



Assembly & Instruction Manual

5 TON PULL BACK RAM

Model **3170**



Distributed Exclusively By



THANK YOU FOR BUYING CUMMINS INDUSTRIAL TOOLS
Your new 5 Ton Pull Back Ram has been engineered and manufactured to Cummins tools high standards for dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.

CAUTION: Carefully read through this entire operator's manual before using your new machine

Pay close attention to the Rules for Safe Operation, Warnings, and Cautions. If you use your machine properly and only for what it is intended, you will enjoy years of safe, reliable service.

SAVE THIS MANUAL FOR FUTURE REFERENCE



WARNING

To reduce risk of injury, everyone using, installing, repairing, maintaining, changing accessories on, or working near this tool must read and understand these instructions before performing any such task.

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*You can purchase additional
items at www.cumminstools.com*

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7. **Use eye protection.** Always wear ANSI approved impact safety glasses underneath a full face shield during use. Also, wear heavy duty work gloves.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
9. **Maintain tools with care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. The handles must be kept clean, dry, and free from oil and grease at all times.
10. **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before starting work.
11. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
12. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Any part that is damaged should be replaced.
13. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Cummins Industrial Tools.
14. **Do not operate 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 operate the tool.

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THIS MANUAL

You will need this manual for the safety instructions, assembly and operating instructions and parts list. Put it in a safe, dry place for future reference. **Keep your invoice with this manual. Write the invoice number on the inside front cover.**

<p>READ ALL INSTRUCTIONS BEFORE ASSEMBLING OR OPERATING THE PULL-BACK RAM.</p>

SAFETY WARNINGS & CAUTIONS

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
2. **KEEP CHILDREN AWAY.** All children should be kept away from the work area. Don't let them handle the tool.
3. **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.
4. **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.
5. **USE EYE PROTECTION.** Wear ANSI approved impact safety goggles. Goggles are available from Cummins Industrial Tools
6. **DRESS SAFELY.** Protective gloves and non-skid footwear or safety shoes are recommended when working with and operating the Pull Back 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 .
7. **DON'T OVERREACH.** Keep proper footing and balance at all times.
8. **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate any tool when you are tired.
9. **20,000 LB LIMIT.** Do not operate beyond rated capacity.
10. **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 Cummins Industrial Tools
11. **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) in order to prevent rust damage.
12. **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.

UNPACKING

When unpacking your Pull-Back Ram, check to make sure the following parts are included. If any parts are missing or broken, please call Cummins Industrial Tools at the number on the cover of this manual.

Item #	Description	Qty
1	Pull-Back Ram	1
2	End Plug	1
3	Female End Hook (attached to Ram)	1
4	Male End Hook (attached to Ram)	1

OVERVIEW

Your Pull Back Ram is designed for pulling up to 20,000 pounds. Never exceed the maximum weight for the Pull-Back Ram as it may damage the equipment and cause serious injury.

Your Pull-Back Ram is designed to be used with a hydraulic pump that and hydraulic hose may be purchased separately from Cummins

ASSEMBLY

PULL-BACK RAM and HYDRAULIC PUMP Assembly

Step 1: Unscrew and save the END PLUG (#14) located on the end of the Pull-Back Ram COUPLER (#16) as shown in Figure 1.

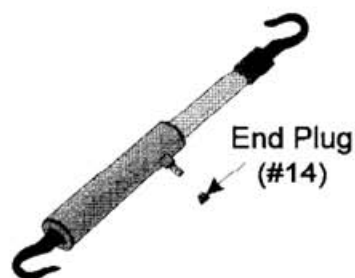


Figure 1 -- Removing End Plug



Figure 2 -- Connecting Hose

Step 2: Securely screw the Hydraulic Pump Hose (not included) into the Pull Back Ram COUPLER as shown in Figure 2.

Step 3: Refer to the Hydraulic Pump instruction manual for pump assembly instructions.

OPERATION

General Operation

The PULL-BACK RAM may be used in either a horizontal or a vertical position. Its HOOKS (#3,#4) will turn to accept hooking from different angles.

Refer to the Hydraulic Pump instruction manual for pump operation.

Step 1: Position the Hydraulic Pump on a stable surface close to the pulling area.

Step 2: Hook one end of the Pull-Back Ram to the object to be moved and the other end to a stable unmovable base as shown in Figure 3. A chain or strap may be used on either side to provide a hooking surface. Make sure the chain or strap is rated to support the pulling weight.

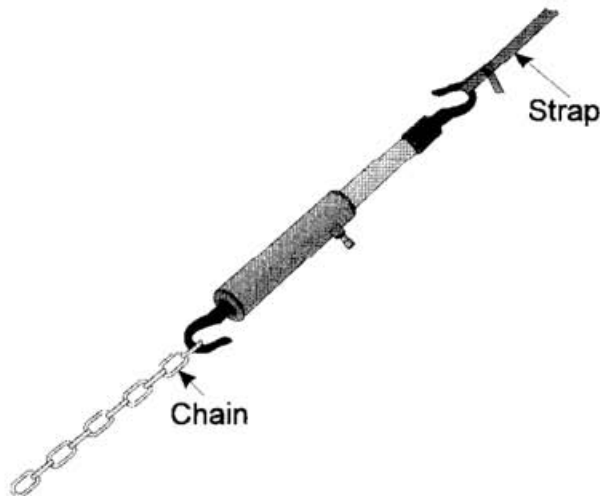


Figure 3 -- Connecting Chain and Strap

Step 3: Slowly provide pressure to the Pull-Back Ram. Use caution; watch for damage to stressed areas and ensure personal safety at all times.

Step 4: When the object has reached the desired position, make sure it is stable and slowly release pressure to the Pull-Back Ram. If the object is not stable, affix it in place before releasing pressure to the Pull-Back Ram.

CARE AND MAINTENANCE

Keep all moving parts well lubricated. Using a high quality lubricating oil, coat the RAM (#23) before every use.

Occasionally the RAM will need to be purged of air. 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

Step 1: Disconnect the Pull-Back Ram from the hose (not included).

Step 2: Press down on the RAM (#23) piston and while depressing the VALVE (11) located inside the Pull-Back Ram COUPLER (#16) as shown in Figure 4. Any trapped air will be slightly pressurized and will be audible when released.

Step 3: Repeat as needed.

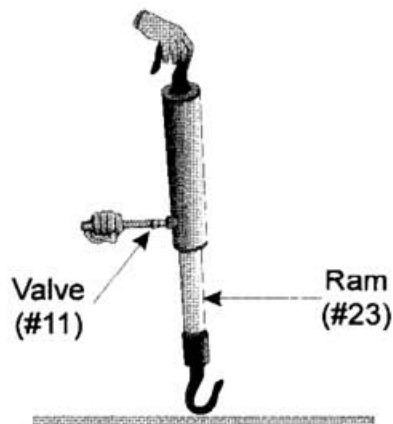


Figure 4 -- Bleeding Ram

PARTS LIST

Item #	Description	Qty
1	Up-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

Item #	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	Down Hook	1

