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› VEVOR 4.5 Ton Hydraulic Strut Spring Compressor Instruction Manual

VEVOR YH-13

VEVOR 4.5 Ton Hydraulic Strut Spring Compressor Instruction Manual

Model: YH-13

INTRODUCTION

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your VEVOR 4.5 Ton Hydraulic Strut Spring Compressor. Please read this manual thoroughly before use to ensure proper function and to prevent injury or damage to the equipment.

SAFETY INFORMATION

Working with compressed springs can be hazardous. Always follow these safety guidelines:

- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the compressor is placed on a stable, level surface. For added security, anchor the base to the ground using the pre-drilled holes.
- Verify that the spring clasps are securely attached to the spring before applying pressure.
- Utilize the safety chain to further secure the spring during compression.
- Never exceed the rated compression force of 1 ton (1000 kg). The hydraulic jack capacity is 4.5 tons, but the compression force on the spring is 1 ton.
- Keep hands and other body parts clear of moving parts during operation.
- Inspect the equipment for any damage or wear before each use. Do not operate if damaged.
- Do not modify the equipment.

SAFETY DISASSEMBLY

Ensure your security



Image: Safety features of the VEVOR Hydraulic Strut Spring Compressor, including the safety lip, 39.4-inch steel chain, and pre-drilled holes for stable base anchoring.

COMPONENTS AND FEATURES

The VEVOR Hydraulic Strut Spring Compressor is designed for efficient and safe spring disassembly. Key components and features include:

- **Hydraulic Jack:** 4.5-ton load capacity with a leak-proof design and dampened hydraulic rod for smooth operation.
- **Spring Clasps:** Includes two sets of ductile cast iron clasps for varying spring sizes.
 - Small Spring Clasp: Accommodates sizes from 4.3" to 5.1" (110-130 mm).
 - Big Spring Clasp: Accommodates sizes from 5.5" to 6.7" (140-170 mm).
- **Column with Positioning Holes:** Features 8 positioning holes for adjusting clasp height, offering a maximum compression stroke of 12.6" (320 mm).
- **Safety Chain:** An extended 39.4" safety chain to secure springs during compression.

- **Stable H-shaped Base:** Designed to minimize wobbling, with pre-drilled holes for anchoring.
- **Q235 Reinforced Steel Column:** Provides high strength and resistance to bending.

ADAPT TO VARYING SPRING SIZES

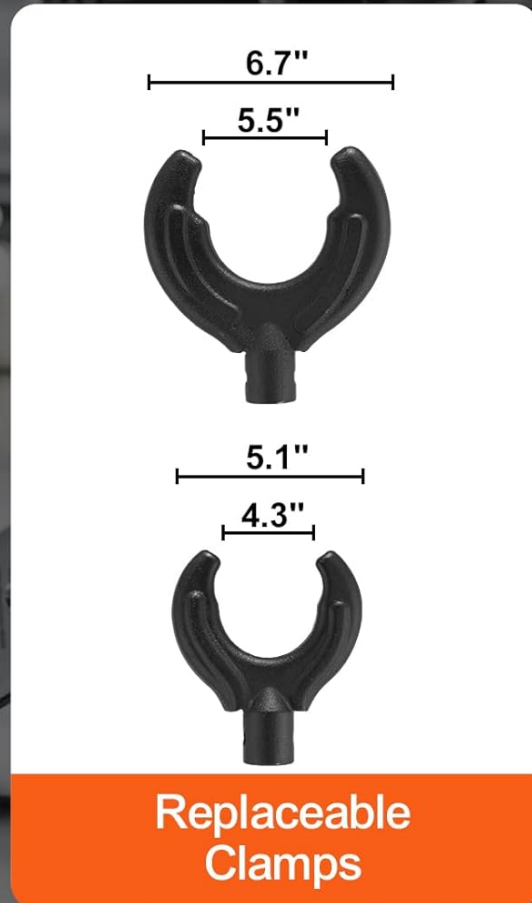


Image: Illustration showing the adjustable column with 8 holes and the dimensions of the small (4.3"-5.1") and big (5.5"-6.7") replaceable spring clasps.

Item Model Number

YS-02

Max Capacity of Hydraulic Jack

4.5 Ton

Rated Compression Force

1 Ton/1000 kg

Net Weight

57.3 lbs/26 kg

Product Size

18.9 x 15.8 x 40.9 inch/480 x 400 x 1040 mm

Small Spring Clasp

4.3"-5.1"

Big Spring Clasp

5.5"-6.7"



Image: Detailed view of the compressor's construction, highlighting the ductile iron casting clamps, Q235 steel column, smooth hydraulic rod, and leak-proof hydraulic jack.

SETUP AND ASSEMBLY

Before operating the VEVOR Hydraulic Strut Spring Compressor, ensure all components are present and properly assembled.

