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® Heavy Duty Transmission Jacks

Description

Westward heavy duty hydraulic transmission jacks are designed for lifting and lowering of transmissions and differentials from various vehicles ie. car, truck, etc. Their super strong reinforced steel construction with flanged side frames provide extra strength. Load restraining chains help to assure the user's safety when lifting and lowering load. Four casters allow easy movement and easy positioning of transmission jack. The cradle has both side and tilting angle adjusting functions to best fit onto the different shape of various transmissions and differentials. Patented oil by-pass mechanism offers stroke limitation of ram piston. Durable rust-free enamel finish gives long-lasting quality appearance. Metered release valve assures precise adjustment of cradle height and smooth lowering of load.

Specifications

Model	Capacity	Min. Height	Max. Height
1ZKY1	1,100 lb	9"	24-3/4"
1ZKY3	2,000 lb	7 7/8"	33-1/4"

General Safety Information

⚠ WARNING ***Study , understand and follow all instructions before operating this device. Inspect jack before each use. Do not use if bent, broken, leaking or damaged components are noted. No alteration of this product is allowed.***

Lifting device only. Intended use is for removing, transporting and installing transmission or specified components only.

Do not exceed rated capacity. Use only on hard, level surfaces capable of sustaining rated capacity loads.

For your safety, do not exceed 10º tilt angle of the saddle assembly in all directions. Do not lift or support a vehicle with a transmission jack. Immediately after lifting, support vehicle with appropriate means. Always wear safety goggles when using this equipment.

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.

Assembly

Refer to Figure 1 & 2.

1. Two pieces of aux. fixed bracket assembly and a one-piece handle should be included in package.
2. Attach either one of the two aux. fixed assemblies to the saddle, and secure by hex bolts and washers provided. Then apply the same procedure for the other assembly.
3. Occasionally hydraulic jacks become air bound and will not function properly. To correct this condition, remove oil filler plug. This will allow any pressurized air to escape.
4. Check for proper oil level (See adding oil, Page 2), adjust as needed. DO NOT OVERFILL. Reinstall oil filler plug.

Operation

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

TAKING OFF TRANSMISSION/ DIFFERENTIAL FROM VEHICLE

1. Close the release valve by turning the release knob clockwise.
2. Operate the jack by pumping the jack handle to desired height.
3. Adjust the saddle in side position and tilting angle to best fit to the shape of transmission/differential.
4. Secure the transmission/differential by chain and tighten properly.
5. After removing all of the appropriate bolts and fasteners which securing the load to vehicle, carefully position and lower the load to the lowest practical height. Move load to desired workplace.

⚠ CAUTION This is a lifting device only. The load must be supported immediately by other appropriate means.

PUTTING TRANSMISSION/ DIFFERENTIAL INTO VEHICLE

1. Place transmission/differential on jack saddle and properly secure by chain.
2. Cautiously pump jack handle to lift up the transmission/differential to desired height.
3. After all securing bolts are properly fastened, open the release valve by turning release knob counterclockwise to lower the jack to minimum height.

⚠ WARNING ***Avoid shock loads created by quickly opening and closing the release valve as the load is being lowered. Shock loads can create dangerously high operating pressures within the hydraulic system, causing system failure and resulting in personal injury and/or property damage.***

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Westward ® Heavy Duty Transmission Jacks

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 break fluid, alcohol, glycerin, motor oil etc. Improper fluid can cause serious internal injury to the jack, rendering it inoperative.

ADDING OIL

1. Position the jack on level ground with saddle fully lowered, remove oil filler plug.
2. Oil level should be within 3/8" of filler hole. DO NOT OVERFILL. If overfilled, the jack will not lower to published minimum height. If underfilled, the jack will not reach published maximum height. Adjust fluid level as needed. Always reinstall oil filler plug before use.

CHANGING OIL

1. For best performance and longest unit life, replace the complete oil supply at least once a year.
2. To drain the oil, remove the filler plug.
3. Lay the jack on its side and allow the oil to run out into suitable drain pan. Dispose of hydraulic oil in accordance with local regulations.
4. BE CAREFUL to prevent dirt or foreign matter from entering the system.
5. Replace with proper oil as described above.

LUBRICATION

Add lubricating oil to all pivoting sections every 3 months.

PREVENTING RUST

1. Check ram and piston for signs of rust on a regular basis. Clean as needed with an oily cloth.
2. When not in use, store jack with saddle and piston fully retracted.

