

# LVI DAIRY BEDDED PACK COMPOSTER MODEL 750 #LTMAN017





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Thank you for the Purchase & Support of your LVI Dairy Bedded Pack Composter!



### **INTRODUCTION**

Congratulations on your choice of the LVI Dairy Bedded Pack Composter to complement your operation. This equipment has been designed and manufactured to meet the needs of the discriminating buyer for efficient processing of dairy manure. 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 model 750 LVI Dairy Bedded Pack Composter machine manufactured by LVI - Binkley & Hurst, LP.

Keep this manual as a reference for operating procedures and parts listing. Contact your selling dealer or LVI/Binkley Hurst LP for further assistance if needed.

**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: .	
LVI Serial Number:	

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 eligible 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 Dairy Bedded Pack Composter. You must ensure that you, and anyone else who will be operating, maintaining, servicing or working around the composter 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 composter.

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.

- Do not allow any person to ride along on the tractor, walk beside the machine, or ride on the composter while operating.
- Do not crawl or lay under the composter while it is in a raised position.
  - If needing to perform maintenance under the machine:
     Raise the machine, put substantial blocks and/or safety stands under both ends of the machine. Make sure the tractor parking brake is firmly applied, engine turned off, and ignition key removed from ignition switch. As a safety precaution, have a second person assisting while working under the composter machine.
- Never operate the machine without proper shields on the PTO shaft and other drive shafts.
- If checking/investigating the composter while it is in operation becomes necessary, fully lower the
  machine to the ground. Set tractor parking brake, turn off engine, then proceed with checking the
  machine.
- Think SAFETY! Work SAFELY!



### **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 Dairy Composter or tractor.
- 10. Use hazard flashers on tractor when transporting on roads, and follow all local laws.
- 11. Do not operate with leaks in the hydraulic system or lubrication system.
- 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 Dairy Bedded Pack Composter 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 a tractor with adequate power to operate your composter
- 3. Make sure the chain case reservoir is filled to the proper level.
- 4. Ensure that the machine is properly attached to your tractor.
- 5. Close and secure all guards.

### **EQUIPMENT MATCHING**

Model 750 - 70 to 100 540 RPM PTO HP - 4WD tractor

### **ATTACHING**

- 1. Back tractor up to machine
- 2. Determine if upper or lower pin holes for lift arms need to be used.
- 3. Insert pins and retaining clips
- 4. Hook up top link using lower or upper hole same as lower lift arms
- 5. Adjust top link length in order to have machine in a horizontal level position when viewed from the side
- 6. Attach PTO shaft to the tractor. Check the length of the shaft. Shaft MAY NOT bottom out at any time. Shaft must have a minimum of 3 inches of further collapsing movement after attached to the tractor PTO shaft.



### **OPERATION**

Run PTO drive at 540 RPM. Drive at approximately 1 to 2 MPH forward speed.

NOTE: When first beginning to use the machine in an existing bedded pack which is 15+ inches deep, till at a depth of 10 inches on the first pass. On the second pass, till 16 inches deep. This is done in order to not overload the driveline system.

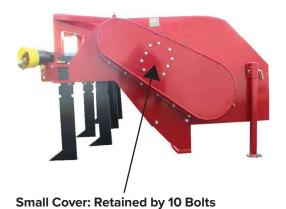
Avoid making turns greater than 20 degrees left or right with the machine lowered into the bedded pack. After the bedded pack is at least 20 inches deep, the depth guides on the left and right side of the machine can be removed to avoid excess wear of the depth guides. The depth guides are intended to prevent the tiller tines from digging into the dirt base of the bedded pack.

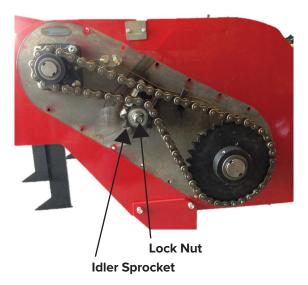
NOTE: Tiller tines are not designed or intended to be digging into dirt or onto concrete surfaces. Rocks, logs, or any other objects in the bedded pack



### **CHAIN CASE**

Every 3 months remove the small external cover on outside chaincase (do not need to drain oil). Look at chain adjustment. Top span of chain is permitted to have up to 3/8 inch of slack movement. To adjust chain, loosen lock nut on idler sprocket, slide up/down to tighten at proper position. Do not over tension chain. Check chain idler sprocket bearing condition at this time. If bearing fails, severe chaincase damage will occur.

