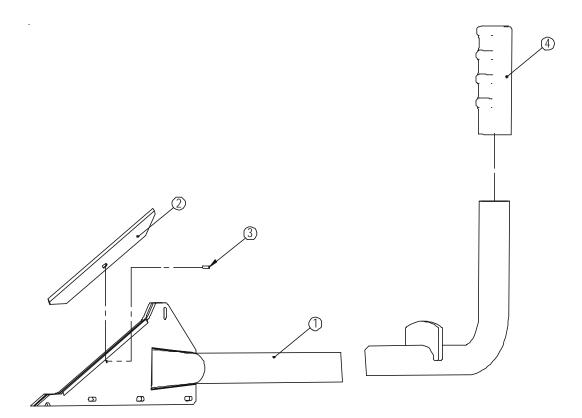
ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	49165	CUTTER,TWINE,COMPLETE	1
2	49285	WLDT,COVER,CUTTER	1
3	E5845	SHT,HOLDER,TWINECUTTER	1
4	E5848	LOCK,HANDLE,DRUM,FLAIL	1
5	E5850	LOCK,DRUM,FLAIL	1
6	33486	LATCH,SNAP	1
7	31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	1
8	31173	NUT,NYLOCK,1/2,UNC,ZP	1
9	31176	NUT,NYLOCK,3/8,UNC,ZP	2
10	31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	2
11	31739	RIVET,ST,3/16x.565,.375HEAD	1
12	31805	PIN,SPRING,3/16x1	2
13	31860	SPRING,COMPRESSION,3/4x1-7/8"	1



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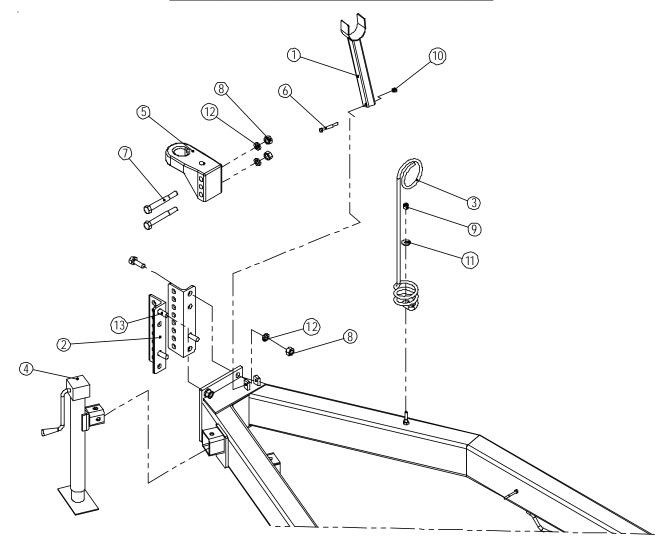
4.9.1 Twine Cutter Tool Assembly (Part No. 49165)

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)

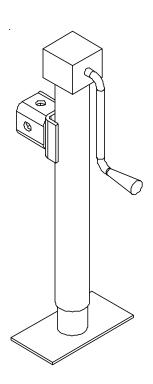
ITEMNO.	PARTNO.E	ESCRIPTION	QTY.
1	49586	WLDT,HOLDER,CV	1
2	E6546	ANGLE,BRIDLE,HITCH	2
3	30206	HYD,HOLDER,HOSE,1/2	1
4	31800	JACK,5000LBX15,SQMNT,SIDEWIND	1
5	31861	HITCH,BASE,3IN1	1
6	30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	1
7	31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	2
8	31167	NUT,HEX,3/4,UNC,GR5,ZP	6
9	31173	NUT,NYLOCK,1/2,UNC,ZP	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



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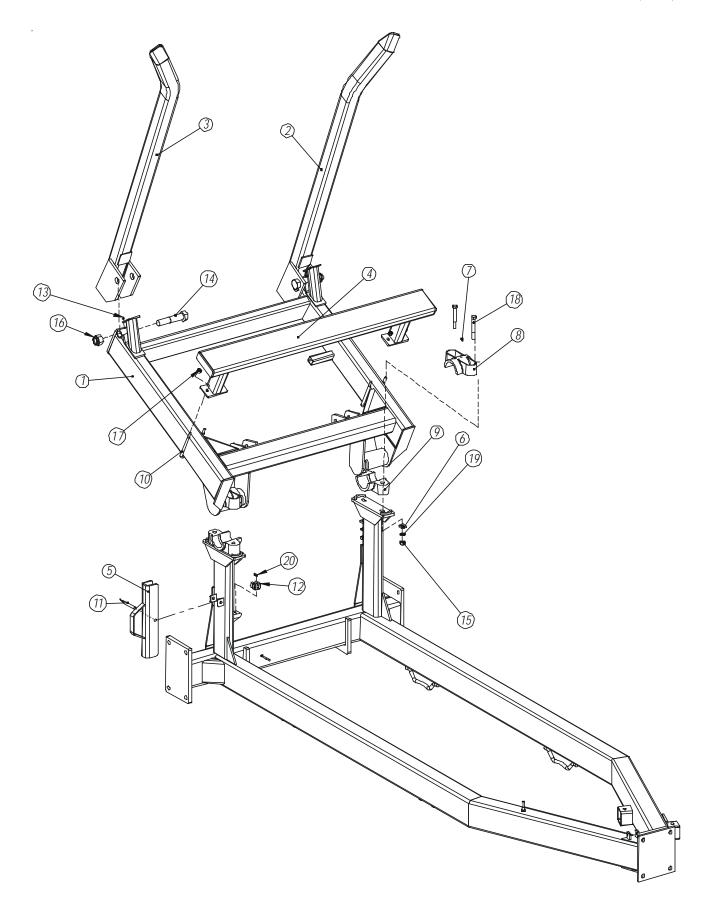
4.10.1 Jack Assembly (Part No. 31800)

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)

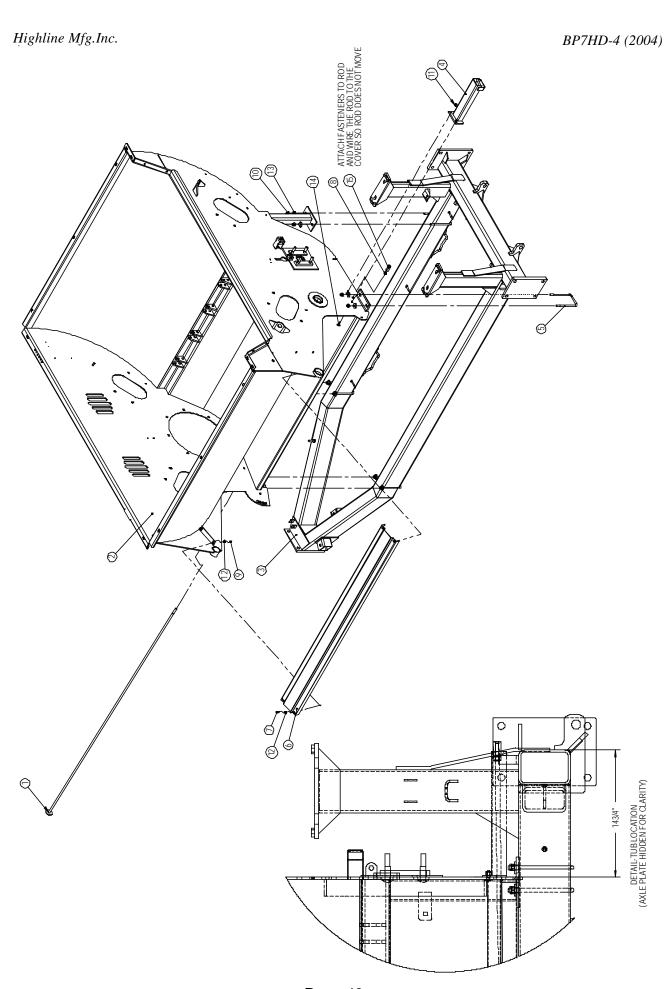
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	45192	DUMP	1
2	49093	FORK, LEFT	1
3	49094	FORK, RIGHT	1
4	49095	BUMPER	1
5	49196	LOCK,CYLINDER,DUMP	1
6	E3276	PLT,S,CLAMP,BUSHING	4
7	30207	ZERK,1/4-28,GF641,STRAIGHT	2
8	30230	CLAMP, PIPE, TOP	2
9	30231	CLAMP, PIPE, BOTTOM	2
10	31061	BOLT,U,SQ,1/2-13,3X7,1-1/4THREAD	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,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



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4.12 Tub to Frame Assembly (Part No. 49594)

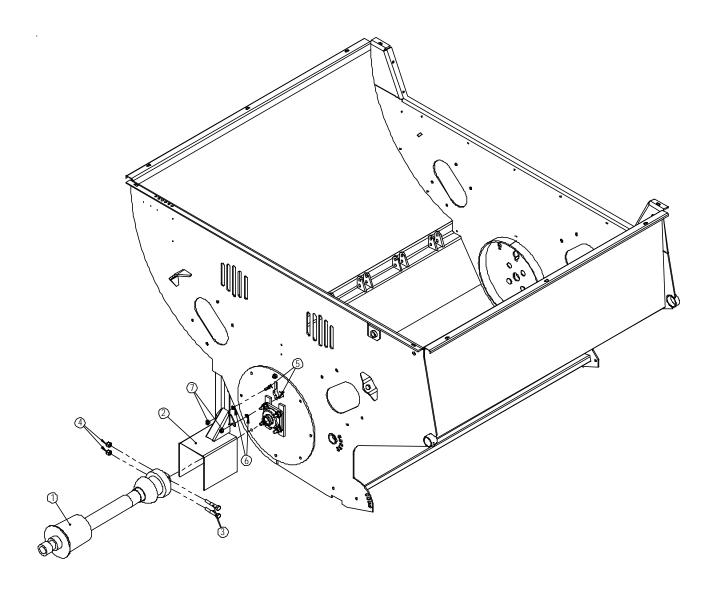
ITEMNO.	PARTNO.E	ESCRIPTION	QTY.
1	49384	WLDT,ROD,SELECTOR	1
2	49528	WLDT,TUB,HIGHLINE	1
3	49592	WLDT,FRAME,CART	1
4	49583	WLDT,COVER,ROD	1
5	31945	BOLT,U,SQ,1/2-13X4X7-1/2	4
6	E6653	PANEL,DISCHARGE,FALSE	1
7	31029	BOLT,HEX,1/4X1,UNC,GR5,ZP	4
8	31163	NUT,HEX,1/2,UNC,GR5,ZP	1
9	31174	NUT,NYLOCK,1/4,UNC,ZP	4
10	31173	NUT,NYLOCK,1/2,UNC,ZP	8
11	31176	NUT,NYLOCK,3/8,UNC,ZP	2
12	31237	WASHER,FLAT,1/4,ZP	8
13	31236	WASHER,FLAT,1/2,ZP	8
14	31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	2
15	31987	NUT,COUPLING,1/2,UNC,ZP	1



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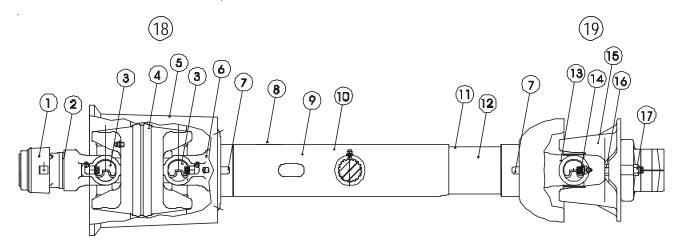
4.13 CV Installation (Part No. 49292)