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Jack will not lift load	1. Release valve not tightly closed	1. Ensure release valve tightly closed
	2. Overload condition	2. Remedy overload condition
Jack will lift but not maintain pressure	1. Same as above	1. Same as above
	2. Hydraulic unit malfunctioning	2. Replace
Jack will not lower after unloading	1. Reservoir overfilled	1. Drain fluid to proper level
	2. Linkages binding	2. Clean and lubricate moving parts
Poor lift performance	1. Fluid level low	1. Ensure proper fluid level
	2. Air trapped in system	2. With ram fully retracted, remove oil filler plug to let pressurized air escape, reinstall oil filler plug
Will not lift to full height	Fluid level low	Ensure proper fluid level

For Replacement 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.

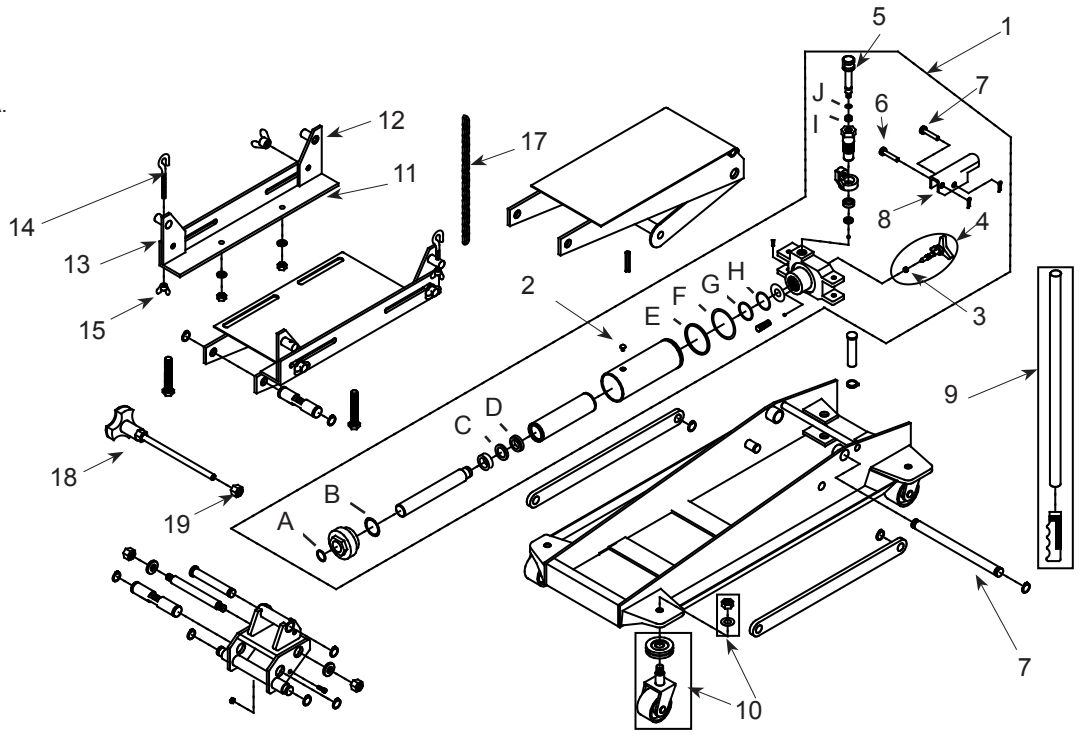

Figure 1 — Repair Parts Illustration for model 1ZKY1

Repair Parts List

Reference Number		Description	Part Number For Model: 1ZKY1	Quantity
1	*	Power Unit	4500-01000-000	1
2		Oil Filler Plug	5905-00100-100	1
3		Oil Seal	5905-00091-000	1
4		Release Valve	4500-90009-K03	1
5		Pump Piston	4500-01301-000	1
6		Pin	5403-10038-000	1
7		Pin	5403-08038-000	1
8		Handle Fork	4500-01008-000	1
9		Handle Assy.	4500-02000-000	1
10		Caster Assy.	4500-90009-K02	4
11		Angle Bar	4500-03300-000	2
12		Angle I	4500-03100-000	2
13		Angle II	4500-03200-000	2
14		Screw Hook	4500-03001-000	2
15		Wing Nut M6	5207-00006-000	2
16		Wing Nut M10	5207-00010-000	4
17		Chain	4500-03002-000	1
18		Tilt Screw	4800-03600-000	1
19		Nut, M12	5202-00012-001	1
(*)		Seal Kit (Includes 2,3 and A ~J)	45000S-071.	1

For Replacement 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.

