

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Westward® Hydraulic Toe Jacks

Description

Westward hydraulic toe jacks are designed for lifting, but not sustaining rated capacity loads. They are designed to be used vertically. These jacks are suitable for use to lift up heavy objects with low ground clearance. It is not recommended for use in lifting or positioning houses or buildings. These jacks are designed to meet or exceed ANSI/PALD Standards.

Specifications

Model	Capacity	Base Size	Head Saddle Lifting Range	Toe Saddle Lifting Range
1VW31	5 Ton	7-1/2" x 4-5/8"	10-1/2" to 15-5/8"	7/8" to 5-3/4"
1AVP7	10 Ton	11-5/8" x 9-1/4"	11" to 16-1/8"	1-1/8" to 6-1/4"

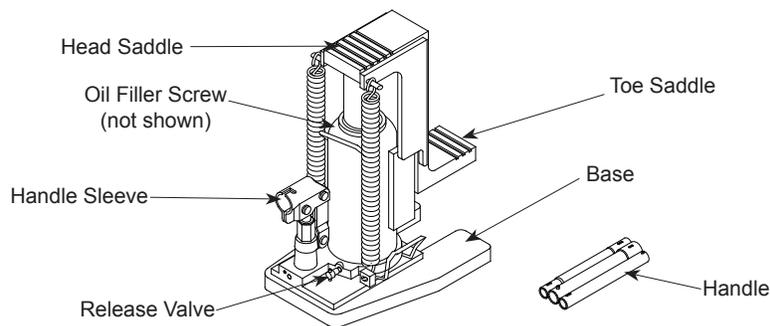


Figure 1- Hydraulic Toe Jack Components

General Safety Information

▲ WARNING Study, understand, and follow all instructions before operating this device. This is a lifting device only. Intended use is for lifting part of a total vehicle, only one wheel or axle at a time. Immediately after lifting, support vehicle with appropriate means. Do not exceed rated capacity. Use only on a hard level surface capable of sustaining rated capacity loads. Lift only on those areas of the vehicle as specified by the vehicle manufacturer. Ensure that the lift point is properly centered on the jack saddle. Always wear safety goggles when using this equipment. Inspect jack before each use. Do not use if bent, broken, leaking, or damaged components are noted. No alteration of this product is allowed. Do not use this device for any purpose other than that for which it was intended. Failure to heed any one or combination of these warnings may result in severe personal injury and/or property damage.

Before Use

Use figure 1 as reference.

- Occasionally hydraulic jacks become air bound and will not function properly. To correct this condition, remove oil filler screw. This will allow any pressurized air to escape.
 - Ensure the oil level is even with or just below the oil filler hole.
 - Reinstall the oil filler screw.
- Thoroughly lubricate all moving parts of the jack.
- With notched end of the handle, close release valve by turning it clockwise firmly and pump saddle to fully extended, then open release valve to lower the saddle.

Operation

LIFTING

- Assemble 3-piece handle by lining up spring pins with corresponding slots.
- Secure load to prevent inadvertent shifting and movement.
- Close release valve by turning handle clockwise until it is firmly closed.
- Position jack under load and pump handle until saddle contacts load.

▲ WARNING Off center loads and loads lifted while jack is not level may damage the jack or cause personal injury.

- Raise load to desired height and immediately transfer load to proper mechanical means such as jack stands.

LOWERING

▲ WARNING Be sure all tools and personnel are clear before lowering load.

- Insert handle onto release valve and slowly turn handle counterclockwise no more than half full turn at a time.
- Push handle sleeve down manually if still extended to reduce piston exposure to rusting

IMPORTANT: Avoid "shock load" created by quickly opening and closing the release valve as load is being lowered. This may result in an overloading of the hydraulic circuit and possible damage to the jack.

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Maintenance

IMPORTANT: Use only a good grade hydraulic jack oil such as Mobil DTE 13M or equivalent. Avoid mixing types of oil. Do not use brake fluid, alcohol, glycerin, detergent motor oil, or dirty oil. Improper fluid can cause serious internal damage to the jack rendering it inoperative.