•			
ITEMNO.	PARTNO.E	ESCRIPTION	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)

ITEMNO.	PARTNO.	DESCRIPTION	QTY.
1	30352	AUTOLOCKREPAIRKIT	1
2	30353	AUTOLOCKYOKEASSEMBLY	1
3	30354	CAT480DEGREECROSS&BEARING	2
4	30355	CENTERHOUSING	1
5	30356	BELLEXTENSION(WCENTRALIZER)	1
6	30357	YOKEANDSHAFT	1
7	30358	NYLONREPAIRKIT	2
8	30359	SAFETYSIGN	1
9	30360	CENTRALIZER	1
10	30361	OUTERGUARD	1
11	30362	INNERGUARD	1
12	30363	SAFETYSIGN	1
13	30364	YOKE,TUBE,&SLIPSLEEVE	1
14	30365	35RCROSSANDBEARINGKIT	1
15	32991	BALLSHEARASSEMBLY	1
16	30367	3/8x2-16GR5BOLT	1
17	30368	3/8-16LOCKNUT	1
18	33529	JOINT&SHAFTHALFASMW/GUARD	
19	33530	JOINT&SHAFTHALFASMW/GUARD	

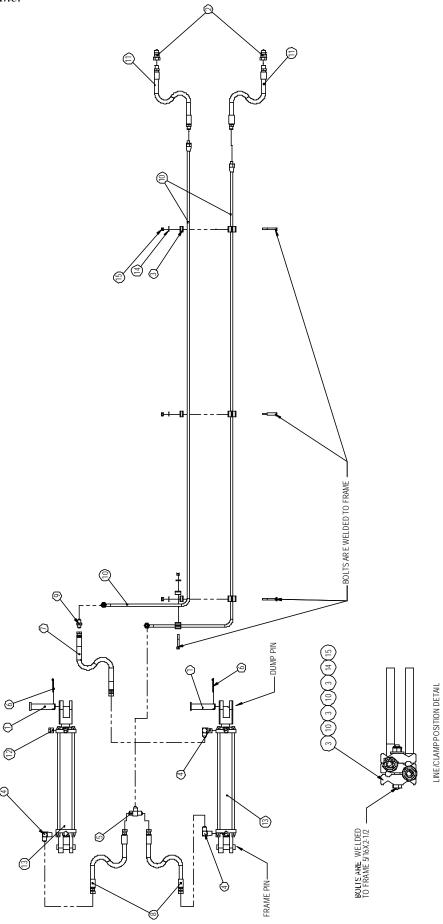


IMPORTANT:

- *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. 49523)

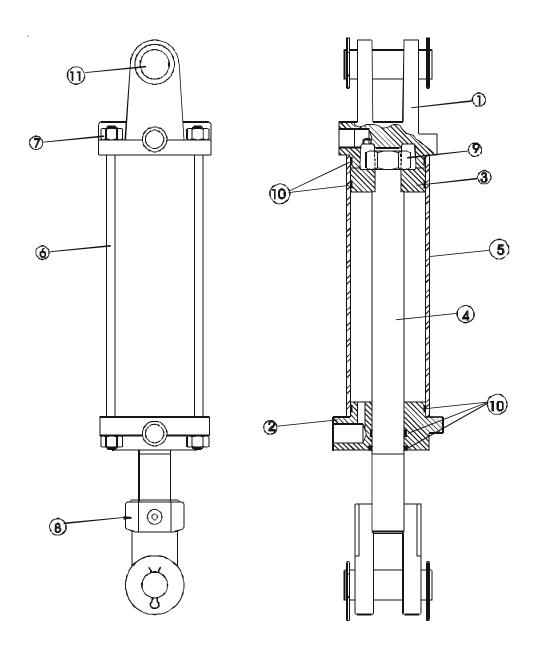
ITEMNO.	PARTNO.	ESCRIPTION	QTY.
1	45185	PIN,CYL,TOP	2
2	30209	HYD,FIT,PIONEER,MALE,8FP	2
3	30210	HYD,CLAMP,HOSE,1/2	12
4	30212	HYD,FIT,ELBOW,8MP-8MJ90	3
5	30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	1
6	31183	PIN,COTTER,3/16X2	2
7	31981	HYD,HOSE,3/8X28,8FJX-8FJX,2W	1
8	31982	HYD,HOSE,3/8X20,8FJX-8FJX,2W	2
9	32030	HYD,FIT,ADAPTER,8MJ	1
10	33326	HYD,LINE,STEEL,104,1/2X.049,8FJ	2
11	33328	HYD,HOSE,3/8X102,8MJ-8MP,2W	2
12	33485	HYD,FIT,VENT,8MP,HEX	1
13	90133	Hyd,Cyl,3X16,1.5,8FP	2
14	31239	WASHER,FLAT,5/16,ZP	4
15	31177	NUT,NYLOCK,5/16,UNC,ZP	4



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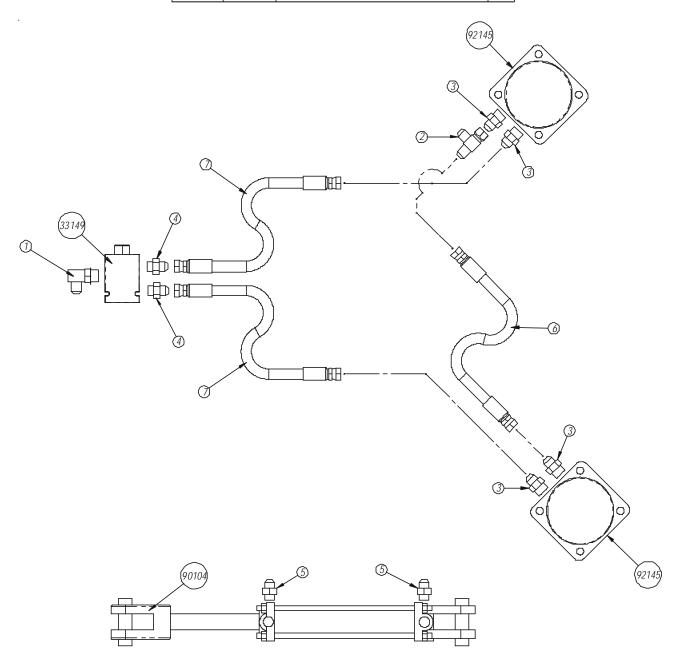
4.16 Cylinder Assembly (Part No. 90133)

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



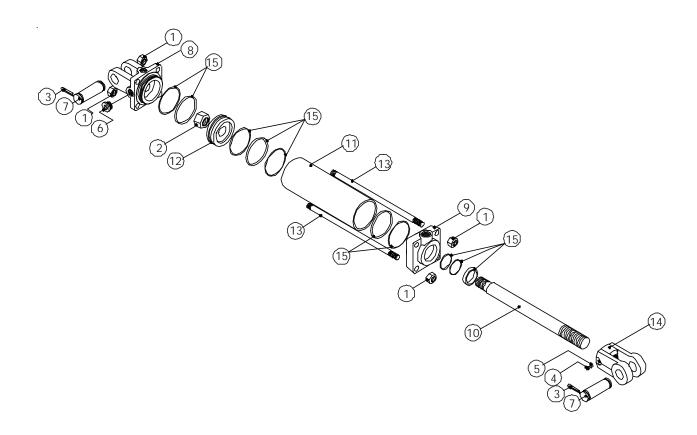
4.17 Feed Roll and Discharge Door Hydraulics (Part No. 49598)

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,031ORIFICE	2
6	31955	HYD,HOSE,3/8X40,8FJX-8FJX,2W	1
7	31962	HYD,HOSE,3/8X36,8FJX-8FJX,2W	2



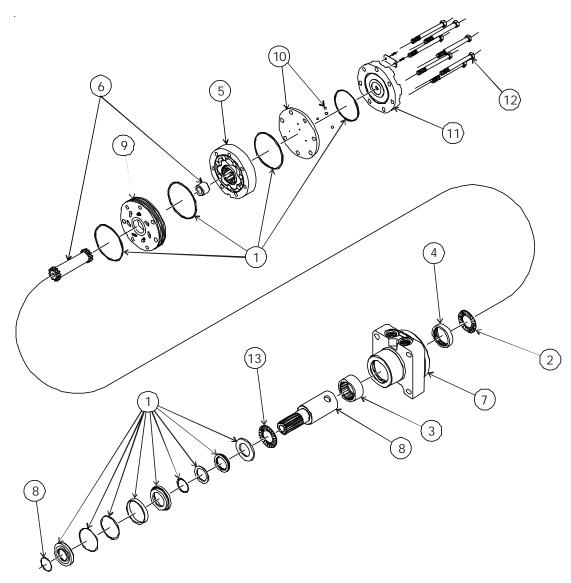
4.17.1 2x8 Hydraulic Cylinder (Part No. 90104)

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,2,80RBF	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



4.17.2 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

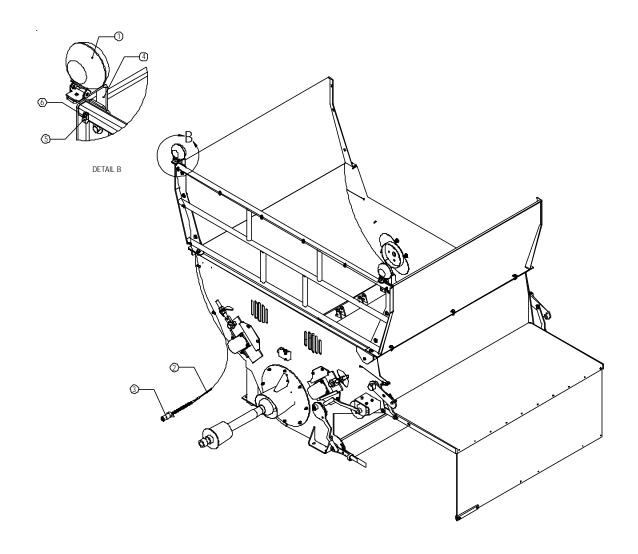


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5.0 Options

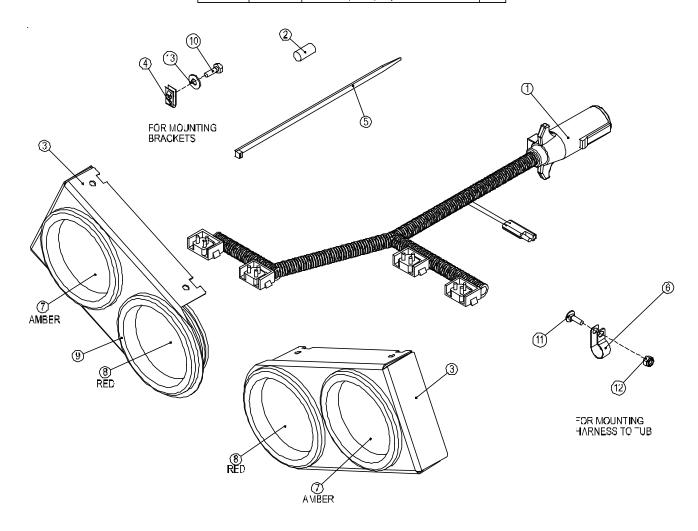
5.1 Field Light Option (Part No. BPORFL-4 (89003))

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



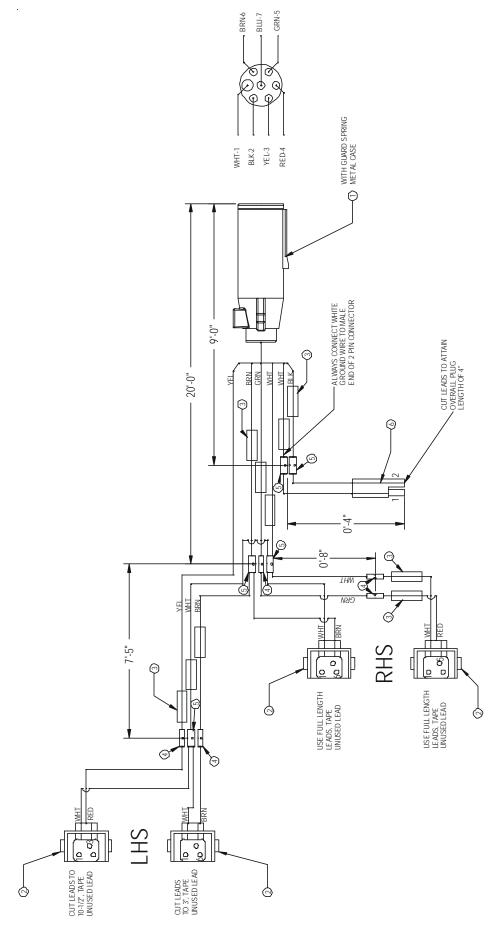
5.2 Clearance Light Option (Part No. BPOCL-4 (89002))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49364	ELEC,HARNESS,LIGHT,BP	1
2	E3669	SHAFT,1/2x1	۷
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



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BP7HD-4 (2004) Highline Mfg.Inc.

