

# LVI PULVIMASTER III LITTER PROCESSOR

#LTMAN015



**USER & PARTS MANUAL** 



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Thank you for the Purchase & Support of your LVI Litter Processor!



### INTRODUCTION

Congratulations on your choice of a LVI LITTER PROCESSOR to complement your operation. This equipment has been designed and manufactured to meet the needs of the discriminating buyer for efficient processing of poultry litter. Safe, efficient and trouble free operation of your processor requires that you and anyone else who will be operating or maintaining the machine, read and understand the safety, operation, maintenance, and trouble-shooting information contained within the Operator's Manual.

This manual covers the Pulvimaster series manufactured by Binkley & Hurst, LP.

Keep this manual readily available for reference and be sure to pass it on to new operators or owners. Contact Binkley & Hurst, LP if you need assistance or information for a complete listing of parts and accessories.

**OPERATOR ORIENTATION** - The directions left, right, front and rear as mentioned throughout the manual are as seen from the tractor driver's seat, facing forward.

#### **CUSTOMER REFERENCE INFORMATION**

| LVI Model Number: Pulvimaster III: _ |  |
|--------------------------------------|--|
| LVI Serial Number:                   |  |
|                                      |  |
| Dealer Name:                         |  |
| Dealer Tel #:                        |  |

BINKLEY & HURST, LP Toll-free: 888.414.7518 LVI LITTER PROCESSOR PAGE: www.lvimfg.com LVI DEALER LIST:www.lvimfg.com/dealerlist



# SAFETY DECALS

The safety decals have been placed on the machine at the time of manufacture. It is important that all the decals are kept clean and legible at all times. If any decals have become illegible or have been removed, replacements are available from Binkley & Hurst, LP.

#### Toll-free: 888.414.7518

These Safety Decals Are on your Dairy Bedded Pack Composter







## DANGER

You are responsible for the SAFE operation and maintenance of your LVI LITTER PROCESSOR. You must ensure that you, and anyone else who will be operating, maintaining, servicing or working around the processor be familiar with the operating and maintenance procedures and related safety information contained in this manual. This manual will take you step-by-step through the operation procedures and alerts you to all good safety practices that should be adhered to while operating the litter processor.

Remember, YOU are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that EVERYONE operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Litter Processor owners must give operating instructions to their employees before allowing them to operate the machine and ensure that all operators have read and understood the safety and operating procedures.
- The most important safety device on the equipment is a SAFE operator. It is the operator's responsibility to read and understand ALL safety and operating instructions in the manual and follow them.
- A person who has not read and understood all operating and safety instructions is not qualified to operate this machine. An untrained operator exposes himself and bystanders to possible or serious injury or death.
- Do not modify the equipment in any way. Unauthorized modifications may impair the function and/ or safety and could affect the life and warranty of the equipment.
- Think SAFETY! Work SAFELY!

Do not allow riders on machinery. Place all controls in neutral, stop the engine, set park brake, remove ignition key and wait for all moving parts to come to a complete stop before servicing, repairing or unplugging machinery.



### **OPERATING SAFETY**

- 1. Read and understand the Operator's Manual and all safety decals before using the equipment.
- 2. Clean reflectors, slow moving vehicle signs and lights before transporting.
- 3. Place all controls in neutral, stop the engine, set park brake, remove ignition key and wait for all moving parts to come to a complete stop before servicing or repairing.
- 4. Install and secure guards before starting.
- 5. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
- 6. Do not operate when guards are missing or broken.
- 7. Clear the area of all bystanders, especially children, before starting.
- 8. Do not allow children to play on or around the machine.
- 9. Do not allow riders on the LITTER PROCESSOR or tractor.
- 10. Be sure the PTO driveline guard telescopes and rotates freely on the shaft before installation.
- 11. Use hazard flashers on tractor when transporting on roads, and follow all local laws.
- 12. Review safety instructions annually.

### **MAINTENANCE SAFETY**

- 1. Follow ALL the operating, maintenance, and safety information in this manual.
- 2. Place all controls in neutral, stop the engine, set park brake, remove ignition key and wait for all moving parts to come to a complete stop before servicing, adjusting, repairing or unplugging.
- 3. Support the machine with blocks or safety stands when working under it.
- 4. Follow good shop practices:
  - Keep service area clean and dry.



- Be sure electrical outlets and tools are properly grounded.
- Use adequate lighting for the job at hand
- 5. Use only tools, jacks and hoists of sufficient capacity for the job.
- 6. Make sure all guards and shields are in place and properly secured when maintenance work is completed.
- 7. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
- 8. Clear the area of all bystanders, especially children, when operating, repairing, or making adjustments to the machine.

