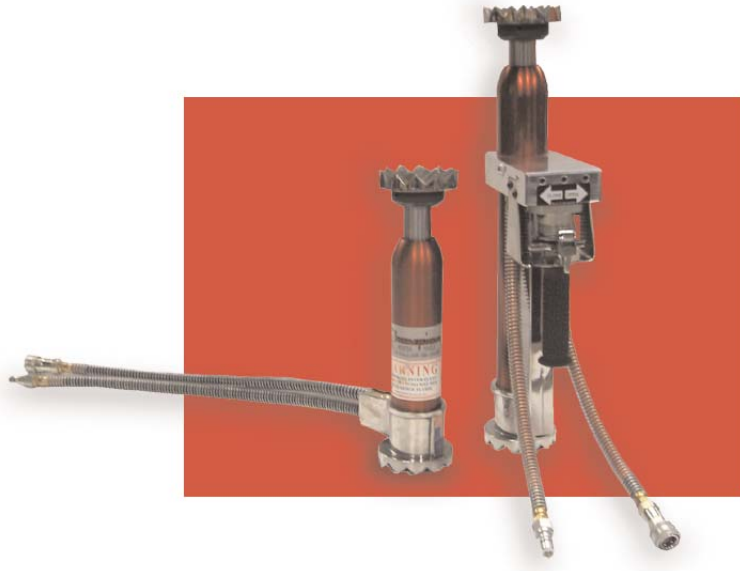




Rams and Ram Accessories



This Manual Covers the Following Equipment:

Small Ram (RR-13-19)
Large Ram (RR-19-33)
Large Ram with Attached Control
Dual Remote Control Unit (DR-1)
Small Ram Extension (RE-S)
Large Ram Extension (RE-L)
Ram Coupler (RR-C)

Note: Small Ram and Large Ram without ACV require a remote control

- Technical Specifications
- General Safety/Operating Instructions
- Using Rams and Ram Accessories
- Maintenance Instructions

This is a detailed instruction guide specific to Champion Rescue Tools Rams and Ram Accessories - please see separate information provided for general hydraulic tool usage, warranty information, MSDS information, etc.

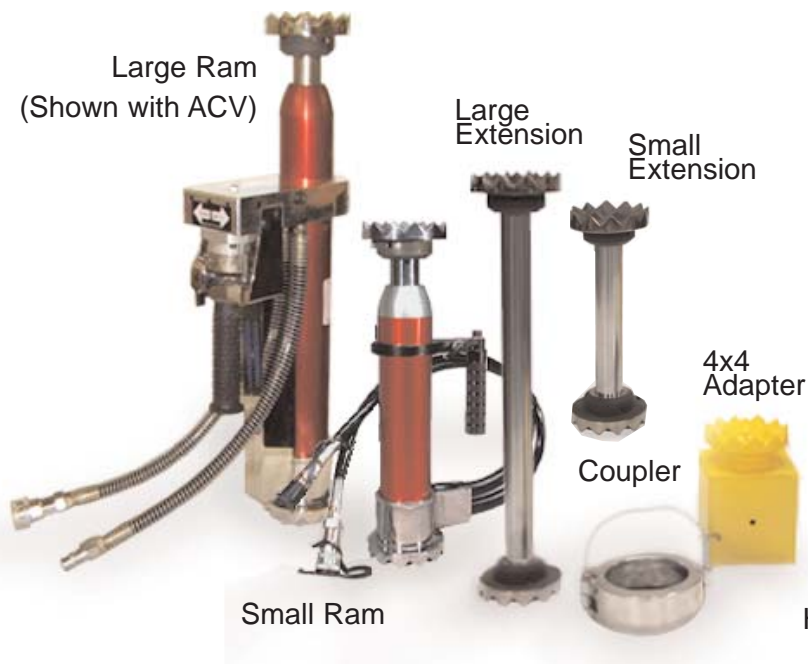
when every second counts
trust a champion

Introduction

Thank you for purchasing a Champion Ram and/or Ram Accessory. For General Operating and Safety

Instructions please refer to the "General Operating Procedures" Booklet furnished with your tool.

Technical Specifications: Rams and Ram Accessories



Large Ram:

WEIGHT: 19.3 lbs. with fluid and connectors

OPEN LENGTH: 33.0 inches

CLOSED LENGTH: 21.0 inches

Small Ram:

WEIGHT: 13.4 lbs. with fluid and connectors

OPEN LENGTH: 19.0 inches

CLOSED LENGTH: 13.0 inches

Overall:

OPERATING PRESSURE: 5,000 or 10,500PSI as specified

HYDRAULIC FORCE: 13,000 lbs

HYDRAULIC FLUID TYPE: As specified by the customer

General Safety and Operating Instructions

1. Always turn the power unit to the "off" position and place the control valve in the 'off' position for any service or cleaning work. You should also "dump" the valve by pushing it all the way to one side and then the other – this releases any stored energy and eliminates tool creep.