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.



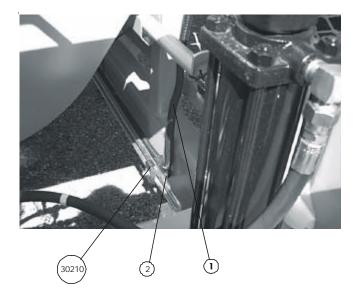


Figure C

Figure B



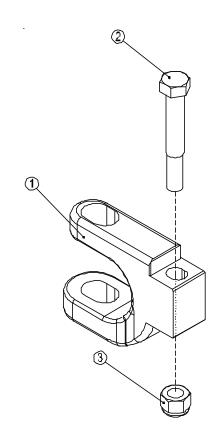
Figure D



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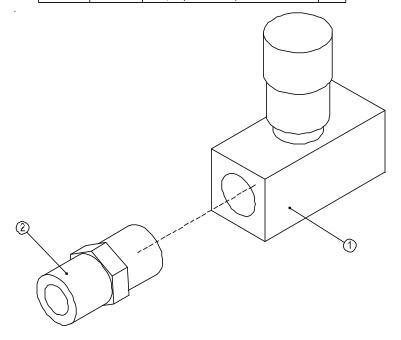
5.3 Hitch Clevis Option (Part No. BPOHC-4 (89004))

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



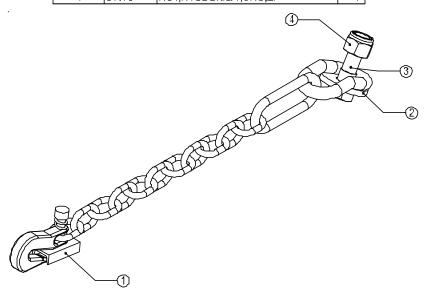
5.4 Flow Control Option (Part No. BPOFC-4 (89005))

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



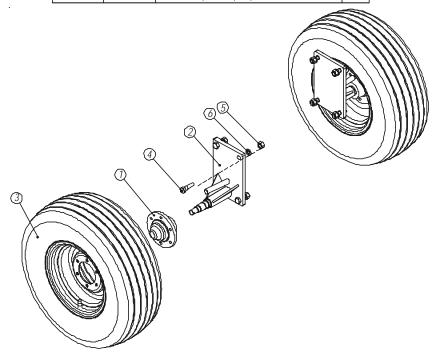
5.5 Safety Chain Option (Part No. BPOSC-4 (89006))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	31590	CHAIN, SAFETY, ASAE 10100LB, 5'4"	1
2	E6150	PLT ₁ C ₁ 1/4x ² 3/16x2-1/4	1
3	313 15	BOLT,HEX,3/4X2-1/2,GR8,ZP	1
4	31175	NUTNYLOCK 3/4 UNC ZP	1



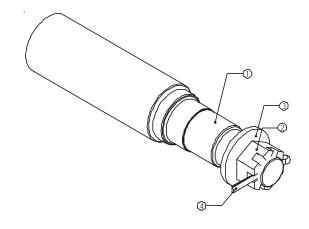
5.6 Standard Tire Assembly (Part No. BPOST-4 (89001))

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



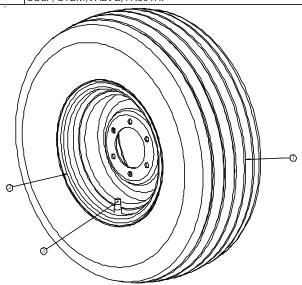
5.6.1 S611 Spindle Assembly (Part No. 45225)

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



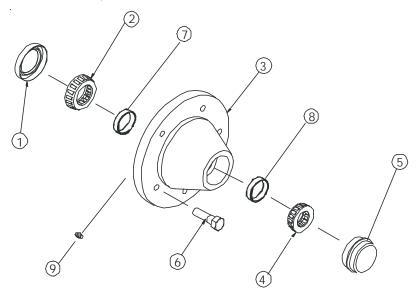
5.6.2 Standard Tire (Part No. 49089)

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

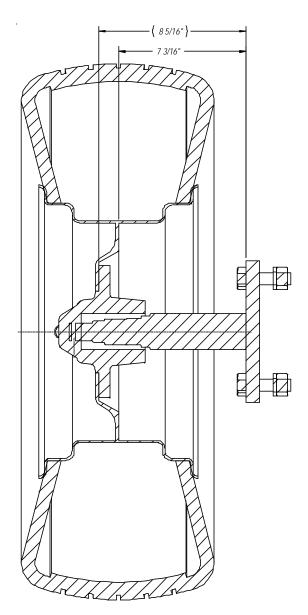


5.6.3 H611 Hub Assembly (Part No. 45224)

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

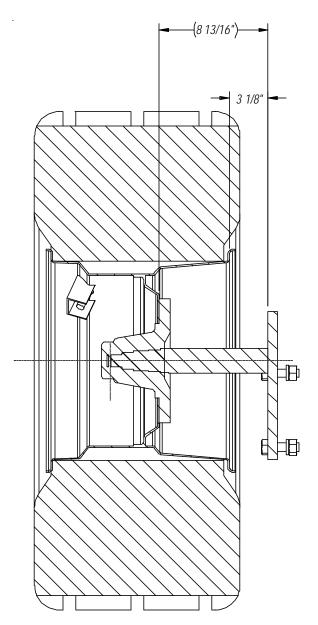


STANDARD TIRE (6 Bolt Wheel Assembly)



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

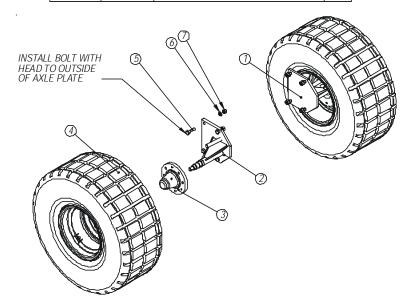
<u>LARGE TIRE</u> (8 Bolt Wheel Assembly)



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

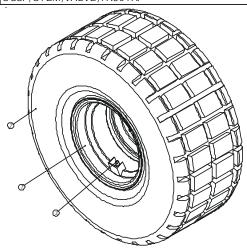
5.7 Large Tire Option (Part No. BPOLT-4 (89000))

·			
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)

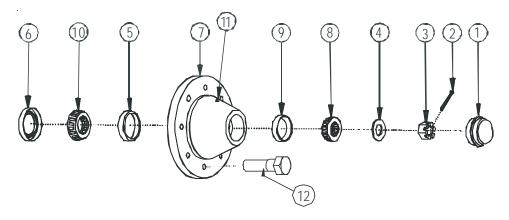
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	32992	SUSP, RIM, W14CX16.1,-1.5,8,WH	1
2	32324	SUSP, TIRE,16.5LX16.1,ST2,6PLY	1
3	91048	SUSP, STEM, VALVE, TR801HP	1



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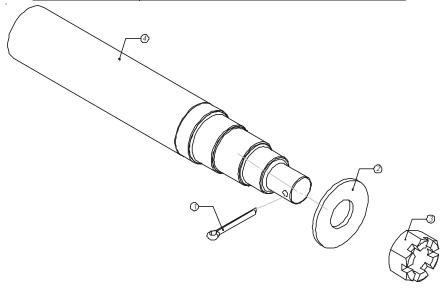
5.7.2 EM5500 Hub Assembly (Part No. 30102)

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



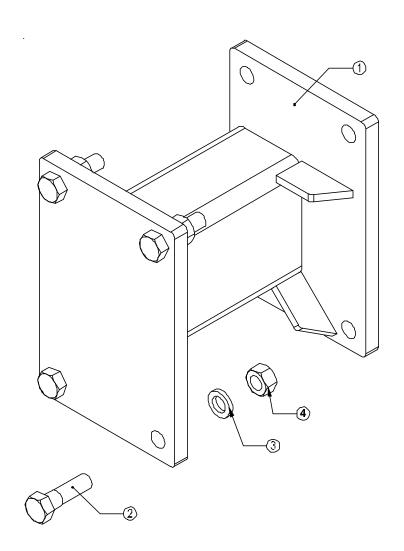
5.7.3 EM5500 Spindle Assembly (Part No. 33327)

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



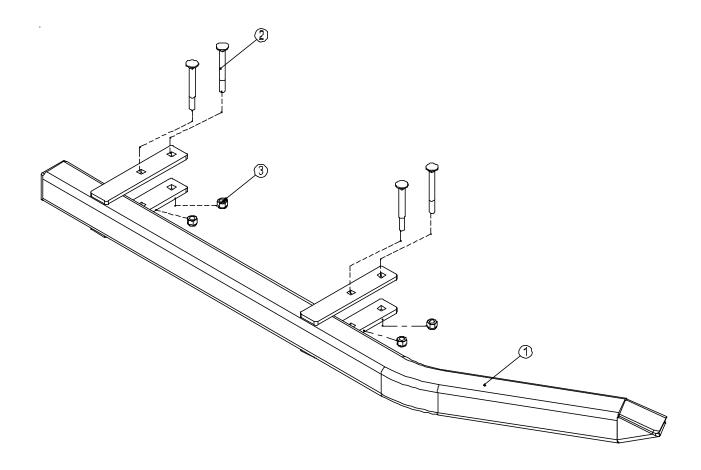
5.8 12" Axle Extension Option (Part No. BPOAE12-4 (89007))

