



PIT MOUNT TRUCK LEVELER INSTALLATION & OPERATION MANUAL

Job Name _____

Job Number _____

Serial Numbers _____

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NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution and carefulness are factors which cannot be built into this, or any other product. These factors must be supplied by the person/s caring for an operating the unit.

Systems, Inc. guarantees the materials, components and workmanship in your truck leveler to be of the best quality and to be free from defects in material and workmanship for a period of one (1) year from date of shipment. Any defective material, components or parts will be exchanged at our factory with replacement parts, shipped to you prepaid, if found to be defective from other than improper installation, operating contrary to instructions or beyond rated load capacity, abuse, careless or negligent use, or failure to maintain the unit as recommended by company maintenance schedules and guides.

There are no warranties, either expressed or implied, including any implied warranties of merchantability of fitness for a particular purpose which shall extend beyond the warranty periods indicated above. No responsibility is assumed for any incidental or consequential damages except for those allowed under existing state law. This limited warranty is valid only if unit is unaltered or unmodified from its original condition as installed or as delivered at or from the factory.

The company reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used herein.

INSTALLATION

- I. DRAWINGS INCLUDED IN PACKET
 - A. TRUCK LEVELER
 - 1. PLPHBOT PIT DETAIL
 - 2. PL18230 INSTALLATION GUIDE
 - 3. 9080 ELECTRICAL DRAWING
 - 4. HSPTL HYDRAULIC SCHEMATIC
 - 5. 8585-0038 HYDRAULIC COMPONENTS
 - 6. POWERPACK SPECIFICATION SHEETS

- II. RECEIVING
 - A. Verify that the received parts match the packing slip. Any missing or damaged items should be reported to the freight carrier.

- III. INSTALLATION
 - A. Locate and weld pivot channel weldment as shown on PL18230/
 - B. Locate and anchor cylinder mounting weldments using 5/8" x 5 anchors (2) as shown on PL18230
 - C. Anchor hydraulic power unit on pit floor between cylinder locations (as shown).
 - D. Install hoist cylinders in mounting weldment and secure with bolted tie-bars.
 - E. Connect hose assemblies from cylinders to "T" on top of pump/valve assembly.
 - F. Using four (4) lift points, position platform so that:
 - 1. Platform pivot points (4) nest securely in slots of channel weldments.
 - 2. Hydraulic cylinder rod ends nest securely in trunnion slots under platform.
 - G. Install electrical control box.
 - H. Connect field wiring as indicated on 9080.
 - I. Test Unit.
 - J. Attach toe guards to platform.

PREVENTIVE MAINTENANCE

EVERY WEEK

1. Inspect unit to be free of debris and other foreign material which might hamper operation.
2. Run leveler through a full cycle to check operation.

EVERY TWO MONTHS

1. Barricade area to prevent unauthorized use of equipment while servicing.
2. After checking Powerlift in raised position, be sure power supply circuit is opened at main service box or circuit breaker. Failure to disconnect power supply could result in personal injury or death.
3. Open service panel doors in deck and enter pit.
4. Using a good grade of lubricating oil, place a few drops on the platform pivot pins.
5. Once a year or 4,000 hours, the hydraulic fluid and return filter (10 micron) should be replaced.
 - A. Replacement of oil - the reservoir (10 gallon) should be filled to the midpoint on the oil level indicator with a high grade hydraulic oil. Additional oil may be needed after start-up. (NOTE: the oil must always cover the pump intake to prevent air entering the system. Maximum operating temperature is 140 degrees F).
6. Recommended hydraulic fluids. To assure normal operation of the unit, the following hydraulic fluids are recommended:
 - A. Aero Shell Fluid #4 Code #60421 by Shell Oil Co.
 - B. Mobil Aero HFA Mil-H5606A by Mobil Oil Co.
 - C. Texaco Type BB
 - D. Filmite No. 530
 - E. Exxon "Univis J13"

Use of hydraulic fluids with equivalent specifications to those listed above are acceptable. Use of fluids that do not have equivalent specifications will result in abnormal operation of the unit and possible voiding of the warranty.

7. Reconnect power.
8. Run unit through full cycle to check operation.
9. Close service panels.
10. Return unit to service.