### **STORAGE SAFETY**

- 1. Store the unit in an area away from human activity.
- 2. Do not permit children to play on or around the stored machine.
- 3. Store the unit in a dry, level area.

### **PRE-OPERATION CHECKLIST**

Efficient and safe operation of the LVI LITTER PROCESSOR requires that each operator reads and understands all the operating procedures and all the related safety precautions outlined in this section.

- 1. Lubricate the machine as per the schedule in the Service and Maintenance section of the manual.
- 2. Use only tractor with adequate power to operate your LVI LITTER PROCESSOR.
- 3. Make sure the gearbox oil reservoir is filled to the proper level.
- 4. Check the gearbox. Make sure the drain plugs are properly installed and tightened and not leaking.
- 5. Make sure the chain case reservoir is filled to the proper level.
- 6. Make sure pivot points and bearings are greased.
- 7. Ensure that the machine is properly attached to your tractor.



8. Check for and remove entangled material from the PTO, driveshaft and rotor.

9. Check that PTO driveline is pinned to the tractor.

10. Check rotor for missing or broken flails.

# **EQUIPMENT MATCHING**

The LVI Pulvimaster III model is designed to be used with agricultural tractors. To ensure a good performance, the following recommendations regarding minimum equipment size and horsepower should be met.

| Model           | PTO Horsepower | Weight   |
|-----------------|----------------|----------|
| Pulvimaster III | 40 -60         | 000 lbs. |
| Pulvimaster III | 30 - 45        | 000 lbs. |

An operator must use his own discretion when determining whether the tractor attached is suitable. Using a small tractor on a heavy piece of machinery can cause severe injury or death if the operator loses control of the machinery.

# **PTO SHAFT INFORMATION**

When the machine is attached to the tractor, the length of the PTO shaft must be checked. The shaft MUST overlap at least 4" in the longest position. Make sure the shaft DOES NOT bottom out in the shortest position while raising and lowering the machine. This is extremely important.

The machine should not be put into service if the PTO shaft has missing or broken guards.

PTO Shaft Lubrication: Every 8 hours of use, lube both U-Joints of PTO shaft with quality grease. Also slide the front half of the shaft off the rear half shaft. Smear grease on the male and the female portions of the shafts liberally and then reassemble the shafts.



## **OPERATION**

The LVI Pulvimaster is designed to pulverize litter in the poultry house after birds have been taken out of the house. Please follow these operating suggestions in order to provide maximum efficiency of operation and long life for your machine. Also maintain the machine as suggested.

After attaching the machine to the tractor, verify PTO shaft length is within proper lengths. Adjust tractor top link so that the Pulvimaster when in the lowered position, the skid shoes are slightly higher in the front than the rear. This is done to prevent the skid shoes from digging into the poultry house floor.

Adjust the chains on the tail drag lid to allow the lid to move upward to a 45 degree angle while moving forward. If the chains are adjusted too short the lid will not raise high enough and the pulverized litter will not be able to exit out the back of the machine. If the pulverized litter cannot exit out the back it will fill the machine trough and will cause the machine to vibrate and consume more power than necessary. This situation will vary depending on the depth and moisture of the litter.

Run the tractor PTO at approximately 500 rpm and not greater than 540 rpm. Forward tractor speed is dependent upon the depth and condition of the litter. At times if the litter has a thick hard crust the Pulvimaster may need to be run through the litter a second time in order to produce the desired results.

Note: Rocks, stones and other foreign objects can severely damage the machine. Avoid running these objects into the machine.

# MAINTENANCE SCHEDULE

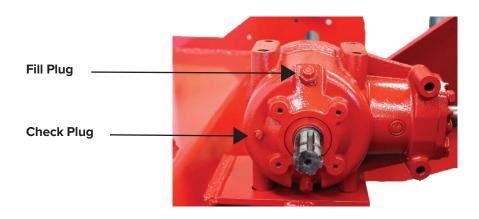
To ensure the long life for which the processor was designed, it is essential that the proper maintenance procedures are followed. The following chart indicates the manufacturer's recommended lubrication/ maintenance schedule.

