INTENDED FOR USE BY PROFESSIONAL EQUIPMENT OPERATORS

OPERATING INSTRUCTIONS

PREAD AND UNDERSTAND BEFORE OPERATING THIS EQUIPMENT

APPLICABLE TO SERIAL NUMBERS 20211286 AND LATER. FOR EARLIER NUMBERS, SEARCH WPG'S ARCHIVE.



908 W. Main • P.O. Box 368 Laurel, MT USA 59044 (1) 800-548-7341 (1) 406-628-8231 www.wpg.com

00 LBS [135 KG

QUADRA-TILT LIFTER 300 WITH FIXED 2-PAD FRAME, AIR-POWERED

Model number: MTA2HV11AIR

Original Instructions © Wood's Powr-Grip Co., Inc.

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SPECIFICATIONS

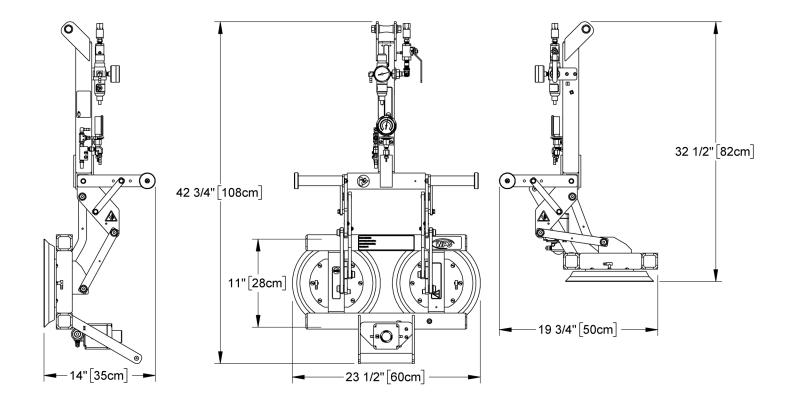
Product Description		
Model Number	MTA2HV11AIR	
Vacuum Pads (two, standard rubber ¹)	10"125 cml nom diameter linned (Model HV11)	
Maximum Pad Spread (to outer edges)		
Maximum Load Capacity ²	Per pad: 150 lbs [68 kg] Total: 300 lbs [135 kg]	
Lifter (LBS) (MG) Lifter Weight	45 lbs [21 kg]	
Power Source	Compressed air, 80-150 psi [550-1035 kPa] line pressure, 2 SCFM [57 liters/minute] @ 80 psi [550 kPa]	
Tilt Capability	Manual, 90°, with four-bar tilt linkage that provides mechanical advantage	
Product Options	See separate instructions about options.	
Operating Elevation	Up to 6,000' [1,828 m]	
Operating Temperatures	32° – 104° F [0° – 40° C]	
Service Life	16,000 lifting cycles, when used and maintained as intended ³	
ASME Standard BTH-1	Design Category "B", Service Class "0"	
Troubleshooting Guide	TST-016_GENERIC_LEAK_TEST_rev_2014-086	

1..... Available with other rubber compounds for special purposes.

2...... The Maximum Load Capacity is rated at a vacuum of 16" Hg [-54 kPa] on clean, smooth, nonporous flat surfaces with a friction coefficient of 1. Pad compound, load rigidity, strength, surface conditions, overhang, angle, center of gravity and temperature can also affect the lifting capacity. A "qualified person" should evaluate the effective lifting capacity for each use (see definition under "Rated Load Test").

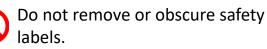
3..... Vacuum pads, filter elements and other wear-out items are excluded.

SPECIFICATIONS



SAFETY

Wear personal protective equipment that is appropriate for the load material. Follow trade association guidelines.



Do not make any modifications to the lifter. Modifying the lifter will void the Limited Warranty.