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	7



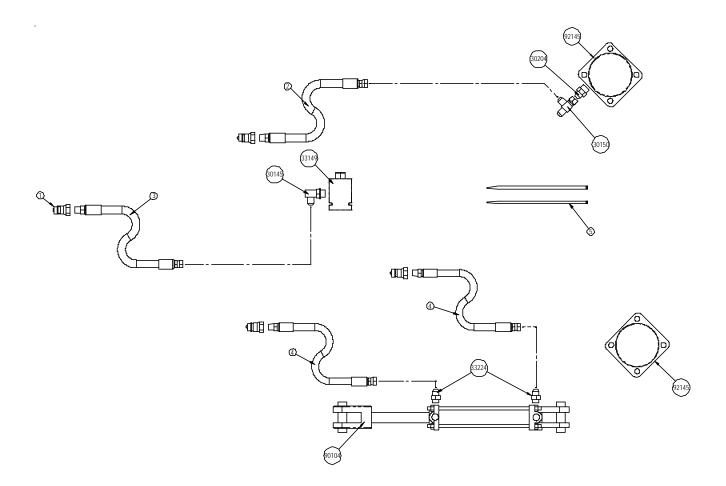
5.9 Narrow Fork Option (Part No. BPONF-4 (89008))

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	49370	WLDT,FORK,NARROW	1
2	318 9 3	BOLT,CARR,1/2x4-1/2,UNC,GR5,ZP	4
3	31173	NUT,NYLOCK,1/2,UNC,ZP	4

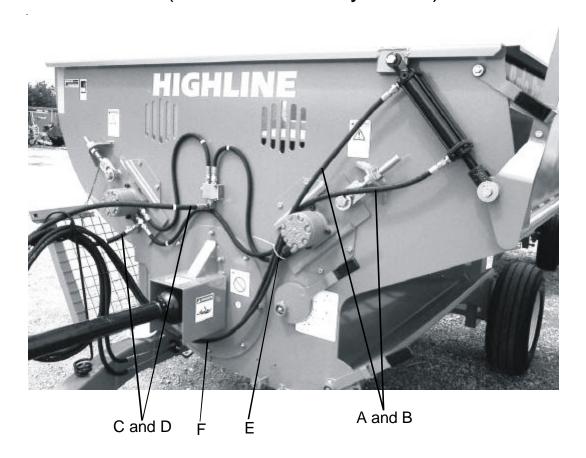


5.10 Three Remote Hydraulic Option (Part No. BPO3RH-4 (89009))

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



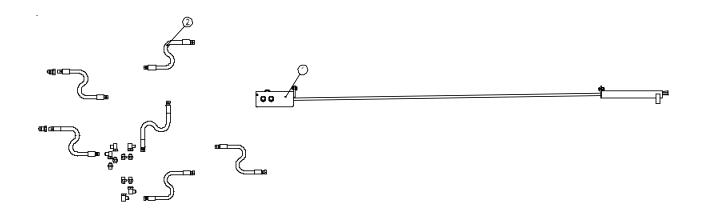
HOSE ROUTING INSTRUCTIONS (Three Remote Hydraulic)



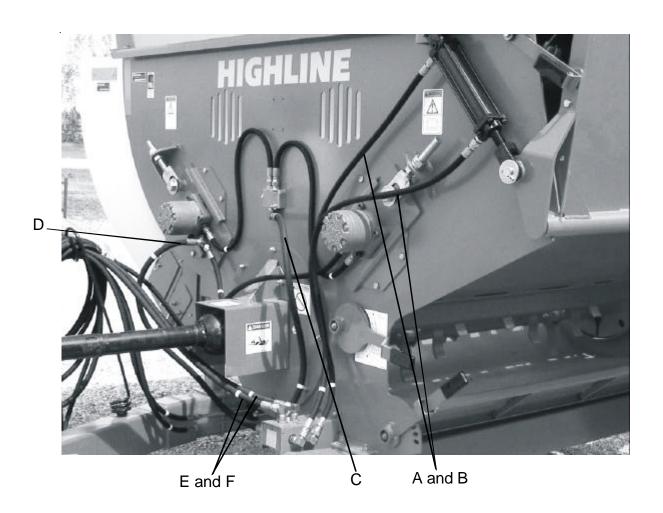
- Route the hoses (A and B) from door cylinder as shown.
- They should run above the hydraulic motor and then underneath the PTO guard; keeping the hoses as close to the front wall as possible.
- Cable tie the hoses near the motor (E) and near the steel lines (F). Leave some slack near motor so when feed roll floats 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-4 (89010))

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



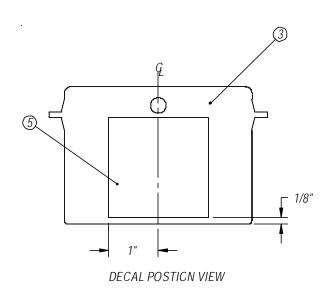
HOSE ROUTING INSTRUCTIONS (Mechanical Valve)

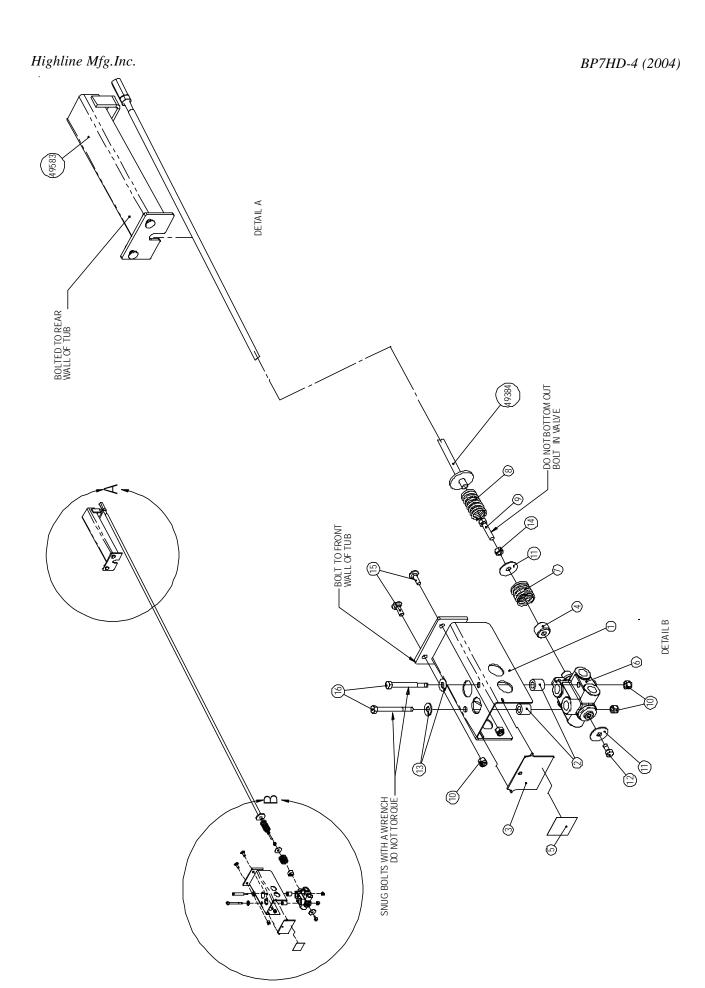


- Route the hoses (A and B) from door cylinder as shown (above hydraulic motor).
- Feed roll hoses should be routed one above and one below PTO guard (C and D).
- Supply and return lines should be routed under PTO guard (E and F).
- Route all hoses through the pigtail to the front of the machine.

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.188X7/8L	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,25/64IDX1-1/20D	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





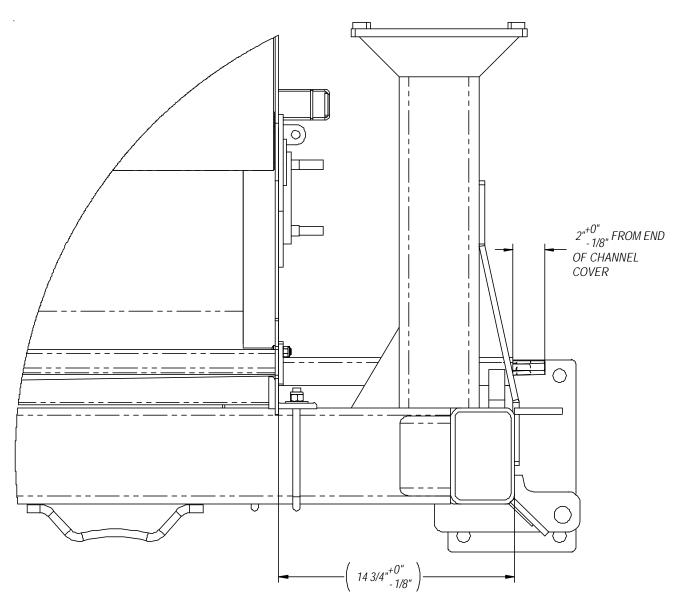
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5.11.2 Mechanical Valve Installation Instructions

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 (item 4), 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 ¼ 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.

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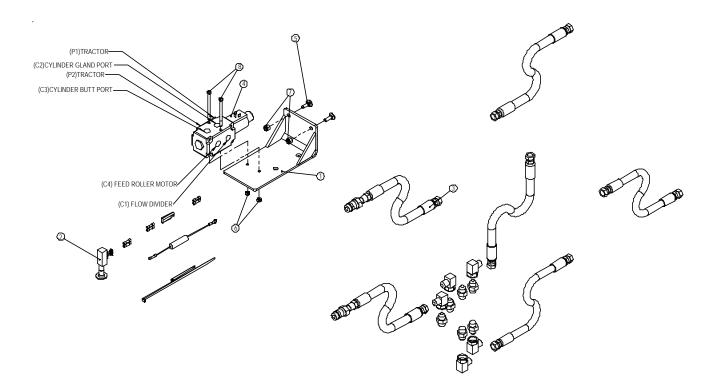
COUPLER NUT SETTING

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-8MJ90	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

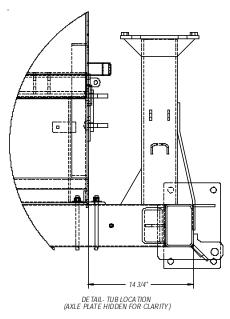
5.12 Electric/Hydraulic Selector Valve Option (Part No. BPOEH-4 (89045))

	D. 1 D.T. 1.10	DECORUPTION.	h-T) (
HEM NO.	PART NO.	DESCRIPTION	μιγ.
1	49419	WLDT,MOUNT,ELEC_HYD,7010	1
2	49421	ELEC,HARNESS,SELECTOR VALVE	1
3	49599	ASSY,HYD,SELECTOR	1
4	33201	HYD,VALVE,ELEC_DOUBLE_SELECTOR	1
5	31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	2
6	31174	NUT,NYLOCK,1/4,UNC,ZP	2
7	31176	NUT,NYLOCK,3/8,UNC,ZP	2
8	33200	BOLT,HEX,1/4X3-1/2,UNC,GR5,ZP	2



5.12.1 Electric/Hydraulic Selector Valve Option Installation Instructions

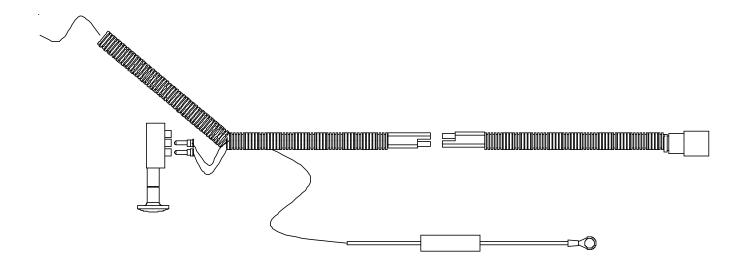
- 1. Unbolt valve with cover from the front wall and set it to the side.
- 2. Remove the hex and coupling nut from the end of the selector rod. See next page for the position of the coupling nut in relation to the rod end (for later installation).
- 3. Pull rod out at front of tub until only a few inches is left sticking through the from 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.

