



Lime Spreader

Model SL6

Operator's Manual



THIS MANUAL MUST BE READ AND UNDERSTOOD BEFORE ANYONE OPERATES THIS MACHINE!

Manual# 990042
Revised 04/28/2017

YOU MUST FILL OUT YOUR WARRANTY REGISTRATION TO ACTIVATE YOUR WARRANTY AND TO QUALIFY FOR PARTS AND SERVICE!!

To the Owner;

Thank-You for choosing a quality spreader from Pequea Machine, Inc. We strive to give you the best equipment and the best level of service of any company. With a little care and maintenance this machine will do your work for you for many years. In this manual, we make an effort to get you better acquainted with the spreader so you can achieve maximum performance. We design and build all of our equipment with the end user in mind so we welcome any suggestions or ideas for improvement.

Please take a few minutes to fill out the area below. This information will be valuable to you when ordering parts or requesting service from your dealer.

Dealer Name: _____

Dealer Phone Number: _____

Service Manager/Technician: _____

Model# and Description: _____

Serial Number: _____

Date of Purchase: _____

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INTRODUCTION

Thank-You for choosing the Pequea Lime Spreader. Your spreader is the result of years of research and development work. This Operator's Manual will familiarize the operator with the safety and operation of the machine. Included are complete instructions for safe and efficient operation, lubrication, and maintenance procedures. Understanding and following these procedures will result in years of maximum performance from your Pequea Spreader.

Read entire manual before operating. Failure to follow the instructions outlined in this manual may result in personal injury and/or damaged equipment, and could void the warranty.

Serial Number

The serial number consists of five numerical digits and can be found on a small yellow sticker on the left front corner of the spreader box. Please use this number when requesting service, seeking information, or ordering parts. For the operator's convenience, space to record the serial number, model number, purchase date, and dealer has been provided inside the front cover of this manual.



Figure 1

All pictures and instructions in this manual assume that the right and left side of the machine are that of someone standing behind the machine facing forward.

Specifications



Features	SL-6	SL-10
Hopper Length	9'	11'
Hopper width (at top)	66"	75"
Overall Height	80"	92"
Overall Length	18'	22'
Overall Width	73"	96"
Floor Width	24"	32"
Tires	12.5L x 15 12 Ply	19.5L-16.1SL 10 Ply
Material Cap. Struck level - Heaped	4 yd ³ / 5.25 yd ³	7.5 yd ³ / 10 yd ³
Payload	12,000 yd ³	20,000 lbs
Empty Weight	4000 lbs	6000 lbs
Heavy Duty Tandem Axle	12,000 lbs	20,000 lbs
3/4 x 6 Tongue & Groove Poly Floor	Standard	Standard
Heavy Duty 88K Chain	Standard	Standard
Removable Spinner Attachment	Standard	Standard
Spinner Disc Thickness	1/4" Plate	1/4" Plate
Spinner Diameter	25"	25"
Spread Width	Up to 60'	Up to 60'
Spinner Paddles	Bolt on - 6 per spinner	Bolt on - 6 per spinner

SAFETY

General Safety Guidelines

-  ***This symbol precedes specific safety instructions throughout this manual. When reading the manual pay close attention to the information that follows this symbol***
-  FAILURE TO FOLLOW INSTRUCTIONS IN THIS MANUAL COULD RESULT IN PERSONAL INJURY OR DEATH. READ ENTIRE MANUAL BEFORE OPERATING THE MACHINE!
-  Keep hands, feet, and clothing away from all moving parts.
-  Never allow riders on the spreader or the tractor.
-  Make sure that all persons are a safe distance away before moving the spreader or engaging the spinners
-  When transporting the machine on public roads use the proper reflectors, lights, and slow moving vehicle signs required by local government agencies.
-  Stop the tractor engine, remove ignition key, and allow all mechanisms to stop before cleaning, adjusting, or lubricating the machine. Never attempt to pull material from any part of the machine while it is running
-  Do not attempt to operate the spreader in areas with steep inclines, ditches, large rocks, stumps or holes which may endanger the operator by upsetting the tractor and/or the spreader.
-  Avoid contact with hydraulic lines, they may be under extreme pressure or heat. Never go near a hydraulic leak until the pressure has been relieved and the leaking has stopped. A high pressure hydraulic leak can easily penetrate your skin and cause serious injury, gangrene or death.