- Use "Ope
 - Use the lifter only in an approved "OPERATING ENVIRONMENT" (see "INTENDED USE").
 - Make sure to consider all possible effects of "INDIRECT LOADING" on lifting capacity (see "INTENDED USE").
 - Do not use a lifter that is damaged, malfunctioning, or missing parts.
 - Do not use a lifter if the sealing edge of any vacuum pad is cut or otherwise damaged.

Do not use a lifter to lift cracked or broken glass.



 Do not exceed the Maximum
 Load Capacity or lift loads the lifter is not designed for (see "INTENDED USE").



Do not use a lifter if the Maximum Load Capacity or any safety label appears to be missing or obscured.



Make sure the contact surfaces of the load and vacuum pad are clean before attaching the lifter (see "MAINTENANCE").



Position the vacuum pad correctly on the load before lifting (see "OPERATION").



Do not lift a load if any vacuum indicator shows inadequate vacuum.



Keep unauthorized personnel away from the lifter, to avoid injury in case of an unintended load release.



Do not touch the vacuum release controls during a lift.



Do not allow people to ride on the lifter or the load.



Do not lift a load higher than necessary or leave suspended loads unattended.



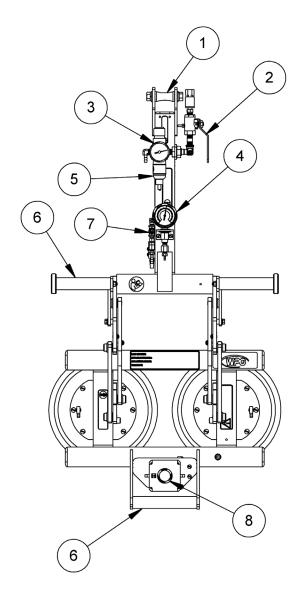
Do not position a loaded or unloaded lifter over people.

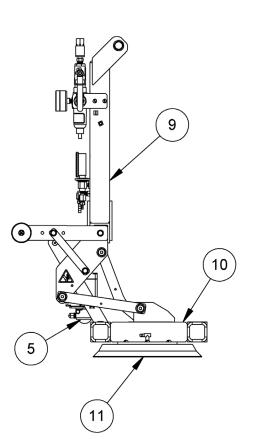


Before servicing a powered lifter, place the power control in the inactive position and, when possible, disconnect the power source.

OPERATING FEATURES

Features shown here are <u>underlined</u> on their first appearance in each section following.





- 1 LIFT POINT
- 4 VACUUM GAUGE
- 7 VACUUM PUMP (venturi)
- 10 PAD FRAME

- 2 AIR SUPPLY VALVE
- 5 AIR FILTERS
- 8 VACUUM RELEASE BUTTON
- 11 VACUUM PAD

- 3 AIR PRESSURE REGULATOR w/ PRESSURE GAUGE
- 6 CONTROL HANDLES
- 9 LIFT BAR

Note: Although some of the following photos do not show this specific lifter, they all illustrate how this kind of lifter functions.

For information about specific parts, see "REPLACEMENT PARTS" and/or any Separate instructions for Product Options.

ASSEMBLY

- 1) Remove all shipping materials and save them with the shipping container for future use.
- 2) Select a crane and/or hoist rated for the Maximum Load Capacity plus the Lifter Weight.

Note: Any lifter use must comply with all statutory or regulatory standards for hoisting equipment in your region.

3B

3) Attach the hoisting hook to the lift point (figs. 3A-B).

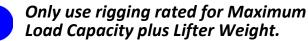


Note: Use rigging as needed to make sure the hook does not interfere with the load (fig. 3C).

3A



3C



- 4) Use the hoisting equipment to remove the lifter from the shipping container. Avoid damaging the vacuum pads.
- 5) Remove the pad covers (fig. 5A) and save them for future use.



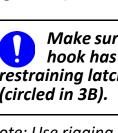
This installation should be performed

by qualified service personnel.

6) Connect the lifter to an appropriate compressed air supply (see Power Source under "SPECIFICATIONS"):

Install the female guick connector (supplied) on the compressed air line.

Caution: Make sure the air line is routed so that it does not become tangled or damaged during operation.



