# Contine Balemaster

# BALE PRO 6000 +

93-94

SER# 9PB1853
CHAT
Assembly-Operator
Parts Manual



September 3, 1993

Dear Customer.

Congratulations on your purchase of a Bale Pro 6000<sup>+</sup>. Unfortunately due to productions problems, the pictures in the operating manual are not of high quality. As soon as new operating manuals are produced we will send a copy as soon as possible. On the DELIVERY AND WARRANTY REGISTRATION please make a note that you require an updated manual. If any information is not clear, feel free to contact your dealer or High-Line Manufacturing. Sorry for any inconvenience.

Sincerely,

Troy Lucyshy

Troy Lucyshyn, Engineer

#### Warranty

High-Line Mfg. Inc. warrants its products to the original owner for a period of two years from date of purchase, subject to the following provisions.

•1st year

Parts & Labour

•2nd year

Parts Only

- All matters related with the warranty of products must be handled through an authorized High-Line Manufacturing dealer.
- Any labour subject to warranty must be authorized by a High-Line Mfg. Inc.
   Representative, before work is started.
- Machines used for rental, custom work, industrial or construction use will be warranted for a period of 30 days from date of purchase. (Parts and Labour)
- Warranty will be void if any component of this machine is altered or modified in any way, unless written permission is given by High-Line Mfg. Inc.
- High-Line Mfg. Inc. will not assume any responsibility for whatever damage may occur to equipment to which this machine may be attached.
- •Warranty terms and conditions are subject to provincial and state legislation.

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#### 2. Introduction

Congratulations on your purchase of the Bale Pro 6000<sup>+</sup>! BaleMaster a new name in livestock feed handling equipment, is manufactured by High-Line Manufacturing Inc. A company with a manufacturing team that has 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 6000<sup>+</sup>. In it you will find safety procedures, maintenance routines and detailed parts diagrams.

The Bale Pro 6000<sup>+</sup> was designed for controlled, more aggressive processing with less bunching. A little time and effort spent in proper maintenance will increase the performance and durability of your Bale Processor.

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

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

High-Line Manufacturing Inc. thanks and congratulates you for selecting a Bale Pro 6000<sup>+</sup> as the machine of your choice.

# WORK SAFELY - FOLLOW THESE RULES

# 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 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 PTO is on. Disconnect PTO before unplugging or adjusting processor.
- Always keep safety PTO 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 processor while loading bales.

#### 4. Controls

Before operating the Bale Pro 6000<sup>+</sup>, be sure to review all the instructions and familiarize yourself with the processor's features.

1. Discharge chute adjusting bar.

For feeding place down and for spreading bedding position up.

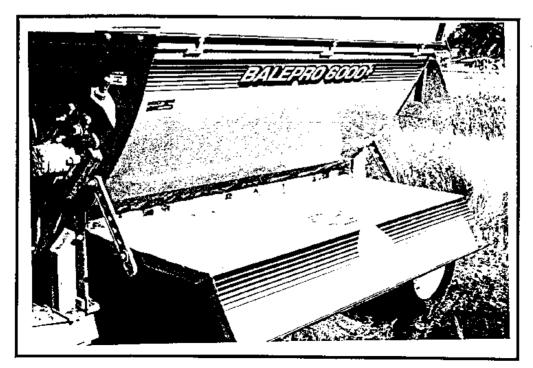


Figure 1 Discharge Chute

#### 2. Feeder drum height adjustment.

Height of feeder drum changes the amount of bite taken from the bale. Tighten screws to raise feeder drums and loosen to lower feeder drums.

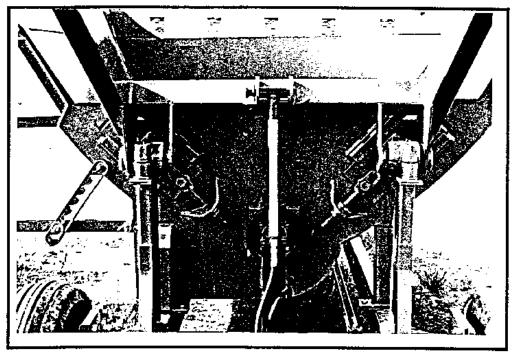


Figure 2 Feeder Drum

#### 3. Flail drum height adjustment.

Insert flail spacers to raise height of flail bar. This reduces the amount of bite taken from the bale.