2. Familiarize yourself with the tool(s) and control valve, moving the control valve back and forth until familiar with the valve action and operation. NEVER put any part of your body between the moving parts of this or any other tool!

3. Using a hydraulic tool is a one person operation with no exceptions.

5. The Hydraulic Cylinder on your new tool operates under extreme pressure and is a sealed unit. Under normal use, it does not require service. The factory sealed cylinder must NEVER be taken apart – doing so will void your warranty and could potentially result in severe injury or even death.

6. As long as the cylinder remains sealed and is not tampered with, any defects or malfunctions are covered by the Champion lifetime warranty (to the original purchaser). See the "Champion Rescue Tools Statement of Lifetime Warranty" for additional information.

7. The control valve must be kept clean. Blow off sand and dirt with an air hose. Use WD-40 on the valve spring. Valve does not need any maintenance.

8. As with all Champion Rescue Tools, the operating speed can be slowed down or increased by moving the trigger accordingly. If the trigger is opened partially the movement will be slow; If the trigger is opened all the way movement will be faster.

Always use proper safety gear and follow all safety instructions as outlined in this manual.

Ram Operating Instructions (Large and Small) - no ACV

1. The Small Ram or the Large Ram can be used separately with the controller and can use the Ram Extension(s) to extend the single ram to a great length. Rams can also be coupled together for even greater flexibility. You must use caution and keep ram assembly as straight as possible.
2. When coupling rams, or ram to extension(s), always connect the base of the ram located next to the hoses on the ram. The ram will not couple to another ram, or extension, in any other way.
3. Familiarize yourself with the tool(s) and control valve, moving the control valve back and forth until familiar with the valve action and operation. NEVER put any part of your body between the moving parts of this or any other tool!
4. This is a one person operation only no exception.
5. A safety tab on the ram head prevents operators from incorrect hook-up.

6. To avoid possible injury do not stand, nor position yourself or others in front of, or behind, the direction in which the ram is pushing.

7. Always cycle the Dual Remote Controller back and forth several times prior to disconnecting to bleed off any stored pressure. Always keep a firm grip on the ram handle so it does not slip out and NEVER put your hands on the top cap or the base that could potentially pinch or crush when the ram is extended. Hands belong on control and handle only.

8. As with all Champion Rescue Tools, the operating speed can be slowed down or increased by moving the trigger as follows: if the trigger is opened partially the movement will be slowed; moving the trigger all the way over to the maximum position will increase the speed.

1. Inspect tool head and the overall tool after every

Large Ram Operating Instructions with ACV

This ram has a built-in control and does not require the Dual Remote. It can be used with the Large Ram Extension or the Small Ram Extension and the Ram Coupler. The Ram Coupler is used to extend the operating length(s).

The Large Ram with ACV operates the same as above, however the valve is attached. Follow the same operating and safety features as previously described.

All Champion Rams, as well as all Champion Rescue Tools Products, can be used in a push or spreading position. Once cribbed they can be disconnected from the power unit ground hose by:

1. Turning the valve on the power unit to the "dump" position.

2. Disconnect the whip hoses from the ground hoses.

3. DO NOT TOUCH OR OPERATE TRIGGER AS THIS WILL RELEASE FLUID AND CHARGE THE WHIP HOSES WITH PRESSURE! THIS MAKES IT EXTREMELY DIFFICULT TO RECONNECT BACK TO AN OPERATING MODE.

4. To reverse this process, connect ground hoses to the tool's whip hoses and turn valve at pump to the "on" position. This will enable you to close the ram(s).

Maintenance Instructions

1. Inspect ram ends and the overall tool after every use for wear and damage. Never use a damaged tool.
2. Remove any debris from the tool or heads.
3. Keep the tool clean and dry. Wipe with a clean cloth if necessary. Use a mild detergent to clean the tool and dry thoroughly.
4. Lubricate the valve spring with a light lubricant, such as WD-40.
5. Ensure that the handle is tight.

6. Inspect couplers to ensure that they operate correctly and are free of dirt and debris. Blow out with air hose if needed.

7. Inspect hoses for cracks, cuts and bulges. DO NOT operate tools with a damaged hose.

8. Keep tool free from rust and corrosion.

9. Replace handle if broken or damaged.

10. Replace Missing or damaged decals, if needed.

Support

Should you require either technical, service, training or any other type of support, please contact our Corporate Offices at:



814 Berry Court, Upland, CA 91786 USA

Phone: (909) 982-1126 Fax: (909) 982-0050

Toll Free: 1-888-396-2426 www.championrescuertools.com

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24 Hour Emergency Line: 909-790-5690