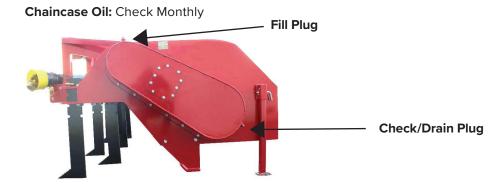






### LUBRICATION

GREASE BEARINGS EVERY 8 HOURS OF OPERATION	
Upper Drive Shaft Outter End Bearing	2 Pumps of Grease
Main Rotor Bearings	3 Pumps of Grease
Universal Joints on PTO and Side Drive Shafts	2 Pumps of Grease
PTO Shafts Male/Female Sliding Tubes	3 Pumps of Grease



With Machine Lowered to ground, remove plug from rear of chaincase. Oil level should be up to plug level. Top off with any type of 90 wt gear oil.

NOTE: It is normal to see evidence of chaincase oil seeping out through bearing on upper drive shaft.

### Chaincase Oil: Change Yearly (4 1/2 pints quantity)

Remove machine from tractor. Hoist front of machine up to a 45° angle. Remove oil "check plug" from rear of chaincase and drain the oil. Lower machine to normal position and refill chaincase with oil until the oil appears at oil level plug. Install plug and tighten.

Main Gearbox Oil: Check Monthly

Model 750: prior to serial number #070118

Check plug on rear center of gearbox. Oil level should be up to the plug (5 pints quantity)

### Model 750: after serial #070118

Check plug on front left area of gearbox. Use plug below gearbox centerline. Oil should be up to the plug. – Use 80/140 gear oil (GL5 rating or equivalent). It is permissible to use synthetic oil if preferred. (3 pints quantity)



### **MAINTENANCE**

To ensure the long life for which the composter was designed, it is essential that the proper maintenance procedures be followed.

PTO Shaft U Joints – Check Monthly for wear/looseness

**Slip Clutch on PTO Shaft** – Every 6 months loosen clutch springs, lower the machine into the bedded pack and slip the clutch for 10-15 seconds. Retighten to the recommended spring length.

# Model 750: prior to serial #070118 Loosen 6 Bolts 2-3 full turns Slip the clutch Retighten bolts completely tight after serial number #070118 loosen 8 bolts/springs slip the clutch retighten bolts to 1 1/8" - 1 3/16" coil spring length

Bearings on Upper Drive Shaft and Main Tiller Rotor – Check for wear/looseness

**Main Rotor Drive End:** Lower machine onto solid blocking close to ground level. Tiller tines may not be touching ground. Use small hydraulic jack under drive end of rotor and jack up slightly checking for up/down free play in rotor bearing



### **Tiller Tines:**

Replace tine when worn to a point at outer lower end of tine. Left and right tines are determined when standing behind machine looking forward and looking at the tines at the bottom portion of the rotor. Right tines point to the right and left tines point to the left.

### Chaincase Enclosure:

To access chain, sprockets, or bearings inside chaincase: Drain oil from chaincase. Remove bolts attaching chaincase to machine. Using a sturdy metal putty knife or similar thin object and hammer, drive putty knife into the joint of the chaincase and machine frame. Move to various places cutting sealant loose until chaincase



disengages from the machine. After repairs are made. Clean machine surface and chaincase surface of all silicone and oil residue. Use "brake cleaner" spray or similar product to remove all oil residue. Apply high quality silicone on chaincase surface making sure to surround each bolt hole. Install chaincase and firmly tighten bolts. Allow to cure for 2 hours before filling to proper level with oil. There is no gasket used in this application.





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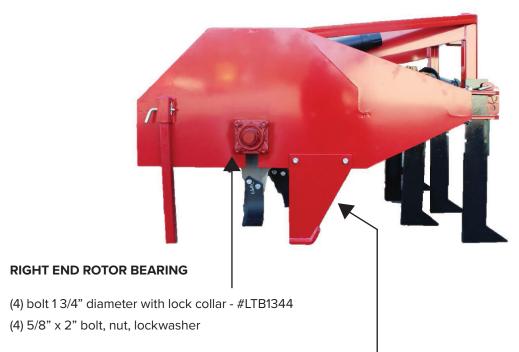
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### 3 PT. HITCH