ADDING OIL

1. With saddle fully lowered and piston depressed, set jack in its upright level position and remove oil filler screw.
2. Fill until oil is level with or just below filler hole, then reinstall filler screw.

CHANGING OIL

1. For best performance and longest life, replace the complete oil supply at least once a year.
2. To drain oil completely, remove the filler screw.
3. Lay the jack on its side and allow the oil to run out into suitable drain pan. Dispose of in accordance with local regulations.
4. Replace with proper oil as described above.

LUBRICATION

Add lubricating oil to all pivoting sections every 3 months.

RUST PREVENTION

Check ram and piston for signs of rust on a regular basis. Clean as needed with a lint free, oil saturated cloth.

NOTE: When not in use, always leave the saddle and ram all the way down.

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Jack will not lift load	<ol style="list-style-type: none"> 1. Release valve not tightly closed 2. Overload condition 	<ol style="list-style-type: none"> 1. Ensure release valve tightly closed 2. Remedy overload condition
Jack lift but not maintaining pressure	<ol style="list-style-type: none"> 1. Release valve not tightly closed 2. Hydraulic unit malfunctioning 	<ol style="list-style-type: none"> 1. Ensure release valve tightly closed 2. Replace hydraulic unit
Jack will not lower after unloading	<ol style="list-style-type: none"> 1. Reservoir overfilled 2. Linkages binding 	<ol style="list-style-type: none"> 1. Drain fluid to proper level 2. Clean and lubricate moving parts
Poor lift performance	<ol style="list-style-type: none"> 1. Fluid level low 2. Air trapped in system escape, reinstall oil filler screw 	<ol style="list-style-type: none"> 1. Ensure proper fluid level 2. With ram fully retracted, remove oil filler screw to let pressurized air
Will not lift to full height	Fluid level low	Ensure proper fluid level

For Repair Parts, call 1-800-323-0620
24 hours a day - 365 days a year

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list

Address parts correspondence to:

Grainger Parts
 P.O. Box 3074
 1657 Shermer Road
 Northbrook, IL 60065-3074 U.S.A.

