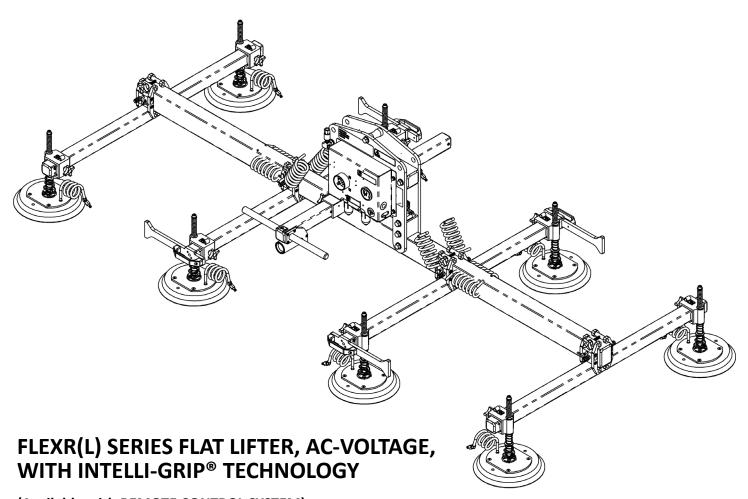
OPERATING INSTRUCTIONS



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



APPLICABLE TO SERIAL NUMBERS 20250414 AND LATER. FOR EARLIER NUMBERS, SEARCH WPG'S ARCHIVE.



(Available with REMOTE CONTROL SYSTEM)

Model numbers: FLEXR8HV11AC3 (shown), FLEXRL8HV11AC3

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

TABLE OF CONTENTS

SPECIFICATIONS	3
SAFETY	6
OPERATING FEATURES	
FLEXR8HV11AC3 FEATURES	
FLEXRL8HV11AC3 FEATURES	7
INTELLI-GRIP® CONTROL UNIT FEATURES	8
ASSEMBLY	
TO CHANGE THE PAD FRAME CONFIGURATION	
Extending/Retracting the Telescoping Pad Arms	
Repositioning the Sliding Pad Arms	
Repositioning the Sliding Pad Mounts	
Connecting/Disconnecting Vacuum Hoses	
INTENDED USE	
LOAD CHARACTERISTICS	
Indirect Loading	15
OPERATING ENVIRONMENT	16
DISPOSAL OF THE LIFTER	
OPERATION	17
Before Using the Lifter	
Taking Safety Precautions	
Selecting a Screen Language	
Performing Inspections and Tests	
Preparing to Use the Remote Control System	
To Attach the Pads to a Load	20
Positioning the Lifter on the Load	
Powering up the Lifter	
Sealing the Pads on the Load	21
Reading the Vacuum Gauges	22
TO LIFT AND MOVE THE LOAD	23
Interpreting the Lift Light	23
Monitoring Vacuum Indicators	
Controlling the Lifter and Load	
In Case of a Power Failure	24

TABLE OF CONTENTS

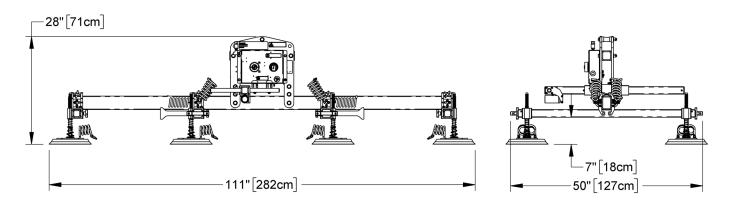
TO RELEASE THE PADS FROM THE LOAD	25
AFTER USING THE LIFTER	26
Storing the Lifter	27
Transporting the Lifter	27
INSPECTIONS AND TESTS	28
Inspection Schedule	28
Testing	29
Lifter/Load Compatibility Test	29
Operational Tests	
Vacuum Test	
Rated Load Test	
Remote Control System Test	
MAINTENANCE	32
Vacuum Pad Maintenance	32
Pad Inspection	32
Pad Cleaning	33
NOTIFICATION BUZZER BATTERY REPLACEMENT	34
Intelli-Grip® Diagnostic Codes	35
REPLACEMENT PARTS	39
REGISTRATION AND LIMITED WARRANTY	40
To Register this WPG Product	40
ABOUT THE LIMITED WARRANTY	
Obtaining Warranty Service or Repair Service	

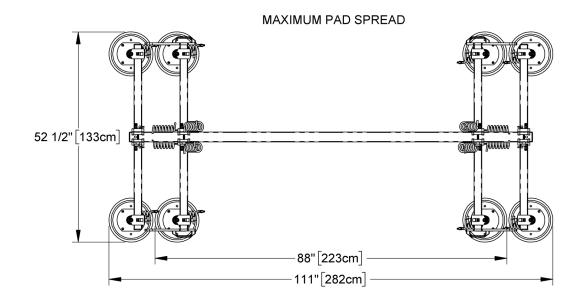
SPECIFICATIONS

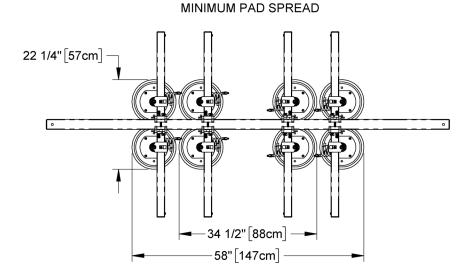
	Product Description	Designed for use with hoisting equipment, FLEXR(L)8-AC3 lifters support loads in the flat orientation using vacuum.				
	Model Number	FLEXR8HV11AC3	FLEXRL8HV11AC3 (optional)			
	Pad Spread (to outer edges)	Maximum: 52½" x 111" [133 cm x 282 cm] Minimum: 22½" x 58" [57 cm x 147 cm]	Maximum: 52½" x 157¾" [133 cm x 400 cm] Minimum: 22¼" x 117¾" [57 cm x 299 cm]			
LBS	Lifter Weight	195 lbs [89 kg]	225 lbs [103 kg]			
	Vacuum Pads (standard rubber ¹)	Eight 10" [25 cm] nominal diameter, lipped (Model	HV11)			
Ekg]	Maximum Load Capacity ^{2, 3}	Per pad: 200 lbs [91 kg] Total: 1600 lbs [725 kg]				
	Power Source	See serial number plate for specific AC voltage, frequency and amperage.				
((1 \(\) 1))	Product Options	Available with Remote Control System – FCC, CE, IC, RSM and ACMA compliant ⁴ See separate instructions about other options.				
FT [m]\\$	Operating Elevation	Up to 6,000' [1,828 m]				
*F ['C]	Operating Temperatures	32° — 104° F [0° — 40° C]				
	Service Life	16,000 lifting cycles, when used and maintained as intended ⁵				
	Software Version	Intelli-Grip® 10.2				
	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 and verified at a vacuum of 16" Hg [-54 kPa] on clean, smooth, nonporous flat surfaces with a friction coefficient of 1. Rating is verified by testing on polycarbonate (or metal with a painted surface) with a coefficient of friction similar to plain (non-coated) glass and a surface temperature at approx. 70° F [21° C].
- 3..... Pad compound, load rigidity, strength, surface conditions, overhang, angle, center of gravity and temperature affect lifting capacity. A "qualified person" should evaluate the effective lifting capacity for each use (see definition under "Rated Load Test").
- 4..... "RSM and ACMA compliant" means that the remote control system is eligible for the Regulatory Compliance Mark (RCM).
- 5..... Vacuum pads, filter elements and other wear-out items are excluded.

