

VEVOR CT-999RF

VEVOR CT-999RF Ratchet Pipe Bender Instruction Manual

Model: CT-999RF

1. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the VEVOR CT-999RF Ratchet Pipe Bender. Failure to follow these instructions may result in injury or damage to the tool.

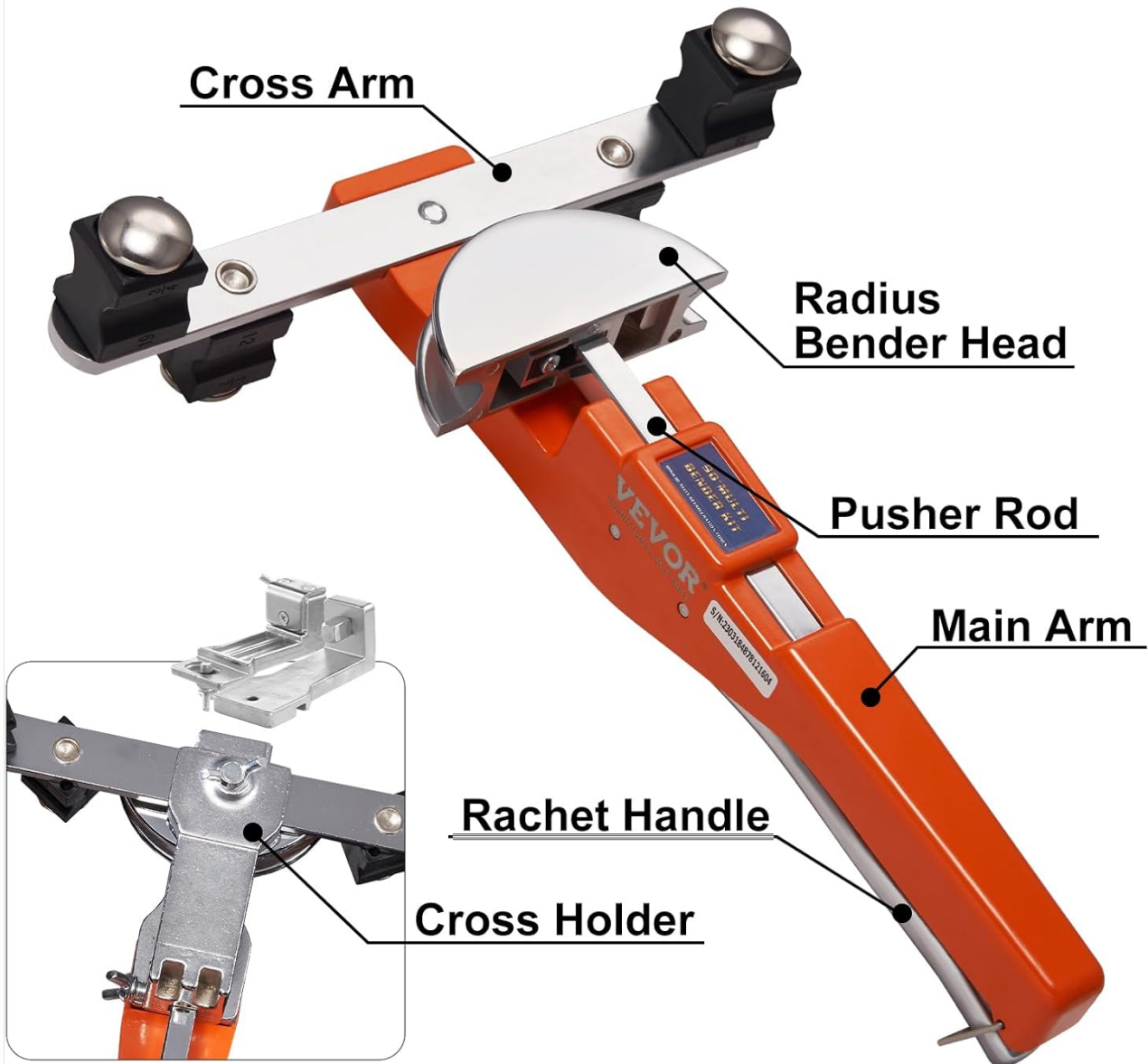
- Always wear appropriate personal protective equipment, including safety glasses and gloves, when operating the tool.
- Ensure the workpiece is securely held before bending.
- Do not exceed the maximum bending capacity or angle of the tool.
- Keep hands and fingers clear of moving parts during operation.
- Store the tool and accessories in the provided case when not in use to prevent damage and ensure safety.
- Keep children and unauthorized persons away from the work area.