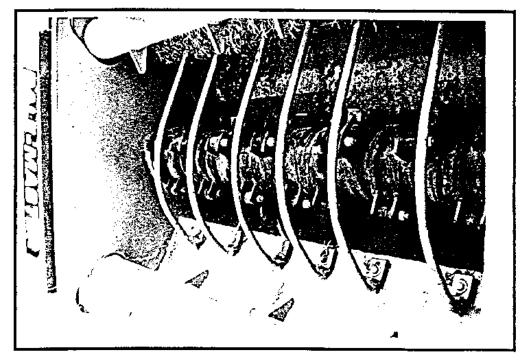


Figure 3 Flail Drum

- 4. Flail drum activated through PTO control in your tractor.
- 5. Feeder drum and fork lift operated through the hydraulic control in your tractor.

#### 5. Maintenance

Please follow these maintenance steps, to ensure trouble free operation of your Bale Pro 6000+.

#### Lubrication

Maintaining proper lubrications is crucial for trouble free operations. Figure 2 shows eleven which require regular greasing. Table 1 lists the lubrication points and the frequency greasing.

- 1. PTO Shaft-front
- 2. PTO shaft-rear
  - Grease every ten bales.
- 3. PTO Extension Shaft Bearing Grease every fifty bales

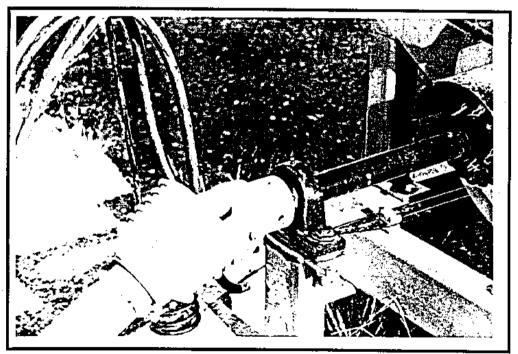


Figure 4 PTO Lubrication

- 4. Feeder Drum bearing-right
- 5 Feeder Drum Bearing-left Grease every fifty bales.
- 6. Flail drum bearing Grease every fifty bales.
- 7. Fork Pivot shaft-left

- 8. Fork Pivot shaft-right
  Grease every one hundred bales.
- 9. Tire Hub-left
- 10. Tire Hub-right
  Greasing dependent upon travel

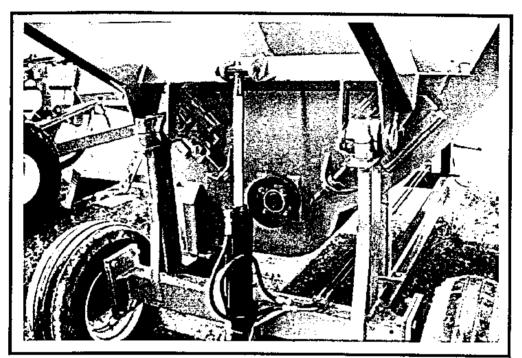


Figure 5 Assorted Lubrication Points

- 11. Fork-left
- 12. Fork-right

Grease every one hundred bales.

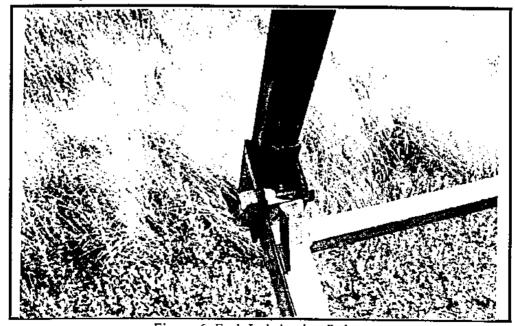


Figure 6 Fork Lubrication Points

#### General

Occasional tighting of the flail bolts are required so the bushings are tight against the flail lugs as shown in Figure 7. If twine is not cut from the bale before processing, it will rap around the flail drum and periodic removal is required to allow free movement of the flail.