| DESCRIPTION | HOURS OF OPERATION   | SPECIAL INSTRUCTIONS     |
|-------------|----------------------|--------------------------|
| GEAR BOX    | CHECK EVERY 6 MONTHS | 80-90EP GL-5 GEAR OIL    |
| CHAIN CASE  | CHECK EVERY 3 MONTHS | 80-90EP GL-5 GEAR OIL    |
| PTO SHAFT   | GREASE EVERY 8 HOURS | QUALITY LITHIUM 2 GREASE |
| BEARINGS    | GREASE EVERY 8 HOURS | QUALITY LITHIUM 2 GREASE |



## **GEARBOX LUBRICATION**

Gearbox: Oil level needs to be up to the small check plug on the side of the gearbox. Oil used is 80-90 EP gear oil - GL 5 classification. Check oil level on a regular basis. (approximately 3 pts capacity)



### **DRIVE AND BEARING LUBRICATION**

Right side rotor bearing: Grease bearing 2 pumps of grease every 8 hours of use.

Drive coupler left side of gearbox. Can be accessed from rear of machine underneath drive shaft shield. Grease 1 pump of grease every 8 hours of use.

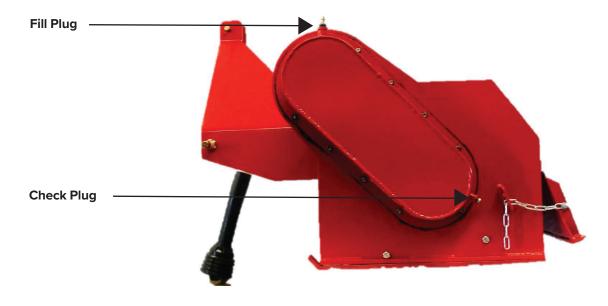


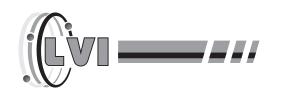
### **DRIVE CHAIN MAINTENANCE**

To check tension adjustment of drive chain. Restrain rotational movement of upper drive shaft. [perhaps clamp a large vise grip pliers onto the drive shaft] Reach under machine from the rear and grasp the main rotor by one of the flail bars. While restraining movement of the upper drive shaft, gently rock the main rotor underneath the machine forward and backward. Notice the distance of movement at the flail attachment bolt. If the movement is not more than <sup>3</sup>/<sub>4</sub> inch the chain does not need to be adjusted.

If the drive chain needs adjusting proceed as follows. Drain oil out of the chain case by removing oil level check plug and hoisting up the front of the machine to have oil drain out the plug hole. After oil is drained out lower front of machine to normal position. Remove nuts and bolts which attach chaincase to the machine. Drive an appropriate tool or a quality putty knife between the chaincase and the machine end plate about every 4 inches to cut the sealant loose. Be careful not to bend the chaincase edges. To tension the chain use a 1 1/8 inch wrench and loosen the chain idler sprocket nut about 1 ½ turns. Move the idler sprocket to set the chain tension. As the idler sprocket is tightened be sure the chain is not over tensioned. The longest length of the chain should have about 1/8 to ¼ inch of free movement after the idler sprocket has been tightened into position.

Clean the chain case and the machine end plate of all silicone and oil. Put a thin layer of silicone on the chaincase flange surface. Install the chaincase onto the machine and tighten bolts. Allow silicone to cure for at least one hour before installing oil into the chain case. Install 80/90 gear oil into chain case up to the oil check plug. [approximately one qt].