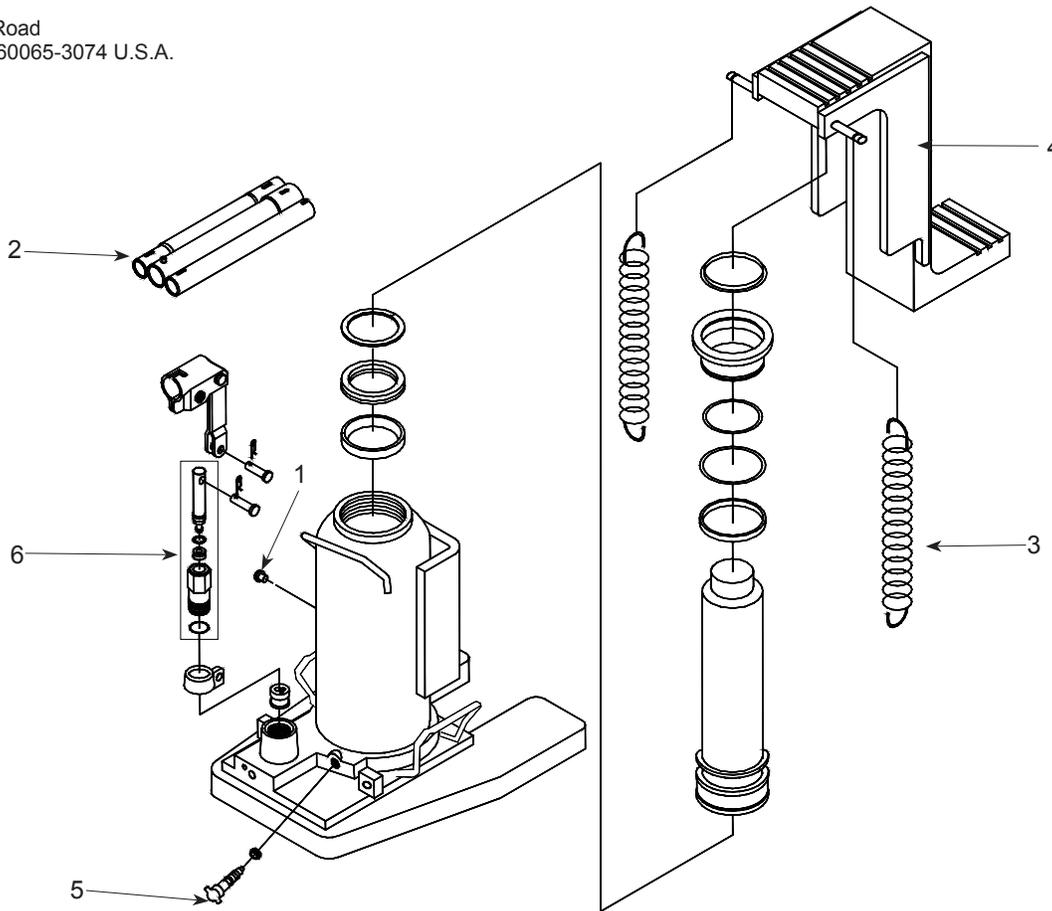


Figure 2 -Repair Parts Illustration

Repair Parts List

Reference Number	Description	Part Number for Model:		Quantity
		1VW31	1AVP7	
1	Oil Filler Screw	505-9-0092-207	G55-4-1900-105	1
2	Handle Assembly	181-3-2100-103	181-3-2100-103	1
3	Return Spring	522-2-0206-104	522-2-0206-104	2
4	Saddle Bracket	186-3-1108-109	226-3-1108-100	1
5	Release Valve	238-6-1701-403	238-6-1701-403	1
6	Pump Assembly	226-4-1415-105	226-4-1415-105	1
**	Repair Kit	186-3-9906-107	186-3-9906-108	1

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LIMITED WARRANTY

WESTWARD ONE-YEAR LIMITED WARRANTY. *Hydraulic Toe Jacks*, covered in this manual, are warranted by Westward to the original user against defects in workmanship or materials under normal use for one year after date of purchase. For limited warranty claim procedures, see PROMPT DISPOSITION below. This limited warranty gives purchasers specific legal rights which vary from jurisdiction to jurisdiction.

LIMITATION OF LIABILITY. To the extent allowable under applicable law, Westward's liability for consequential and incidental damages is expressly disclaimed. Westward's liability in all events is limited to and shall not exceed the purchase price paid.

WARRANTY DISCLAIMER. Westward has made a diligent effort to provide product information and illustrate the products in this literature accurately; however, such information and illustrations are for the sole purpose of identification, and do not express or imply a warranty that the products are MERCHANTABLE, or FIT FOR A PARTICULAR PURPOSE, or that the products will necessarily conform to the illustrations or descriptions.

Except as provided below, no warranty or affirmation of fact, expressed or implied, other than as stated in the "LIMITED WARRANTY" above is made or authorized by Westward.

PRODUCT SUITABILITY. Many jurisdictions have codes and regulations governing sales, construction, installation, and/or use of products for certain purposes, which may vary from those in neighboring areas. While Westward attempts to assure that its products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the product is installed or used. Before purchase and use of a product, review the product applications, and all applicable national and local codes and regulations, and be sure that the product, installation, and use will comply with them.

Certain aspects of disclaimers are not applicable to consumer products; e.g., (a) some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you; (b) also, some jurisdictions do not allow a limitation on how long an implied warranty lasts, consequentially the above limitation may not apply to you; and (c) by law, during the period of this Limited Warranty, any implied warranties of implied merchantability or fitness for a particular purpose applicable to consumer products purchased by consumers, may not be excluded or otherwise disclaimed.

PROMPT DISPOSITION. Westward will make a good faith effort for prompt correction or other adjustment with respect to any product which proves to be defective within limited warranty. For any product believed to be defective within limited warranty, first write or call dealer from whom the product was purchased. Dealer will give additional directions. If unable to resolve satisfactorily, write to Westward at address below, giving dealer's name, address, date, and number of dealer's invoice, and describing the nature of the defect. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit to you, file claim with carrier.

Manufactured for Grainger International, 100 Grainger Pkwy., Lake Forest, Illinois 60045 U.S.A.