



# Operation Manual

## BEAST Multi-tool

### SC-11M-5



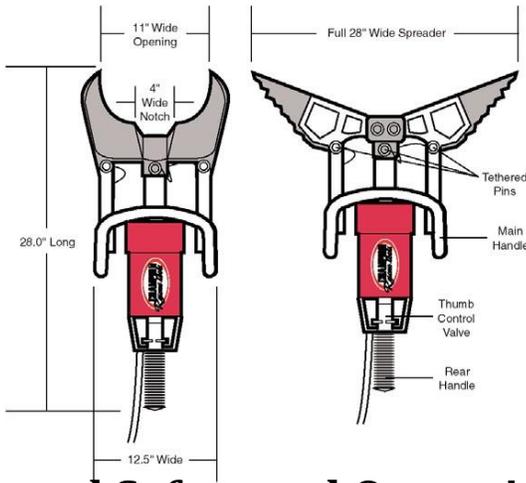
- **Technical Specifications**
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This is a detailed instruction guide specific to Champion Rescue Tools BEAST Multi-tool – please see separate information provided for general hydraulic tool usage, warranty information, MSDS information, etc.

**when every second counts**  
**trust a CHAMPION**

## Introduction

Thank you for purchasing the BEAST Multi-tool – the safest, most powerful and functional rescue tool in the market. For General Operating and Safety Instructions



## 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 clearing 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. The SUPER BEAST will cut a broad range of materials. Inspect the cutter blades after each use to make sure it is in good condition. Inspection of the blades before each use is a MUST! If blades are suspect in any way, pull the tool out of service immediately and replace the blades. Remember you are cutting with many thousands of pounds of force.
4. Worn edges can be filed, but NEVER grind them with a hand grinder. To file the blades simply lay a file on the inside, or ground side, of the blade being careful to NOT just file the edge. File at least 2 to 3 inches of the blade at a time so as to keep the blade edge flat and do not roll it over. If rolled, the blade will be ruined. If this happens, the blade will have to be returned to the factory for repair or replacement. Note: Do not file the blades regularly as maintenance – only file if the blade is damaged.

please refer to the “General Operating Procedures” Booklet furnished with your tool.

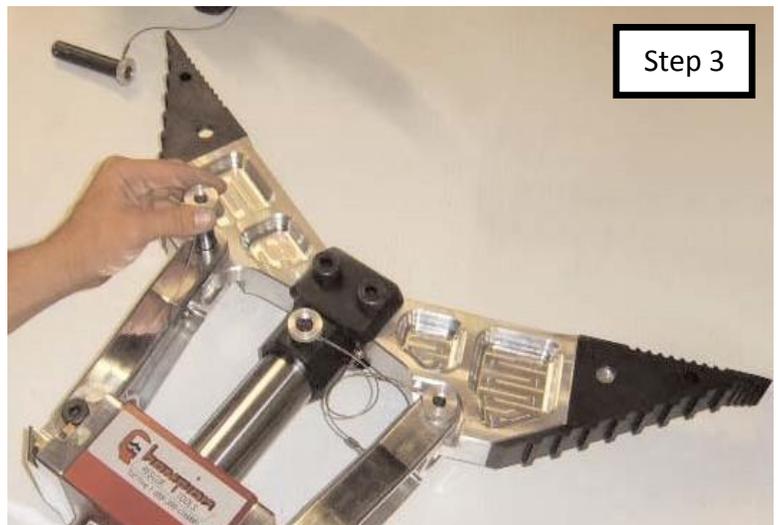
Operating Pressure	5,000 psi
Weight (Cutter)	51.9 lbs
Weight (Spreader)	45.0 lbs
Length	28 – 34 inches
Width	12.5 inches
Height	8 inches
Blade Opening	10.75 inches
Max Cutting Force	294,000 lbs
Spreader Opening	28 inches
Max Spreading Force	65,000 lbs
Hydraulic Fluid Type	Specified by Customer