SPECIFICATIONS

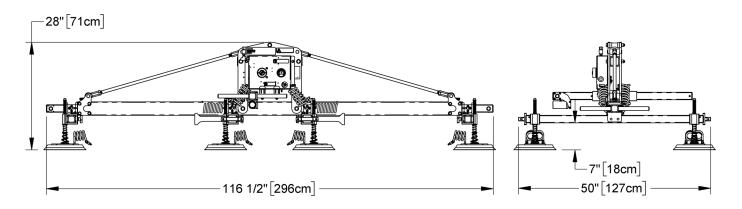


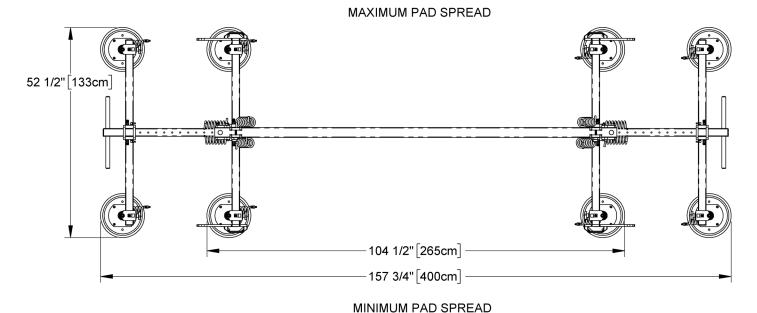


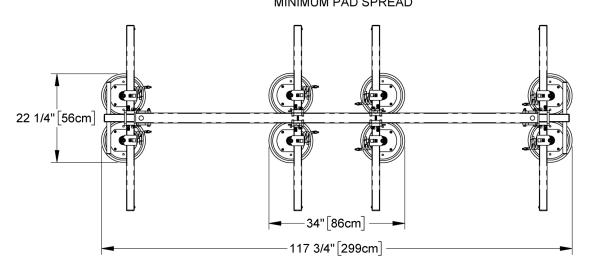


Note: Dimensions above are shown for a FLEXR8 vacuum lifter.

SPECIFICATIONS

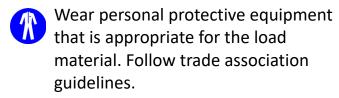


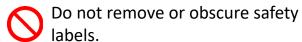


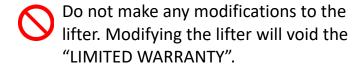


Note: Dimensions above are shown for an optional FLEXRL8 vacuum lifter.

SAFETY







- 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").





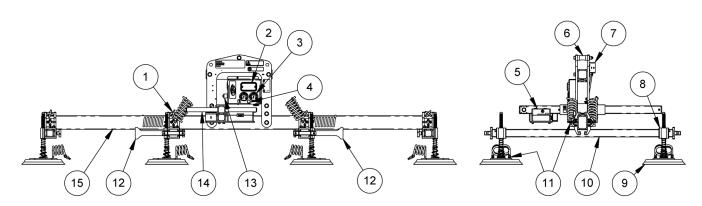
Do not use a lifter if the Maximum Load Capacity or any safety label appears to be missing or obscured.

- Make sure the contact surfaces of loads and vacuum pads are clean before attaching lifters (see "MAINTENANCE").
- Position vacuum pads correctly on the loads 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.

FLEXR8HV11AC3 FEATURES

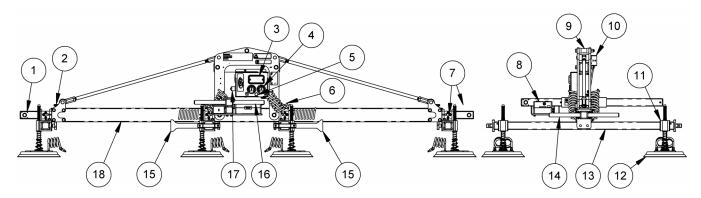


- 1 SLIDING PAD ARM CLAMP
- 4 VACUUM LIFT LIGHT
- 7 AC-TO-DC POWER CONVERTER
- 10 SLIDING PAD ARM
- 13 AIR FILTERS

- 2 STROBE LIGHT
- 5 INTELLI-GRIP® CONTROL UNIT
- 8 SLIDING PAD MOUNT
- 11 QUICK CONNECTORS
- 14 ADJUSTABLE CONTROL HANDLE
- 3 VACUUM GAUGES
- 6 LIFT POINT
- 9 VACUUM PAD
- 12 PARKING STANDS
- 15 PAD FRAME

Not shown: 9V BATTERY HOLDER, NOTIFICATION BUZZER, VACUUM PUMP

FLEXRL8HV11AC3 FEATURES



- 1 TELESCOPING PAD ARM
- 4 VACUUM GAUGES
- 7 QUICK CONNECTORS
- 10 AC-TO-DC POWER CONVERTER
- 13 SLIDING PAD ARM
- 16 ADJUSTABLE CONTROL HANDLE

- 2 PAD ARM LOCKING PIN
- 5 VACUUM LIFT LIGHT
- 8 INTELLI-GRIP® CONTROL UNIT
- 11 SLIDING PAD MOUNT
- 14 ADJUSTABLE CONTROL HANDLE
- 17 AIR FILTERS

- STROBE LIGHT
- 6 SLIDING PAD ARM CLAMP
- 9 LIFT POINT
- 12 VACUUM PAD
- 15 PARKING STANDS
- 18 PAD FRAME

Not shown: 9V BATTERY HOLDER, NOTIFICATION BUZZER, VACUUM PUMP

OPERATING FEATURES

INTELLI-GRIP® CONTROL UNIT FEATURES



Note: Although some of the following photos do not show these specific lifters, 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.

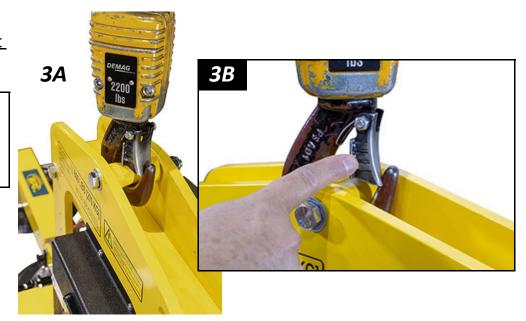




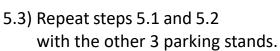
Note: Any lifter use must comply with all statutory or regulatory standards for hoisting equipment in your region.