2. PRODUCT OVERVIEW

The VEVOR CT-999RF Ratchet Pipe Bender is a versatile tool designed for bending soft copper and aluminum pipes up to 90 degrees. It is suitable for various applications in plumbing, HVAC, refrigeration, and automotive systems. The ratchet mechanism allows for precise and effortless bending, even in confined spaces.

ROCK SOLID DESIGN

Geared Toward Long-Lasting Use



This diagram labels the key parts of the VEVOR pipe bender, including the cross arm, radius bender head, pusher rod, main arm, ratchet handle, and cross holder.

3. SETUP

Before beginning any bending operation, ensure the correct components are selected and assembled.

3.1 Selecting the Correct Bending Die

Choose the appropriate bending die based on the outer diameter of the pipe you intend to bend. The kit includes 7 interchangeable dies for various pipe sizes.

ONE-HAND OPERATION

Flexible use in confined spaces



Compact design for small spaces



Non-spring-back self-locking ratchet



Ergonomic handle for optimal comfort

This image highlights the various components included in the VEVOR pipe bender kit, such as the main bender tool, pipe bending dies, pipe cutter, and deburring tool.

3.2 Assembling for Inward Bending (Forward Pushing Bending)

1. Attach the cross arm to the main bender body.
2. Secure the chosen bending die onto the pusher rod.
3. Place the pipe between the bending die and the rollers on the cross arm.
4. Adjust the wing screws to firmly hold the pipe in place.

3.3 Assembling for Outward Bending (Reverse Pulling Bending)

1. Attach the reverse bending attachment to the main bender body.
2. Secure the chosen bending die onto the pusher rod.
3. Place the pipe between the bending die and the rollers on the reverse bending attachment.
4. Adjust the wing screws to firmly hold the pipe in place.

REVERSE BENDING ATTACHMENT

Forward or reverse bending on your need



A detailed view of the reverse bending attachment being installed on the VEVOR pipe bender, enabling both forward and reverse bending operations.

4. OPERATING INSTRUCTIONS

4.1 Pipe Preparation

1. **Cutting:** Use the included copper tube cutter to cut the pipe to the desired length. Ensure a clean, straight cut.
2. **Deburring:** After cutting, use the deburring tool to remove any sharp edges or burrs from both the inner and outer edges of the pipe. This prevents damage to the pipe and ensures smooth flow.

4.2 Bending Process

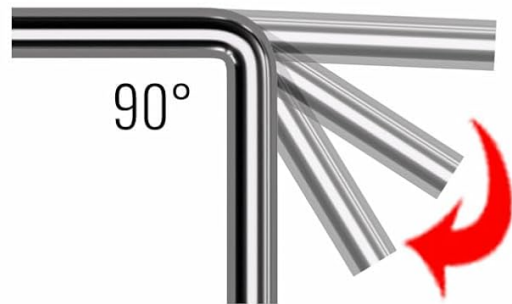
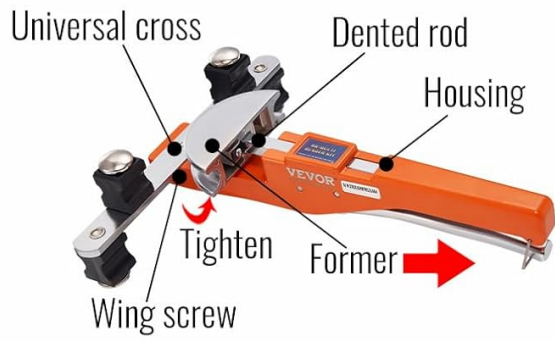
Once the bender is set up and the pipe is prepared, proceed with bending:

1. Insert the prepared pipe into the bender, ensuring it is properly seated against the bending die and rollers.
2. Engage the ratchet mechanism by squeezing the handle. The bender will gradually bend the pipe.
3. Continue squeezing and releasing the handle until the desired bend angle is achieved, up to a maximum of 90 degrees.
4. Release the ratchet mechanism and carefully remove the bent pipe.



