



general operating procedures

for all Champion Hydraulic Rescue Tools



- Tool Unpacking/Set Up
- Operating Safety
- Troubleshooting Guide
- Tool Registration
- User Maintenance

This is a general usage guide that applies to all Champion Hydraulic Rescue Tools - please see separate information provided for warranty information, detailed specific tool instructions, MSDS information, blade exchange program information, etc.

when every second counts
trust a champion

Congratulations!

...and thank you for purchasing a Champion Rescue Tool. This guide is designed to help you set

up and safely and efficiently operate your new hydraulic rescue tool(s) for many years to come.

Tool Unpacking/Set Up

Your new tool has come to you ready to be put into service. It has been fully charged with the specified hydraulic fluid, and has been thoroughly tested before leaving our manufacturing facility to ensure proper operation.

Be sure to locate and remove all items from the packing material in the box(es). If your package(s)

arrived to you damaged, or if any of the items inside appear damaged, please report the problem to the shipping carrier immediately. In fact, the best time to do so is when the package is initially delivered, so if you notice damage be sure to ask the shipper to make a note of it on the spot. Then please contact us directly at 1-888-396-2426 to alert us so we can assist you in resolving any problems.

How to Use This Manual

This operator's manual is not only designed to assist you in setting up your tool, but it also contains valuable reference and safety information which you may want to refer back to in the future. So be sure to save this manual and keep it in a safe place!

To minimize the potential for injury, stay safe and keep you tool in good condition be sure to follow these guidelines:

Read and understand all instructions prior to turning

on and operating any equipment

Take all warnings contained in this manual seriously – your safety, and at times yours or your patient's life may depend on it

Follow all instructions and warnings contained on the hydraulic equipment itself, as again, your safety, and at times yours or your patient's life may depend on it.

Operating Safety

Champion Rescue Tools are designed and manufactured to provide excellent service when used for their intended purpose. Champion Rescue Tools engineers made operator safety one of their major considerations in the tool design and operator manuals are provided to promote their safe usage.

Hydraulic rescue tools operate with extreme force and high pressure. They are intended to be used only by skilled and trained operators. All users must take the time to familiarize themselves with the tool and the procedures for operating the tool prior to using the equipment. Note: 5,000 psi tools are not compatible with 10,500 psi tools or vice versa and should **NEVER** be connected to each other. Serious injury or death can occur.

Never place any portion of your body on or near any of the moving parts of the tool. More specifically, even though the blade or tip movement on cutting and spreading tools appears slow you should never put your hands, body parts or any foreign objects

other than work material inside the operating area. Hydraulic tools use extreme force and can easily sever just about anything put into the operating area. Work material should always be properly supported or cribbed - Never support work material with your hands. And be sure to stay away from free ends of work material. While it is not typical that the material being cut would release from the tool with a burst of energy, it is possible, especially if the tool is improperly loaded or if you are cutting in extreme conditions. And be sure to notice the direction the valve is moved to both open and close your new tool prior to putting the tool into operation.

Always keep tool in a safe operating environment free of clutter, trip hazards, debris, etc. Never operate the tool if anyone within 50 ft. of the work area is not properly outfitted with personal protection equipment and stands clear of cut area and ends of work material. Never operate the tool if you are feeling tired, or under the influence of drugs, medication or alcohol - stay alert!

A Word About Hydraulic Fluid...

Your new tool has been shipped to you configured to use the appropriate hydraulic fluid and operating pressure as specified on your purchase order and/or sales agreement. An MSDS (Material Safety Data Sheet), which is shipped with your new tool, will provide you with the specific use, safety and precautionary measures required for the fluid in use. If you misplace your MSDS sheet please feel free to contact Champion directly for a replacement copy. Knowing about the fluid you are using and the proper guidelines for using it properly is very important. Some hydraulic fluids can be fairly caustic and should be treated accordingly. And ANY fluid discharged under high pressure presents a serious safety risk. Streams of high pressure fluid can easi-

ly cut, pierce or lacerate your protective equipment. And due to the high temperatures that can be generated by these systems when in use, discharged fluid can cause severe burns. Note: Never use any fluid other than that which is originally installed and approved for your equipment. Changing fluid types is a complex procedure – you cannot simply drain one fluid type and refill with a different one – it will contaminate your system which could cause malfunction, damage or operator injury. If you wish to change fluids, a professional must fully purge the system, flush it and install the proper couplers that are compatible with the new fluid. Contact us for additional information on fluid type changes before initiating any changes.