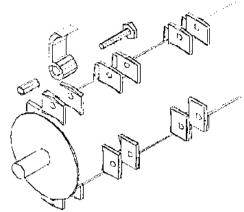


Figure 7. Flail Drum

#### 6. Operating Instructions

Successful operation of the Bale Pro 6000÷ is dependent upon the quality of the bale, height of the feeder drum, flail guard and the operator. The following steps ensure proper operation.

- 1. Before loading bale, engage PTO drive to check the flail drum if it is operating adequately. Start feed rollers using the hydraulics and check if the feed rollers turn clockwise and counter clockwise. If your tractor has hydraulic flow control, alter flow so the feed rollers are at an adequate speed for your conditions
- 2. To load, lower forks and back up to bale <u>slowly</u>. Raise forks until bale falls into the processor. Another bale may be loaded onto the forks while a bale is in the processor. If a bale is loaded on the forks while one is being shredded, raise the forks to approximately a 45° angle to reduce pressure to the hydraulic lift. Orientation of the bale during loading causes the hay/straw to come out of the processor differently. If the bale is shredded in the same direction as it was baled, the hay/straw will generally come off in layers. If the bale is shredded in the opposite way, the feeding may be uneven.
- 3. Before engaging flail drum, check that the forks are not interferring with the rotating bale and also check the position of the discharge deflector and lower forks. For spreading bedding the deflector is placed up and for feeding in rows the deflector is placed down.
- 4. When ready, engage flail drum using PTO drive and allow it to reach 1100 rpm before starting the feed drums. In most cases the feed drums only need to be turning periodically to prevent the flail drum from overloading.

- 5. If the feed rate is too fast, three items may be changed.
  - a. Decrease tractor RPM, however make sure the flails remain extended so they don't "back slap" on the drum. Severe damage may occur if the flails repeatedly hit the drum.
  - b. Raise feeder drum using adjusting bolts on the front and rear side of the processor (Figure 8 below). This decreases the amount the flail penetrates the bale.

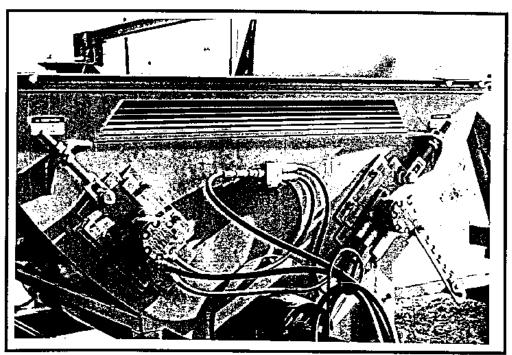


Figure 8

c. Raise flail guard bars using spacers (Figure 9). This raises the bale decreasing the amount the flail penetrates the bale.

### In all three cases, do not allow the flail to "back slap" on the drum.

- 6. If the feed rate is too slow, the same three items may be altered however "back slap" may occur if the feed rate is too high.
- 7. If the bale quits turning, reverse feed drums in opposite direction and periodically alternate direction. If the bale is loaded on end rather than on its side, it is better to keep reversing the feed drums back and forth to prevent spillage.

WARNING: Warranty will be void if any component of this machine is altered or modified in any way, unless written permission is given by High-Line Mfg. Inc.