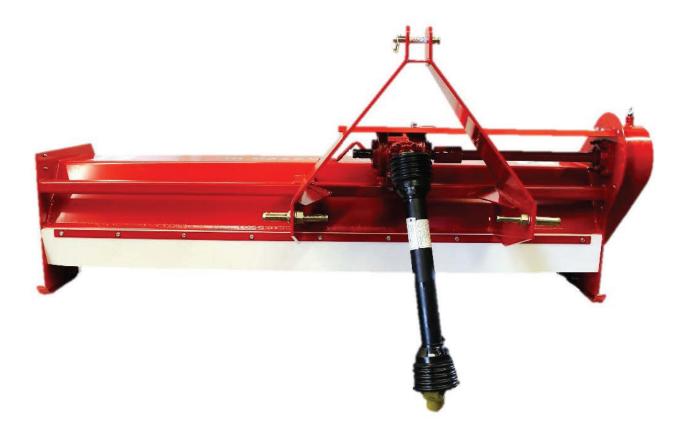


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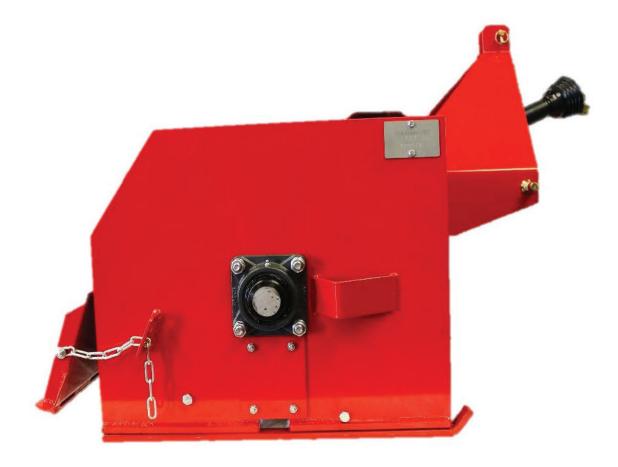


# PULVIMASTER III FRONT VIEW



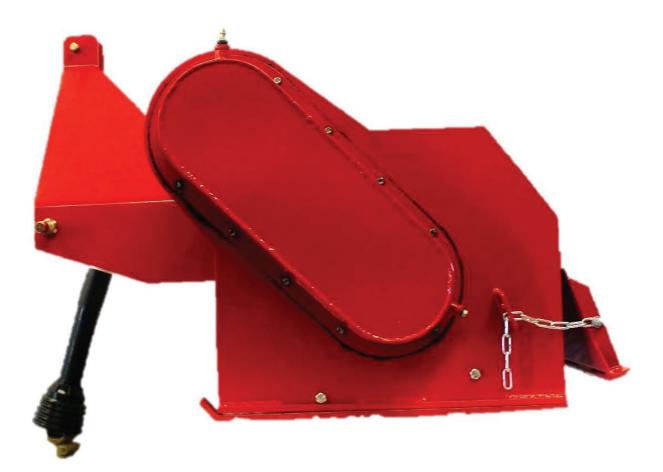


# PULVIMASTER III RIGHT END VIEW





# PULVIMASTER III LEFT END VIEW OF MACHINE - OUTPUT END



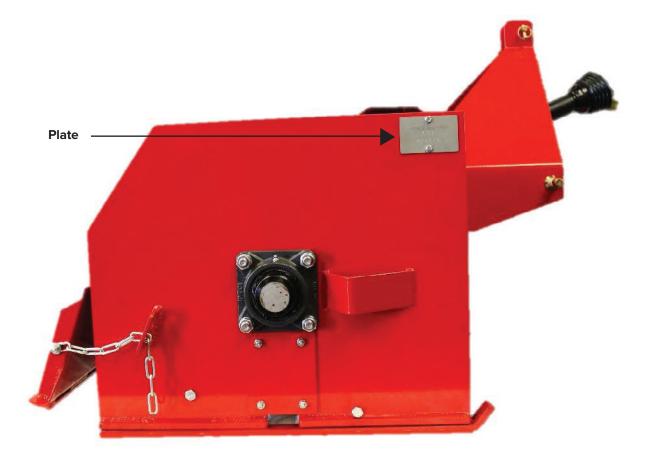


# PULVIMASTER III REAR VIEW



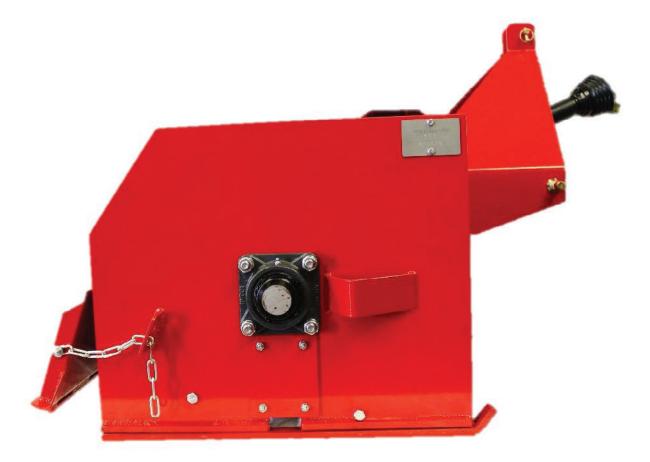


# **Pulvimaster III Serial Number Location**





# Pulvimaster III Right end of the Machine



#### **BEARING MAIN ROTOR**

7' wide model 2" diameter shaft #LTB24 5' wide model 1 3/4" diameter shaft #LTB1344