We at Pequea Machine, Inc. try to provide safety shield and guards wherever possible, however, it is impossible to shield every area that could be dangerous. We will not be responsible for carelessness and misuse of any of our equipment.

SAFETY

Safety Decals and Reflectors

Decals and reflectors are for the protection of yourself and others. If they are missing, faded, or not readable, get replacements from your dealer immediately. Shown below are some of the warning decals used on the Lime Spreader.

PEQUEA → **Poultry Spreaders**

Your spreader is Equipped with either a **540 max RPM pump** or a **1000 RPM pump**. Make sure your Tractor **PTO speed** matches the Spreader Pump.

⚠ DANGER ⚠



ROTATING DRIVELINE
CONTACT CAN CAUSE DEATH
KEEP AWAY!
DO NOT OPERATE WITHOUT

- All Driveline Guards, Tractor And Equipment Shields In Place.
- Driveline Securely Attached At Both Ends.
- Driveline Guards That Turn Freely On Driveline.

⚠ DANGER ⚠

FLOOR CHAINS AND SPINNERS CAN ACCIDENTLY START MOVING

NEVER ALLOW RIDERS ON THIS MACHINE

PEOPLE WHO FALL OR GET PULLED INTO SPINNERS WILL BE SERIOUSLY INJURED OR KILLED

HITCHING

Tractor Requirements

Your spreader is equipped with a 540 RPM PTO hydraulic pump and must be matched with a tractor that meets this requirement. The spreader is clearly marked with a decal that says “540 RPM Only”

Attaching to the tractor

Line up the hole in the tractor draw bar with the hitch on the spreader and insert an approved hitch pin with a locking device or safety clip. The spreader hitch is attached with six bolts and can be moved up or down to accommodate various draw bar heights.

Raise the jack drop leg (Figure 2) and secure with drop leg pin.

Attach the driveline to the tractor PTO output shaft and make sure it is locked securely onto the shaft then fold down the PTO stand (Figure 3) so it does not interfere with the PTO. Attach the PTO safety chain(s) to a stationary object to keep the shield from rotating.

Plug in the wiring for the lights (if your spreader is equipped with lights) and make sure that the lights and turn signals are working properly.