- (1) Top link pin #LTFX00076
- (2) Bottom lift arm pin #LTFX17900



RIGHT END DEPTH GUIDE/SKID - #LT020118

(2) 1/2" x 1 1/2" bolt, nut, lock washer



### **RIPPER TEETH (7) #LT020218**

"L" Pin (holds ripper tooth in place) - #LTB1410





### **CHAIN CASE COMPONENTS**

Breather – Top of chain case - #LT190729M91 Bushing for breather - #LT44236 NPT1/8-1/2

Chain case cover assembly #LT020418
-Includes inspection cover installed

16 - 3/8" x 1" Carriage bolts, nut, lock washer (retain chain case to machine)

### **LEFT SIDE DEPTH GUIDE/SKID** - #LT020318

(2) 1/2" x 1 1/2" bolt, nut, lock washer



### COMPLETE PTO SHAFT / CLUTCH

#LT79P5214BC

Used serial #031017 thru 070118

Tractor end 13/8" - 6" spline quick disconnect

Gearbox end 11/2" rnd 3/8" key way

#6 series

Overall length including clutch - 41"



### YOKE ATTACHMENT TO CLUTCH HOUSING

(4) Flange head bolts - 10mm x 25mm 1.5 thd. 10.9 hardness

Cross kit - #6 - #LTMA600





### PTO ATTACHMENT TO GEARBOX

- (1) Drive key #LT38382 (hardened key)
- (1) 3/8" x 3/4" sq. head set screw #LT3/8x3/4SQHEAD
- (1) 3/8" x 1" sq. head set screw #LT3/8x1SQHEAD
- (2) 3/8" x 1" Jam nut #LT3/8x16JAMNUT



### **TORQUE MASTER HUB/CLUTCH**

Prior to serial #070118

Clutch assembly LTM570 – 9000

(2) Disc friction LTM970 – 7000

(1) Belleville spring LTM987 – 9000

(9,000 in/lbs. Spring)





(6) bolts and nuts that hold the clutch together  $5/16" \times 2 \, 1/2"$  gr. 8





### **GEARBOX #LT0220-59327**

Used on Serial #031017 through #070118 11/2" Diameter shafts 3/8" keyways



### **GEARBOX**

After serial # 070118 #LTS2070150F101



# GEARBOX MOUNTING BOLTS AFTER SERIAL #070118

(4) 14mm x 55mm 10.9 bolts #LTM14X55-10.9 (4) 9/16" Lock washer (#LTLW9/16) and 9/16" flat washer (#LTFW9/16)





### PTO SHAFT WITH SLIP CLUTCH - AFTER SERIAL #070118

Complete Shaft with clutch assembly #LT79P5216BC

Slip Clutch End – 6 Spline 13/8" Clamp Type Tractor End – 6 Spline 13/8" Quick Disconnect #6 Series Corss Kit #LTMA600



### TRACTOR END OF SHAFT WITH SHIELD

#LT79P5116B

#6 series

Cross kit #LTMA600

Yoke – 6 Spline Quick Disconnect #LTMA622138





#LTMAS30130



### 2 - CLAMP BOLTS ON GEARBOX END HUB

12mm x 70mm 8.8 12mm locking nut



### **CLUTCH PARTS**

- (8) Nuts and flat washers
- (8) Coil springs #LTMB4200
- (8) Bolts 10mm x 90mm 8.8



(2) Fiber discs #LTB4490





### **U JOINT ON GEARBOX OUTPUT SHAFT**

Used with serial #031017 through #070118 (not available as an assembly)

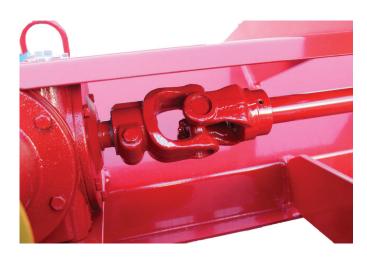
### YOKE ON GEARBOX SHAFT

#LTMAE622338

11/2" round bore clamp type 3/8" key way (1) Key #LT38382 Cross kit #6 #LTMA600

Yoke - #LTMAE622342 connects to cross shaft

1 5/8" round bore - (2) 3/8" key way (180° sequence) Uses (2) drive keys #LT3838178