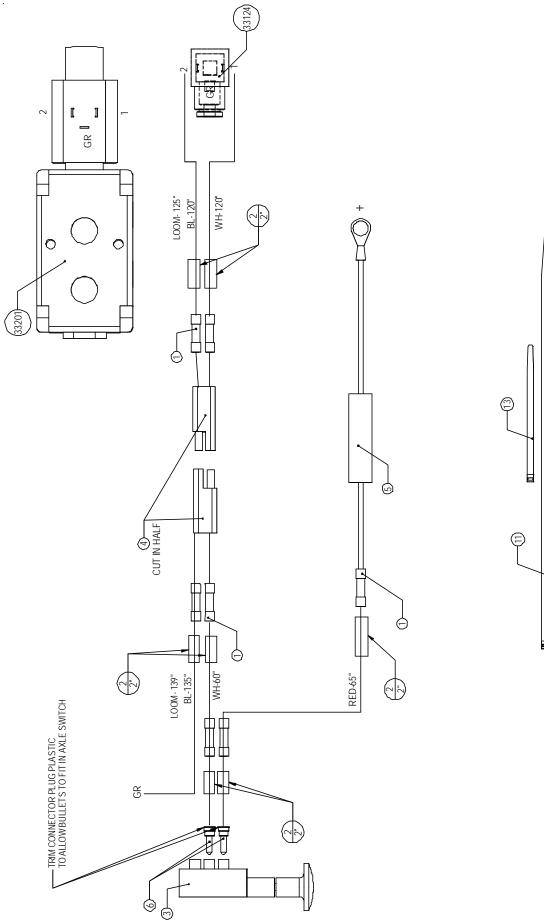


5.12.2 Harness Schematic for Elec/Hyd Selector Valve Option (Part No. 49421)

·			
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	30408	ELEC,CONN,BUTT,16-14	7
2	31976(1.17)	ELEC,HEAT_SHRINK,DUAL_WALL,1/4	1
3	33123	ELEC,SWITCH,AXLE	1
4	33125	ELEC,CONN,2_POLE,FLAT,16GA	1
5	33127	ELEC,HOLDER,FUSE,15AMP	1
6	33130	ELEC,PLUG,BUL .156,90 DEG	2
7	37980(21.25	ELEC,WIRE,14GA,STRAND,BLACK	1
8	37981(15)	ELEC,WIRE,14GA,STRAND,WHITE	1
9	92151(5.5)	ELEC,WIRE,16GA,STRAND,RED	1
10	92143(22)	ELEC,LOOM,1/2,SPLIT,CORRUGATED	1
11	31613	TIE,CABLE,NYLON,BLACK,11 1/2"	3
12	92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	1
13	92170	TIE,CABLE,4",BLACK	6

ALL NUMBERS IN () ARE IN UNIT OF MEASUREMENT FT.

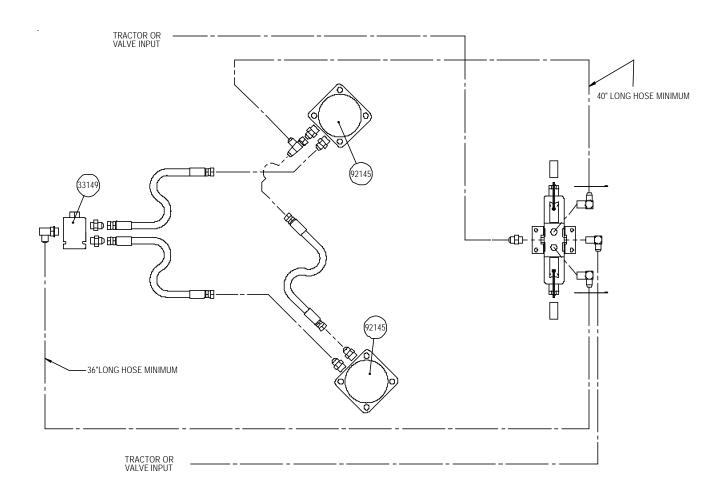




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5.13 Remote Control Option (BPOFRERC-4 (89102))

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

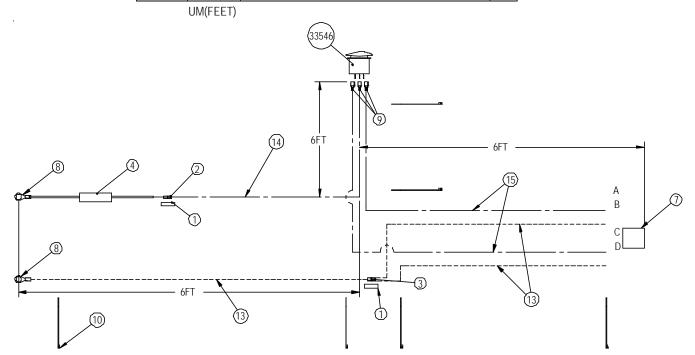




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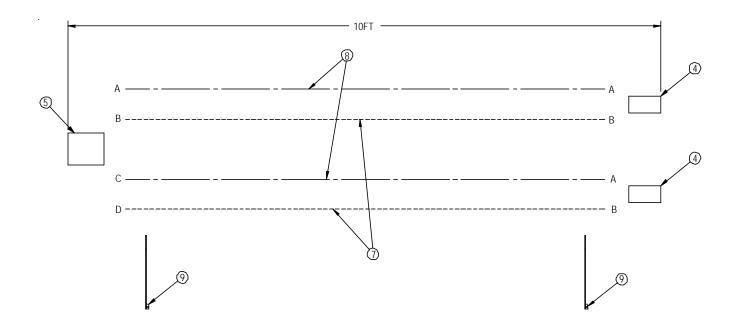
5.13.1 Electric Harness for Switch (Part No. 49841)

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



5.13.2 10FT Electric Harness (Part No. 49842)

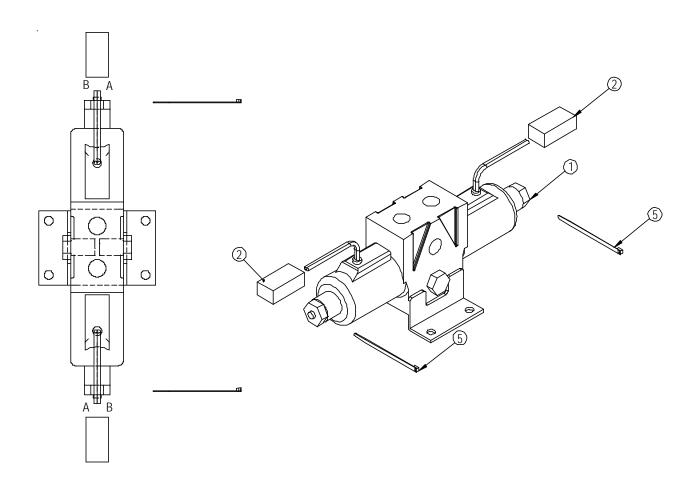
ITEMNO.F	ARTNO.DE	SCRIPTION	QTY.
1	33537	ELEC_SEAL,WP,CABLE	8
2	33540	ELEC_SLEEVE,WP,F,14/16	4
3	33541	ELEC_PIN,WP,M,14/16	4
4	33543	ELEC_CONNECTOR,WP,2M	2
5	33544	ELEC_CONNECTOR,WP,4F	1
6	92143(10)1	LEC,LOOM,1/2,SPLIT,CORRIGATED	1
7	92149(10)	LEC,WIRE,16GA,STRAND,BLACK	2
8	92151(10)	LEC,WIRE,16GA,STRAND,RED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



5.13.3 Electric Valve with Plugs (Part No. 49843)

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

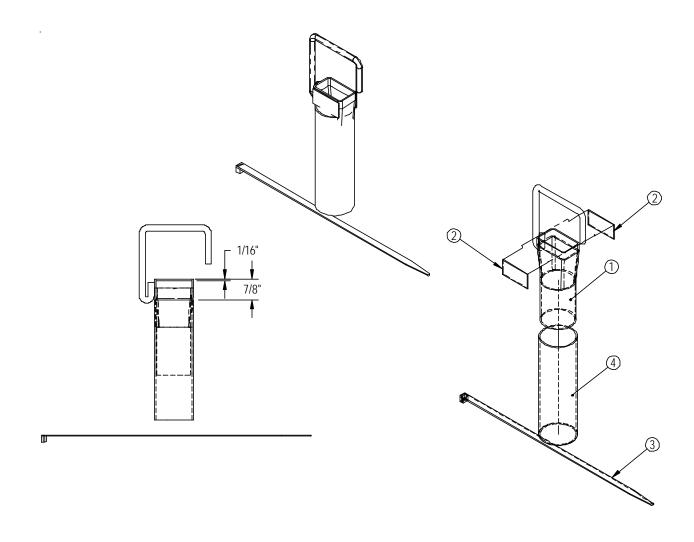
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5.13.4 Grip Control Assembly (Part No. 49844)

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

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6.0 Parts Index

Part No.	Description	Page	Item
30102	SUSP,HUB,COMPLETE,EM5500	70	3
30145	HYD,FIT,ELBOW,10MB-8MJ90	55	1
30150	HYD,FIT,TEE,8FJX-8MJ-8MJ	55	2
30204	HYD,FIT,ADAPTER,10MB-8MJ	55	3
30206	HYD,HOLDER,HOSE,1/2	44	3
30207	ZERK,1/4-28,GF641,STRAIGHT	46	7
30207	ZERK,1/4-28,GF641,STRAIGHT	67	9
30207	ZERK,1/4-28,GF641,STRAIGHT	71	11
30208	PLT,SERIAL#	22	1
30209	HYD,FIT,PIONEER,MALE,8FP	52	2
30209	HYD,FIT,PIONEER,MALE,8FP	74	1
30209	HYD,FIT,PIONEER,MALE,8FP	82	1
30210	HYD,CLAMP,HOSE,1/2	52	3
30211	HYD,FIT,ELBOW,8MB-8MJ90	88	8
30212	HYD,FIT,ELBOW,8MP-8MJ90	52	4
30215	HYD,FIT,ADAPTER,8MB-8MJ	55	4
30215	HYD,FIT,ADAPTOR,8MB-8MJ	82	2
30215	HYD,FIT,ADAPTER,8MB-8MJ90	88	7
30220	SUSP,CAP,DUST	71	1
30221	PIN,COTTER,3/16X1-3/4	71	1
30221	PIN,COTTER,3/16X1-3/4	71	2
30222	NUT,SLOTTED,1,UNF	71	3
30223	WASHER,FLAT,1IDX2OD,.2385	71	4
30226	DRV,BRG,RACE,1.781	71	5
30228	DRV,BRG,SEAL,1.98	71	6
30229	SUSP,HUB,EM5500,8BOLT	71	7
30230	CLAMP,PIPE,TOP	46	8
30231	CLAMP,PIPE,BOTTOM	46	9
30238	PIN,COTTER,3/16X1-1/2	56	3
30239	SETSCREW,SOCKET,3/8X1-1/2KNUR	56	4
30261	LOCKTHREAD,NYLOCK	56	5
30271	DECAL, DANGER, ROTATING DRIVE	22	2
30281	HYD,HOSE,1/2X96,8MP-8FJX,2W	74	2
30285	DECAL,DANGER,TO PREVENT	22	3
30288	RIVET,ST,1/8X.390,.250 HEAD	22	22
30294	SCREW,TEK,1/4X1	58	6
30313	HYD,FIT,TEE,8MJ-8MJ-8MJ	52	5
30342	SUSP,CAP,DUST,611 HUB	67	5
30344	BRG,1-1/2,611 HUB	67	2
30345	SUSP,BRG,1-1/4,611 HUB	67	4
30346	OIL SEAL	67	1
30352	AUTO LOCK REPAIR KIT	51	1
30353	AUTO LOCK YOKE ASSEMBLY	51	2
30354	CAT 4 80° CROSS AND BEARING	51	3
30355	CENTER HOUSING	51	4
30356	BELL EXTENSION (WITH CENTRALIZER)	51	5
30357	YOKE AND SHAFT	51	6
30358	NYLON REPAIR KIT	51	7