ASSEMBLY

6.1) Connect the female quick connector to the male quick connector (figs. 6A-C).

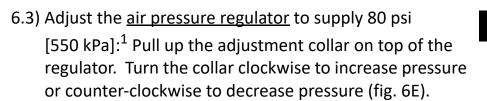




6D



6.2) Place the air supply valve in the "on" position (| - fig. 6D).



When the <u>pressure gauge</u> registers a minimum air pressure of 80 psi [550 kPa], push down the collar to lock it in place.

Note: Place the air supply value in the "off" position (\bigcirc – fig. 6F) when the lifter is not in use; otherwise, the air compressor will cycle frequently.

7) Perform tests as required under "TESTING".





^{1.....} Exceeding this pressure consumes more air and does not improve lifter performance.

INTENDED USE

LOAD CHARACTERISTICS

Make sure the vacuum lifter is intended to handle each load according to these requirements:

O NOT lift explosives, radioactive substances or other hazardous materials.

- The load weight must not exceed the Maximum Load Capacity.
- The load must be a single piece of relatively nonporous material with a flat and relatively smooth contact surface.^{1, 2} To determine whether the load is too porous or rough, perform the "Lifter/Load Compatibility Test".
- The load's contact surface must be able to obtain a friction coefficient of 1 with the lifter's <u>vacuum pads</u> (see "Pad-to-Load Friction Coefficient"). Otherwise, the capacity should be derated appropriately.
- The load's surface temperature must not exceed the Operating Temperatures.³
- The load's *minimum* length and width are determined by the current Pad Spread (see "SPECIFICATIONS").
- The load's maximum length and width are determined by its allowable overhang.⁴
- 1½" [3.8 cm] is the allowable thickness at Maximum Load Capacity.⁵ The load must be positioned correctly on the lifter (see "OPERATION"). If not, the allowable load thickness would be reduced.⁶

Note: Standard vacuum pads can stain or deform load surfaces with light colors or soft coatings. Test such surfaces for damaging effects before using the lifter on them.⁷

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°F [°C]

^{1.....} Although concave vacuum pads can also attach to some curved loads, curvature can reduce lifting capacity. Contact WPG for more information.

^{2.....} A "single piece" of material includes curtainwall assemblies, unitized glazing systems and similar construction units.

^{3.....} Vacuum pads made from a heat-resistant rubber compound can enable you to lift loads with higher surface temperatures. Contact WPG or an authorized dealer for more information.

^{4.....} The allowable overhang is the amount of load material that can extend sideways beyond the vacuum pad without breaking or otherwise being damaged. This depends on the load material, its thickness, and the angle of handling (if any). Since every material has different physical properties, the allowable overhang must be evaluated separately for each load type. Contact WPG or an authorized dealer for more information.

^{5.....} However, the allowable thickness increases as load weight decreases. Contact WPG for more information.

^{6.....} Pad Spacers can reduce the stability of upright loads and allowable load thickness. Contact WPG for more information.

^{7.....} Alternative rubber compounds are available for these purposes. Contact WPG or an authorized dealer for more information.

INTENDED USE

INDIRECT LOADING

Make sure to account for dynamic loading or other inadvertent loading that can negatively affect lifting capacity, such as:

 Weight amplification that results when a loaded vacuum lifter abruptly starts/stops moving, changes direction or bounces up

and down (eg, when a telehandler transports a loaded lifter across rough terrain).

• External force that effectively increases the weight of a lifter's attached load (eg, when a load of sheet material reacts to wind gusts).

OPERATING ENVIRONMENT

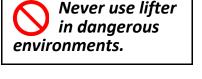
Make sure the lifter is suitable for each work environment, given the following restrictions:

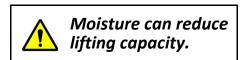
- This lifter is not intended for any environment that is dangerous to the operator or damaging to the lifter. Avoid environments containing explosives, caustic chemicals and other dangerous substances.
- The work environment is limited by the Operating Elevation and Operating Temperatures.^{1, 2}
- The lifter is not designed to be watertight. Do not use it in rain or other unsuitable conditions.