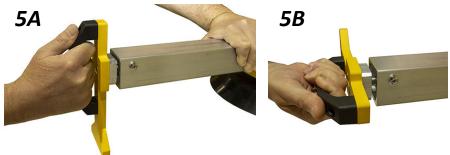
3) Attach the hoisting hook to the <u>lift point</u> (fig. 3A).

Make sure hook has restraining latch (fig. 3B).



- 4) Use the hoisting equipment to remove the lifter from the shipping container. Avoid damaging the <u>vacuum pads</u>.
- 5) Retract the spring-loaded parking stands:
 - 5.1) Pull the handle of a parking stand (fig. 5A).
 - 5.2) Rotate the handle 90° in either direction (fig. 5B). Then allow the spring to lock the handle in place.





6) Connect the power cable:



Make sure power source has ground fault circuit interrupter.

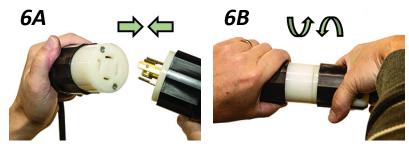
6.1) Wire the female connector provided to an appropriate power source, as indicated on the label attached.

Wiring must be performed by qualified service personnel, taking all appropriate safety precautions.

Note: Brown-outs, over-taxed generators, extension cords and other conditions can reduce power at the lifter.

Without adequate power, lifter could release load, resulting in load damage and personal injury.

- 6.2) Route the power cable so that it does not become damaged during operation.
- 6.3) Insert the power cable's male connector into the female connector and twist to secure them together (fig. 6A-B).



- 7) Install the 9-volt battery for the <u>notification buzzer</u>, as directed in "NOTIFICATION BUZZER BATTERY REPLACEMENT".
- 8) Remove the pad covers (fig. 8A) and save them for future use.



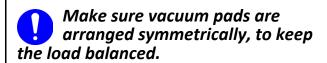
9) Perform tests as required under "Testing".

ASSEMBLY

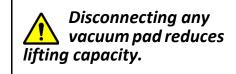
TO CHANGE THE PAD FRAME CONFIGURATION

Various <u>pad frame</u> configurations enable the lifter to match different load dimensions and weights. The illustrations in "SPECIFICATIONS" show the configurations' maximum and minimum pad spreads for the standard pad frame (see page 4) and the optional extended-length pad frame (see page 5).

 Choose the configuration that maximizes support across the load surface and minimizes load overhang (see "LOAD CHARACTERISTICS").



- 2) Reposition <u>pad arms</u> (sliding and/or telescoping) and reposition <u>sliding pad mounts</u> as needed (see following sections):
 - To support the maximum load weight, you must connect all 8 vacuum pads (see "Connecting/Disconnecting Vacuum Hoses").
 - To support larger load dimensions, you must move sliding pad arms and sliding pad mounts outward. If the lifter is equipped with the optional extended-length pad frame, you must extend the telescoping pad arms, as well.
 - To support smaller dimensions and weights, you
 may move sliding pad arms and sliding pad mounts
 inward and/or disconnect vacuum hoses, provided
 the lifter still has sufficient capacity to support the



load in question. If the lifter is equipped with the optional extended-length pad frame, retract the telescoping pad arms, as well.

Rev 2.0/5-25 11 FLEXR(L)8-AC3: #35043

^{1.....} Whenever a quick connector is disconnected, the corresponding vacuum pad does not contribute to the lifting capacity, whether or not the pad is mounted on the pad frame.

Extending/Retracting the Telescoping Pad Arms

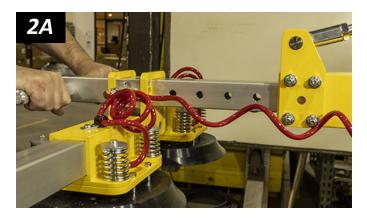
Note: Only the optional FLEXRL8HV11AC3 features telescoping pad arms.

- 1) Disengage the spring-loaded pad arm locking pin:
 - Pull the pin directly upward (fig. 1A):
 This allows the pad arm to slide into or out of the pad frame tube until the pin locks automatically at the next position.





- Pull the pin directly upward AND twist the pin (fig. 1B). This allows the pad arm to slide without locking. Twist the pin again to allow automatic locking.
- 2) Slide the pad arm to the desired position (fig. 2A).



3) Make sure the locking pin is engaged so the pad arm is secured in position (fig. 3A).

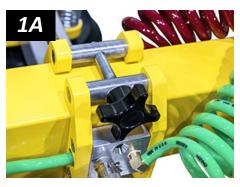


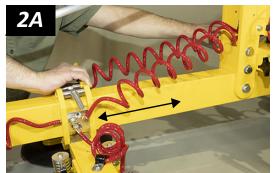
4) Repeat steps 1-3 to similarly reposition the other pad arm.

Note: Position both telescoping pad arms at an equal distance from the center, to maximize the lifter's stability.

Repositioning the Sliding Pad Arms

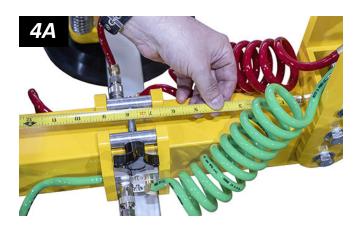
- 1) Loosen a <u>sliding arm</u> <u>clamp</u> (fig. 1A).
- 2) Move the <u>sliding pad</u> <u>arm</u> to the desired position along the <u>pad frame</u> (fig. 2A).





- 3) Tighten the clamp, to secure the sliding pad arm.
- 4) Repeat steps 1-3 to similarly reposition the other sliding pad arm.

Note: Position sliding pad arms at an equal distance from the center (fig. 4A), to maximize the lifter's stability.



Repositioning the Sliding Pad Mounts

- 1) Loosen the knob on the side of a <u>sliding pad mount</u> (circled in fig. 1B).
- 2) Slide the pad mount to the desired position along the <u>sliding pad arm</u> (arrows in fig. 1B).
- 3) Tighten the knob, to secure the pad mount.
- 4) Repeat steps 1-3 to similarly reposition other pad mounts, as needed.

Note: Position the pad mounts at an equal distance from the center of their pad arm, to maximize the lifter's stability.



Connecting/Disconnecting Vacuum Hoses



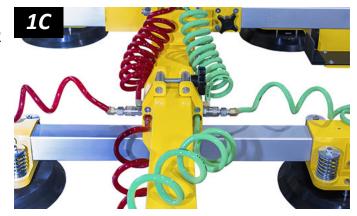
Make sure <u>quick connectors</u> seal completely and all vacuum hoses function correctly (see "Vacuum Test").

To connect a vacuum hose, push the male and female ends of the quick connector together until they lock (figs. 1A-B).





Make sure all hoses are connected correctly: Green hoses to circuit 1 and red hoses to circuit 2 (fig. 1C).