#### **TOP PIN LINK**

7/8" diameter #LTFX00074

#### LYNCH PIN

#LTLP7/16

LOWER 3PT. ATTACHMENT PIN

#LT873-1887





#### CHAIN EACH END OF TAIL DRAG LID



#LT660225 3 1/2"

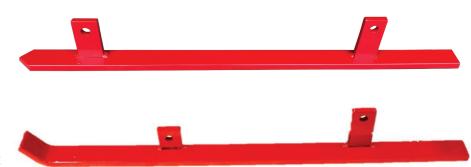
Uses (4) 3/8 x1" Bolts Nut and Lock Washer on each Hinge





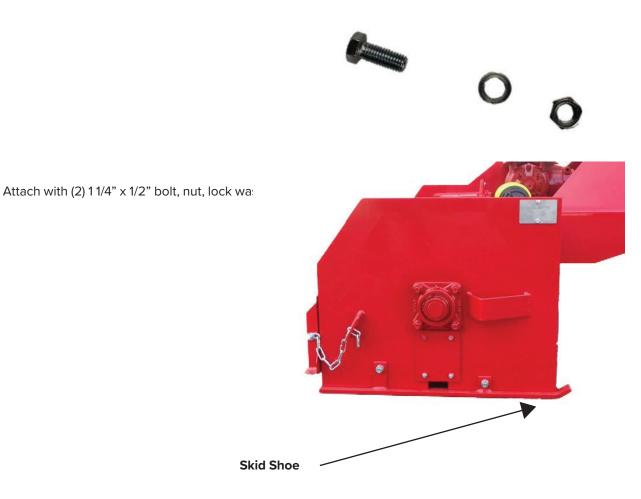
#### SKID SHOES

(2) per machine Right side #LT080215RT Left side #LT080215LFT



#### EARLY STYLE SKID SHOE

Will be replaced by late style skid shoe. May need to drill one hole for the front bolt.







#### **ROTOR FLAILS**

5 ft. width machine Complete rotor assembly with flails installed (20) 1 3/4" diameter shaft

#LT061617





Flail - curved #LT65143BD 5' model (20) 7' model (30)

Attach with: 5/8" x 1 1/2" bolt 5/8" flat washer 5/8" lock nut

Note: Did not using pivot bushing



Can be replaced with latest style flail, hardened bushing, washer, and hardware.





#### **ROTOR FLAIL PARTS**

#010116 - serial #090116

(52) Fails per machine

Flail - 45° bend with 7/8" diameter hole #LTPM7-30B

Attach with:

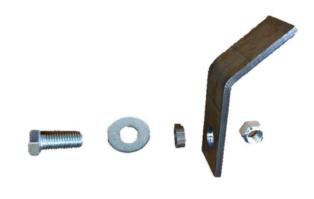
5/8" x 1 3/4" bolt,

5/8" flat washer

Bushing 7/8" O.D. x 5/8" I.D. 5/16" length #LTGB0218

5/8" lock nut

This bushing can be replaced with the latest style bushing, laser washing and hardware. All 52 must be replaced at the same time.







#### **ROTOR FLAIL PARTS USED AFTER SERIAL #090116**

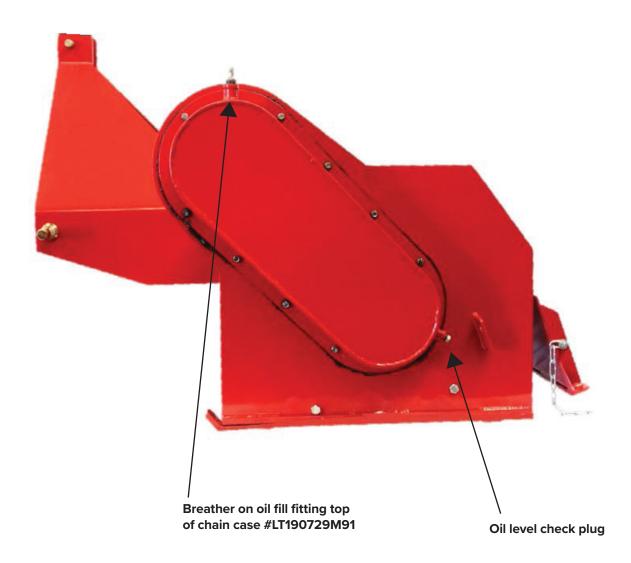
(52) Fails per machine
Flail - 45° bend with 7/8" diameter hole #PM7-30B
Attach with:
5/8" x 1 3/4" bolt,
5/8" flat washer
1/4" thick washer #LTPM7-33
Hardened bushing #LTGB0218
5/8" lock nut

This hardware can be used to replace early style hardware. Keep rotor in balance when replacing flails.

