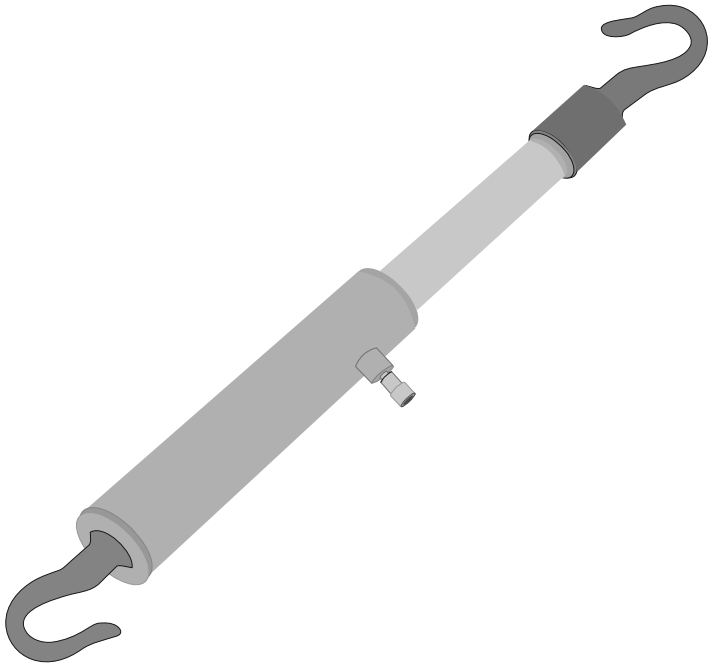
Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 18f

Central Hydraulics®

5 TON PULL-BACK RAM



Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

SAFETY WARNINGS AND CAUTIONS

1. **DO NOT USE FOR LIFTING.**
2. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
3. **KEEP CHILDREN AWAY.** All children should be kept away from the work area. Don't let them handle the tool.
4. **DO NOT ASSEMBLE OR OPERATE THIS TOOL IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to assemble or operate.
5. **AVOID MOVING PARTS WHILE USING THE PULL-BACK RAM.** Once unit is set in place keep fingers and hands away from contact areas. If unit needs to be moved, release pump pressure, move, and resume pumping.
6. **USE EYE PROTECTION.** Wear ANSI-approved impact safety goggles. Goggles are available from Harbor Freight Tools.
7. **DRESS SAFELY.** Protective gloves and non-skid footwear or safety shoes are recommended when working with and operating the Ram. Don't wear loose clothing or jewelry. They can get caught in moving parts. Also, wear a protective hair covering to prevent long hair from getting caught in the Pull Back Ram.
8. **DON'T OVERREACH.** Keep proper footing and balance at all times.
9. **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate any tool when you are tired.
10. **10,000 LB. LIMIT.** Do not operate beyond rated capacity.
11. **REPLACEMENT PARTS AND ACCESSORIES.** When servicing, use only identical replacement parts. Only use accessories intended for use with the Pull Back Ram. Approved accessories are available from Harbor Freight Tools.
12. **STORE IDLE EQUIPMENT.** When not in use, the Pull Back Ram should be stored in a dry location to reduce rust. For safety, store the Pull Back Ram in a locked cabinet, out of reach of children. During long term storage, coat the exposed chrome area of the Ram with a protective lubricant (such as silicon spray) to prevent rust damage
13. **KEEP COUPLER VALVES PROTECTED WHEN NOT IN USE.** Dust caps are included for all coupler valves and should be screwed in when not in use to keep the equipment clean.

ASSEMBLY

1. This product must be used with a hydraulic pump and hydraulic hose, both sold separately.

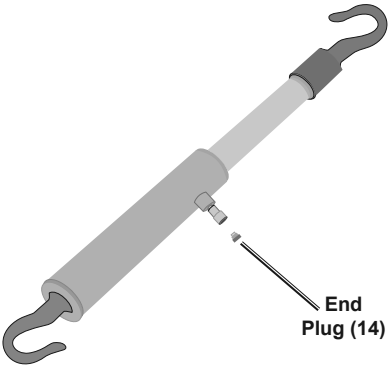


Figure A: Removing End Plug

2. Unscrew and save the End Plug located on the end of the Coupler as shown in Figure A.

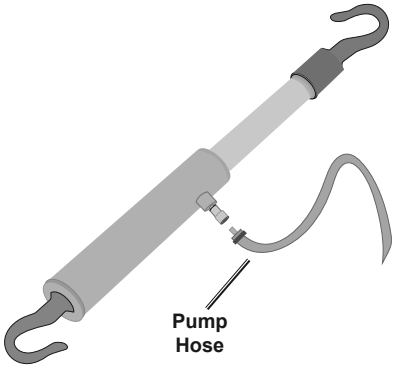


Figure B: Connecting Hose

3. Securely screw the hydraulic pump hose (not included) into the Coupler as shown in Figure B.

4. Refer to the Hydraulic Pump instruction manual for pump assembly instructions.

OPERATION

The Ram may be used in a horizontal position. Its Hooks can turn to hook from various angles.