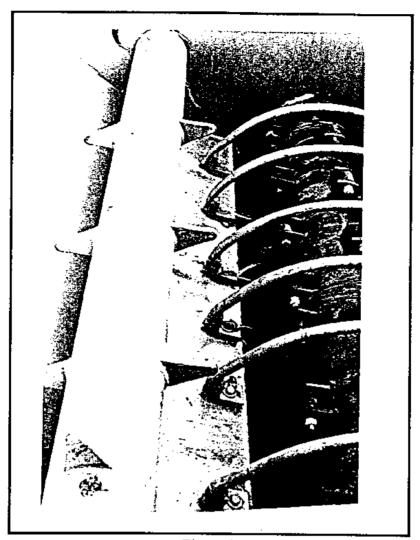
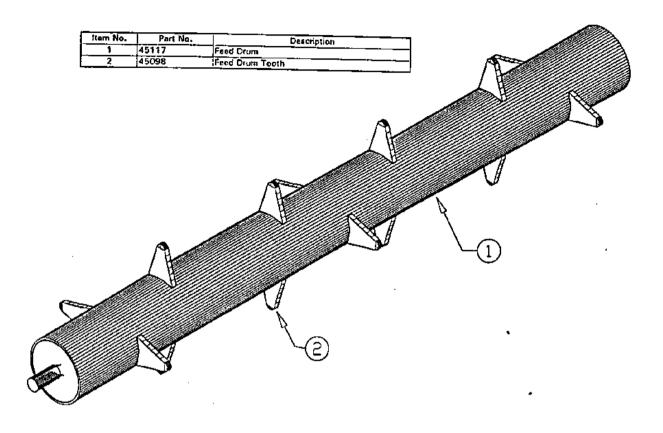
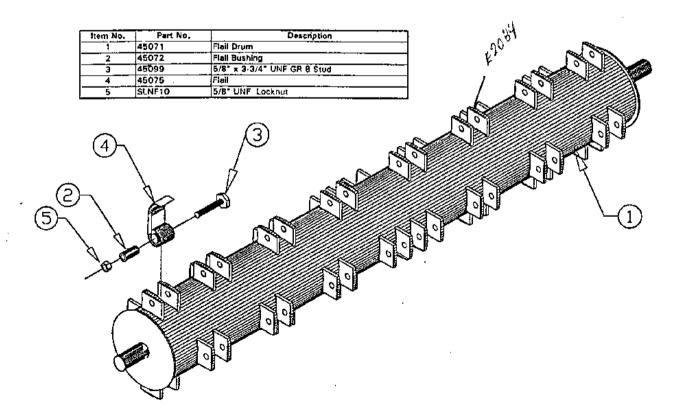
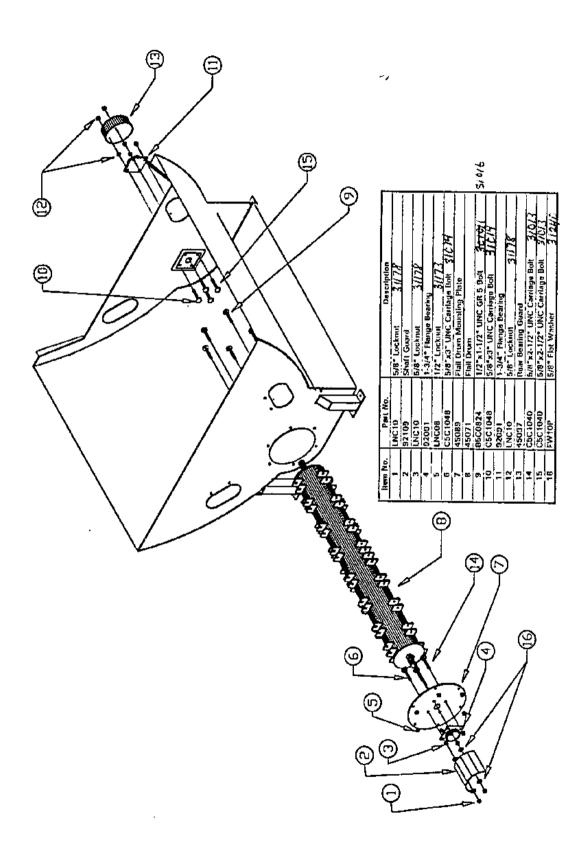