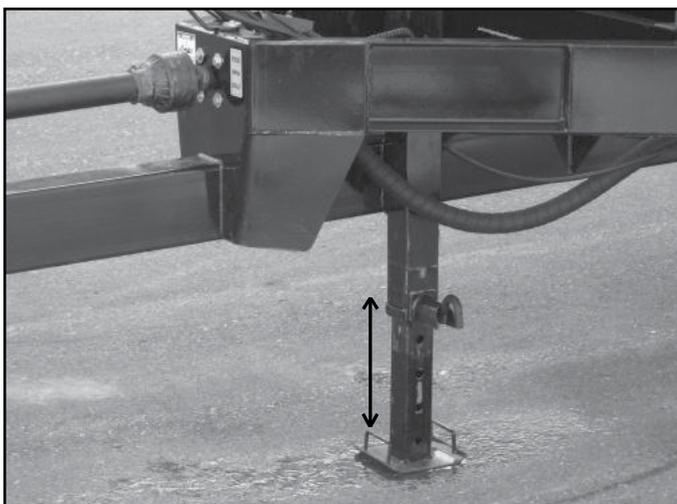


Figure 2

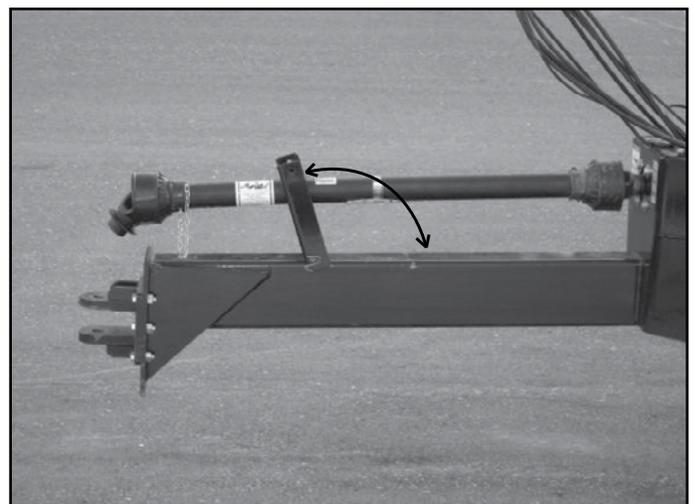


Figure 3

TRANSPORT

Field Transport

Never allow passengers on the spreader or the tractor.

Avoid tight turns to reduce the risk of loss of control or PTO shaft damage.

Remain fully aware of the width and length of the spreader in relation to the objects you are passing, either stationary or moving.

Never travel at speeds over 10 MPH in the field when loaded.

For level or rolling terrain, tractor weight must be at least 50% of gross loaded spreader weight. For hilly terrain, road travel, or other adverse conditions, tractor weight must be equal to, or more than the gross loaded spreader weight.

Road Transport

Adhere to all suggestions for transport in the field listed above.

Follow all local regulations for moving agricultural equipment on public roads, especially those related to reflectors, SMV (slow moving vehicle) symbols and safety markers.

Be sure to use flashing lights at all times when transporting on public roads.

Slow down when turning to avoid instability and loss of control

Never travel at speeds over 20 MPH on the road.

OPERATION

General Operation

The apron and spinner functions on the Lime Spreader are driven hydraulically by the hydraulic pump run by the tractor PTO.

The spreader is equipped with precision hydraulic valves (Figure 4) to fine-tune both the spinner and apron chain speed to accommodate a wide range of spread patterns, material density and much more.

The metering gate in the rear can be adjusted manually from 0-14" to control the depth of material flowing out onto the spinners. It is adjusted by turning the end gate wheel (Figure 5) to the desired position and engaging the spring loaded lock pin. Turn the wheel clockwise to raise the gate and counter-clockwise to lower it.



Figure 4



Figure 5

The remote floor shut off switch (Figure 6) is used to temporarily stop the apron chain while the spinners are still rotating. This feature is used when the operator makes a turn or passes through an area where no material is to be spread.



Figure 6

OPERATION

Optimum Spread Settings

Keep the gate low--It is recommended to keep the gate as low as possible when spreading fertilizer. It is often better to keep the gate around 1/2" - 1-1/2" and adjust other settings to reach desired application rates .

A rate chart calculator is available online at www.pequea.com/spreaders/litter-poultry-spreader (follow the link for SL10 Rate Chart) or by simply scanning the QR code below with your smart-phone. This calculator will give the user an estimated spread rate in pounds per acre based on pto speed, ground speed, apron setting, driving interval, material density, and gate height.