5. If your spreader tips get worn or have dings and dents you may also file those as needed.
6. 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.
7. As long as the cylinder remains sealed and is not tampered with, any defect or malfunctions are covered by the Champion limited lifetime warranty (to the original purchaser). See the “Champion Rescue Tools Statement of Lifetime warranty” for additional information.
8. 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.
9. Make sure the tethered pins or ball detents that hold the head clevis and arms/blades in place stay adjusted so the pins do not work loose.
10. 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 partial 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 instruction as outlined in this manual

## Attaching (or Changing) the Head on the BEAST

1. Remember to always wear the appropriate safety equipment (PPE), including gloves, as the blades have sharp protrusions and edges.
2. Note: The tethered pins holding the blades/arms or clevis will not come out until cylinder is extended a minimum of 1" or 25.4 mm.
3. Turn the power unit pump control valve to the "OFF" position.
4. Cycle the valve trigger (control) on the tool left, then right, or right then left.
5. Place the tool on the ground or a stable surface in a well lit area.
6. Pull the center pin by the knurled knob first. Then remove the pins on each side of blade or arm. Do not pull on the tethers.
7. Remove the head and place out of the work area.
8. Make sure the head and socket are clean, with no dirt, sand, or debris. Take the desired head and slide over the center shaft.
9. Align center hole and insert large pin, pushing pin all the way down.
10. Take the blades/arms and align the holes with the link arms on the tool.
11. Insert pins as previously described.
12. Turn the "dump" valve at the power unit to "on position". Now the tool is ready for use.



## Using the BEAST as a Cutter

1. Always inspect the tool prior to each use.
2. Turn the valve at the power unit to the “ON” position
3. Be sure to follow proper general procedures (as well as any department specific procedures) for performing vehicle extrication – otherwise severe injury or even death for occupants or tool operators is possible.
4. Do a visual check before making a cut, as for every action there is often an equal reaction. Check twice and cut once.
5. Open the cutting blade to the distance required to ensure you get the material to be cut into the notch (bottom of the blades close to the blade bolt) and

start your cut. If you are unable to get the material all the way into the notch at least get it as deep as possible. Don't use the tip of the blades on solid or extremely hard materials. If the cut cannot be made the first time, then reopen the blades and reposition for another cut. Always use common sense.

6. Remember, the notch is where the tool makes its maximum power.

Champion offers a line of specialty blades designed for specific extrication applications – contact the Sales Department for more information.

## Using the BEAST as a Spreader

1. The BEAST Spreader can be used to spread, crush or lift. Keep in mind if you lift with this tool, lift 1” crib 1”.
2. DO NOT use the aluminum portion of the arms for spreading, lifting, or crushing as this may result in damage to the arms and presents potential risk to the operator.
3. Try and use as much spreading surface area to push, crush, or lift on the tips so you have more contact surface.
4. Always pick up the tool by the handles only.

5. To take the spreader off line or to change the head back to the cutter head follow the head change instructions provided in this manual.
6. When the tool is not in action rest the tool on a part of the vehicle or structure with a firm grip on the handles while you are awaiting your next task. Otherwise you can rest the tip of the tool on the ground, in vertical position, holding the rear handle while you are waiting. This will help reduce operator fatigue.

## Maintenance Instructions

1. Inspect both heads and the 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. Lubricate the detents on the pins with a light lubricant such as WD-40 or a light silicon lubricant. Check adjustments on detents.
6. Ensure that all handles are tight. There are screws on both rear and front handles, use blue lock-tight to secure if necessary.

7. Inspect couplers to ensure that they operated correctly and are free of dirt and debris. Blow out with an air hose if needed.
8. Inspect hoses for cracks, cuts and bulges. DO NOT operate tools with damaged hoses.
9. Inspect the spreader arms and cutting head for wear or damage. DO NOT operate with damaged arms or blades.
10. Keep tool free from rust and corrosion.
11. Replace handle if broken or damaged.
12. 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:



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