CE/UKCA — A secondary positive holding device is required to lift loads on construction sites.

DISPOSAL OF THE LIFTER

After the Service Life of the lifter has ended (see "SPECIFICATIONS"), dispose of it in compliance with all local codes and applicable regulatory standards.







Indirect loading can reduce lifting capacity.

^{1.....} Although lifter use may be possible at higher elevation, lifting capacity is reduced whenever the lifter is unable to attain vacuum in the green range on the vacuum gauge. Contact WPG for more information.

^{2.....} Special provisions may allow the lifter to operate outside the specified temperature range. Contact WPG for more information.

BEFORE USING THE LIFTER

Determine whether the vacuum lifter is capable of each intended task (see "SPECIFICATIONS" and "INTENDED USE"). Then complete the following preparations:

Taking Safety Precautions

 Be trained in all industry and regulatory standards for lifter operation in your region.

Read all directions and safety rules before using lifter.

Always wear appropriate personal protective equipment.

 Follow trade association guidelines about precautions needed for each load material.

Performing Inspections and Tests

- Follow the "INSPECTION SCHEDULE" and "TESTING".
- Service each <u>air filter</u> whenever its bowl contains liquid or other contaminants or its element appears dirty (see "AIR FILTER MAINTENANCE" in SERVICE MANUAL).



Examine air filters regularly and service when needed.

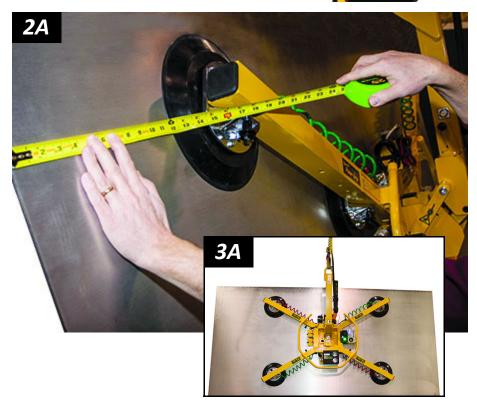
TO ATTACH THE PADS TO A LOAD

Positioning the Lifter on the Load

- Make sure the contact surfaces of the load and <u>vacuum pads</u> are clean (fig. 1A see "Pad Cleaning").
- 2) Center the <u>pad frame</u> on the load (fig. 2A).¹
- Make sure all vacuum pads will fit on the load and will be loaded evenly (fig. 3A).

Consult the Per-Pad ^[KG] Load Capacity.

 Place the vacuum pads in contact with the load surface.



Sealing the Pads on the Load

1) Place the <u>air supply valve</u> in the "on" position (| - see "ASSEMBLY").

Any interruption of airflow during lifter operation could result in an unintentional load release and personal injury.

Nev posi

Never place air supply value in "off" position (\bigcirc) while operating lifter.

2) Make sure the <u>vacuum pads</u> seal completely against the load.²

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^{1.....} The lifter is designed to handle the maximum load weight when its center of gravity is positioned within 2" [5 cm] of the pad frame's center point. Off-center loads may tilt unexpectedly.

^{2.....} Although a vacuum pad may become distorted during shipping or storage, this condition should correct itself with continued use.

Reading the Vacuum Gauge

A <u>vacuum gauge</u> shows the current vacuum level in positive inches of Hg and negative kPa:

- Green range (≥16" Hg [≤ -54 kPa]): Vacuum level is sufficient to lift the maximum load weight (fig. 1A).
- Red range (<16" Hg [> -54 kPa]): Vacuum level is *not* sufficient to lift the maximum load weight (fig. 1B).

If it takes more than 5 seconds for the vacuum level to reach 5" Hg [-17 kPa], press on any <u>vacuum pad</u> that has not yet sealed.



Once the pads have sealed, the lifter should be able to maintain sufficient vacuum for lifting, except when used above the maximum Operating Elevation.¹ If it does not, perform the "Vacuum Test".