The 2 <u>vacuum gauges</u> are labeled to indicate the related circuits (fig. 1D).

Note: The gauge face colors do not correspond with the circuit colors.



To disconnect a hose, move the release ring on the female end until the quick connector separates (figs. 1E-F).





INTENDED USE

LOAD CHARACTERISTICS

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



Do 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 a "Lifter/Load Compatibility Test".
- The load's surface temperature must not exceed the Operating Temperatures.³

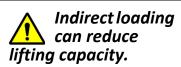


- The load's *minimum* length and width are determined by the current Pad Spread (see "SPECIFICATIONS").
- The load's maximum length and width are determined by its allowable overhang.⁴

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.⁵

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).

Rev 2.0/5-25 15 FLEXR(L)8-AC3: #35043

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

INTENDED USE

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.





Metal particles and similar environmental contaminants could result in <u>vacuum pump</u> failure.

 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.



Moisture can reduce lifting capacity.

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.

FLEXR(L)8-AC3: #35043 16 Rev 2.0/5-25

^{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 gauges. 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.
- Follow trade association guidelines about precautions needed for each load material.



Read all directions and safety rules before using lifter.



Always wear appropriate personal protective equipment.

Selecting a Screen Language

When the lifter is powered up for the first time, the Intelli-Grip® control unit prompts the operator to select a language for the LCD Screen. Use the buttons as follows:



- To scroll down, press the <u>"release" button</u> (|→1).
- To scroll up, press the <u>"attach" button</u> ()←).
- To select a language, press the <u>"function" button</u> (Fn).







Note: A similar process is used to navigate all menus.

Rev 2.0/5-25 17 FLEXR(L)8-AC3: #35043

^{1.....} To change the language again, refer to the "INTELLI-GRIP" OPERATOR MENUS" section of the SERVICE MANUAL.

Performing Inspections and Tests

- Follow the "Inspection Schedule" and "Testing".
- Service the 2 <u>air filters</u> whenever a bowl contains liquid or other contaminates, or an element appears dirty (see "AIR FILTER MAINTENANCE" in <u>SERVICE MANUAL</u>).
- Make sure the <u>notification buzzer</u> is clearly audible at the maximum distance between the operator and the lifter, despite any barriers or obstacles.^{1, 2}



Examine air filters regularly and service when needed.



Make sure notification buzzer can be heard over noise at operator position.

FLEXR(L)8-AC3: #35043 18 Rev 2.0/5-25

^{1.....} Maximum buzzer volume is 95 dBA at 2' [60 cm]. If CE or UKCA Standards apply, consult EN 7731 to make sure the notification buzzer is compliant.

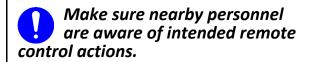
^{2.....} The "Vacuum Test" provides a convenient opportunity to check this.

Preparing to Use the Remote Control System

The optional radio transmitter (fig. 1A) and radio receiver enable you to activate the lifter's "attach" and "release" functions at distances up to 250' [76 m], provided you have a clear and direct view of the lifter and its status indicators.

To operate a lifter remotely, follow these safety rules:

 Visually verify the status of the lifter and load prior to lifting.



- Monitor the lifter at all times to make sure it is functioning as intended.¹
- Be sure the load is lowered and supported correctly before releasing it (see following sections).

Note: To prevent any radio transmission, press the <u>emergency disconnect button</u>.²



- 1 EMERGENCY DISCONNECT BUTTON
- 2 TRANSMISSION INDICATOR LIGHT
- 3 "ATTACH" BUTTON
- 4 "RELEASE" BUTTON
- 5 POWER/"FUNCTION" BUTTON

Rev 2.0/5-25 19 FLEXR(L)8-AC3: #35043

^{1.....} The Remote Control System is designed to prevent multiple lifters from responding. Nevertheless, radio-controlled lifters should be tested to make sure each transmitter controls only one lifter.

^{2.....} To reset the emergency disconnect button, twist the button clockwise and allow it to spring outward to its original position.

TO ATTACH THE PADS TO A LOAD

Make sure the contact surfaces of the load and $\underline{\text{vacuum pads}}$ are clean (see "Pad Cleaning").¹



Positioning the Lifter on the Load

- 1) Adjust the center control handle:
 - 1.1) Loosen the knob that allows the <u>adjustable</u> control handle's sliding arm to move (fig. 1A).
 - 1.2) Slide the arm to the desired position (fig. 1B).

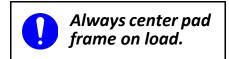




- 1.3) Tighten the knob, to secure the arm.
- 2) Center the <u>pad</u>
 <u>frame</u> on the load
 (fig. 2A), to avoid
 unexpected load
 movement or
 release.²



Off-center loading could result in personal injury, as well as damage to the lifter or load.



Note: If needed, repeat step 1 after centering.

3) Make sure all <u>vacuum pads</u> will fit on the load and will be loaded evenly. Consult the Per-Pad Load Capacity.



4) Place the pads in contact with the load surface.

^{1.....} Since oil damages the rubber in standard pads, the load surface must be free of oil unless the lifter is equipped with optional oil-resistant pads (see "REPLACEMENT PARTS").

^{2.....} 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.

NPFRATINN

Powering up the Lifter

Press the lifter's power button ($(^1)$ — fig. 1A). The <u>vacuum</u> pump will run for a few seconds, as a normal function of the Intelli-Grip® self-diagnostics.

The lifter automatically tests the 9-volt battery for the notification buzzer each time the lifter is powered up. When this battery runs down, the <u>LCD screen</u> displays "Replace 9V battery?" and the buzzer chirps once per minute. Replace the battery as needed (see "NOTIFICATION BUZZER BATTERY REPLACEMENT").





To use the optional Remote Control System, briefly hold the <u>power</u> button ((') — fig. 1B) on the radio transmitter to activate it.¹

Note: When you hold any button on the transmitter, the transmission indicator light flashes green if the transmitter is activated.



Sealing the Pads on the Load

Press the lifter's <u>"attach" button</u> (↓ ← − fig. 1C).



Keep "attach" function activated throughout lift.





To use the optional Remote Control System, press the <u>"attach"</u> button (\triangleright — fig. 1D) on the radio transmitter.



Rev 2.0/5-25 21 FLEXR(L)8-AC3: #35043

^{1.....} The radio transmitter turns off automatically after a period of inactivity.

The <u>vacuum pump</u> will run until the <u>vacuum pads</u> seal completely. If the lifter takes too long to attach, the <u>notification buzzer</u> chirps and the <u>LCD screen</u> displays "Vacuum not increasing normally", along with a diagnostic code (see "INTELLI-GRIP® DIAGNOSTIC CODES"). In this case, press the lifter firmly against the load to help the pads begin to seal.¹

Reading the Vacuum Gauges

The 2 vacuum gauges of the dual vacuum system show 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).²

If it takes more than 5 seconds for the vacuum level to reach 5" Hg [-17 kPa] on either vacuum gauge, press on any vacuum pad 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.³ If it does not, perform the "Vacuum Test".

