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> Gravity Tilt Deck Hydraulic Kit with Cylinder Assembly for Trailers (GTD-310-BHL-K) - User Manual

Primary Mover GTD-310-BHL-K

Gravity Tilt Deck Hydraulic Kit with Cylinder Assembly for Trailers

Model: GTD-310-BHL-K

Brand: Primary Mover

INTRODUCTION

This manual provides essential information for the safe and effective use of your Primary Mover Gravity Tilt Deck Hydraulic Kit. Please read all instructions carefully before installation and operation to ensure proper function and longevity of the product.

The tilt deck hydraulic kit is designed to simplify the loading and unloading of various equipment, including trucks and tractors, by eliminating the need for heavy ramps. This system allows for easy drive-on access to your trailer.

PRODUCT OVERVIEW

The Primary Mover GTD-310-BHL-K Gravity Tilt Deck Hydraulic Kit is a comprehensive solution for converting standard trailers into convenient tilt-deck units. This kit enhances efficiency and safety during equipment transport.

Key benefits include:

- Eliminates the need for heavy and cumbersome loading ramps.
- Facilitates quick and easy loading and unloading of vehicles and machinery.
- Designed for durability and reliable performance in demanding applications.

COMPONENTS

The Gravity Tilt Deck Hydraulic Kit comes complete with all necessary components for installation and operation. Below is an illustration of the kit's contents:

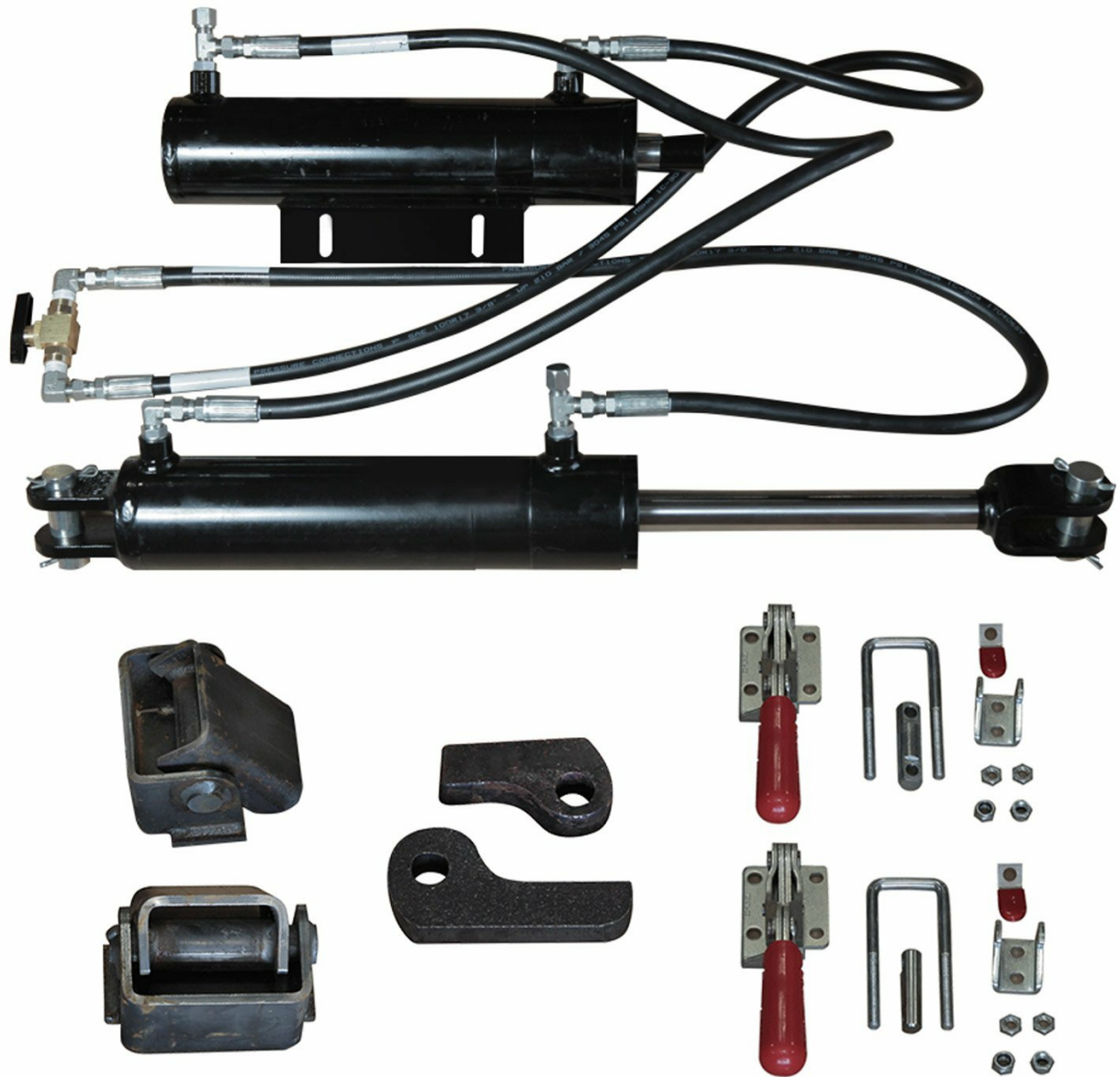


Image: Overview of the Primary Mover Gravity Tilt Deck Hydraulic Kit. The image displays the main hydraulic cylinder assembly with hoses and fittings at the top, and below it, various mounting hardware including two cylinder supports, two toggle clamps, and two hinges.