^{1.....} If the lifter is used above the maximum Operating Elevation (see "SPECIFICATIONS"), it may not be able to maintain sufficient vacuum for lifting. Contact WPG for more information.

TO LIFT AND MOVE THE LOAD

About the Tilt Linkage

The tilt linkage minimizes operator effort and automatically holds a balanced load in either the upright or the flat position. However, an unbalanced load may tilt unexpectedly, resulting in load damage or personal injury.

Unbalanced loads may tilt unexpectedly during lifter operation.



Make sure load is positioned correctly on lifter.

To minimize these risks, make certain **before lifting any load** that it has appropriate "LOAD CHARACTERISTICS" and is attached to the vacuum lifter as previously directed.

Interpreting the Vacuum Gauge

Vacuum is sufficient to lift the Maximum Load Capacity whenever the <u>vacuum gauge</u> registers in the green range.

Never lift load unless vacuum gauge registers in the green range, because premature lifting could result in load release and personal injury.

Monitoring the Vacuum Gauge

Monitor the vacuum gauge (fig. 1B) throughout the entire lift.



Make sure the vacuum gauge remains completely visible.

The <u>vacuum pump</u> runs continuously to maintain sufficient vacuum for lifting the maximum load weight.

However, if the vacuum gauge shows a level less than 16" Hg [greater than -54 kPa]:

 Keep everyone away from a suspended load until it can be safely lowered to a stable support.





Stay clear of any suspended load while gauge warns of insufficient vacuum.

- 2) Stop using the lifter until the cause of the vacuum loss can be identified: Conduct the "Pad Inspection" and perform the "Vacuum Test".
- 3) Correct any faults before resuming normal operation of the lifter.

Controlling the Lifter and Load

When the lifter is ready, use the hoisting equipment to raise the lifter and load as needed.

Use a <u>control handle</u> (circled in fig. 1A) to keep the lifter and load in the required position.

Once there is enough clearance, you may move the load as required.

In Case of a Power Failure

Although the lifter is designed to support the load for at least 5 minutes without power, this depends on many factors, including the "LOAD CHARACTERISTICS" and the condition of the <u>vacuum</u> <u>pads</u> (see "Vacuum Pad Maintenance").

If a power failure occurs, keep everyone away from a suspended load until it can be safely lowered to a stable support. Correct any faults before resuming normal operation of the lifter.



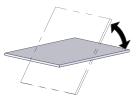
Stay clear of any suspended load during power failure.



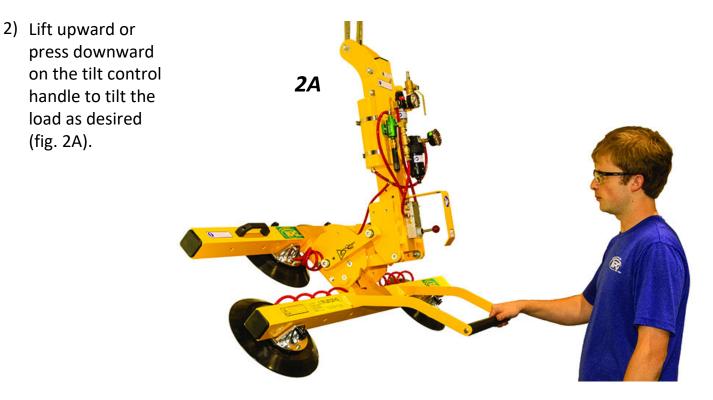
TO TILT THE LOAD



Keep hands and fingers away from tilt linkage.



 Make sure the load has enough clearance to tilt without contacting anyone or anything. Use the <u>control handles</u> to keep the load under control at all times.



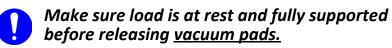
Note: See "Load Characteristics" about allowable load overhang.

^{1.....} Due to the tilt linkage design, load force on the control handle changes direction during the tilt.