FLEXR(L)8-AC3: #35043 22 Rev 2.0/5-25

^{1.....} Although a vacuum pad may become distorted during shipping or storage, this condition should correct itself with continued use.

^{2.....} The gauge face colors do not correspond with the circuit colors.

^{3.....} 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

Interpreting the Lift Light

When vacuum is sufficient to lift the Maximum Load Capacity, the vacuum lift light turns on automatically and the vacuum pump turns off temporarily, to conserve battery energy.



Never lift load unless lift light is illuminated, because premature lifting could result in load release and personal injury.

Monitoring Vacuum Indicators

Monitor the <u>vacuum lift light</u> and both <u>vacuum gauges</u> throughout the entire lift (fig. 1A).



Make sure all vacuum indicators remain completely visible.

The <u>vacuum pump</u> turns on and off to overcome any leakage. However, if the leak rate is greater than normal, the <u>notification buzzer</u> chirps and the <u>LCD screen</u> displays the message "Vacuum decrease on circuit #", along with a diagnostic code (see "INTELLIGRIP® DIAGNOSTIC CODES"). Such leaks can cause the <u>battery</u> to be discharged more quickly.



If the vacuum pump is unable to overcome leakage, the notification buzzer sounds continuously, the lift light turns off, and the LCD screen displays the message "INSUFFICIENT VACUUM!", along with a diagnostic code (see "INTELLI-GRIP® DIAGNOSTIC CODES"). If this happens:

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



Stay clear of any suspended load while indicators warn 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.

Rev 2.0/5-25 23 FLEXR(L)8-AC3: #35043

^{1.....} Automatic leak detection is **not** a substitute for performing the "Vacuum Test", required by the "INSPECTION SCHEDULE" and "TESTING". Sensitivity of leak detection can be adjusted (see "INTELLI-GRIP® OPERATOR MENUS" in SERVICE MANUAL).

Controlling the Lifter and Load

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

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

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

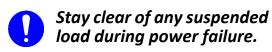


In Case of a Power Failure

In the event of a <u>battery</u> failure or electrical system failure, the <u>notification buzzer</u> will sound continuously.

Although the <u>vacuum reserve tanks</u> are 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 vacuum pads (see "VACUUM PAD MAINTENANCE").

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

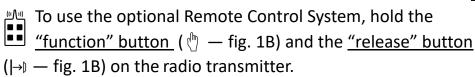


TO RELEASE THE PADS FROM THE LOAD



Make sure load is at rest and fully supported before releasing <u>vacuum pads</u>.

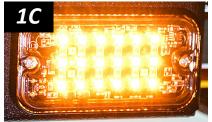
Hold the <u>"function" button</u> (Fn — fig. 1A) and the <u>"release"</u>
 <u>button</u> (→ fig. 1A). If the vacuum seal does not break, follow the directions on the <u>LCD screen</u>.







Note: The <u>strobe light</u> (fig. 1C) flashes while the "function" or "release" button is held, to show the operator that signals are being transmitted and to warn others that the operator may be releasing the load.



2) Continue to hold the "function" and "release" buttons until the <u>vacuum pads</u> release the load completely. Otherwise, the vacuum lifter will automatically revert to "attach" mode.¹

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

After the load is successfully released, the lifter activates the "Power Save" mode automatically.

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

Rev 2.0/5-25 25 FLEXR(L)8-AC3: #35043

^{1.....} A "Timed Release" function can be used to help separate the lifter from the load: Hold the "function" and "release" buttons until a yellow arrow appears on the LCD screen. Then tap the "function" button 2 or more times. This prolongs the release mode for 5 seconds per each additional tap.

AFTER USING THE LIFTER

1) Press the <u>power button</u> ((¹) — fig. 1A) and the <u>"function" button</u> (Fn — fig. 1A) to power down the vacuum lifter.



- 2) Extend the parking stands:
 - 2.1) Pull the spring-loaded handle (fig. 2A) of a parking stand.



2.2) Rotate the handle 90° and allow the spring to lock the handle in the position shown in fig. 2B.

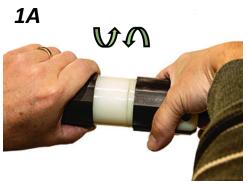


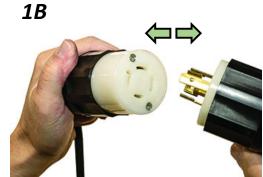
- 2.3) Repeat steps 2.1 and 2.2 with the other 3 parking stands.
- 3) Use the hoisting equipment to lower the lifter gently onto the parking stands. Then detach the hoisting hook from the <u>lift point</u>.

Caution: Do not set the lifter on surfaces that could soil or damage vacuum pads.

Storing the Lifter

1) Disconnect the electrical connectors (figs. 1A-B).





2) Use the covers supplied to keep the <u>vacuum pads</u> clean (fig. 2A).



3) Store the 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 pads</u> for contaminants or damage (see "Pad Inspection").	✓	✓	✓
Examine load surface for contaminants or debris.	✓	✓	✓
Examine controls and indicators for damage.	✓	✓	✓
Examine lifter's structure for damage.		✓	✓
Examine vacuum system for damage (including <u>vacuum</u> <u>pads</u> , fittings and hoses).		✓	✓
Examine <u>air filters</u> for conditions requiring service (see "AIR FILTER MAINTENANCE" in SERVICE MANUAL).		✓	✓
Perform "Vacuum Test".		✓	✓
Check for unusual vibrations or noises while operating lifter.		✓	✓
If the lifter has a Remote Control System, perform "Remote Control System Test".		✓	✓
Examine entire lifter for evidence of:			
looseness, excessive wear or excessive corrosion			
 deformation, cracks, dents to structural or functional components 			✓
cuts in vacuum pads or hoses			
any other hazardous conditions			
Inspect entire electrical system for damage, wear or contamination that could be hazardous, in compliance with all local codes and regulatory standards.			
Caution: Use appropriate cleaning methods for each electrical part, as specified by codes and standards. Improper cleaning can damage parts.			, ,

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

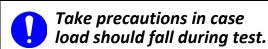
^{2.....} The Periodic Inspection is also required whenever the lifter has been out of service for 1 year or more. Keep a written record of all Periodic Inspections. If necessary, return the lifter to WPG or an authorized dealer for repair (see "REGISTRATION AND LIMITED WARRANTY").

TESTING

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

Lifter/Load Compatibility Test

- 1) Make sure the vacuum generating system is functioning correctly (see "Vacuum Test").
- 2) Thoroughly clean the load surface and the vacuum pads (see "Pad Cleaning").1
- 3) Place the load in the flat position on a stable support.
- 4) Attach the vacuum pads to the load as previously directed.
- 5) After the <u>vacuum pump</u> stops running, hold the <u>"function" button</u> (Fn) and the <u>"power"</u> button (()) for at least 5 seconds to power down the vacuum lifter.
 - Note: During this time the <u>LCD screen</u> displays "WARNING! Is load attached?", the <u>notification buzzer</u> chirps rapidly and the <u>strobe light</u> flashes.
- 6) Raise the load a minimal distance, to make sure it is supported by the lifter.