The kit includes:

- Hydraulic hoses and cylinders, pre-assembled and oiled.
- Hydraulic fittings for secure connections.
- Two cylinder supports for stable mounting.
- Two toggle clamps for securing the tilt deck.
- Two hinges for the pivot mechanism.
- Safety signs for proper operation and awareness.

SETUP AND INSTALLATION

Installation of the hydraulic tilt deck kit requires mechanical aptitude and appropriate tools. It is recommended that installation be performed by qualified personnel.

1. **Preparation:** Ensure the trailer is on a level surface, secured, and the area is clear of obstructions. Gather all components and necessary tools.
2. **Hinge Installation:** Mount the two hinges to the trailer frame and the tilt deck section according to your trailer's design, ensuring smooth pivot action.
3. **Cylinder Support Mounting:** Securely attach the two cylinder supports to the trailer frame in the designated locations, ensuring they are aligned to support the hydraulic cylinders.
4. **Hydraulic Cylinder Assembly:** Connect the pre-assembled hydraulic cylinders to the tilt deck and the cylinder supports. Ensure all fittings are tightened to prevent leaks.
5. **Toggle Clamp Installation:** Install the two toggle clamps to secure the tilt deck in its closed, transport position.
6. **Fluid Check:** Verify hydraulic fluid levels and bleed any air from the system as per standard hydraulic practices.
7. **Safety Signage:** Affix all provided safety signs in visible locations on the trailer.
8. **Initial Test:** Carefully test the tilt mechanism without load to ensure proper operation and identify any issues before use.

Note: Specific mounting points and procedures may vary based on trailer design. Consult a professional if unsure.

OPERATING INSTRUCTIONS

Operating the tilt deck hydraulic kit is straightforward once installed. Always ensure the area around the trailer is clear before tilting the deck.

1. **To Tilt Deck Up:** Release the toggle clamps. Activate the hydraulic system to extend the cylinder, causing the deck to tilt upwards. Ensure the deck reaches its full tilt position for safe loading.
2. **Loading/Unloading:** Drive the equipment onto or off the tilted deck. Ensure the equipment is centered and within the trailer's weight capacity.
3. **To Lower Deck:** Once loading/unloading is complete, activate the hydraulic system to retract the cylinder, slowly lowering the deck back to its horizontal position.
4. **Secure Deck:** Once the deck is fully lowered and flat, engage the toggle clamps to secure it firmly in place for transport.

Safety Precautions:

- Never exceed the trailer's or the kit's maximum load capacity.
- Keep hands and feet clear of pinch points during tilting operations.
- Always secure the deck with toggle clamps before transport.
- Do not operate the system if any components appear damaged or are leaking.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your hydraulic tilt deck kit.

- **Hydraulic Fluid:** Periodically check the hydraulic fluid level and top up as needed with the recommended type of hydraulic fluid. Inspect for any leaks around fittings and hoses.
- **Cylinders:** Keep cylinder rods clean and free of dirt and debris. Inspect for any signs of damage or scoring.

- **Hoses and Fittings:** Inspect hydraulic hoses for cracks, abrasions, or bulges. Ensure all fittings are tight and free from leaks.
- **Hinges and Clamps:** Lubricate hinges and toggle clamps regularly to ensure smooth operation. Check for wear and tear on these components.
- **Structural Integrity:** Periodically inspect all mounting points, welds, and structural components for signs of fatigue, corrosion, or damage.

TROUBLESHOOTING

This section addresses common issues you might encounter with your hydraulic tilt deck kit.

Problem	Possible Cause	Solution
Deck does not tilt or tilts slowly.	Low hydraulic fluid level; Air in the hydraulic system; Obstructed movement; Damaged pump or cylinder.	Check and refill hydraulic fluid; Bleed the hydraulic system; Inspect for obstructions; Consult a hydraulic specialist.
Hydraulic fluid leaks.	Loose fittings; Damaged hoses or seals; Cracked cylinder.	Tighten all fittings; Replace damaged hoses or seals; Replace damaged cylinder (professional repair recommended).
Deck does not stay tilted.	Internal cylinder seal failure; Valve malfunction.	Consult a hydraulic specialist for cylinder or valve repair/replacement.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Primary Mover customer support.

SPECIFICATIONS

Feature	Detail
Brand	Primary Mover
Model	GTD-310-BHL-K
Product Dimensions	36 x 12 x 12 inches
Item Weight	120 Pounds
Load Capacity	2000 Pounds
Color	Black
Manufacturer	Primary Mover
Date First Available	June 21, 2018

WARRANTY AND SUPPORT

Primary Mover stands behind the quality of its products. This product is typically covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Primary Mover directly.

Return Policy: This product is eligible for a return within 30 days of purchase for a refund or replacement, subject to the seller's return policy.

Protection Plans: Extended protection plans may be available for purchase to provide additional coverage beyond the standard warranty period. Options may include 3-Year, 4-Year, or monthly Complete Protect plans.

For technical assistance, troubleshooting, or warranty claims, please contact Primary Mover customer support through their official website or the retailer where the product was purchased.

Visit the [Primary Mover Store on Amazon](#) for more information.