A load with overhang may force you to release the <u>control handle</u> as the load approaches the flat position. In this case, use a hand cup (circled in fig. 1A) or other appropriate means to control the load.



TO RELEASE THE PADS FROM THE LOAD



 Push the <u>vacuum release button</u> (|→), to break the vacuum seal (fig. 1A).

 \bigcirc

Do not move lifter until pads release completely, because such movement could result in load damage or personal injury.

2) After the load is successfully released, move the lifter away. Otherwise, the lifter will automatically reattach.

Before you lift another load, perform the Every-Lift Inspection (see "INSPECTION SCHEDULE").

AFTER USING THE LIFTER

- 1) Place the <u>air supply valve</u> in the "off" position (\bigcirc see "ASSEMBLY").
- 2) Use the hoisting equipment to lower the vacuum lifter gently onto a stable support. Then detach the hoisting hook from the <u>lift point</u>.

Caution: Do not set lifter on surfaces that could soil or damage <u>vacuum pads</u>.

Storing the Lifter

- 1) Disconnect the compressed air supply (see "ASSEMBLY").
- 2) Use the covers supplied to keep the <u>vacuum pads</u> clean (fig. 2B).

CE/UKCA — To prevent the lifter from tipping over on relatively horizontal surfaces, place the vacuum pads facedown on a clean, smooth, flat surface. Then lower the <u>lift bar</u> and place a support under the <u>lift point</u>.



3) Store the vacuum lifter in a clean, dry location.

Transporting the Lifter

Secure the lifter in the original shipping container with the original shipping materials or equivalent.



INSPECTION SCHEDULE

Perform inspections according to the following frequency schedule. If any fault is found, correct it and perform the next most frequent inspection before using the vacuum lifter.

Note: If a lifter is used less than 1 day in a 2-week period, perform the Periodic Inspection before using it.

Action	Every Lift	Frequent ¹ (every 20-40 hrs)	Periodic ² (every 250-400 hrs)
Examine <u>vacuum pad</u> for contaminants or damage (see "Pad Inspection").	✓	\checkmark	✓
Examine load surface for contaminants or debris.	✓	\checkmark	✓
Examine controls and indicators for damage.	✓	\checkmark	✓
Examine lifter's structure for damage.		✓	✓
Examine vacuum system for damage (including <u>vacuum</u> <u>pads</u> , fittings and hoses).		\checkmark	✓
Examine <u>air filters</u> for conditions requiring service (see "AIR FILTER MAINTENANCE" in <i>SERVICE MANUAL</i>).		✓	~
Perform "Vacuum Test".		✓	✓
Check for unusual vibrations or noises while operating lifter.		✓	✓
 Examine entire lifter for evidence of: looseness, excessive wear or excessive corrosion deformation, cracks, dents to structural or functional components cuts in vacuum pad or hoses any other hazardous conditions 			~

1..... The Frequent Inspection is also required whenever the lifter has been out of service for 1 month or more.

2..... The Periodic Inspection is also required whenever the lifter has been out of service for 1 year or more. Keep a written record of all Periodic Inspections. If necessary, return the lifter to WPG or an authorized dealer for repair (see "REGISTRATION AND LIMITED WARRANTY").

TESTING

Perform the following test to determine whether or not a load surface is too porous or rough:

Lifter/Load Compatibility Test¹

- 1) Make sure the vacuum generating system is functioning correctly (see "Vacuum Test").
- 2) Thoroughly clean the load surface and the <u>vacuum pad</u> (see "Pad Cleaning").
- 3) Place the load in the upright position on a stable support.
- 4) Attach the vacuum pad to the load as previously directed.
- 5) After the vacuum level appears in the green range on the <u>vacuum gauge</u>, place the <u>air</u> <u>supply valve</u> in the "off" position (()).
- 6) Raise the load a minimal distance, to make sure it is supported by the lifter.



Take precautions in case load should fall during test.