Complete rotor assembly with flails installed; #LT012217, will fit all Pulvimaster III 7ft. wide machines.

25





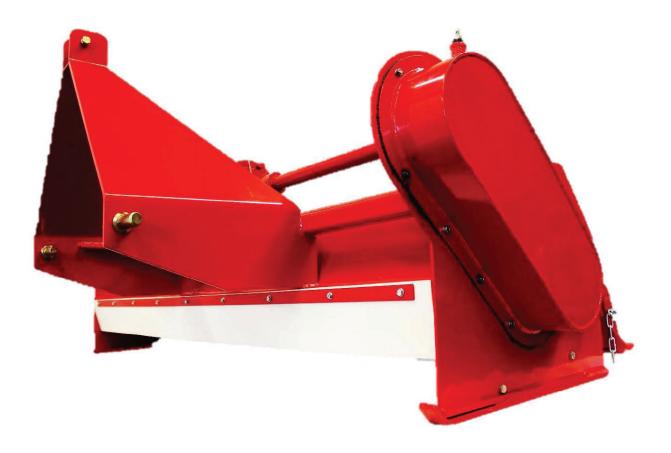
#### CHAIN CASE / COVER ASSEMBLY

#LT041016, no gasket

#LT586198, sealant

Retainling bolts - (10) 5/16" x 3/4" carriage bolt, lock washer, nut





#### CURTAIN FRONT OF MACHINE

#LT020817

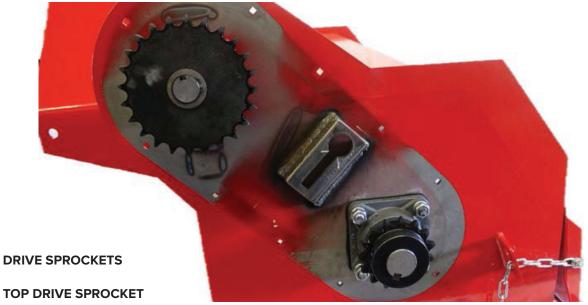
Retained wth (9) 5/16" x 3/4" self threading bolts

#LT365053X1

\*This same curtain is used on the 5' model, need to cut to proper length.

Need to drill bolt holes in the curtain.





#LT80BS24X11/2
#80 24 tooth 1 1/2" hub 3/8" key way
Uses 3/8" Sq. x 1 5/8" hardened key #LT3838158
Used on all 5' machines, used on all 7' machines prior to #090116
#LT80BS18X11/2
#80 18 Tooth 1 1/2" hub 3/8" keyway
Uses 3/8" x 1 5/8" key hardened #LT3838158
Used on 7' machines after #090116
BOTTOM DRIVE SPROCKET
#LT80BS15HX2 uses 1/2" Sq. x 1 1/2" hardened key #LT1212112

#LT80BS15X13/4 uses 3/8" Sq. X 1 1/2" hardened key #LT3838112 #80 15 Tooth 1 3/4" hub 3/8" key way (5' model)





#### **DRIVE CHAIN**

- 54" #80 chain 80RCX (24T top sprocket) used prior to #090116
- 52" #80 chain 80RCX (18T top sprocket) used after #090116
- (1) #80 connector link
- (1) #80 offset 1/2" link used prior to #090116

#### CHAIN TENSIONER SPROCKET

#80 #LTS801134

- (1) 3/4" x 3 1/2" cart bolt gr.5
- (1) 3/4" lock nut 1
- #LT200915, 1 9/16" long spacer behind sprocket







#### TOP DRIVE SPROCKET RETAINERS

(2) snap rings and shim washers as needed
(1) snap ring outside of sprocket
(1) snap ring inside of sprocket
#LTSRE112 snap ring 1 1/2" external
1 1/2" I.D. narrow machine washers as needed (4 - 6quantity) #LTMBL1-1/2

