

KEEP FOR FUTURE REFERENCE

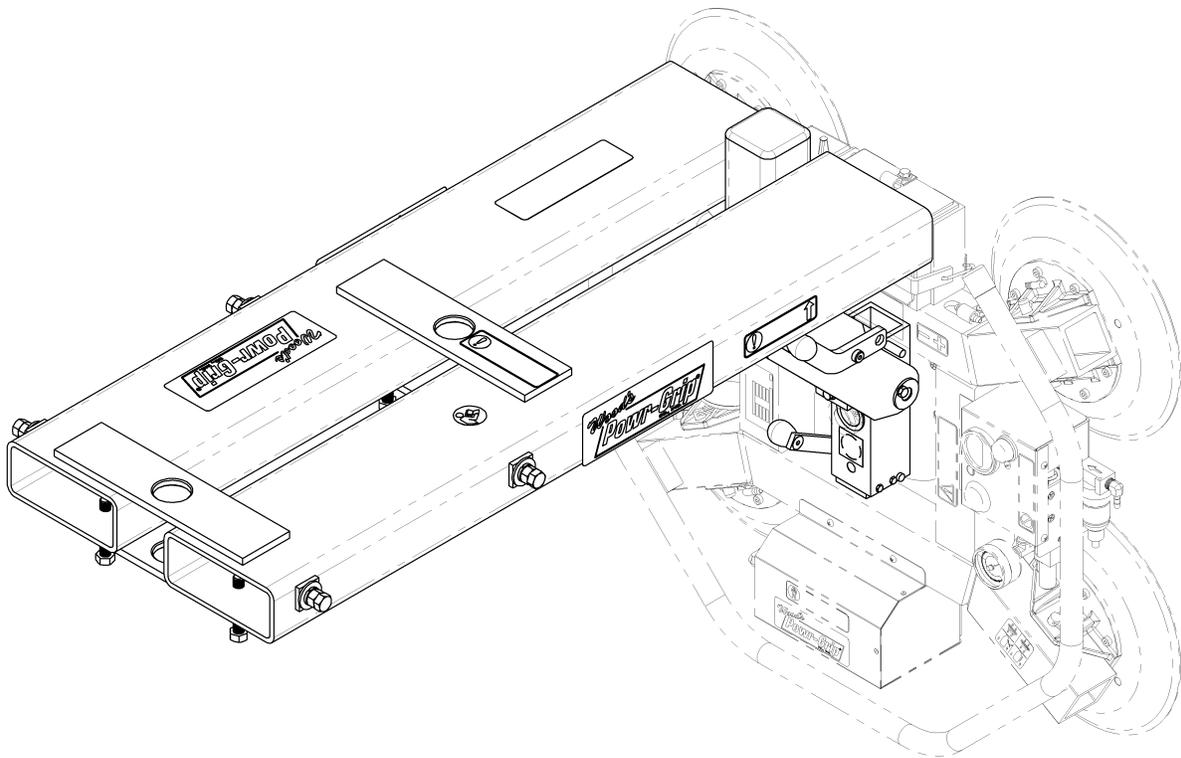


*P.O. Box 368 – 908 West Main
Laurel, MT USA 59044
phone 800-548-7341
phone 406-628-8231
fax 406-628-8354*

INSTRUCTIONS

International Version

STOCK NUMBER: 95722



MRT FORKLIFT ADAPTER



***READ ALL INSTRUCTIONS AND WARNINGS
BEFORE USING THIS PRODUCT***



DESIGNED FOR THE MATERIALS HANDLING PROFESSIONAL

SPECIFICATIONS

Stock Number: 95722

Description: This option allows a Wood's Powr-Grip model MRT4-DC vacuum lifter to be used in applications where a forklift is preferred for supplying the upward and downward movement of the load, such as installation of windows or cladding under eaves of buildings or commercial, indoor applications, where using a crane is not possible.