- 7) Watch the <u>vacuum gauge</u>: Starting from a vacuum level of 16" Hg [-54 kPa], the lifter must maintain a vacuum level greater than 12" Hg [less than -41 kPa] for 5 minutes.² If not, lifting this load requires additional precautions (eg, a load sling). Contact WPG for more information.
- Lower the load after 5 minutes or before the vacuum level diminishes to 12" Hg [increases to -41 kPa].

^{1.....} The "Pad-to-Load Friction Coefficient" can affect the outcome of this test.

^{2.....} Under CE and UKCA requirements, the lifter must maintain a vacuum level greater than 8" [less than -27 kPa].

Perform the following tests before placing the lifter in service *initially, following any repair,* when directed in the *"INSPECTION SCHEDULE"*, or *whenever necessary*:

Operational Tests

Test all features and functions of the lifter (see "OPERATING FEATURES" and "OPERATION").

Vacuum Test

- 1) Clean the face of the <u>vacuum pad</u> (see "Pad Cleaning").
- 2) Use a test load with weight equal to the Maximum Load Capacity, a clean, smooth, nonporous surface and other appropriate "LOAD CHARACTERISTICS". ¹
- 3) Attach the lifter to the test load as previously directed.
- After the vacuum level appears in the green range on the <u>vacuum gauge</u>, raise the load a minimal distance and place the <u>air supply valve</u> in the "off" position (○).



Take precautions in case load should fall during test.

- 5) Watch the vacuum gauge: The vacuum level should not decrease by more than 4" Hg [increase by more than -14 kPa] in 5 minutes.
- 6) Lower the load after 5 minutes or whenever a lifter fails the test, and release the load as previously directed.
- Qualified service personnel must correct any fault in the vacuum system before returning the lifter to service.

Never use lifter that has failed test.

B Th by

This service must be performed by qualified service personnel.

^{1.....} The load should have either a flat surface or no more curvature than the lifter is designed for, if any.

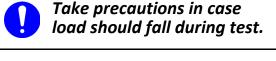
Rated Load Test¹

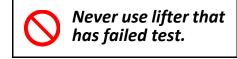
The following steps must be performed or supervised by a qualified person:²

1) Use a test load that weighs 125% (±5%) of the Maximum Load Capacity and has the appropriate "LOAD CHARACTERISTICS".



- 3) Position the load to produce the greatest stress on the lifter consistent with "INTENDED USE".
- 4) Raise the load a minimal distance and leave it suspended for 2 minutes.
- 5) Once the test is completed, lower the load for release as previously directed.
- Inspect the lifter for any stress damage, and repair or replace components as necessary to successfully pass the test.





7) Prepare a written report of the test and keep it on file.

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^{1....} An equivalent simulation may also be used. Contact WPG for more information.

^{2.....} A "qualified person" has successfully demonstrated the ability to solve problems relating to the subject matter and work, either by possessing a recognized degree in an applicable field or a certificate of professional standing, or by possessing extensive knowledge, training and experience.

MAINTENANCE

Note: Refer to **SERVICE MANUAL #36112** when applicable.

VACUUM PAD MAINTENANCE

Pad-to-Load Friction Coefficient

The friction coefficient represents the lifter's ability to resist load slippage. The Maximum Load Capacity is based on a friction coefficient of 1, as determined by testing of clean, new, standard rubber vacuum pads on clean, dry, regular glass. If the lifter is used under any other conditions, a qualified person must first determine the effective lifting capacity.¹

Long-term exposure to heat, chemicals or UV light can damage vacuum pads. Replace pads every 2 years or more often when necessary.

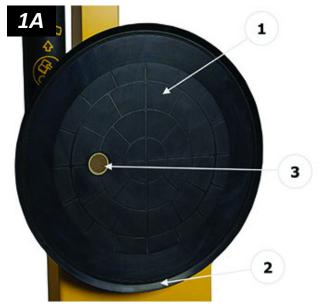
Pad Inspection

Inspect <u>vacuum pad</u> (fig. 1A) according to the "INSPECTION SCHEDULE" and correct the following faults before using the lifter (see "REPLACEMENT PARTS", when applicable):

- Contaminants on the face (item 1 in fig. 1A) or sealing edges (item 2 in fig. 1A).
- Filter screen (item 3 in fig. 1A) missing from face.