A Word About Hydraulic Hoses...

The hoses on your new tool (both short whip hoses and longer connection hoses) are designed for specifically for use with high pressure hydraulic tools. They come equipped with quick disconnect couplers, which are twisted and pulled to release and engage. Make sure your couplers and fittings are clean, not bent and properly connected at all times. Failure to do so can cause tool damage, failure, personal injury or even death. Inspect your hoses for any small holes or blisters. If you have

any concern about a hose or coupler take it out of service immediately. A high pressure leak and stream of fluid under pressure emerges with extreme force and is not something to take lightly. A high pressure injection is very serious and should be checked out by a physician immediately – no exceptions! If hoses are disconnected for more than the time it takes to change a tool, be sure to couple the hose ends together.

General Operating Guidelines...

Wear proper safety gear (PPE) at all times.

Before removing any tool or part(s), the control valve on power unit should be turned to the **OFF** position and control valve on tool should be turned fully to the right once and then fully to the left once to neutralize any stored hydraulic pressure.

Inspect the tools for obvious broken, damaged, or missing parts before and after use.

Record serial numbers and document for future use regarding maintenance and be sure to return your warranty card(s) to Champion Rescue Tools immediately after taking delivery of your new equipment.

Turn power units **OFF** before connecting or disconnecting any hose lines.

Be careful with the positioning of your hands while operating a tool to avoid pinching fingers. Do not place yourself between the tool and vehicle at ANY time - always stay at the opposite side. In the event of any twisting or unexpected movement of the tools, work piece or vehicle you always want to be

conscious of your safety first.

Care must be taken by the operator when examining, selecting, and testing materials to be cut. The cutting of cast, hardened or untested material is **HAZARDOUS**, and not recommended.

Be sure that anyone within the general vicinity of the work being done is also protected by wearing the proper safety gear.

Never cut under any conditions an unsecured free end or loose part or structure.

Do not operate tools when you are fatigued, have been drinking alcoholic beverages, or have taken medication. You must be in good physical condition and mentally alert when operating the tools.

Keep your balance and a firm footing.

Do not reach with tools.

A Full face shield is always recommended.

Always wear close fitting and protective clothing.

Limitation of Liability for Special, Incidental or Consequential Damages

Champion Rescue Tools shall not in any case be liable for special, incidental, or consequential damages arising from breach of warranty, breach of contract, strict liability, negligence, or any other legal theory. Such damages include, but are not limited to, loss of profits or revenue, loss of use of the

products, facilities or cost of capital, cost of any substitute products, facilities or services, downtime costs, injury or death that occurs directly or indirectly from operating the equipment, or any other claimed economic loss or claims of third parties for any such damages.

Troubleshooting Guide

Sometimes a performance problem can be easily resolved by checking seemingly apparent, but often overlooked possibilities. Before arranging for service, be sure check these items:

Problem	Cause	Remedy
Tool operates erratically or slowly	Hydraulic fluid is low.	Check fluid in reservoir and add proper fluid as needed.
	Engine speed not in fast position.	Move speed indicator on engine to "Max". Also make sure pump control valve is in "locked" position.
	Air in hydraulic system.	Fully extend and retract cylinder rod several times to purge the air. Check reservoir for proper fluid level.
Tool fails to operate	Coupling failure - internal check fails to open when connected.	Reconnect or replace couplings.
	No flow from power unit	Check to make sure valve is in the on and "locked" position. Check power unit and repair as required.
Tool only moves in one direction	One hose coupler is disconnected.	Check couplers to make sure they are on properly - tug them lightly after each connection to make sure they are properly connected.

If problems persist, call Champion Rescue Tools or an authorized distributor for maintenance and repairs. Tampering, modifying or unauthorized repairs on tools and their components **VOIDS** your warranty and further limits Champion Rescue Tools liability for repair or replacement of the tool.

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