Rate Calculator

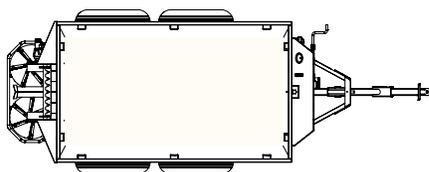
Load Calibration

Although Pequea's rate calculator can output an estimated rate based on spreader settings and material density, material flow properties (which cannot be easily quantified) can also affect the rate. To double check application rates, a manual load calibration test is recommended--especially when new material is introduced. One way to accomplish this is the tarp test:

Tarp Test

1. Place a tarp with a known size in the field.
2. Make three passes. The first being directly over the center of the tarp and the second and third being on either side of the tarp as you would if you were spreading the entire field
3. Weigh the material that was spread onto the tarp.
4. Convert the weight over the area of the tarp to pounds per acre.

$$\text{Rate (in pounds per acre)} = \left(\frac{43,560 \text{ ft}^2}{1 \text{ acre}} \right) \times \left(\frac{\text{Weight on tarp (lbs)}}{\text{Area of tarp (ft}^2\text{)}} \right)$$



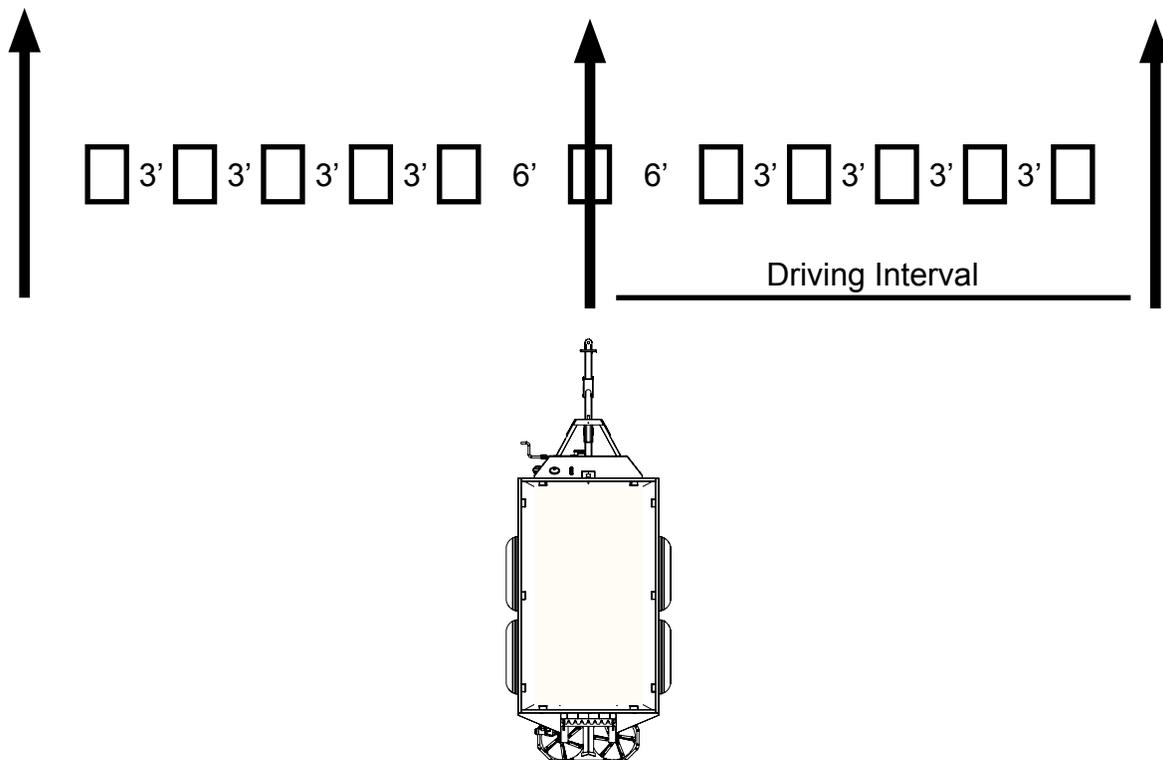
Using the tarp method, adjust the spreader settings until the actual rate matches the desired rate.