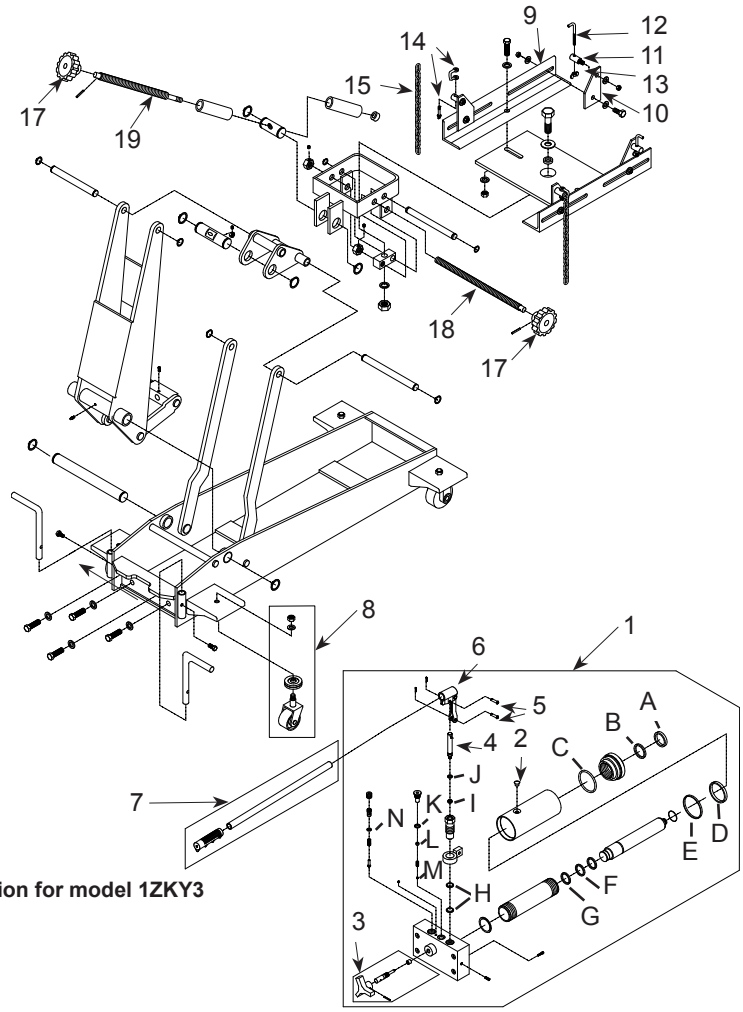

Figure 2 - Replacement Parts Illustration for model 1ZKY3

Repair Parts List

Reference Number		Description	Part Number For Model: 1ZKY3	Quantity
1	*	Power Unit	4200-01000-000	1
2		Oil Filler Plug	5905-00100-100	1
3		Release Valve	4200-90009-K02	1
4		Pump Piston	4200-01401-000	1
5		Pin	5405-07027-000	2
6		Handle Fork	4200-01300-000	1
7		Handle Assy.	4500-02000-000	1
8		Caster Assy.	4200-90009-K01	4
9		Angle Bar	4200-03007-000	2
10		Angle	4200-03010-000	4
11		Hook Screw	4200-03003-000	4
12		L-Hook	4200-03011-000	2
13		Wing Nut, M8	5207-00008-000	2
14		Shackle	4200-03600-000	2
15		Chain	4200-03004-000	2
16		Hex. Bolt, M16	5103-16065-000	1
17		Knob	4200-03401-000	2
18		Tilt Screw	4200-03402-000	1
19		Tilt Screw	4200-03501-000	1
20		Bearing	K040-03000-100	1
(*)		Seal Kit (Includes 2,3 and A ~O)	42000S-102.	1

Manufactured for Grainger International, Inc., Lake Forest, IL 60045 U.S.A.

Westward® Heavy Duty Transmission Jacks

LIMITED WARRANTY

WESTWARD ONE-YEAR LIMITED WARRANTY. *Heavy Duty Transmission Jacks, covered in this manual, is 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 thisLlimited 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.*

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