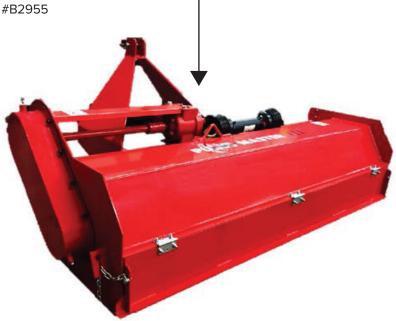




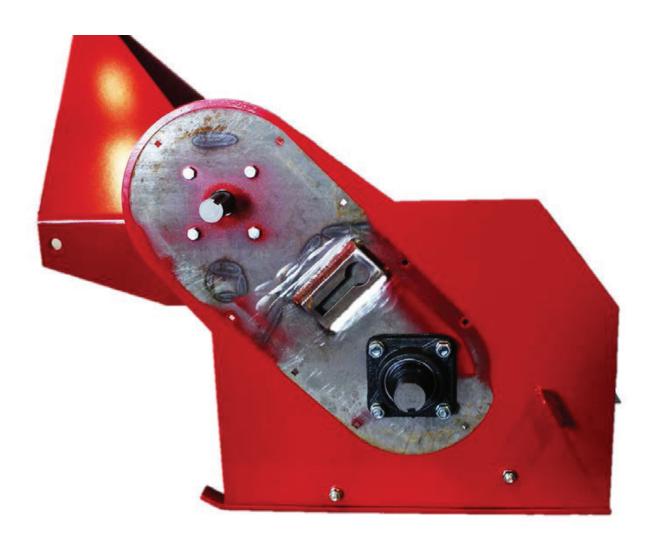
#### **GEAR BOX**

#LTB7513

(1) oil sel imput shaft #B2956(2) oil seal output shaft #B2955





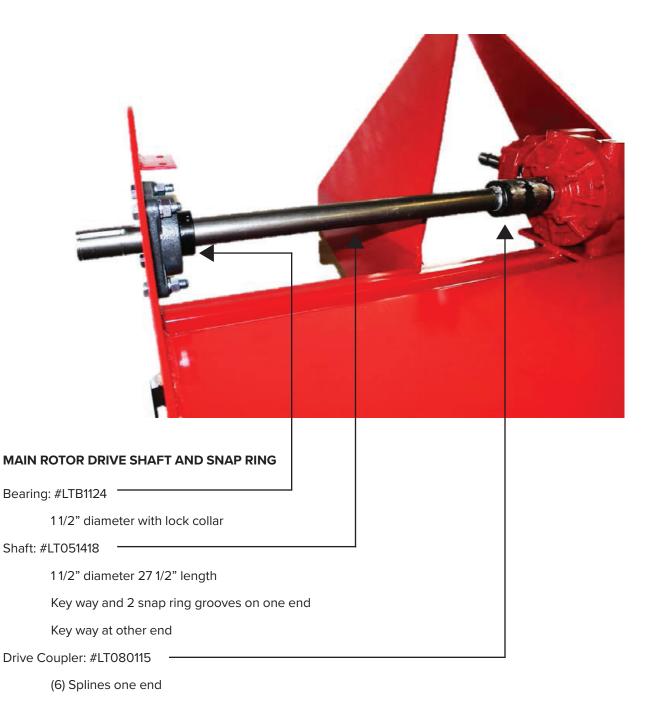


#### **ROTOR BEARINGS (SAME BOTH ENDS)**

2" diameter with lock collar (7' wide model)#LTB241 3/4" diameter with Lock Collar (5' Wide Model)

#LTB1344





11/2" round with key way at other end

(1) hardened key #LT3838134





#### **PTO SHAFT**

#6 heavy duty shaft used after serial #010117
6 Spline quick disconnect (on both ends)
Overall total length 30"
#LT69P524BC
Can be installed on prior 7' machines

#### **PTO SHAFT**

#4 metric shaft: used on 7' machines prior serial #010117
6 spline quick disconnect (on both ends)
Overall total length 28"
#LT69P523



#### PTO YOKE

6 spline quick disconnect yoke #MA622138 Cross kit #MA600



**PTO YOKE** 

6 spline quick disconnect yoke #MA421138 Cross kit #MA421



# WARRANTY POLICY TERMS AND CONDITIONS

BINKLEY & HURST, LP P.O. BOX I 00, 700 EAST LINDEN STREET, RICH LAND, PA 17087, provides the following limited warranty on its LVI-branded products in accordance with the provisions below to each original retail purchaser of new LVI equipment of its own manufacture. Such equipment is, at the time of delivery to end user, free from defects in material and workmanship and will be warranted for a period of **6 months for single farm use and 3 months for custom (for hire) use** from the date of delivery. The machine must be used and serviced in accordance with the recommendations of LVI and be operated under normal farm conditions for which the unit is designed.

