



SURFACE MOUNT TRUCK LEVELER INSTALLATION & OPERATION MANUAL

Job Number _____
Job Name _____
Serial Numbers _____

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INSTALLATION

- I. DRAWINGS INCLUDED IN PACKET
 - A. TRUCK LEVELER
 - 1. 0525-0060 - HYDRAULIC CYLINDER ASSEMBLY
 - 2. 29199 HCO - HYDRAULIC SCHEMATIC & COMPONENTS
 - 3. 29199-350 - PIT DETAILS
 - 4. SMTLIGAF - INSTALLATION GUIDE
 - 5. 9-29199-B - LOGIC CONTROL ASSEMBLY
 - 6. 9-29199-E - LADDER DIAGRAM
 - 7. 9-29199-F - FIELD WIRING
 - 8. 9-29199-G - INTERCONNECT DIAGRAM
 - 9. 9-29199-K - INTERLOCK CONTROL

- II. RECEIVING
 - A. When moving and storing truck leveler platforms, be aware of components hanging below bottom. Damage can occur by fork or by setting units on ground without 8" shim blocks.
 - B. Verify that the received parts match the packing slip.

- III. INSTALLATION
 - A. Weld trunnion hinge weldment to imbed channel as shown in drawing SMTLIGAF.
 - B. Position truck leveler in front of dock as shown on SMTLIGAF by lifting at the four corners of the platform.
 - C. While lifting the free end, position the cylinder base weldments shown on SMTLIGAF so that the hydraulic cylinder is vertical when the leveler is in the lowest position. Mark the hole locations, lift the truck leveler up, and secure each base with three 5/8" concrete anchors.
 - D. Install the hydraulic power unit in an appropriate place with enough room for maintenance, ventilation, and proper noise reduction.
 - E. Connect hoses from hydraulic power unit to the truck levelers through the PVC pipes.
 - F. Install electrical control boxes.
 - G. Connect field wiring as indicated on electrical diagrams.
 - H. Test Unit.
 - I. Attach toe guards to drive.

- IV. MAINTENANCE
 - A. Once a year or 4,000 hours, the hydraulic fluid and return filter (10 micron) should be replaced.
 - 1. 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).

INSTALLATION

B. Recommended hydraulic fluids. To assure normal operation of the unit, the following hydraulic fluids are recommended:

1. Aero Shell Fluid #4 Code #60421 by Shell Oil Co.
2. Mobil Aero HFA Mil-H5606A by Mobil Oil Co.
3. Texaco Type BB
4. Filmite No. 530
5. 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.

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 drawing 29199-HC0), 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.
correct	OR blown fuses or overload open.	Check fuses, replace if necessary with 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 disconnect box.
	OR motor single-phasing (motor humming).	Check fuses, wiring and overload reset.

SYSTEMS, INC. WARRANTY

SURFACE MOUNT 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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