Figure 9

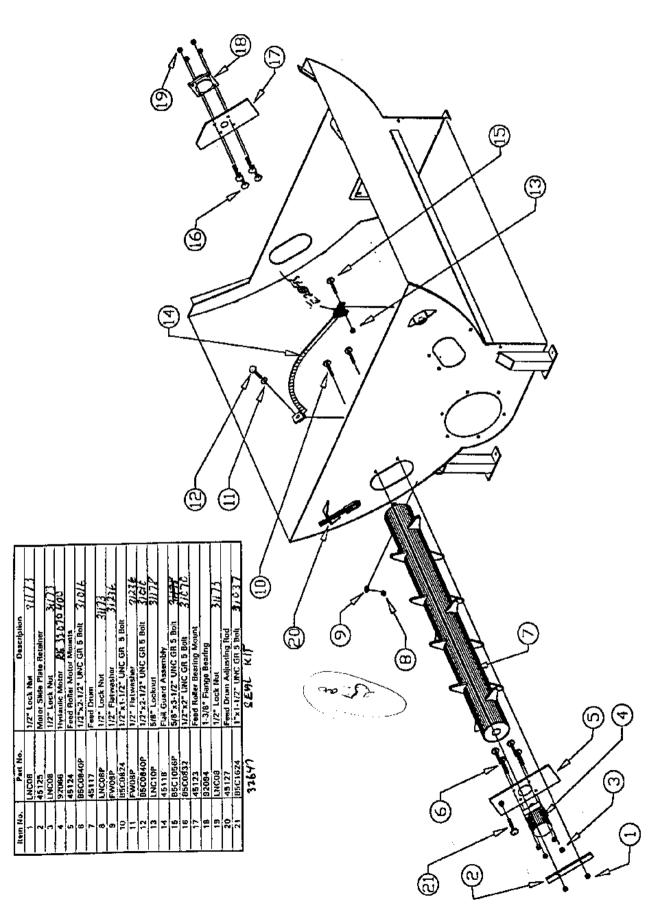
# 7. Assembly & Installations Flail & Feed Drum Assembly