- 7) Watch each <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.
- 8) Lower the load *after* 5 minutes or *before* the vacuum level diminishes to 12" Hg [increases to -41 kPa].

-

^{1.....} Contaminated loads can also cause the vacuum pump to run frequently or continuously. Since excessive pumping quickly reduces battery energy, clean the load whenever possible.

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

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

Operational Tests

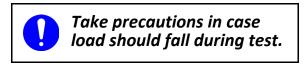
Test all features and functions of the lifter (see "OPERATING FEATURES" and "OPERATION").

Vacuum Test

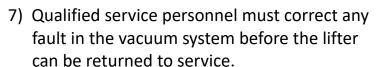
- 1) Clean the face of each vacuum pad (see "Pad Cleaning").
- 2) Use a test load with weight equal to the Maximum Load Capacity, a clean, smooth, nonporous surface and other appropriate "LOAD CHARACTERISTICS". 1

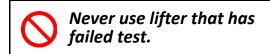


- 3) Attach the lifter to the test load as previously directed. After the <u>vacuum pump</u> stops running, the vacuum level should appear in the green range on each of the <u>vacuum gauges</u>.
- 4) Raise the load a minimal distance. Then hold the <u>"function" button</u> (Fn) and the <u>"power" button</u> (()) for at least 5 seconds to power down the lifter.²



- 5) Watch the vacuum gauges: 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.







This service must be performed by qualified service personnel.

FLEXR(L)8-AC3: #35043 30 Rev 2.0/5-25

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

^{2.....} During this time, the LCD screen displays "WARNING: Is load attached?", the notification buzzer chirps and the strobe light flashes.

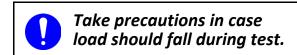
Rated Load Test¹

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".



- 2) Attach the vacuum pads to the load as previously directed.
- 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 and release the load as previously directed.
- 6) 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.

Remote Control System Test

If the lifter has a Remote Control System, test it where the lifter is normally used. Use the radio transmitter to activate each of the remote functions.³ Vary the transmitter's direction and distance from the lifter, to make sure transmissions are effective.⁴

If the Remote Control System is not functioning correctly, ...

- the battery for the radio transmitter may need to be replaced, or;
- metal or other electrically conductive surfaces may be causing radio interference.
 Reposition the transmitter to transmit signals effectively.

If the problem persists, vary the test conditions, to determine whether there is transmission interference in the work environment or the Remote Control System is not functioning. Correct any fault before using the Remote Control System.

^{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.

^{3.....} Use a test material with appropriate "LOAD CHARACTERISTICS" to test the "attach" and "release" functions.

^{4.....} This may require assistance from someone near the lifter, to verify functions are working as intended.

Note: Refer to **SERVICE MANUAL #36106** when applicable.

VACUUM PAD MAINTENANCE

The Maximum Load Capacity is 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.

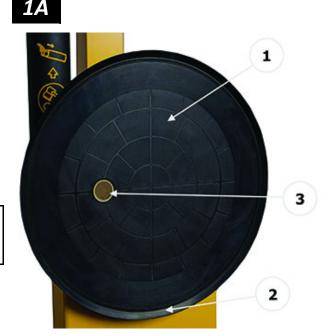
Pad Inspection

Inspect each <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.
 - 0

Replace any pad that has damaged sealing edges.

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



FLEXR(L)8-AC3: #35043 32 Rev 2.0/5-25

^{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.

Pad Cleaning

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



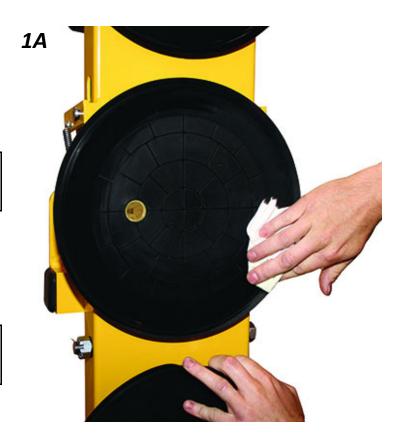
Never use harsh chemicals on vacuum pad.

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 each pad face clean, using a clean sponge or lint-free cloth to apply the cleanser. ¹
- 4) Allow each pad to dry completely before using the lifter.

Rev 2.0/5-25 33 FLEXR(L)8-AC3: #35043

^{1.....} A brush with bristles *that do not harm rubber* can help remove contaminants clinging to sealing edges. If these cleaning methods are not successful, contact WPG or an authorized dealer for assistance.

NOTIFICATION BUZZER BATTERY REPLACEMENT

- 1) Power down the lifter.
- 2) Release the <u>9V battery holder</u> by pressing inward and sideward in the direction marked on the holder.
- 3) Slide the battery tray out (fig. 3A).
- 4) Install a new 9-volt battery according to the polarity markings.
- 5) Slide the battery tray back into position.
- 6) Power up the lifter again, to test the new battery.



INTELLI-GRIP® DIAGNOSTIC CODES

Refer to the following table when a diagnostic code appears on the <u>LCD screen</u>. Codes are listed in alphanumeric order.

Note: This table contains many codes relevant to DC-powered lifters. If such codes display on AC-powered lifters, contact WPG for more information.

Note: If the Explanations/Directions do not resolve the issue, contact qualified service personnel.

All relevant parts are listed under "REPLACEMENT PARTS" in these *OPERATING INSTRUCTIONS* or corresponding *SERVICE MANUAL*.

Key: = buzzer sounds = buzzer sounds continuously = strobe light flashes

Code	On-Screen Message	Buzzer Pattern	Strobe Light Activity	Explanations/Directions
B00	"Low 12V Battery (#)"	y (#)" Solution: Charge 12V battery completely. Other		Condition: Battery gauge displays 0% energy. Solution: Charge 12V battery completely. Otherwise, perform diagnostics as directed for Code B02.
B01	"Lockout (low 12V battery) (#)"	continuous	(none)	Condition: Insufficient energy in the 12V <u>battery</u> is preventing "attach" and "release" functions from working. Solution: Charge battery completely.
B02	"Replace 12V battery?"	1 chirp per minute	(none)	 Condition: Lifter failed voltage test when powered up. Solution: Perform the following diagnostics: Is battery charger connected to AC power source? If so, power down lifter, disconnect charger from power source and power up again. Does battery gauge show diminished energy? If so, charge 12V battery completely. Note: Replace battery when indicated by battery charger. Is battery cold? (See Operating Temperatures in "SPECIFICATIONS.") If so, power down lifter, warm battery and power up again.
B03	"Charge 12V battery soon"	1 chirp per minute	(none)	Condition: 12V <u>battery</u> has ≤ 20% energy remaining. Solution: Charge battery completely.
В09	"Replace 9V battery?"	1 chirp per minute	(none)	Condition: 9V battery for <u>notification buzzer</u> is expended or missing. Solution: Replace battery (see "NOTIFICATION BUZZER BATTERY REPLACEMENT").
C00	"Fail-safe on module"	continuous	on	Condition: Fail-safe mode has been activated, to prevent potential injury. Solution: Service is required.