Unpacking and Component Check:

Carefully unpack all items from the packaging. Verify that the following components are included:

- 1 x Coil Strut Spring Compressor main unit
- 1 x Small Spring Clasp set
- 1 x Big Spring Clasp set

Assembly Steps:

1. Place the main compressor unit on a stable, level surface.
2. If desired, anchor the H-shaped base to the ground using appropriate fasteners through the pre-drilled holes for maximum stability.
3. Select the appropriate spring clasps (small or big) based on the diameter of the spring you intend to compress.
4. Attach the selected spring clasps to the upper and lower arms of the compressor. Ensure they are securely fastened.
5. Familiarize yourself with the hydraulic pedal for raising the lower clamp and the pressure release valve for controlled lowering.



Image: The VEVOR Hydraulic Strut Spring Compressor main unit shown with both sets of spring clasps.

OPERATING INSTRUCTIONS

Follow these steps for safe and effective spring compression and decompression:

1. **Prepare the Strut Assembly:** Remove the strut assembly from the vehicle according to the vehicle manufacturer's service manual.
2. **Position the Spring:** Place the strut assembly onto the compressor. Adjust the upper clamp's position on the column by selecting one of the 8 positioning holes to match the height of the spring. Ensure both upper and lower clasps firmly grip the spring coils.
3. **Secure the Spring:** Attach the safety chain around the spring and the compressor column to prevent accidental release.
4. **Compress the Spring:** Slowly press the hydraulic pedal to raise the lower clamp, compressing the spring. Observe the spring's compression carefully. The system features a stable suspension that holds the clamp's position when pressure stops.
5. **Disassemble the Strut:** Once the spring is sufficiently compressed to relieve tension from the top hat, you can safely remove the top nut and disassemble the strut components.
6. **Decompress the Spring:** To release the spring, slowly engage the pressure release valve. The lower clamp will descend gradually. Ensure hands and body are clear during decompression.
7. **Remove the Spring:** Once the spring is fully decompressed, remove it from the clasps and then remove the strut assembly from the compressor.

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TOUGH TOOLS, HALF PRICE

4.5T MAX LOAD CAPACITY

Remove heavy springs effortlessly and efficiently



Image: The VEVOR Hydraulic Strut Spring Compressor in operation, demonstrating the 12.6-inch maximum compression stroke while compressing a vehicle spring.

STABLE SUSPENSION

Clamp holds its position when pressure stops

Press the second pedal to release



Image: Depiction of the stable suspension feature, where the clamp holds its position, and the process of pressing the second pedal to release pressure and lower the clamp.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your spring compressor.

- **Cleaning:** After each use, wipe down the compressor to remove dirt, grease, and debris.
- **Inspection:** Periodically inspect all components, especially the spring clasps, safety chain, hydraulic cylinder, and frame for signs of wear, damage, or corrosion. Replace any worn or damaged parts immediately.
- **Lubrication:** Apply a light coat of machine oil to the hydraulic rod and moving parts as needed to ensure smooth operation.
- **Hydraulic Fluid:** Check the hydraulic fluid level periodically. Refer to a qualified technician for hydraulic fluid replacement or bleeding if necessary.
- **Storage:** Store the compressor in a clean, dry environment when not in use.

TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Compressor does not lift or lifts slowly.	Low hydraulic fluid level, air in the hydraulic system, or faulty hydraulic pump.	Check hydraulic fluid level and refill if low. Bleed air from the system (consult a technician). Contact support if the pump is faulty.
Spring clasps slip.	Incorrect clasp size used, clasps not securely attached, or worn clasps.	Ensure correct clasp size for the spring diameter. Verify clasps are fully engaged and tightened. Replace worn clasps.
Compressor wobbles during operation.	Not on a level surface, or base not anchored.	Ensure the compressor is on a firm, level surface. Anchor the base to the ground using the pre-drilled holes.
Spring does not compress enough.	Spring is too stiff for the rated compression force, or incorrect clasp positioning.	Ensure the spring's requirements do not exceed the 1-ton rated compression force. Adjust clasp positions for optimal leverage.

SPECIFICATIONS

Model Name	YH-13 (Strut Spring Compressor)
Max Capacity of Hydraulic Jack	4.5 Tons (9920 LBS)
Rated Compression Force	1 Ton (1000 kg)
Maximum Compression Stroke	12.6 inches (320 mm)
Small Spring Clasp Range	4.3" - 5.1" (110 - 130 mm)
Big Spring Clasp Range	5.5" - 6.7" (140 - 170 mm)
Product Dimensions (L x W x H)	18.9" x 15.8" x 40.9" (480 x 400 x 1040 mm)
Net Weight	57.3 lbs (26 kg)
Material	Alloy Steel (Q235 Reinforced Steel Column, Ductile Cast Iron Clasps)
Power Source	Hydraulic
Recommended Uses	Automotive maintenance (strut springs and shock absorbers)





Image: Diagram illustrating the key specifications and dimensions of the VEVOR Hydraulic Strut Spring Compressor, including model number, capacities, and clasp ranges.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your product or visit the official VEVOR website. Specific warranty terms and conditions may vary.

For further assistance, you may contact VEVOR customer service through their official channels. Always provide your product model number (YH-13) and purchase details when seeking support.



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