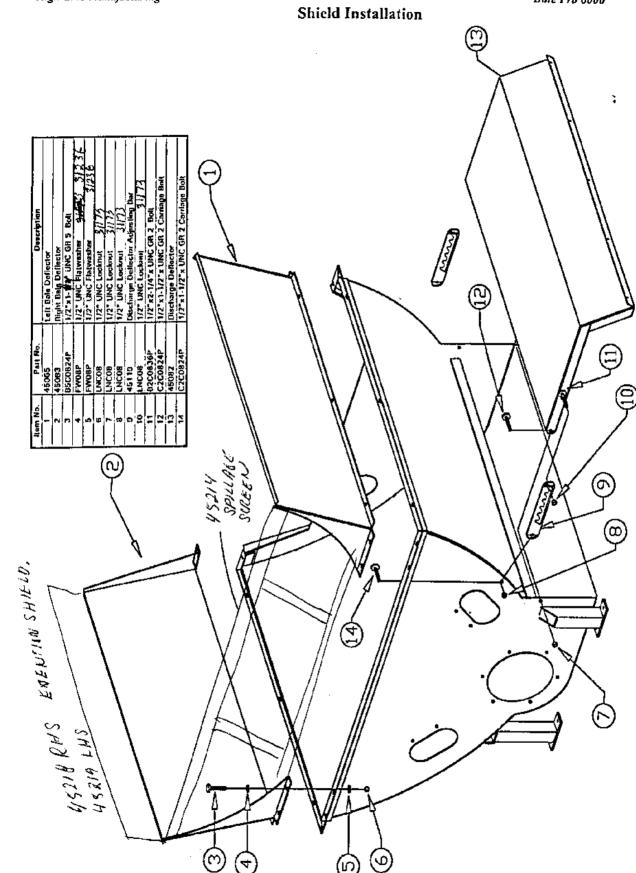




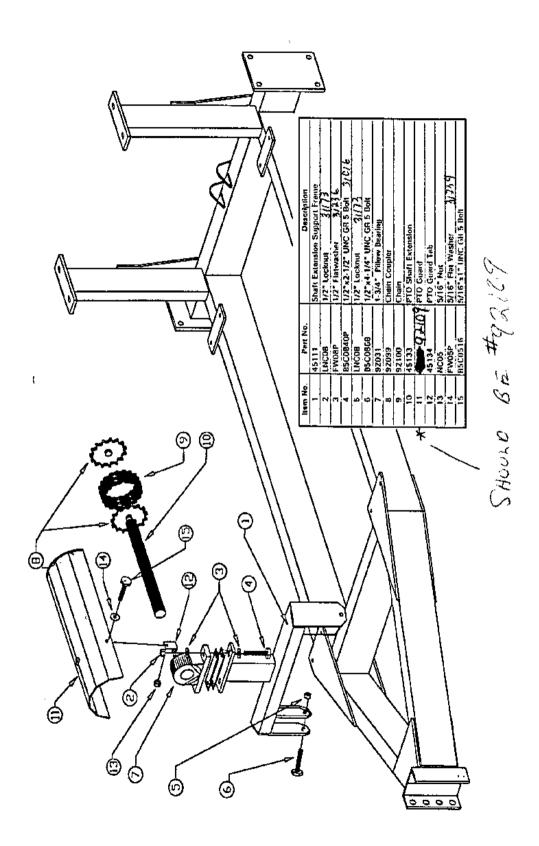


# Feed Drum Installation

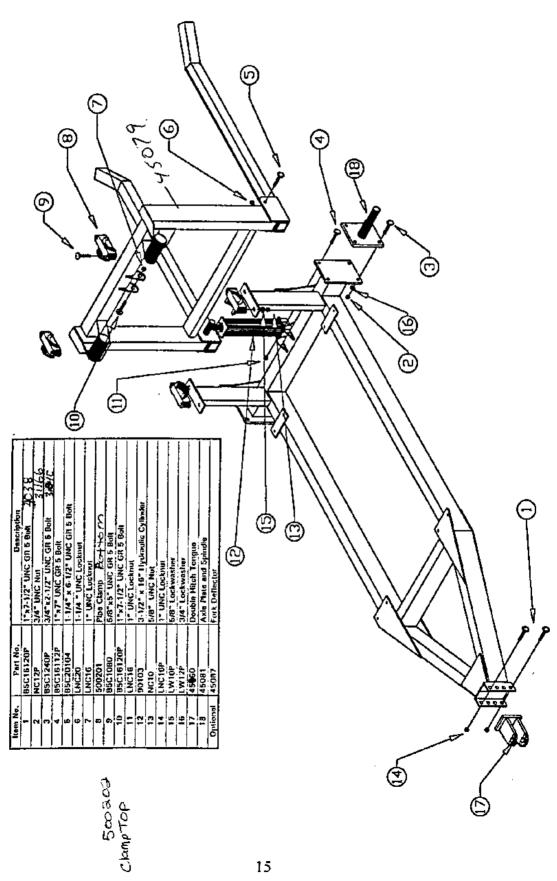


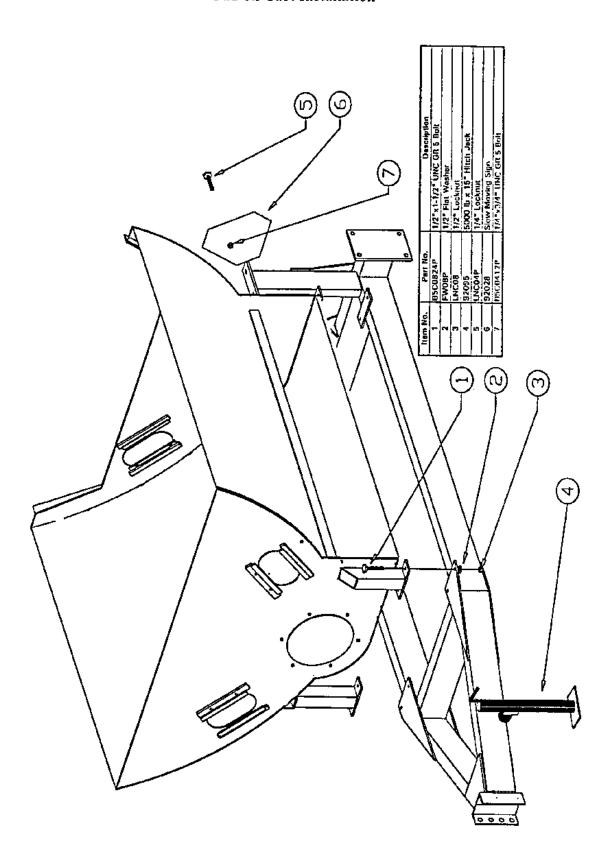