Highline	Mfo Inc		BP7HD-4 (2004)
30359	SAFETY SIGN	51	8
30360	CENTRALIZER	51	9
30361	OUTER GUARD	51	10
30362	INNER GUARD	51	11
30363	SAFETY SIGN	51	12
30364	YOKE, TUBE AND SLIP SLEEVE	51	13
30365	35R CROSS AND BEARING KIT	51	14
30367	3/8"X2" - 16 GR5 BOLT	51	16
30368	3/8" - 16 LOCKNUT	51	17
30371	WASHER,FLAT,611 HUB	66	3
30372	NUT,CASTELLATED,BP6800	66	2
30373	SUSP,HUB,H611	67	3
30374	BOLT,HEX,3/8X3,UNC,GR5,ZP	44	6
30408	ELEC,CONN,BUTT,16-14	86	1
30436	HYD,FIT,ELBOW,8FJX-8MJ90	82	3
30556	ELEC,CONN,7 WIRE,FEMALE	60	1
30577	DECAL,RED REFL,2X9	22	4
30578	DECAL,AMBER REFL,2X9	22	5
30611	NUT,NYLOCK,JAM,1/2,UNC,ZP	36	10
30669	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP,FT	78	9
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	32	9
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	40	3
31008	BOLT,CARR,1/2X1-1/2,UNC,GR5,ZP	50	5
31009	BOLT,CARR,1/2X2,UNC,GR5,ZP	36	9
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	32	10
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	34	13
31016	BOLT,HEX,1/2X1-1/2,UNC,GR5,ZP	41	3
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	34	14
31017	BOLT,HEX,1/2X1-3/4,UNC,GR5,ZP	38	10
31020	BOLT,HEX,1/2X2-3/4,UNC,GR5,ZP	36	7
31029	BOLT,HEX,1/4X1,UNC,GR5,ZP	48	7
31032	BOLT,HEX,1/4X2-1/4,UNC,GR5,ZP	34	12
31033	BOLT,HEX,1/4X3/4,UNC,GR5,ZP	59	10
31034	BOLT,HEX,1-1/4X6,UNC,GR5,ZP	46	14
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	66	4
31040	BOLT,HEX,3/4X2-1/2,UNC,GR5,ZP	70	5
31042	BOLT,HEX,3/4X6,UNC,GR5,ZP	44	7
31046	BOLT,HEX,5/16X1-1/2,UNC,GR5,ZP	38	11
31056	BOLT,HEX,5/8X3-1/2,UNC,GR5,ZP	50	3
31058	BOLT,HEX,9/16X3-1/2,UNC,GR5,ZP	36	8
31059	BOLT,SHCS,1/2X2-1/2,UNC,GR5,ZP	34	9
31061	BOLT,U,SQ,1/2-13,3X7,1-1/4 THREAD	46	10
31066	BOLT,HEX,3/8X1-3/4,UNC,GR5,ZP	31	4
31150	BOLT,HEX,1/2X2-1/4,UNC,GR5,ZP	42	7
31162	NUT,HEX,1,UNC,GR5,ZP	34	18
31163	NUT,HEX,1/2,UNC,GR5,ZP	48	8
31167	NUT,HEX,3/4,UNC,GR5,ZP	44	8
31167	NUT,HEX,3/4,UNC,GR5,ZP	66	5
31167	NUT,HEX,3/4,UNC,GR5,ZP	70	7
31168	NUT,NYLOCK,JAM,5/8,UNC,ZP	32	11
31169	NUT,STOVER,5/8,UNC,GR5,ZP	46	15
31170	NUT,LOCK,STOVER,5/8,UNF,ZP	30	5

Highline	e Mfg.Inc.		BP7HD-4 (20	04)
31171	NUT,NYLOCK,1-1/4,UNC,ZP	46	16	J 4)
31173	NUT,NYLOCK,1/2,UNC,ZP	32	12	
31173	NUT,NYLOCK,1/2,UNC,ZP	34	17	
31173	NUT,NYLOCK,1/2,UNC,ZP	36	11	
31173	NUT,NYLOCK,1/2,UNC,ZP	38	13	
31173	NUT,NYLOCK,1/2,UNC,ZP	40	4	
31173	NUT,NYLOCK,1/2,UNC,ZP	41	4	
31173	NUT,NYLOCK,1/2,UNC,ZP	42	8	
31173	NUT,NYLOCK,1/2,UNC,ZP	44	9	
31173	NUT,NYLOCK,1/2,UNC,ZP	46	17	
31173	NUT,NYLOCK,1/2,UNC,ZP	48	10	
31173	NUT,NYLOCK,1/2,UNC,ZP	50	7	
			3	
31173	NUT,NYLOCK,1/2,UNC,ZP	73		
31174	NUT,NYLOCK,1/4,UNC,ZP	22	23	
31174	NUT,NYLOCK,1/4,UNC,ZP	34	16	
31174	NUT,NYLOCK,1/4,UNC,ZP	48	9	
31174	NUT,NYLOCK,1/4,UNC,ZP	59	12	
31174	NUT,NYLOCK,1/4,UNC,ZP	84	6	
31175	NUT,NYLOCK,3/4,UNC,ZP	64	3	
31175	NUT,NYLOCK,3/4,UNC,ZP	65	4	
31176	NUT,NYLOCK,3/8,UNC,ZP	31	5	
31176	NUT,NYLOCK,3/8,UNC,ZP	42	9	
31176	NUT,NYLOCK,3/8,UNC,ZP	44	10	
31176	NUT,NYLOCK,3/8,UNC,ZP	48	11	
31176	NUT,NYLOCK,3/8,UNC,ZP	78	10	
31176	NUT,NYLOCK,3/8,UNC,ZP	84	7	
31177	NUT,NYLOCK,5/16,UNC,ZP	38	14	
31177	NUT,NYLOCK,5/16,UNC,ZP	52	15	
31178	NUT,NYLOCK,5/8,UNC,ZP	32	13	
31178	NUT,NYLOCK,5/8,UNC,ZP	50	4	
31179	NUT,NYLOCK,9/16,UNC,ZP	36	12	
31183	PIN,COTTER,3/16X2	52	6	
31183	PIN,COTTER,3/16X2	66	4	
31205	BOLT,HEX,5/8X4-1/2,UNC,GR8,ZP	46	18	
31218	WASHER,LOCK,5/8,ZP	46	19	
31234	WASHER,SP,FLAT,25/64IDX1-1/2OD	78	11	
31235	WASHER,FLAT,1,ZP	34	23	
31235	WASHER,FLAT,1,ZP	38	15	
31235	WASHER,FLAT,1,ZP	71	2	
31236	WASHER,FLAT,1/2,ZP	34	20	
31236	WASHER,FLAT,1/2,ZP	36	13	
31236	WASHER,FLAT,1/2,ZP	38	16	
31236	WASHER,FLAT,1/2,ZP	40	5	
31236	WASHER,FLAT,1/2,ZP	41	5	
31236	WASHER,FLAT,1/2,ZP	44	11	
31236	WASHER,FLAT,1/2,ZP	48	13	
31237	WASHER,FLAT,1/4,ZP	34	19	
31237	WASHER,FLAT,1/4,ZP	48	12	
31237	WASHER,FLAT,1/4,ZP	59	13	
31239	WASHER,FLAT,5/16,ZP	52	14	
31242	WASHER,FLAT,9/16,ZP	36	14	
31243	WASHER,LOCK1,1ZP	34	24	

Highline	Mfg.Inc.		BP7HD-4 (2004)
31244	WASHER,LOCK,1/2,ZP	32	14
31244	WASHER,LOCK,1/2,ZP	34	21
31246	WASHER,LOCK,3/4,ZP	44	12
31246	WASHER,LOCK,3/4,ZP	66	6
31246	WASHER,LOCK,3/4,ZP	70	6
31246	WASHER,LOCK,3/4,ZP	72	3
31315	BOLT,HEX,3/4X2-1/2,GR8,ZP	65	3
31315	BOLT,HEX,3/4X2-1/2,GR8,ZP	72	2
31339	BOLT,HEX,3/4X2,UNC,GR5,ZP	44	13
31345	BOLT,HEX,3/8X3/4,UNC,GR5,ZP	78	12
31351	WASHER,FLAT,3/8,ZP	78	13
31431	BOLT,CARR,1/2X2-1/4,UNC,GR5,ZP	40	6
31443	BOLT,HEX,5/16X1-1/4,UNC,GR5,ZP	38	12
31448	BOLT,HEX,1X2,UNC,GR5,ZP	34	15
31485	NUT,HEX,3/8,UNC,ZP	56	1
31485	NUT,HEX,3/8,UNC,GR5,ZP	78	14
31486	BOLT,HEX,3/4X5,UNC,GR5,ZP	64	2
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	42	10
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	48	14
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	78	15
31573	BOLT,CARR,3/8X1,UNC,GR5,ZP	84	5
31588	NUT,HEX,3/4,UNF	56	2
31590	CHAIN,SAFETY,ASAE,10100LB,5'4"	65	1
31593	CLIP,AUTOMOTIVE,1/4,GR5,ZP	59	4
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	59	5
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	74	5
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	86	11
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	88	9
31613	TIE,CABLE,NYLON,BLACK,11-1/2"	93	3
31649	ELEC,CLAMP,CABLE,1/2	58	5
31650	ELEC,CLAMP,CABLE,3/4	59	6
31668	WASHER,SPRING,3/4,342	36	5
31668	WASHER,SPRING,3/4,342	38	8
31668	WASHER,SPRING,3/4,342	40	7
31734	ELEC,LOOM,1/4,SPLIT,CORRIGATED	92	6
31739	RIVET,ST,3/16X.565,.375 HEAD	42	11
31739	RIVET,ST,3/16X.565,.375 HEAD	46	20
31777	NUT,HEX,3/4,UNC,GR8,ZP	72	4
31781	BOLT,HEX,3/8X3-1/2,UNC,GR5,ZP	78	16
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	44	4
31800	JACK,5000LBX15,SQ MNT,SIDEWIND	45	1
31805	PIN,SPRING,3/16X1-1/2	42	12
31809	PIN,SPRING,3/32X5/16	43	3
31810	GRIP,HANDLE,1-1/4IDX4-1/2	43	4
31813	PIN,QUICK RELEASE,1/2X3,ZP	46	11
31814	CLIP,GRIPPER,1 - 1-1/2	46	12
31853	ELEC,PLUG,STOP/TURN,RIGHT ANGL	60	2
31860	SPRING,COMPRESSION,3/4X1-7/8"	42	13
31861	HITCH,BASE,3 IN 1	44	5
31862	CLEVIS,HITCH,3 IN 1	64	1
31893	BOLT,CARR,1/2X4-1/2,UNC,GR5,ZP	73	2
31894	RETAINER,BOLT,1/2	32	15