Compatible Fork Dimensions:

thickness = 1½" to 2¼" [38-57 mm]

width = 4" to 6" [10-15 cm]

inside spread = 4" [10 cm]

Weight Increase: 130 lbs [59 kg] when Forklift Adapter is installed

Note: Make sure to add the weight of all options to the Lifter Weight when you are selecting appropriate hoisting equipment (see ASSEMBLY in lifter's instruction manual).

Max. Load Capacity: 700 lbs [320 kg]*



*** WARNING: Load Capacity of option cannot exceed lifter rating; see SPECIFICATIONS in MRT4-DC lifter's instruction manual.**

WARNINGS



Powr-Grip is pleased to offer the most reliable materials handling products available. Despite the high degree of security provided by the Forklift Adapter, certain precautions must be observed to protect the operator and others.



Never use a Forklift Adapter that is damaged, malfunctioning, or missing parts.

Never exceed the Maximum Load Capacity listed for the Forklift Adapter (see SPECIFICATIONS).

Always install the Forklift Adapter in the prescribed orientation (see INSTALLATION: INSTALLING THE ADAPTED LIFTER ON A FORKLIFT).

Never use anything except a forklift to raise or lower the lifter and load when the Forklift Adapter is installed on the lifter. Reinstall the standard lift bar if a hoist is to be used (see INSTALLATION: INSTALLING THE FORKLIFT ADAPTER ON A LIFTER).

Always make sure other personnel are clear of the lifter and load while they are being moved and/or lifted by the forklift.

Never attempt to manipulate the load in any manner while the forklift is moving.

Always remember that modifications to the Forklift Adapter may compromise safety. Wood's Powr-Grip cannot be responsible for the safety of a Forklift Adapter that has been modified by the customer. For consultation, contact Wood's Powr-Grip (see LIMITED WARRANTY).

INSTALLATION

INSTALLING THE FORKLIFT ADAPTER ON A LIFTER

In order to be used successfully, the Forklift Adapter must be installed correctly on a Wood's Powr-Grip model MRT4-DC vacuum lifter. If the Forklift Adapter is already installed as directed below, proceed to the next section.

- 1) Remove the lift bar/center section assembly (shown in illustration) from the lifter as follows: Make sure the pad frame is supported independently. Identify the rotation pin (not shown), which connects the center section (4) to the pad frame. Remove the locking collar from the end of the rotation pin and slide the center section off the pin.
- 2) Remove the lift bar (8) from the center section (4) as follows: Identify the tilt pin (2), which connects the lift bar to the center section. Remove the cotter pin (1) from one end of the tilt pin, and remove the hex head bolt (3) and its washer from the other end. This will enable you to slide the tilt pin out from the center section.

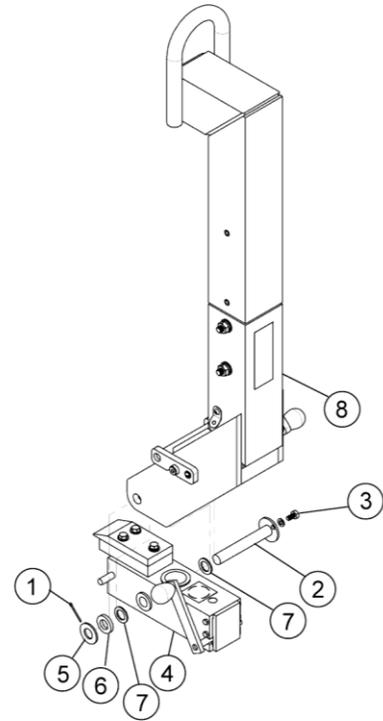
Note: Prior to removing the tilt pin from the center section, carefully take note of the placement and order of all associated hardware, so that you will know how to reinstall the tilt pin.

Remove the tilt pin and the lift bar. Be sure to lay out the outer flat washer (5), the foam washer (6) and the machine bushings (7) in the appropriate order for reassembly.