Replace any pad that has damaged sealing edges.

- Nicks, cuts, deformation or abrasions in sealing edges.
- Wear, stiffness or glaze.



^{1.....} A "qualified person" has successfully demonstrated the ability to solve problems relating to the subject matter and work, either by possessing a recognized degree in an applicable field or a certificate of professional standing, or by possessing extensive knowledge, training and experience.

MAINTENANCE

Pad Cleaning

 Regularly clean the face of <u>vacuum</u> <u>pad</u> (fig. 1A), using soapy water or other mild cleansers to remove oil, dust and other contaminants.



Never use harsh chemicals on vacuum pad.

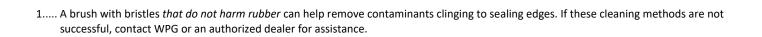
Solvents, petroleum-based products (including kerosene, gasoline and diesel fuel) or other harsh chemicals can damage vacuum pads.



Never use rubber conditioners on vacuum pad.

Many rubber conditioners can leave a hazardous film on vacuum pads.

- 2) Prevent liquid from entering the vacuum system through the suction hole on the pad face.
- 3) Wipe pad face clean, using a clean sponge or lint-free cloth to apply the cleanser.¹
- 4) Allow pad to dry completely before using the lifter.





REPLACEMENT PARTS

Stock No.	Description	Qty.
65438	Vacuum Hose – 1/8" ID x 1/4" OD – White	*
65440	Vacuum Hose – 0.245" ID x 3/8" OD – Red	*
65301	Handle Grip Foam	*
53132	Hose Fitting – Tee – 5/32" ID	1
53122	Pad Fitting – Elbow – 5/32" ID	2
49646T	Vacuum Pad – Model G3370 / 11" [28 cm] Diameter – Lipped	2
49605T	Vacuum Pad – Model HV11 / 10" [25 cm] Diameter – Lipped	2
49506TA	Vacuum Pad – Model VPFS9 / 9" [23 cm] Diameter	2
49122	End Plug – 2" x 2" x 1/4" Tubing Size	1
36112	Service Manual - Compress Air Power System	1
29353	Pad Cover	2
15632	Pad Filter Screen – Small (for VPFS9 pad)	2
15630	Pad Filter Screen – Large (for HV11 & G3370 pads)	2
10194	Machine Screw – 1/4-20 x 5/8" (for pad mounting)	8

* — Length as required; sold by the inch (approx. 2.5 cm).

See **SERVICE MANUAL #36112** for additional parts.

Service only with identical replacement parts, AVAILABLE AT WPG.COM OR THROUGH AN AUTHORIZED WPG DEALER

REGISTRATION AND LIMITED WARRANTY

TO REGISTER THIS WPG PRODUCT

Go to the *PRODUCT REGISTRATION* page at wpg.com and complete the form. Registration keeps you advised of important updates and notifications, and simplifies inquiries to WPG regarding your product. Registration is **not** required to activate your Limited Warranty (see next section).

ABOUT THE LIMITED WARRANTY



Note: Read the WARRANTY RETURN FORM at wpg.com for important details about the Limited Warranty.

Wood's Powr-Grip[®] (WPG) products are warranted to be free from defects in manufacturing and materials for 1 year from the date of purchase.

If a problem develops during the warranty period, follow the instructions below to obtain warranty service. If inspection shows that the product has a defect, WPG will repair or replace the product without charge.



Obtaining Warranty Service or Repair Service

For customers *in the U.S. and Canada*: Go to the *EXCHANGES, REPAIRS, & WARRANTIES* page at wpg.com and click the applicable link. Alternatively, you may contact the WPG Technical Service Department (see contact information below).

For customers *in all other localities*: Contact the WPG Technical Service Department (see contact information below) or your dealer for assistance.

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