This image illustrates the forward and reverse bending capabilities of the tool, along with the pipe cutter accessory.

SIMPLE SETUP , FAST BENDING



A series of six images demonstrating the simple setup and fast bending process of the VEVOR pipe bender, from securing the pipe to achieving a 90-degree bend.

CUSTOMIZE YOUR BENDING ANGLE

Up to 90 degrees in a single bending



This image illustrates a perfectly bent 90-degree pipe, showcasing the precision of the VEVOR bender. It also displays various pipe materials like copper and aluminum that can be bent.



This image shows the compact design of the VEVOR pipe bender allowing a user to bend a pipe effectively even in a tight corner or confined space.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your VEVOR Ratchet Pipe Bender.

- After each use, clean the bending dies and the main tool body to remove any metal shavings or debris.
- Apply a light coat of oil to moving parts and metal surfaces to prevent rust.
- Inspect the bending dies for wear or damage. Replace worn dies to maintain bending accuracy.
- Store the entire kit in its plastic storage box in a dry, clean environment.

6. TROUBLESHOOTING

If you encounter issues during operation, consider the following common solutions:

- **Pipe Kinking/Flattening:** Ensure you are using the correct size bending die for your pipe. Verify the pipe material is suitable for cold bending. For harder materials, pre-heating might be necessary (consult pipe manufacturer guidelines).
- **Difficulty Bending:** Check if the ratchet mechanism is fully engaged. Ensure the pipe is clean and free of obstructions.
- **Tool Malfunction:** Inspect all moving parts for damage or excessive wear. Ensure all screws and fasteners are tight.

For persistent issues or complex problems, please contact VEVOR customer support.

7. SPECIFICATIONS

Specification	Value
Model Number	CT-999RF
Compatible Tube Diameter	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8" (6/8/9.5/12.7/16/19/22 mm)
Pipe Wall Thickness	0.02"-0.05" / 0.5-1.2 mm
Material	Cast Iron + Aluminum Alloy + 45# Steel
Product Weight	10.7 lb / 4.86 kg
Product Size (L x W x H)	17.7 x 13.0 x 3.0 in / 450 x 330 x 75 mm
Power Type	Hand-powered

VEVOR

Product Weight: 10.7 lb / 4.86 kg

Material: Cast Iron+Aluminum Alloy+45#

Wall Thickness of Pipe: 0.02 -0.05 in /0.5-1.2 mm

Applicable Tube Diameter: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"



1 x Copper Pipe Cutter



1 x Inner/Outer Reamer



1 x Deburring Tool



1 x Plastic Storage Box



1 x Reverse Bending Attachment



7 x Pipe Bending Wheels



Technical diagram of the VEVOR pipe bender showing its dimensions and key specifications.

8. PACKAGE CONTENTS

The VEVOR CT-999RF Ratchet Pipe Bender kit includes the following items:

- 1 x Ratchet Pipe Bender Main Unit
- 7 x Pipe Bending Dies (1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8")
- 1 x Reverse Bending Attachment
- 1 x Copper Tube Cutter
- 1 x Inner/Outer Reamer
- 1 x Deburring Tool
- 1 x Plastic Storage Box



All components of the VEVOR pipe bender kit, including the bender, various dies, pipe cutter, and deburring tool, are displayed outside their case.



The VEVOR pipe bender and its accessories are neatly stored within the durable plastic carrying case, ready for transport or storage.

9. WARRANTY AND SUPPORT

VEVOR products are designed for durability and performance. For warranty information, technical support, or replacement parts, please visit the official VEVOR website or contact their customer service department. Keep your purchase receipt as proof of purchase.