- 3) Secure the Forklift Adapter in place of the lift bar (8) on the lifter as follows: First reverse the procedure in step 2 to install the center section (4) on the Forklift Adapter. Be sure to install the tilt pin (2) and all the associated hardware in the same order as originally installed. In particular, the machine bushings (7) must go *inside* the plates of the Forklift Adapter. Make sure that the hex head bolt (3) and a new cotter pin hold the tilt pin (2) securely in place.

Note: Clean hardware and replace any worn-out hardware, as necessary. In particular, ***the cotter pin must be replaced***, as it is only intended for one-time use (see REPLACEMENT PARTS LIST).

Next, reverse the procedure in step 1 to reconnect the center section to the pad frame. Make sure the locking collar is tightened securely on the rotation pin.



INSTALLING THE ADAPTED LIFTER ON A FORKLIFT

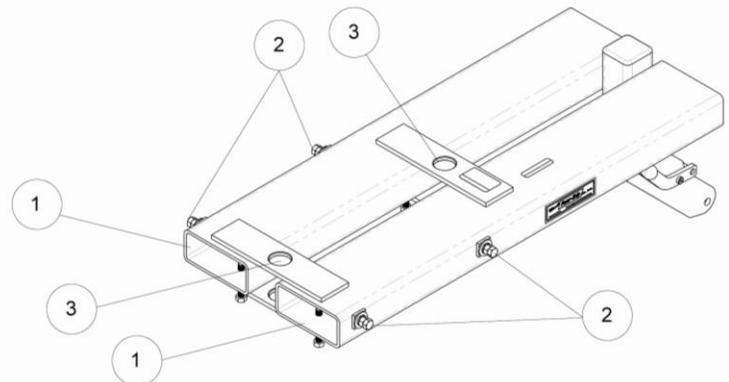
Follow the directions for vacuum lifter ASSEMBLY in the MRT4-DC lifter's instruction manual, but instead of suspending the lifter from a crane or other hoisting device, modify the procedure as follows:

- 1) Select a forklift which has the capacity and stability required for use with the vacuum lifter:
When the lifter is installed on the forklift, it places the load's center of gravity further away from the forklift than a load which rests directly on the forks. ***If the operator fails to take this into consideration, using the lifter could overload the forklift and cause it to tip over.*** Use the following criteria to determine whether a particular forklift could be used:

Calculate the combined weight of the lifter, its options and its maximum load (see SPECIFICATIONS: Lifter Weight and Maximum Load Capacity in MRT4-DC lifter's instruction manual, as well as SPECIFICATIONS: Weight Increase preceding). The forklift must have sufficient load capacity for this combined weight when the load's center of gravity is located 8 3/4" [222 mm] outward from the fork tips or 50 3/4" [1289 mm] outward from the fork stops, whichever places the load at a greater distance from the forklift's front wheels.

Note: Any application of the lifter and the Forklift Adapter must conform to all statutory or regulatory standards that relate to the forklift when used in its geographical location (eg, OSHA Standard 1910.178 "Powered industrial trucks" for forklifts used in the USA). Consult the forklift instructions as needed for further information about its use.

- 2) Insert the forks into the fork tubes (1) of the Forklift Adapter: The forks must be inserted a minimum of 30" [76 cm] for the Forklift Adapter to be mounted correctly. The forks should fit inside the tubes as far as possible but must not extend more than 1" [2.5 cm] beyond the end of the tubes. The Forklift Adapter must be oriented as shown in the illustration. ***Using the Forklift Adapter any other way can endanger the operator and damage the lifter or load.***



- 3) Use the fork securing screws (2) and lock nuts to secure the Forklift Adapter to the forks:
First tighten all 8 screws down snugly and then retighten each one to 20-25 ft-lbs [27-34 N-m] of torque. While holding each fork securing screw to prevent it from turning, tighten the corresponding lock nut against the fork tube [to 25-30 ft-lbs [34-41 N-m] of torque) to secure the screw in place.
- 4) Use a safety strap or chain to secure the Forklift Adapter to the forks, in case it should come loose for any reason: Select a safety strap or chain rated to at least 500 lbs [227 kg] tensile strength, and run it through both of the back or both of the middle safety strap brackets (3). Then attach the strap or chain to the forks so as to prevent the Forklift Adapter from coming off under any circumstances. ***This is a mandatory safety procedure.***

⚠ WARNING: Never use adapted lifter with forklift unless safety strap is installed.