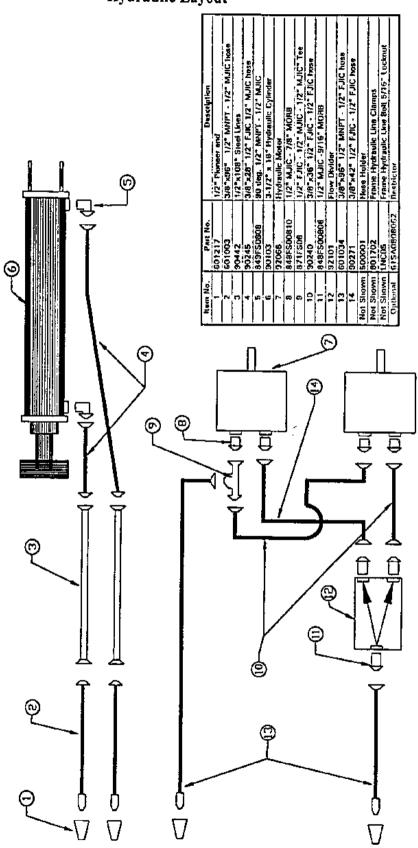
# PTO Extension Installation



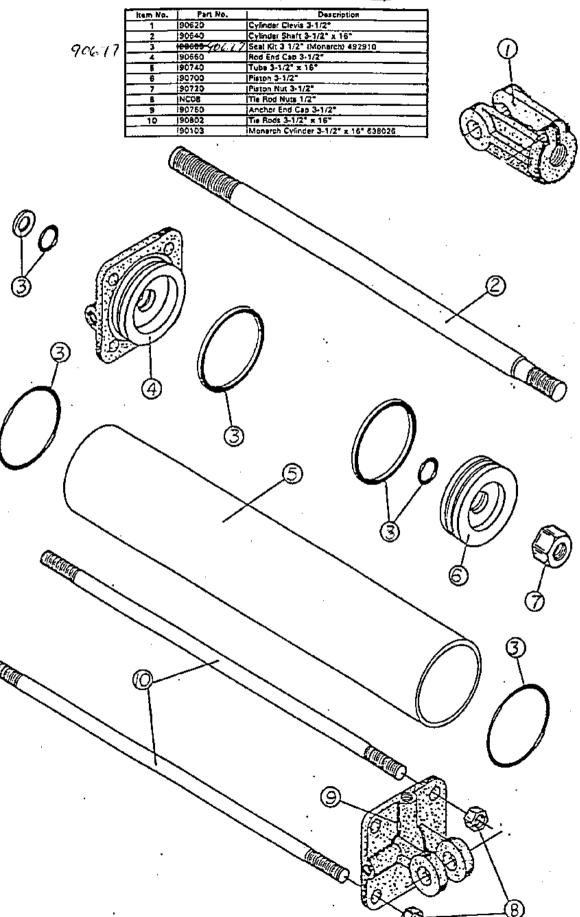
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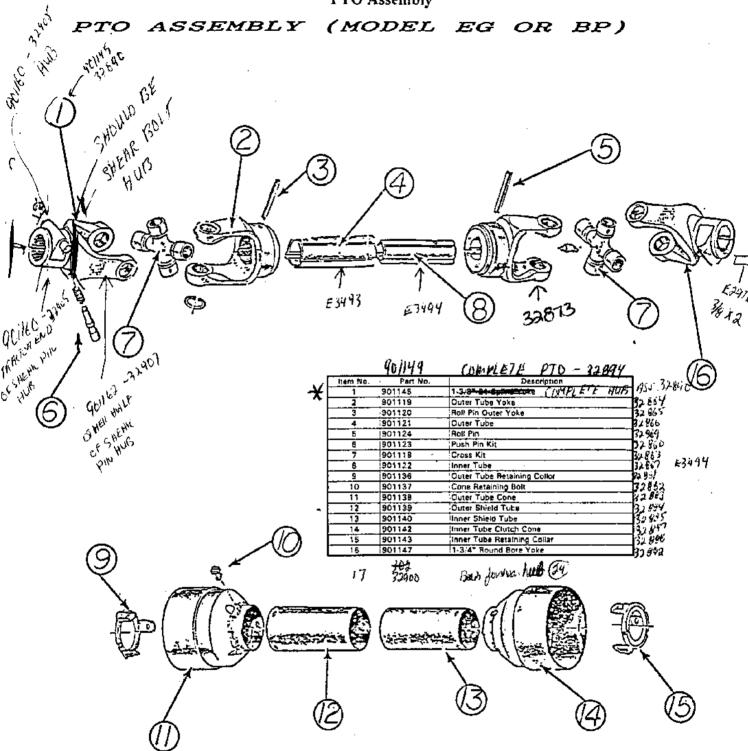