### **U JOINT ASSEMBLY AFTER SERIAL #070118**

Yoke to gearbox – 13/8" 6 spline quick disconnect #LTMA622138

#6 series cross kit #LTMA600 Yoke to cross shaft – 15/8" round bore

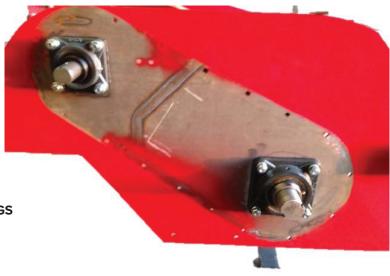
(2) 3/8" key way #LTMA622342

### **COMPLETE ASSEMBLY #LT79X561BC**

(2) 3/8" key ways







**DRIVE AND ROTOR SHAFT BEARINGS** 

Top bearing (drive shaft) #LTB1584

1 5/8" diameter with lock collar

Retained by (4) 5/8" x 2" bolt, nut, lock washer

Bottom bearing (rotor shaft) #LTB2124 2 1/2" diameter with set screws Retained by (4) 5/8" x 2" bolt, nut, lock washer

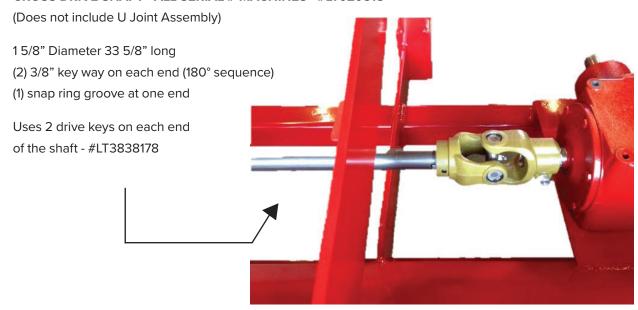
Spacer Bushing #LT020618 Located behind large 2 1/2" bearing on rotor shaft 2 1/2" long - 2 1/2" I.D.







### CROSS DRIVE SHAFT - ALL SERIAL # MACHINES - #LT020518



### **DRIVE CHAIN #LTRC10064**

#100 64 rollers
(1) #100 Connector link (comes with new chain)
Use 2 "J" hooks on connector link instead of small cotter pins
"J" hook - #LT231682M1





### **GREASE TUBES**

1/8" Copper tubing - (1) 5" long (1) 20" long



All of these items per bearing:

- (2) Straight fitting 1/8" NPT 1/8" copper tube #LT061845
- (1) 90° elbow #LT216200
- (1) Straight bulkhead fitting #LT061847
- (1) Bulkhead nut #LT061848





### **IDLER SPROCKET #LT10010016**

#100 - 10 Tooth

Retaining hardware:

Bolt – 3/4" x 3 1/2" gr. 5 carriage bolt

#LT5C3/4X31/2C

Spacer - #LT051618

Sprocket - #LT10010016

Washer (special) #LTSAEFW3/4

Nut – ¾" Lock nut #LTSLN3/4C





### **TOP DRIVE SPROCKET #LT100BS10X15/8**

15/8" bore (2) 3/8" key ways #100 10 Tooth

(2) Drive keys #LT3838178

3/8" x 3/8" x 17/8" hardened



Top Sprocket Hardware

(1) 1 5/8" snap ring #LTSRE158

15/8" I.D. Narrow machine washer as needed #LTMB15/8





### **BOTTOM SPROCKET ON MAIN ROTOR SHAFT**

#LT100BS30X21/2

2 1/2" bore

(2) 1/2" key ways

#100 – 30 Tooth

(2) Drive key 1/2" x 1/2" x 2" #LT12122 hardened



### Bottom Sprocket Hardware

2 1/2" I.D. narrow machine washers as needed #LTMB21/2

(1) 2 1/2" snap ring #LTSRE21/2







### **TILLER TINES (VIEW FROM REAR OF MACHINE)**

"Right" – Curve to the right (14) Tines - #LTLGRC "Left" – Curve to the left (14) Tines - #LTLGLC

Each retained by:

- (2) 5/8" x 1 1/2" bolt #LT5H5/8X11/2C
- (2) lock nut #LTSLN5/8

### **REAR RUBBER CURTAIN/FLAP #LT022017**

Attached with (7) 3/8" x 1" flange head bolts - #LT365018x1

Main Rotor Unit without Tines - #LT020718





### 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:	
City/State/Zip:	
	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:	
City/State/Zip:	
	Cell:
Machine Model:	_ Machine Serial:
Delivery Date:	_ Sales Person:
Customer Signature:	

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