Rev 2.0/5-25 35 FLEXR(L)8-AC3: #35043

Code	On-Screen Message	Buzzer Pattern	Strobe Light Activity	Explanations/Directions	
E00 E01 E02 E03 E04	"EEPROM error, cell #"	occasional chirp	(none)	Condition: Failure detected in memory hardware. Solution: Service is required.	
1000	"I2C error (#)"	single chirp	(none)	Condition: Communication error detected within control system. Solution: Power down lifter and power up again.	
N00	"Automatic attach"	(none)	(none)	Condition: System activated "attach" mode as precaution because significant vacuum was detected, even though not one initiated "attach" function. Solution: None required. However, when appropriate, qualified service personnel can adjust sensitivity of vacuum detection.	
N01	"Automatic attach"	(none)	(none)	Condition: System activated "attach" mode as precaution because load did not release completely. Solution: None required. However, when appropriate, qualified service personnel can adjust sensitivity of vacuum detection.	
N02	"Automatic attach"	(none)	(none)	Condition: System activated "attach" mode as precaution when lifter was powered up, because power was previously lost while load was attached. Solution: <i>None required.</i>	
N04	"Failed to turn controls power off"	1 chirp every 2 seconds	(none)	Condition: Power to Intelli-Grip® control unit could not be turned off. Solution: a) Remove 9V battery. b) Disconnect 12V battery from vacuum generating system. c) Charge battery completely. d) Reconnect battery and try to power down again.	
N07	"Auto power-down disabled"	(none)	(none)	Condition: Automatic power-down is prevented. Solution: Power down lifter and power up again.	
N08	"Powering down in # seconds"	1 chirp per minute	(none)	Condition: Lifter will automatically power down in number of seconds shown. Solution: None required. Press any button to cancel action.	
N10	"App-support hardware fault"	(none)	(none)	Condition: Fault is detected in hardware that enables communication with mobile app. Solution: Power down lifter and power up again.	
U00	"WARNING! Is load attached?"	fast chirp	on	Condition: Attempt was made to power down lifter while load was still detected. Solution: Lower load onto stable support and release load before powering down.	
U01	"Also hold [Fn] to power down"	(none)	(none)	Condition: Only <u>"power" button</u> was used. Solution: Hold "power" button AND <u>"function" button</u> at same time to power down lifter.	

36 Rev 2.0/5-25

Code	On-Screen Message	Buzzer Pattern	Strobe Light Activity	Explanations/Directions	
U02	"Turn off? Let go of buttons"	(none)	(possi- ble)	Condition: Incorrect combination of buttons was used in attempt to power down lifter. Solution: Hold only "power" button AND "function" button at same time to power down.	
U03	"Timed release: # seconds"	1 chirp per button press	on	Condition: Timed release function has been activated for number of seconds shown (see "To Release the Pads from THE LOAD"). Solution: None required. Press "function" button to cance action or press "attach" button to override.	
U04	"Also hold [Fn] to release"	(none)	(none)	Condition: Only <u>"release" button</u> was used. Solution: Hold "release" button AND <u>"function" button</u> at same time to release load.	
U06	"Let go of [Fn] and Release"	(none)	on	Condition: <u>"Function" button</u> or <u>"release" button</u> was use in combination with <u>"attach" button</u> . Solution: Use only "attach" button to attach load.	
U08	"Menu not available in Attach"	(none)	(none)	e) Condition: Attempt to access Operator Menus was made while lifter was attached to a load. Solution: Access Operator Menus when lifter is not attached.	
U09	"Counterweight not retracted"	continuous	on	Condition: "Release" function is prevented because counterweight is not positioned correctly. Solution: Reposition counterweight as directed in Count Balancer's OPERATING INSTRUCTIONS and try again.	
U10	"Use POWER button for Live Stats"	(none)	(none)	Condition: <u>"Function" button</u> was used in apparent attempt to access Live Stats. Solution: Use <u>"Power" button</u> to access Live Stats.	
U11	"Testing battery - wait to attach"	(none)	(none)	Condition: "Attach" function is prevented because batter test is in progress. Solution: Wait until vacuum pump stops running and try again.	
V000	"INSUFFICIENT VACUUM!"	continuous	on	REQUIRED ACTION: Immediately lower load onto stable support until sufficient vacuum can be obtained. Condition: Vacuum level is insufficient for lifting. Solution: Check load and vacuum pads for damage, as directed in "Pad Inspection".	
V001 V002 V003 V004	"INSUFFICIENT VACUUM #!" (# indicates relevant vacuum circuit)	continuous	on	REQUIRED ACTION: Immediately lower load onto stable support until sufficient vacuum can be obtained. Condition: Vacuum level in circuit indicated is insufficient for lifting. Solution: Check load and vacuum pads for damage, as directed in "Pad Inspection". Note: These codes can also be activated in connection with Code NOO.	

Rev 2.0/5-25 37 FLEXR(L)8-AC3: #35043

Code	On-Screen Message	Buzzer Pattern	Strobe Light Activity	Explanations/Directions
V011 V012 V013 V014 V015	"Vacuum decrease on circuit #" (# indicates relevant vacuum circuit)	3 chirps	(none)	Condition: Vacuum decreased at faster rate than expected in circuit(s) indicated. Solution: Check for likely causes, including: • bouncing or landing load; • use on rough or porous loads; • other sources of vacuum leaks. Eliminate leaks when possible (see "Pad Inspection" and "Vacuum Test").
V020	"Vacuum not increasing normally"	1 chirp every 2 seconds	on	Condition: After lifter began to attach, vacuum level did not increase at normal rate. Solution: Make sure all vacuum pads seal securely (see "Sealing the Pads on the Load" and "Reading the Vacuum Gauges"). Note: This Code can be activated by use at high elevation. If so, contact WPG for directions.
V03A V03B	"Pump running excessively"	1 chirp every 2 seconds	(none)	Condition: Vacuum pump is running more often than normal. Solution: Likely causes/solutions include: • significant vacuum leak: Check for fault(s) in vacuum system (see "Pad Inspection" and "Vacuum Test"). • high elevation prevents lifter from achieving minimum vacuum level: Contact WPG for directions.
V04	"Lockout (vacuum sensor error)"	continuous	(none)	Condition: A vacuum sensor malfunction prevents "attach" and "release" functions from working, once "Power Save" mode has been activated. Solution: Make sure sensor connectors are attached correctly.
V05	"DANGER! INSUFFICIENT VACUUM!"	continuous	on	REQUIRED ACTION: Keep everyone away from suspended load until it can be safely lowered onto stable support. Condition: Vacuum levels in BOTH circuits are insufficient for lifting. Solution: Service is required.
V081 V082 V083 V084	"Sensor # error (low)" (# indicates relevant vacuum circuit)	continuous in "attach" mode; 1 chirp every minute in "power save" mode	(none)	Condition: Vacuum sensor malfunction in vacuum circuit indicated. Solution: Make sure sensor connector is attached correctly.
V091 V092 V093 V094	"Sensor # error (high)" (# indicates relevant vacuum circuit)	continuous in "attach" mode; 1 chirp every minute in "power save" mode	(none)	Condition: Vacuum sensor malfunction in vacuum circuit indicated. Solution: Make sure sensor connector is attached correctly.