Load Calibration

To determine the uniformity of spread application, the “pan method” is recommended. In order to do this, you will need at least 11 of the same size pans. Use the following steps to determine uniformity:

Pan Test

1. Place 11 same-sized pans in the field as shown. Arrange them so they are each three feet apart, except for the middle ones, which should be 6 feet apart to allow room for the spreader to fit through.
2. Make three passes over the pans. On in the center, and the other two on either side as you would if you were spreading the whole field.
3. Compare the amount of material in each pan. Do this either by site or using a scale for each pan.
4. If the distribution is not uniform, adjust the driving interval or move the spinner attachment closer in or farther out. For example, if the material is more heavy in the center pans, move the spinner attachment forward to distribute more material towards the outside pans.
5. Continue to adjust these parameters until even distribution is reached.



MAINTENANCE

General Maintenance

Check the spreader each time it is used for loose, bent, broken or missing parts or fasteners.

Never store material in the spreader in cold weather. The material could freeze against the sides and floor of the spreader and cause severe damage to the apron drive system.

Clean the excess material off the sides of the spreader after each use. Some materials are acidic so if there are any scratches in the paint it will immediately begin to rust.

Wheel & Tire Maintenance

Check wheel lug torque once a month or after each period of use. Wheel lugs should be torqued to 120 ft./lbs.

Check tire pressure before each period of use. Recommended tire pressure is stamped on the sidewall of each tire.

Wheel Bearing Maintenance

Remove the hub and check consistency of the wheel bearing grease at least once a year. If the grease is not the same consistency of fresh grease (either dry and caked or too thin) repack the bearings with fresh grease. Retighten the spindle nut to 25 ft. lbs. then back off one notch to insert cotter pin.

Grease Fitting Lubrication

The spreader is designed to require minimal lubrication. However, the importance of sufficient and proper lubrication cannot be over emphasized as it is the best insurance against unnecessary repairs and will greatly increase the life and performance of the machine.

Lubricate all the grease fitting every six months or after 50 loads, whichever comes first. Be careful not to over grease the sealed bearings as too much grease could push out the seal and allow dust or debris to contaminate the bearing. One half of a stroke from a manual grease pump should be sufficient. Be sure to wipe all the dust and debris away from the grease fitting before greasing. If it is not clean you may force some dirt into the bearing.

Non sealed (friction) grease points will not be damaged by over greasing and should be kept visibly wet with grease.

MAINTENANCE

Apron Chain Maintenance

Apply chain lube to the apron chain after each period of use to lubricate and prohibit rust.

The apron chain may need to be tightened periodically. 75 to 90 percent of the lower chain strand should be lying on the chain guides. The apron chain can be adjusted by using the apron tensioner bolts (Figure 8) on the front of the spreader. Be sure to adjust both sides equally so the chain is pulling straight.

Over time, the chain will stretch. If the chain is fully adjusted so that it is as tight as possible and it is still too loose, completely relieve the tension and remove the one link or one link and one web slat as needed.

Hydraulic System Maintenance

The hydraulic system is virtually maintenance free since it is a fully self contained system. However, you may need to add oil to the reservoir to keep it at the proper level. You can see the oil level in the thermometer. Recommended oil level is shown below in Figure 7. Recommended oil type is universal tractor fluid (UTF) Required amount is approximately 60 gal.

The double motor drive gearbox (Figure 9) should be serviced once a year. Drain the oil and then fill up to the check plug with new #90 gear oil. Required amount is approximately 16 oz.

The oil filter on the main reservoir should be changed periodically. Use only a 10 micron filter designed for hydraulic oil.