<u>WARNING!</u> Do not use for lifting.

1. Refer to the Hydraulic Pump instruction manual for pump operation.
2. Position the Hydraulic Pump on a stable surface close to the pulling area.
3. Connect one Hook to the object to be moved and the other Hook to a stable base as shown in Figure C. A chain or strap may be used on either side to provide a hooking surface. Any chains or straps used must be rated to support the pulling weight.
4. Slowly apply pressure to the Ram using the Pump. Use caution; watch for damage to stressed areas and ensure personal safety at all times.
5. When the object has reached the desired position, make sure it is stable and slowly release pressure to the Ram. If the object is not stable, affix it in place before releasing pressure to the Ram.



Figure C: Connecting Chain and Strap

CARE AND MAINTENANCE

1. Keep all moving parts well lubricated. Using a high quality lubricating oil, coat the Ram (23) before every use.
2. Occasionally the Ram will need to be purged of air (bled). The symptoms will include: slow response to pumping, a spongy feeling to pumping, the Ram not compressing as far as it should, and a loss of pulling power. Bleeding the ram requires specialized tools and procedures. Only a qualified technician should bleed the Ram.

PARTS LIST

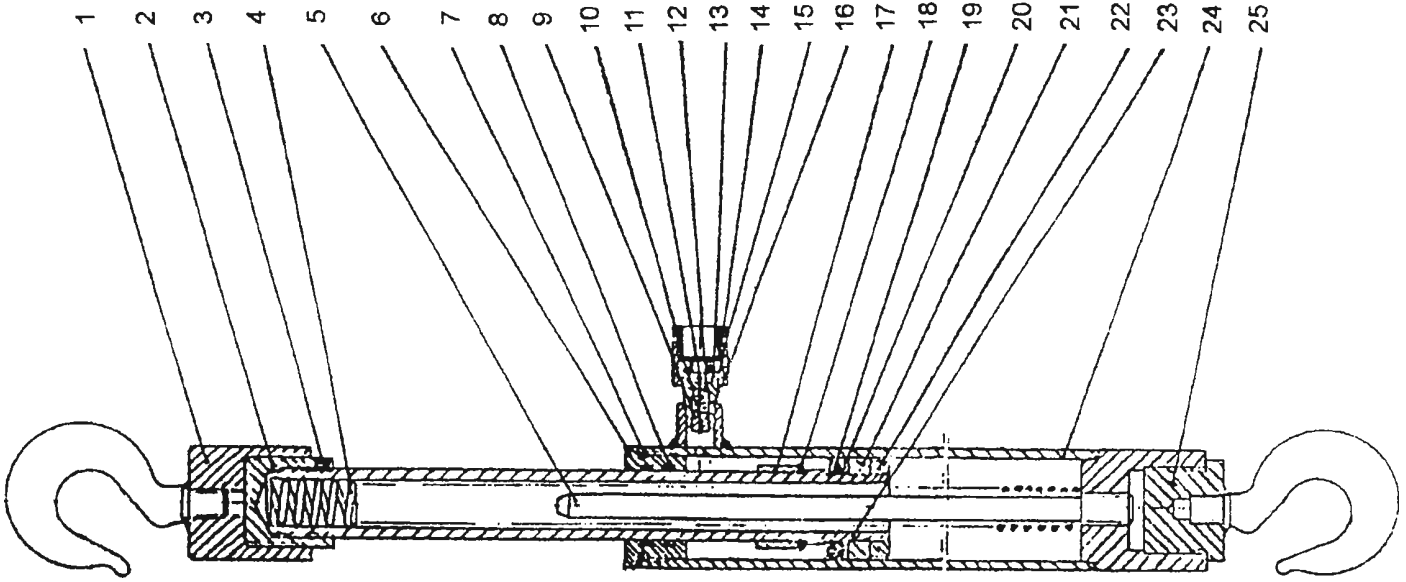
Part	Description	Qty
1	Upper Hook	1
2	Nut	1
3	Hex Screw	1
4	Spring	1
5	Shaft	1
6	Nut	1
7	O-Ring	1
8	O-Ring	2
9	Spindle Screw	1
10	Spring	1
11	Valve	1
12	Oil Ring	1
13	O-Ring	1

Part	Description	Qty
14	End Plug	1
15	Connection Nut	1
16	Coupler	1
17	Bushing	1
18	Retaining Ring	1
19	O-Ring	1
20	U-Type Packing	1
21	Collar	1
22	Nut	1
23	Ram	1
24	Cylinder	1
25	Lower Hook	1

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

DIAGRAM



Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Central Hydraulics®

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