FLEXR(L)8-AC3: #35043 38 Rev 2.0/5-25

REPLACEMENT PARTS

Stock No.	Description	Qty.
93022	Quick Connector – Male End	8
65442AM	Vacuum Hose – 0.245" ID x 3/8" OD x 48" Length – Coiled – Green	4
65441	Vacuum Hose – 0.245" ID x 3/8" OD x 48" Length – Coiled – Red	4
65440TR	Vacuum Hose – 0.245" ID x 3/8" OD – Transparent Red	**
65440	Vacuum Hose – 0.245" ID x 3/8" OD – Red	*
65437TG	Vacuum Hose – 0.245" ID x 3/8" OD – Transparent Green	**
65437	Vacuum Hose – 0.245" ID x 3/8" OD – Green	*
65109	Bearing Strip w/ Adhesive Back	*
53132	Pad Fitting – Tee – 5/32" ID	8
53139	Pad Fitting – Straight – 5/32" ID – Short Stem	8
49606T	Vacuum Pad – Model HV11 / 10" [25 cm] Diameter – Lipped – Oil-Resistant (option)	8
49605T	Vacuum Pad – Model HV11 / 10" [25 cm] Diameter – Lipped (standard)	8
49190	End Plug – 2-1/2" x 3-1/2" x 1/4" Tubing Size	***
49150	End Plug – 2-1/2" x 2-1/2" x 1/4" Tubing Size	***
49122	End Plug – 2" x 2" x 1/4" Tubing Size	***
36106	Service Manual – Dual Vacuum System – Intelli-Grip®	1
29353	Pad Cover	8
16056M	Quick Connector – Female End	8
15799	Plastic Knob – 1/2-13 x 2-1/2"	4
15792DM	Plastic Knob – 1/2-13 x 3/4"	9
15791	Plastic Pull Handle	4
15720	Hose Clamp – 1/2"	8
15630	Pad Filter Screen – Large	8
10523	Screw – Socket Head – 4-3/4" x 3/8-16 Thread (for mounting pads)	64
10001	Screw – Pan Head – 1/4" x 1/4-20 Thread	8

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

*** — Quantity as required.

See **SERVICE MANUAL #36106** for additional parts.

SERVICE ONLY WITH IDENTICAL REPLACEMENT PARTS,

AVAILABLE AT WPG.COM OR THROUGH AN AUTHORIZED WPG DEALER

Rev 2.0/5-25 39 FLEXR(L)8-AC3: #35043

^{** —} For use with barbed fittings only. Do not use with "push-in"-style fittings. Maximum pressure rating: 90 psi @ 75° F [172 kPa @ 24° C]. Length as required; sold by the inch (approx 2.5 cm).

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.

ADDRESS	EMAIL	PHONE
Wood's Powr-Grip Co., Inc.	contactus@wpg.com	(1) 800-548-7341
908 West Main St.		(1) 406-628-8231
Laurel, MT USA 59044		

INTENDED FOR USE BY QUALIFIED SERVICE PERSONNEL

ENGINEERING DRAWINGS

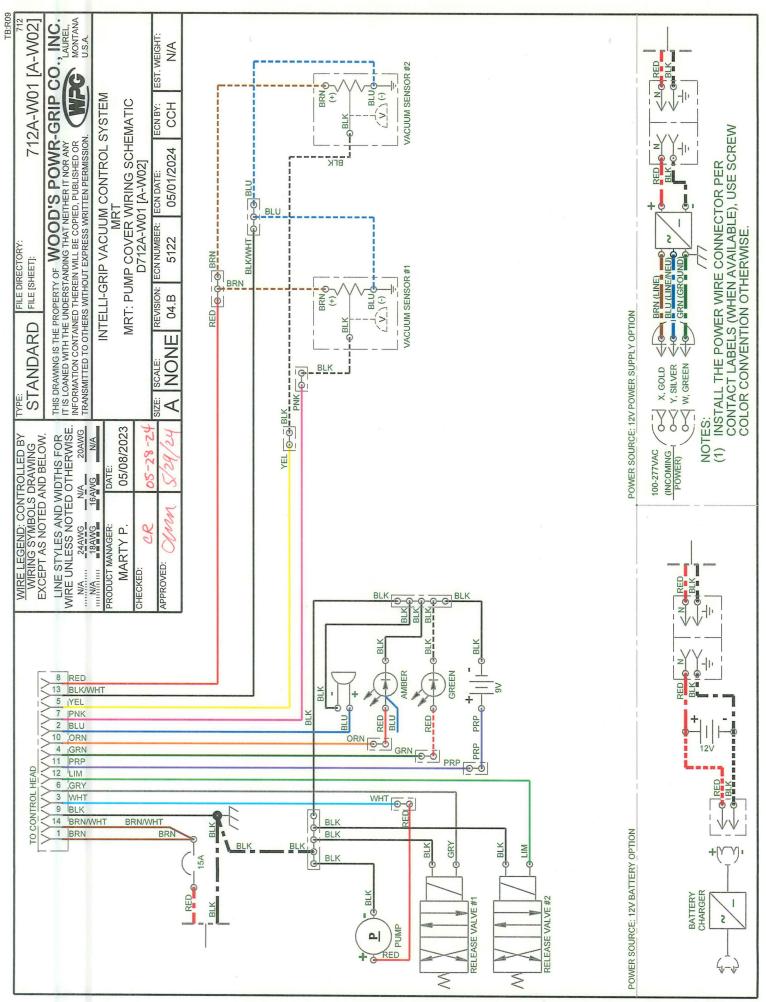
READ AND UNDERSTAND BEFORE ROUTING, WIRING AND/OR ASSEMBLING



July W. Maill • F.C. Bux 300 Laurel, MT USA 59044 (1) 800-548-7341 • (1) 406-628-8231 www.wpg.com

> FLEXR(L) SERIES FLAT LIFTER, AC-VOLTAGE, WITH INTELLI-GRIP® TECHNOLOGY

Model numbers: FLEXR8HV11AC3, FLEXRL8HV11AC3



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