31894 RETAINER,BOLT,1/2 50 6 6 31909 SUSP,SIPIDLE ONLY,S611 66 1 31945 BOLT,U,SQ,1/2-13X4X7-1/2 48 5 31951 ELEC,LIGHT,REDAIDA,S/T/T 59 7 31953 GROMMET,LIGHT,XX4-1/2 59 8 31954 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 52 4 31955 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 55 6 31955 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 55 6 31955 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 88 6 31956 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 82 5 31958 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 82 5 31958 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 82 5 31959 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 82 7 31959 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 82 7 31950 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 82 7 31951 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 82 7 31952 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 82 7 31956 HYD,MOSE,JØXAQ,BFLX-BFJX,ZW 82 7 31956 HYD,MOSE,JØXAQ,BFLX-BFJX,ZW 82 7 31956 HYD,MOSE,JØXAQ,BFLX-BFJX,ZW 82 7 31956 HYD,MOSE,JØXAQ,BFLX-BFJX,ZW 85 7 31956 ELEC,HEAT SHRINK TUBE,DUAL WALL,1/4X48 86 2 31976 ELEC,HEAT SHRINK,DUAL WALL,1/4X48 86 2 31976 ELEC,HEAT SHRINK,DUAL WALL,1/4X48 90 1 31977 ELEC,CONN,BUTT,16-14GA,NON,INSULATED 90 2 31978 ELEC,CONN,BUTT,16-14GA,NON,INSULATED 90 2 31978 ELEC,CONN,BUTT,12-10GA,NON INSULATED 90 3 31978 ELEC,CONN,BUTT,12-10GA,NON INSULATED 90 3 31978 ELEC,CONN,BUTT,12-10GA,NON INSULATED 90 3 31981 HYD,HOSE,JØXAQ,BFLX-BFJX,ZW 52 7 31982 HYD,HOSE,JØXAS,BFLX-BFJX,ZW 52 7 31983 HYD,HOSE,JØXAS,BFLX-BFJX,ZW 52 7 31984 HYD,HOSE,JØXAS,BFLX-BFJX,ZW 52 7 31987 NUT,COUPLING,12,UNC,ZP 48 15 32237 NUT,COUPLING,12,UNC,ZP 48 15 32237 NUT,COUPLING,12,UNC,ZP 48 15 32237 NUT,SLOTTED,1*-14,UNF 57 5 32257 ROD CAP 54 2 32297 NUT,SLOTTED,1*-14,UNF 57 5 32259 HYD,FTT,ADAPTER,BMP-BMP 65 2 32297 NUT,SLOTTED,1*-14,UNF 57 5 32250 HYD,CYL,PIN,1 57 5 32250 HYD,CYL,PIN,1 57 5 32250 HYD,CYL,PIN,1 57 5 32250 HYD,CYL,PIN,1 57 7 32250 HY	Highline	e Mfg.Inc.		BP7HD-4 (2004)
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32297 NUT,SLOTTED,1"-14,UNF 71 3 32301 SUSP,BOLT,WHEEL,9/16X1-1/4TX1-13/16L 71 12 32324 SUSP,TIRE,16.5LX16.1,ST2,6PLY 70 2 32336 SUSP,BOLT,WHEEL,1/2X1-1/4X1-3/4L 67 6 32639 BEARING,THRUST,FRONT 57 13 32643 ROTOR KIT 57 5 32647 SEAL KIT,ROLLER,STATOR 57 1 32649 BEARING,HOUSING,REAR,1/2 57 4 32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32991 BALL SHEAR ASSEMBLY 51 15 32992 SU				
32301 SUSP,BOLT,WHEEL,9/16X1-1/4TX1-13/16L 71 12 32324 SUSP,TIRE,16.5LX16.1,ST2,6PLY 70 2 32336 SUSP,BOLT,WHEEL,1/2X1-1/4X1-3/4L 67 6 32639 BEARING,THRUST,FRONT 57 13 32643 ROTOR KIT 57 5 32647 SEAL KIT,ROLLER,STATOR 57 1 32649 BEARING,HOUSING,REAR,1/2 57 4 32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 4 32998	32257		54	
32324 SUSP,TIRE,16.5LX16.1,ST2,6PLY 70 2 32336 SUSP,BOLT,WHEEL,1/2X1-1/4X1-3/4L 67 6 32639 BEARING,THRUST,FRONT 57 13 32643 ROTOR KIT 57 5 32647 SEAL KIT,ROLLER,STATOR 57 1 32649 BEARING,HOUSING,REAR,1/2 57 4 32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 329975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32998 SPRING,1.5X2.50X0.135	32297			
32336 SUSP,BOLT,WHEEL,1/2X1-1/4X1-3/4L 67 6 32639 BEARING,THRUST,FRONT 57 13 32643 ROTOR KIT 57 5 32647 SEAL KIT,ROLLER,STATOR 57 1 32649 BEARING,HOUSING,REAR,1/2 57 4 32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32998 SPRING,1.5X2.50X0.135 78 </td <td>32301</td> <td>SUSP,BOLT,WHEEL,9/16X1-1/4TX1-13/16L</td> <td>71</td> <td></td>	32301	SUSP,BOLT,WHEEL,9/16X1-1/4TX1-13/16L	71	
32639 BEARING,THRUST,FRONT 57 13 32643 ROTOR KIT 57 5 32647 SEAL KIT,ROLLER,STATOR 57 1 32649 BEARING,HOUSING,REAR,1/2 57 4 32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32998 SPRING,1.5X2.50X0.135 78 7	32324	SUSP,TIRE,16.5LX16.1,ST2,6PLY	70	2
32643 ROTOR KIT 57 5 32647 SEAL KIT,ROLLER,STATOR 57 1 32649 BEARING,HOUSING,REAR,1/2 57 4 32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32998 SPRING,1.5X2.50X0.135 78 7	32336	SUSP,BOLT,WHEEL,1/2X1-1/4X1-3/4L	67	6
32647 SEAL KIT,ROLLER,STATOR 57 1 32649 BEARING,HOUSING,REAR,1/2 57 4 32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32998 SPRING,1.5X2.50X0.135 78 7	32639	BEARING,THRUST,FRONT	57	13
32649 BEARING,HOUSING,REAR,1/2 57 4 32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32643	ROTOR KIT	57	5
32651 BEARING,THRUST,REAR 57 2 32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32647	SEAL KIT,ROLLER,STATOR	57	1
32653 SHAFT KIT 57 8 32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32649	BEARING,HOUSING,REAR,1/2	57	4
32655 BOLT KIT 57 12 32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32651	BEARING,THRUST,REAR	57	2
32720 BEARING,HOUSING,FRONT 57 3 32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32653	SHAFT KIT	57	8
32722 DRIVE LINK KIT 57 6 32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32655	BOLT KIT	57	12
32723 HOUSING KIT 57 7 32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32720	BEARING,HOUSING,FRONT	57	3
32725 MANIFOLD 57 9 32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32722	DRIVE LINK KIT	57	6
32726 BALANCE PLATE & BALLS 57 10 32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32723	HOUSING KIT	57	7
32727 END COVER 57 11 32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32725	MANIFOLD	57	9
32975 HYD,VALVE,CONTROL,FLOW,8FP 65 1 32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32726	BALANCE PLATE & BALLS	57	10
32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7	32727	END COVER	57	11
32981 DECAL,PIMA 22 6 32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7				
32991 BALL SHEAR ASSEMBLY 51 15 32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7				6
32992 SUSP,RIM,W14CX16.1,-1.5,8,WH 70 1 32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7				
32994 WHEEL,16.5X16.1,-1.5,8,WH 70 4 32998 SPRING,1.5X2.50X0.135 78 7				
32998 SPRING,1.5X2.50X0.135 78 7				

Hiohline	Mfg.Inc.		RP7HI	D-4 (2004)
33017	WASHER,LOCK,HIGH-COLLAR,1/2,ZP	34	22	7 (2004)
33026	HYD,FIT,PLUG,8ORB,HOLLOWHEX	56	6	
33027	HYD,CYL,CLEVIS,CAP,2,80RBF	56	8	
33028	HYD,CYL,CAP,ROD,2X1-1/8,8ORBF	56	9	
33029	HYD,CYL,ROD,1-1/8X14-3/4	56	10	
33030	HYD,CYL,2X8	56	11	
33031	HYD,CYL,PISTON,2	56	12	
33032	HYD,CYL,TIEROD,3/8X8	56	13	
33033	HYD,CLEVIS,1-1/8,1PIN	56	14	
33034	HYD,CYL,SEALKIT2	56	15	
33123	ELEC,SWITCH,AXLE	86	3	
33125	ELEC,CONN,2 POLE,FLAT,16GA	86	4	
33127	ELEC,HOLDER,FUSE,15AMP	86	5	
33127	ELEC,HOLDER,FUSE,15AMP	90	4	
33130	ELEC,PLUG,BUL.156,90DEG	86	6	
33147	HYD,HOSE,1/2X108,8MP-8FJX,2W	74	3	
33148	HYD,HOSE,1/2X180,8MP-8FJX,2W	74	4	
33149	HYD,VAVLE,FLOW_DIVIDER	34	1	
33200	BOLT,HEX,1/4X3-1/2,UNC,GR5,ZP	84	8	
33201	HYD, VALVE, ELEC_DOUBLE_SELECTOR	84	4	
33224	HYD,FIT,ADAPTER,8MB-8MJ,031 ORIFICE	55	5	
33326	HYD,LINE,STEEL,104,1/2X.049,8FJ	52	10	
33327	SUSP,SPINDLE,EM5500,13	71	4	
33328	HYD,HOSE,3/8X102,8MJ-8MP,2W	52	11	
33438	KIT,PIN&CHAIN-5/8"X4.25"	45	2	
33439	KIT,5K BEARING REPLACEMENT	45	3	
33440	KIT,STD BEVEL GEAR REPLAC.	45	4	
33441	KIT,SW CRN CRANK REPLAC.	45	5	
33442	COVER,GEARBOX	45	6	
33485	HYD,FIT,VENT,8MP,HEX	52	12	
33486	LATCH, SNAP	42	6	
33529	JOINT&SHAFT HALFT ASM W/GUARD	51	18	
33530	JOINT&SHAFT HALFT ASM W/GUARD	51	19	
33537	ELEC_SEAL,WP,CABLE	90	5	
33537	ELEC SEAL,WP,CABLE	91	1	
33537	ELEC_SEAL,WP,CABLE	92	3	
33540	ELEC SLEEVE,WP,F,14/16	91	2	
33540	ELEC_SLEEVE,WP,F,14/16	92	4	
33541	ELEC_PIN,WP,M,14/16	90	6	
33541	ELEC_PIN,WP,M,14/16	91	3	
33542	ELEC_CONNECTOR,WP,2F	92	2	
33543	ELEC_CONNECTOR,WP,2M	91	4	
33544	ELEC_CONNECTOR,WP,4F	91	5	
33545	ELEC,CONNECTOR,WP,4M	90	7	
33546	ELEC_SWITCH,ROCKER,OFO,12V,20A	88	5	
33548	ELEC,HEAT_SHRINK,TUBE,1-1/2X5	93	4	
37686	ELEC,PLUG,2 POLE,10GA	60	6	
37980	ELEC,WIRE,14GA,STAND,BLACK	60	7	
37980	ELEC,WIRE,14GA,STRAND,BLACK	86	7	
37981	ELEC,WIRE,14GA,STAND,WHITE	60	8	
37981	ELEC,WIRE,14GA,STRAND,WHITE	86	8	
37998	BOLT,CARR,1/4X3/4,UNC,GR5,ZP	59	11	