- 5) Once the adapted MRT4-DC lifter is securely attached to the forklift, complete the ASSEMBLY as directed in the lifter's instruction manual. Remember to perform Operational and Load Tests for the lifter as directed in MAINTENANCE: TESTING SCHEDULE of the lifter's instruction manual.

OPERATION

Make sure that the adapted MRT4-DC vacuum lifter is correctly installed on an appropriate forklift, as directed in the preceding INSTALLATION section. When the lifter is installed on a forklift, it should be able to tilt, rotate, and attach to or release loads just like a standard lifter. Operate the lifter as directed in the OPERATION section of the lifter's instruction manual, but substitute appropriate forklift functions whenever the lifter's instruction manual call for the use of a crane or hoisting equipment. Consult the forklift instructions as needed for further information about its use.

Note: In addition to the WARNINGS stated in the preceding section and the MRT4-DC lifter's instruction manual, the operator must follow all statutory or regulatory requirements that relate to the forklift when used in its geographical location (eg, OSHA Standard 1910.178 "Powered industrial trucks" for forklifts used in the USA).

MAINTENANCE

When performing inspections and tests of the lifter as directed in the MAINTENANCE section of the MRT4-DC lifter's instruction manual, be sure to include all relevant parts of the Forklift Adapter whenever applicable.

REPLACEMENT PARTS LIST

| Stock No. | Description | Qty. |
|------------------|---|-------------|
| 13200 | 3/32" x 1" Cotter Pin | 1 |
| 12826MM | Flat Washer - 1/2" | 8 |
| 12760 | Lock Washer - 1/2" | 8 |
| 11124 | Hex Nut - 1/2-13 Thread | 8 |
| 10858AM | Bolt - 1/2-13 Thread x 4½" - Grade 5 - Full-Thread Type (aka fork securing screw) | 4 |
| 10850AM | Bolt - 1/2-13 Thread x 3½" - Grade 5 - Full-Thread Type (aka fork securing screw) | 2 |
| 10846AM | Bolt - 1/2-13 Thread x 3" - Grade 5 - Full-Thread Type (aka fork securing screw) | 2 |

***SERVICE ONLY WITH IDENTICAL REPLACEMENT PARTS
SUPPLIED BY OR APPROVED BY WOOD'S POWR-GRIP CO., INC.***

LIMITED WARRANTY

Powr-Grip products are carefully constructed, thoroughly inspected at various stages of production, and individually tested. They are warranted to be free from defects in workmanship and materials for a period of one year from the date of purchase.

If a problem develops during the warranty period, follow the instructions hereafter to obtain warranty service. If inspection shows that the problem is due to defective workmanship or materials, Powr-Grip will repair the product without charge.

WARRANTY DOES NOT APPLY WHEN:

Modifications have been made to the product after leaving the factory.

Rubber portions have been cut or scratched during use.

Repairs are required due to abnormal wear and tear.

The product has been damaged, misused, or neglected.

If a problem is not covered under warranty, Powr-Grip will notify the customer of costs prior to repair. If the customer agrees to pay all repair costs and to receive the repaired product on a C.O.D. basis, Powr-Grip then will proceed with repairs.

TO OBTAIN REPAIRS OR WARRANTY SERVICE

For purchases in *North America*:

Contact the Technical Service Department at Wood's Powr-Grip Co. When factory service is required, ship the complete product--prepaid--along with your name, address and phone number to the street address hereafter.

For purchases in *all other localities*:

Contact your dealer or the Technical Service Department at Wood's Powr-Grip Co. for assistance.

Wood's Powr-Grip Co., Inc.
908 West Main St. / P.O. Box 368
Laurel, MT USA 59044

phone 800-548-7341

phone 406-628-8231

fax 406-628-83