- 1. This warranty will be void if any equipment is deemed by LVI to have been used for purposes other than that for which it is intended or if it has been misused, neglected, damaged, let out for hire or furnished for rental. Claims will not be accepted if parts other than those manufactured or supplied by LVI have been used on any LVI equipment. Further, LVI will not be responsible for damage incurred in transit or handling and under no circumstances within or without the warranty period will LVI be liable for damage claims due to downtime or inability to use the machine.
- 2. LVI will not be held responsible for loss of livestock, poultry, pets or any expense or costs incurred for labor, supplies, substitute machinery rental for any other reason, or for injuries either to the owner or to a third party. LVI is not responsible for labor charges, other than those originally agreed upon which are incidentally incurred in the removal or replacement of components on LVI product.
- 3. The Customer will be responsible for and bear the cost of:
  - a. Maintenance such as greasing, maintenance of oil levels, minor adjustments, timely replacement of wear items.
  - b. Transportation of any LVI product to and from where the warranty work is performed.
  - c. Dealer travel time to and from the machine or to deliver and return the machine from the workshop for repair.
  - d. Dealer travel costs.
- 4. Normal wearing items, (i.e. cutting edge, skid shoes, etc.) are not covered under this warranty.
- 5. This warranty will not apply to any product that is altered or modified without the express written permission of LVI. Warranty repairs must be authorized by LVI or LVI-approved dealers.



- 6. This warranty may not be assigned or transferred to anyone.
- 7. Signing this form indicates that i have read and understand the owners manual and am capable of operating the machine in a safe and responsible manner.

## WARRANTY REGISTRATION

| Customer Name:      |                 |
|---------------------|-----------------|
| Dealer Name:        |                 |
| Address:            |                 |
|                     |                 |
|                     | Cell:           |
| Machine Model:      | Machine Serial: |
| Delivery Date:      | Sales Person:   |
| Customer Signature: |                 |

#### 3 COPIES REQUIRED: 1-BINKLEY & HURST, LP 2-DEALER 3-CUSTOMER



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BINKLEY & HURST, LP P.O. BOX I 00, 700 EAST LINDEN STREET, RICH LAND, PA 17087, provides the following limited warranty on its LVI-branded products in accordance with the provisions below to each original retail purchaser of new LVI equipment of its own manufacture. Such equipment is, at the time of delivery to end user, free from defects in material and workmanship and will be warranted for a period of **6 months for single farm use and 3 months for custom (for hire) use** from the date of delivery. The machine must be used and serviced in accordance with the recommendations of LVI and be operated under normal farm conditions for which the unit is designed.

- 1. This warranty will be void if any equipment is deemed by LVI to have been used for purposes other than that for which it is intended or if it has been misused, neglected, damaged, let out for hire or furnished for rental. Claims will not be accepted if parts other than those manufactured or supplied by LVI have been used on any LVI equipment. Further, LVI will not be responsible for damage incurred in transit or handling and under no circumstances within or without the warranty period will LVI be liable for damage claims due to downtime or inability to use the machine.
- 2. LVI will not be held responsible for loss of livestock, poultry, pets or any expense or costs incurred for labor, supplies, substitute machinery rental for any other reason, or for injuries either to the owner or to a third party. LVI is not responsible for labor charges, other than those originally agreed upon which are incidentally incurred in the removal or replacement of components on LVI product.
- 3. The Customer will be responsible for and bear the cost of:
  - a. Maintenance such as greasing, maintenance of oil levels, minor adjustments, timely replacement of wear items.
  - b. Transportation of any LVI product to and from where the warranty work is performed.
  - c. Dealer travel time to and from the machine or to deliver and return the machine from the workshop for repair.
  - d. Dealer travel costs.
- 4. Normal wearing items, (i.e. cutting edge, skid shoes, etc.) are not covered under this warranty.
- 5. This warranty will not apply to any product that is altered or modified without the express written permission of LVI. Warranty repairs must be authorized by LVI or LVI-approved dealers.



- 6. This warranty may not be assigned or transferred to anyone.
- 7. Signing this form indicates that i have read and understand the owners manual and am capable of operating the machine in a safe and responsible manner.

## WARRANTY REGISTRATION

| Customer Name:      |                 |
|---------------------|-----------------|
| Dealer Name:        |                 |
| Address:            |                 |
|                     |                 |
|                     | Cell:           |
| Machine Model:      | Machine Serial: |
| Delivery Date:      | Sales Person:   |
| Customer Signature: |                 |

#### 3 COPIES REQUIRED: 1-BINKLEY & HURST, LP 2-DEALER 3-CUSTOMER