Highline	e Mfg.Inc.		RP7	HD-4 (2004)
45099	BOLT,STUD,5/8X3-3/4,UNF,GR8	30	1	11D-4 (2004)
45185	PIN,CYL,TOP	52	1	
45185	TOP CYLINDER PIN	54	11	
45192	DUMP	46	1	
45222	SUSP,TIRE,11LX15FI,6PLY	67	1	
45223	SUSP,WHEEL,15X9LB,1.12OFF,6	67	2	
45224	SUSP,HUB,H611,3600LBS	66	1	
45230	DRV,DL,35R,CV,CAT4,ROT	50	1	
47012	GUARD, TWINE, REAR	34	2	
47019	GUARD,TWINE,FRONT	34	3	
49015	PLATE,SLIDE,REAR	34	4	
49017	ROLLER,FEED,COMPLETE	34	5	
49022	AXLE	66	2	
49027	ROLLER,FEED	31	1	
49054	GUARD,DRUM,FLAIL	32	1	
49065	EXTENSION,AXLE,SHORT,BP	72	1	
49089	WHEEL,COMPLETE,BP,OFF-WHITE	66	3	
49093	FORK,LEFT	46	2	
49094	FORK,RIGHT	46	3	
49095	BUMPER	46	4	
49096	PLATE,SLIDE,FRONT	34	6	
49099	DOOR,DISCHARGE,BOTTOM	40	1	
49101	HANDLE,ADJ,ROD,FLAIL	36	1	
49102	HANDLE,DEFLECTOR,BOTTOM	40	2	
49108	GUARD,FLAIL	36	2	
49110	BAR,ADJ,GUARD,FLAIL	36	3	
49159	DRUM,FLAIL,WITH CUTTER	30	2	
49160	DRUM,FLAIL,WITH CUTTER,COMPLETE	32	2	
49163	PLATE,BEARING,FRONT	32	3	
49164	CUTTER,TWINE	43	1	
49165	CUTTER,TWINE,COMPLETE	42	1	
			•	
49196	LOCK,CYLINDER,DUMP	46	5	
49204	ELEC,LIGHT,12V,REWORKED	58	1	
49205	ELEC,HARNESS,LIGHT,OPTIONAL	58	2	
49285	WLDT,COVER,CUTTER	42	2	
49364	ELEC,HARNESS,LIGHT,BP	59	1	
49365	WLDT,DOOR,DISCHARGE	38	1	
49367	WLDT,PIN,DOOR,FRONT	38	2	
49368	WLDT,LOCK,DOOR	38	3	
49370	WLDT,FORK,NARROW	73	1	
49384	WLDT,ROD,SELECTOR	48	1	
49397	WLDT,ELECTOR,SHIELD	78	1	
49419	WLDT,MOUNT,ELEC_HYD,7010	84	1	
49420	ELEC,HARNESS,TRACTOR RFLIGHT	58	3	
49421	ELEC,HARNESS,SELECTOR VALVE	84	2	
49451	PIN,ADJUSTMENT,ROD,FLAIL,HD	36	4	
49464	WLDT,GUARD,CV,1_PIECE	50	2	
49528	WLDT,TUB,HIGHLINE	48	2	
49531	WDLT,SCREEN,FRONT	41	1	
49580	WLDT,DEFLECTOR,BALE	41	2	
49581	WLDT,AXLE,16.5L,RGT,13EM5500	70	1	
49582	WLDT,AXLE,16.5L,LFT,13EM5500	70	2	

Highline	e Mfg.Inc.		ВР7НІ	D-4 (2004)
49583	WLDT,COVER,ROD	48	4	. (====)
49585	ROD,ADJUSTMENT,UNC,1	34	7	
49586	WLDT,HOLDER,CV	44	1	
49592	WLDT,FRAME,CART	48	3	
49596	ASSY,ROD,SELECTOR	76	1	
49599	ASSY,HYD,SELECTOR	76	2	
49599	ASSY,HYD,SELECTOR	84	3	
49840	WLDT,GRIP,CONTROL	93	1	
49841	ELEC,HARNESS,SWITCH,LHEH	88	1	
49842	ELEC,HARNESS,10FT,LHEH	88	2	
49843	ELEC,VALVE_W/PLUGS,LHEH	88	3	
49844	ASSY,GRIP,CONTROL	88	4	
90104	HYD,CYL,2X8,1.125,8FB	38	9	
90133	HYD,CYL,3X16,1.5,8FP	52	13	
90676	SEAL KIT	54	10	
90706	PISTON	54	3	
90722	1-14 NUT,UNF	54	9	
90800	1/2" NUT,UNF	54	7	
90802	1/2" TIE ROD	54	6	
90846	1-1/2" ROD	54	4	
90849	ROD CLEVIS	54	8	
90991	CLEVIS CAP	54	1	
90993	CYLINDER TUBE	54	5	
91048	SUSP,STEM,VALVE,TR801HP	67	3	
91048	SUSP,STEM,VALVE,TR801HP	70	3	
91111	DRV,BRG,TAPERED,OUTER,1.375	71	8	
91130	SUSP,BRG,RACE,LM67010	67	8	
91131	DRV,BRG,RACE,OUTER,1.375	71	9	
91133	DRV,BRG,TAPERED,INNER,1.781	71	10	
91150	SUSP,BRG,RACE,LM29710	67	7	
91703	ZERK,1/4-28 X 45°	46	13	
92028	SIGN,SLOWMOVING	22	7	
92081	WASHER,FLAT,3/16X2ODX9/16ID	32	7	
92089	HYD,VALVE,SOLENOID,DOUBLE	92	1	
92091	BRV,BRG,FLANGE1-3/4"	32	8	
92094	DRV,BRG,FLANGE,1-3/8"	34	10	
92127	COVER,VINYL,3/8X1-1/2	36	6	
92127	COVER,VINYL,3/8X1-1/2	40	8	
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	60	9	
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED	86	10	
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED (6)	90	11	
92143	ELEC,LOOM,1/2,SPLIT,CORRIGATED (12)	90	12	
92143	ELEC_LOOM,1/2,SPLIT,CORRIGATED	91	6	
92145	HYD,MOTOR	34	11	
92149	ELEC,WIRE,16GA,STRAND,BLACK	90	13	
92149	ELEC,WIRE,16GA,STRAND,BLACK	91	7	
92150	ELEC,WIRE,16GA,STRAND,WHITE	90	14	
92151	ELEC,WIRE,16GA,STRAND,RED	86	9	
92151	ELEC,WIRE,16GA,STRAND,RED	90	15	
92151	ELEC,WIRE,16GA,STRAND,RED	91	8	
92153	ELEC,WIRE,16,GREEN,STRAND	60	10	
92154	ELEC,WIRE,16,YELLOW,STRAND	60	11	

Highline	e Mfg.Inc.			BP7HD-4 (2004)
92155	ELEC,WIRE,16,BROWN	60	12	DI /IID-4 (2004)
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	86	12	
92166	ELEC_CONNECTOR,RING,3/8,16-14,ST,INS	90	8	
92167	ELEC,CONN,QD,250F,16-14,ST,FUL	90	9	
92170	TIE,CABLE,4",BLACK	60	13	
92170	TIE,CABLE,4",BLACK	86	13	
92170	TIE,CABLE,4",BLACK	90	10	
92170	TIE,CABLE,4",BLACK	91	9	
92170	TIE,CABLE,4",BLACK	92	5	
92573	DECAL,WARNING,DISCHARGE	22	10	
92579	DECAL,HIGHLINE,4X30	22	11	
E2083	PIPE,DOM.1X.180X2-1/8L,HARD	30	3	
E2138	PLATE,RETAINER,SLIDE	34	8	
E3003	PLT,WEIGHT,BELTING	38	4	
E3265	DECAL,GREASEZERK,8H	22	12	
E3266	DECAL,GREASEZERK,16H	22	13	
E3276	PLT,S,CLAMP,BUSHING	46	6	
E3581	BELTING,ROLLER,FEED,14 HOLE	31	2	
E3646	PIPE,SMLS,2-1/4X.240X3/8L	32	4	
E3669	SHAFT,1/2X1	59	2	
E3834	DECAL,DANGER,DO NOT STAND	22	14	
E5017	PLT,RETAINING,BELTING	38	5	
E5018	BELTING, DISCHARGE	38	6	
E5057	DECAL,HIGHLINE,71X10	22	15	
E5377	FLAIL,TG,.447	30	4	
E5673	BRACKET,MOUNT,LIGHT	58	4	
E5838	BLADE,TWINE CUTTER	43	2	
E5845	SHT,HOLDER,TWINE CUTTER	42	3	
E5848	LOCK,HANDLE,DRUM,FLAIL	42	4	
E5850	LOCK,DRUM,FLAIL	42	5	
E5857	DECAL,TWINE CUTTER	22	16	
E5868	DECAL,LOCK,CYLINDER	22	17	
E6105	DECAL,WARNING,CV ANGLE	22	18	
E6150	PLT,C,1/4X13/16X2-1/4	65	2	
E6188	PIPE,SMLS,3/4X.120X7/8L	38	7	
E6258	DECAL,BALE_PRO_7000HD	22	19	
E6259	MOUNT,LAMP,GROMMET,2X4-1/2	59	3	
E6264	PLT,INDICATOR,SELECTOR	78	3	
E6327	BUSHING,SELECTOR	78	4	
E6328	REFLECTIVE,TAPE,SELECTOR	78	5	
E6402	DECAL,ROD ADJ,HD	22	20	
E6405	PIPE,SMLS,2-1/4X.240X1/4L	32	5	
E6406	PIPE,SMLS,2-1/4X.240X1/8L	32	6	
E6526	PLT,SCRAPER,RUBBER	31	3	
E6546	ANGLE,BRIDLE,HITCH	44	2	
E6653	PANEL, DISCHARGE, FALSE	48	6	
E7504	PIPE,SMLS,7/8X.188X7/8L	78	2	
E7552	DECAL,WARNING,OWNERS_MANUAL	22	8	
E7553	DECAL, WARNING, STOP_ENGINE/SERVICE	22	21	
E7572	DECAL, CAUTION, JACK, 5000LBS	22	9	
E8126	DECAL,CONTROL,LH_EH	93	2	
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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:			
	<u>Identificatio</u>	n Numbers	
Model Number:			

Serial Number:

Dealer Checklist

Bale Pr Option		 ealer Checklist BPO3RH-4 BPOEH-4 BPOHC-4 BPORFL-4 BPO BPOMAV-4 BPOST-4 BPOAE12-4 EZFEED S# BPOLT-4 BPOFC-4 BPOSC-4 BPOCL-4	ONF-4 —			
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.				
		Wire front PTO to holder to prevent loss				
		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				
	√	T	\neg			
N/A		OPERATIONAL CHECK	-			
		- feed rollers (slide easily in slide retainers)	\dashv			
		- flail drum (not binding on twine guards)	\dashv			
		- discharge door activates (when dump is down)	\dashv			
		- feed rollers activate (when dump is up)	\dashv			
		- flails not hitting tub or rods - test 1 in 10 using tractor	\dashv			
		Feed Rollers turn in both directions-unison (same direction)	\dashv			
		Ensure free movement of BP forks (not binding).	\dashv			
		Ensure cylinder transport lock fits with forks in transport position.	\dashv			
		Hydraulic motors to be operated and checked for leaks and free movement.	\dashv			
		Cycle all cylinders a minimum of 3 times, check for leaks and clearance problems.	\dashv			
,		Discharge Door - CylinderClevis adjusted				