Recommended
Oil Level

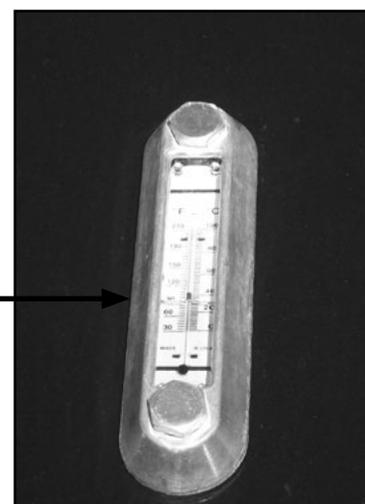


Figure 7



Figure 8

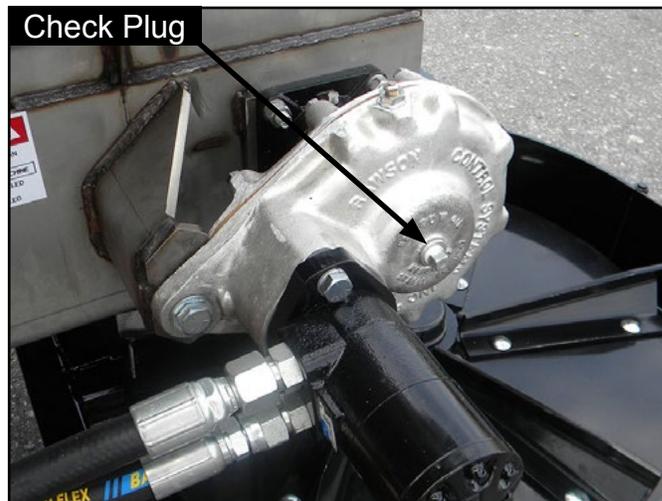


Figure 9

WARRANTY

Pequea Machine's Limited Warranty

Pequea Machine Company warrants to the original Purchaser all Machinery, Equipment, or Trailers manufactured by it, to be free from defects in material and workmanship under normal use and service. Its obligation under this Warranty shall be limited to replacement or repair of any parts thereof, free of charge to the original Purchaser, at its place of business, provided, however, that the part(s) to be replaced or repaired, shall within one (1) year after delivery to the original Purchaser, be demonstrated to be defective; which determination shall be made by the Company. The said components or parts must be returned through the Selling dealer or distributor directly to the Company with all transportation charges prepaid. Notice of defect shall be furnished in writing to the Seller and to the agent through whom the machinery was received, disclosing in full all known defects and failure in operation and use, and reasonable time shall be given to the Seller to remedy any such defects and failures. Failure to make such trial or give such notice shall be deemed an absolute acceptance by the Buyer and satisfaction in full of this Limited Warranty.

This Warranty does not cover, under any circumstances, any parts, components, or materials which, in the opinion of the Seller and Company, have been subjected to neglect, misuse, alteration, accident, or if repaired, with parts other than those manufactured by and obtained from Pequea Machine Company.

This Warranty does not cover components which are already covered by a separate Warranty provided by the supplier of said parts or components.

The Company's obligation under this Warranty is limited to repair or replacement, free of charge to the original Purchaser, of any part which in judgment of the Company is defective. This Warranty does not cover normal wear and tear.

THIS WARRANTY IS MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR USE AND PURPOSE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON ITS PART AND ANY IMPLIED WARRANTY. AND IT NEITHER ASSUMES NOR AUTHORIZES ANY OTHER LIABILITY IN CONNECTION WITH A SALE OF THIS MACHINE. THIS WARRANTY SHALL NOT APPLY TO THIS MACHINE OR TO ANY PART THEREOF WHICH HAS BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, ALTERATION, ABUSE, OR MISUSE.

The Company makes no Warranty whatsoever in respect to accessories or parts not supplied by the Company. The term "original Purchaser" as used in this warranty, shall be deemed that person for whom the Machine, Equipment, or Trailer is originally supplied. This Warranty shall apply only within the boundaries of the continental United States.

Under this Warranty, the Company cannot guarantee that existing conditions beyond its control will not affect its ability to obtain materials or manufacture necessary replacement parts.

No one is authorized to alter, modify, or change the terms of this Warranty in any manner.

The Company warrants the Construction of the equipment sold herein and will replace at its expense for a period of (1) year from the date hereof, any parts which prove defective as determined under the terms of this Limited Warranty.



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