OPERATING INSTRUCTIONS

I. RAISING THE LEVELER:

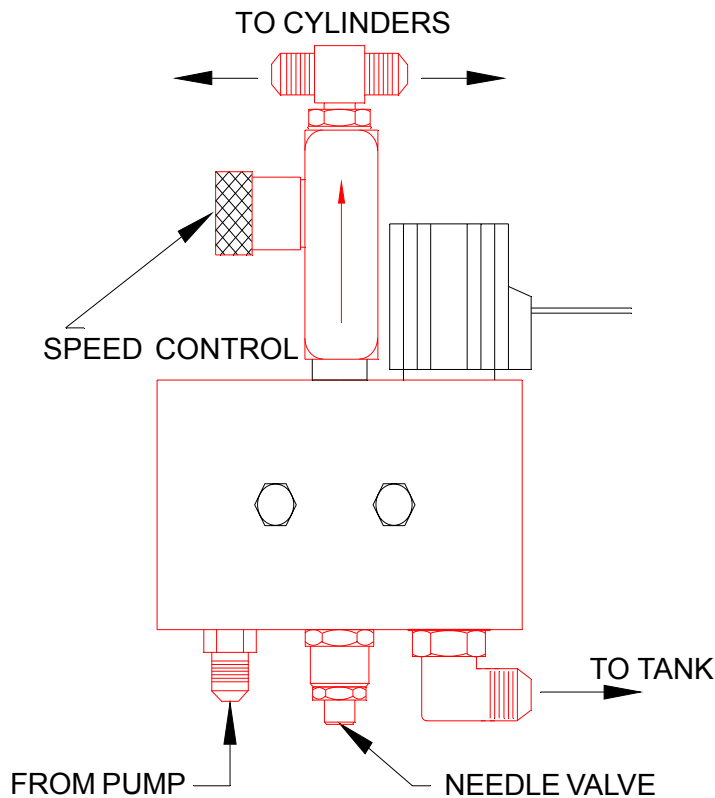
- A. Press the "RAISE" button with a constant pressure until the leveler reaches the proper height. The leveler will remain in this position until the leveler is lowered.

II. LOWERING THE LEVELER:

- A. Press the "LOWER" button with a constant pressure until the leveler reaches the stored position.

III. SPECIAL NOTES OF INTEREST:

- A. **SPEED CONTROL** - The lowering speed of the leveler can be increased by turning the down speed control valve counter clockwise (shown in diagram below), although this should have been preset at the factory. The lowering speed can also be decreased by turning the down speed control valve clockwise. The speed control adjustment will have no effect on the upward travel speed of the leveler.
- B. **POWER FAILURE** - Should the power supply be disrupted while the leveler is raised up the unit can be lowered to the stored position by opening the needle valve (shown) with a 1/4" Allen wrench. The needle valve must be closed again when the leveler is in the stored position to assure proper operation of the unit once the power is restored. **DO NOT REMOVE THE ENTIRE NEEDLE VALVE CARTRIDGE!**



TROUBLE SHOOTING - ELECTRICAL

Designed by Poweramp to be efficient and dependable, your Powerlift should seldom, if ever, need repairs. This is especially true if you practice the preventive maintenance program. For your use, a listing of possible operational malfunctions, possible causes and their probable remedies is as follows:

TROUBLE	POSSIBLE CAUSE	PROBABLE REMEDY
1. With push-button pressed, motor does not run; leveler does not move.	1. No power	1. Check voltage input at control.
	OR blown fuses or overload open.	Check fuses, replace if necessary with correct type. Reset overload.
2. Leveler will not raise or lower, three phase motor running or humming.	2. Phase reversed, motor running	2. Reverse any two legs at disconnect box.
	OR motor single-phasing (motor humming).	Check fuses, wiring and overload reset.

SYSTEMS, INC. WARRANTY

Model Truck Leveler

Systems, Inc., guarantees the materials, components, and workmanship in your Poweramp Truck Leveler to be of the highest quality and to be free of defects in material and workmanship for a full One (1) Year Base Warranty on all components. The Base Warranty includes replacement parts, labor, and freight.

Systems, Inc. further guarantees the hydraulic components on all Poweramp Truck Leveler for a period of one (1) year from date of shipment. The electrical components carry a one (1) year warranty.

In the event of any defect covered by this guarantee, Systems, Inc. will remedy said defect by repairing or replacing all defective parts, bearing all of the costs for parts, labor and transportation.

All guarantee claims will be settled on a timely basis when defects are found to be from other than improper installation, operating contrary to instructions or beyond rated load capacities, abuse, careless or negligent use, or failure to maintain the unit as recommended by the owner's manual.

There are no guarantees, either expressed or implied, including any implied guarantees of merchantability or fitness for a particular purpose which shall extend beyond the guarantee periods indicated above. This guarantee is valid only if the unit(s) is unaltered from original condition as delivered from the factory and a survey is completed by a Poweramp representative.



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