# Cylinder Assembly

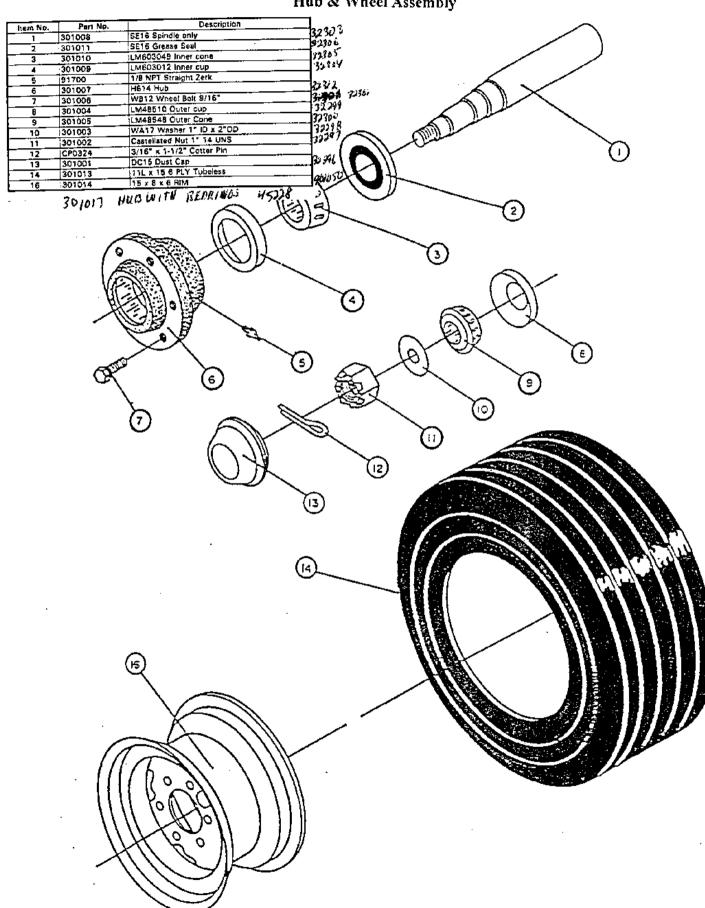


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NOTE: PLEASE CHECK YOUR BALE PRO TO SEE WHICH PTO MODEL IS BEING USED ON THAT MACHINE. THE EG 60 SERIES IS A YELLOW PTO, OTHER RELEVANT INFORMATION WILL BE WRITTEN ON THE PTO SHAFT,

#### Hub & Wheel Assembly



# Specifications

Recommended Minimum Horsepower Required:	85 HP
Capacity:	6' diameter bale
Height:	90"
Width	100"
Weight	4000 lbs
PTO Requirements:	1000 R.P.M.
Dual Hydraulies:	2000 P.S.I.