



PENTALIFT EQUIPMENT CORPORATION

Easy Load Hydraulic Conversion Kit

REVITALIZE MECHANICAL DOCK LEVELERS THROUGH HYDRAULIC OPERATION AND
MAKE YOUR SHIPPING / RECEIVING AREAS SAFER AND MORE EFFICIENT

Pentalift Equipment Corporation, a leading manufacturer of loading dock equipment, offers the Easy Load Hydraulic Conversion Kit. The Easy Load Hydraulic Conversion Kit improves safety and efficiency at the loading dock. The Easy Load Hydraulic Conversion Kit allows customers that have Mechanically activated or power assisted dock levelers, which are in good structural condition, to upgrade the levelers to fully hydraulic operation. The upgrade costs considerably less than it would cost to invest in a new Hydraulic leveler. The Easy Load Hydraulic Conversion Kit is designed to convert all makes of Mechanical and power assisted dock levelers to push button operation. The Easy Load Hydraulic Conversion Kit further increases safety by providing hydraulic fallsafe. The triangulated lifting arm design, of the Easy Load Hydraulic Conversion Kit, is a significant and unique improvement in comparison to other conversion kit designs. The unique feature of the Easy Load Hydraulic Conversion Kit is that it greatly reduces the forces applied to the dock leveler.

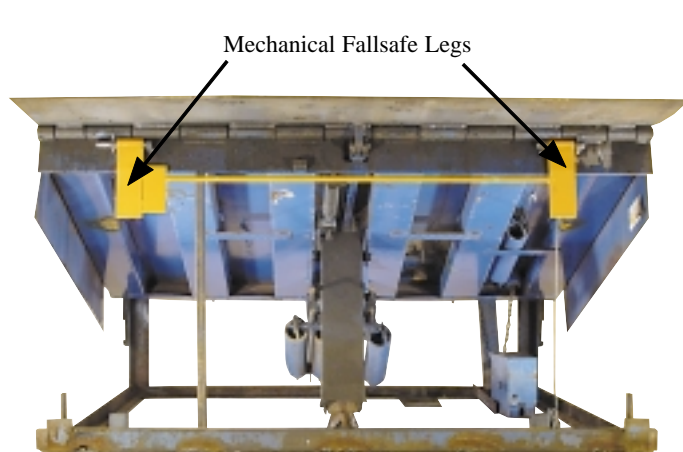


Fig. 1

Before:

Use almost any make and model of mechanical or power assisted leveler. Problems with the mechanical activating mechanisms, including but not limited to: holdowns, lift spring mechanisms and lip activating mechanisms. There are also concerns caused by Mechanical Fallsafe Legs (*Fig. 1*) stumping out. This results in repetitive adjustments and costly down time. Operation and safety are compromised. However, the structural portion of the dock leveler is in good shape.

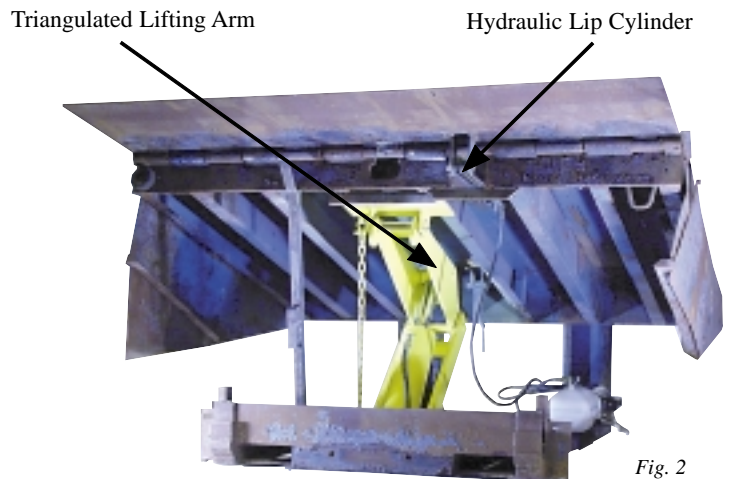


Fig. 2

After:

Dock leveler is converted to fully Hydraulic operation of Deck and Lip assemblies. A simple push of a button activates the dock leveler. The triangulated lifting arm portion of the conversion kit is shown in yellow (*Fig. 2*). Reliability, safety and efficiency of the dock leveler are immediately increased. If the mechanical or power assisted dock leveler was equipped with Mechanical Fallsafe Legs they will be removed and “Stump-Out” will no longer be a concern.

The Pentalift Easy Load Hydraulic Conversion Kit offers the following Standard Features:

- Simple wall mounted push button operation
- Fully hydraulic activation of deck and lip
- Functions with all mechanical dock leveler designs
- Easy to install
- Reduces maintenance costs and down time
- Increases productivity and safety at the loading dock

The Easy Load Hydraulic Conversion Kit Maximizes Reliability, Safety and the Fallsafe performance at the Loading Dock.



Eliminate stump-out common on dock levelers equipped with Mechanical Fallsafe Legs. Stump-out occurs when lift truck drives across the dock leveler and the weight of the lift truck causes the truck/trailer bed to lower to the point where the Mechanical Fallsafe Legs contact their stops. As a result, the lip of the leveler creates a steep incline or obstruction when the lift truck attempts to back out of the truck/trailer. This steep incline causes the backing up lift truck to either be severely jarred or stopped causing possible injury to the operator and/or damage to product, the dock leveler, and the lift truck. With the installation of the Easy Load Hydraulic Conversion Kit Hydraulic Fallsafe replaces the Mechanical Fallsafe Legs. Hydraulic Fallsafe incorporates a flow and pressure sensitive velocity fuse. It only activates when it is required. Stump-out and the safety and maintenance concerns it creates are eliminated.

Other designs of hydraulic conversion kits offer the hydraulic lift cylinder pushing on an angle. The angulation of the cylinder means that significant forces are transmitted to the structure of the dock leveler during normal use and in a fallsafe condition. In most cases the conversion kit is installed into a mechanical dock leveler, which was never designed for the forces that the other manufacturer's conversion kits will generate. As a result safety and reliability of the loading dock is compromised.

The Pentalift Easy Load Hydraulic Conversion Kit's Triangulated Lifting Mechanism provides superior fallsafe protection. In a fallsafe situation the forces that are generated are 90° to the pit floor. Minimal force is placed on the rear frame or rear hinge of the dock leveler. During normal operation of the dock leveler, forces are minimized as well. The lift cylinder is plumbed in "regeneration" mode. The dock leveler cycle times are reduced. In the event of a fallsafe situation, the cylinder acts as a large cylinder increasing fallsafe capacity and reducing stresses inside the cylinder. Due to the elimination of stump-out the dock leveler deck and lip follow the truck/trailer bed throughout the entire operating range of the dock leveler, without being impeded. Additionally, mechanical dock leveler components such as: platform, front header, springs, holdown, lip extension mechanism, safety leg linkage, lip hinge and rear hinge that sustain damage as a result of stump-out are either eliminated or no longer subjected to damage.

Consult a Pentalift Sales Representative for additional or equipment recommendations.

Note: Some photos may reflect products with optional features. All Pentalift Equipment Corporation products are subject to design improvement through modification without notice.

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