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ROCKBROS Mini Bike Pump 110PSI

ROCKBROS Mini Bike Pump 110PSI: User Manual

Dual-Purpose Hand Pump and CO2 Inflator

INTRODUCTION

This manual provides instructions for the safe and effective use of your ROCKBROS Mini Bike Pump. This versatile pump functions as both a manual hand pump and a CO2 inflator, compatible with both Presta and Schrader valves, making it suitable for various bicycle types including road and mountain bikes. Please read this manual thoroughly before operation.

PRODUCT FEATURES

- **Dual Mode Operation:** Functions as a manual hand pump and a CO2 inflator for quick and efficient tire inflation up to 110 PSI.
- **Universal Valve Compatibility:** Ingenious design supports both Presta and Schrader valves without requiring additional adapters.
- **Compact and Lightweight:** Measuring approximately 5.5 inches long and weighing 0.16 lbs, it is highly portable and can be easily stored in a bike bag or mounted to the bike frame.
- **Durable Construction:** Made from CNC machined aluminum alloy for long-lasting performance and reliability.
- **Insulated Sleeve:** Includes a soft sponge insulated sleeve for CO2 cartridges to prevent frozen fingers during inflation.
- **Non-Slip Handle:** Features a handle with non-slip threads for a secure grip during manual pumping.

Dual Mode Bike Pump

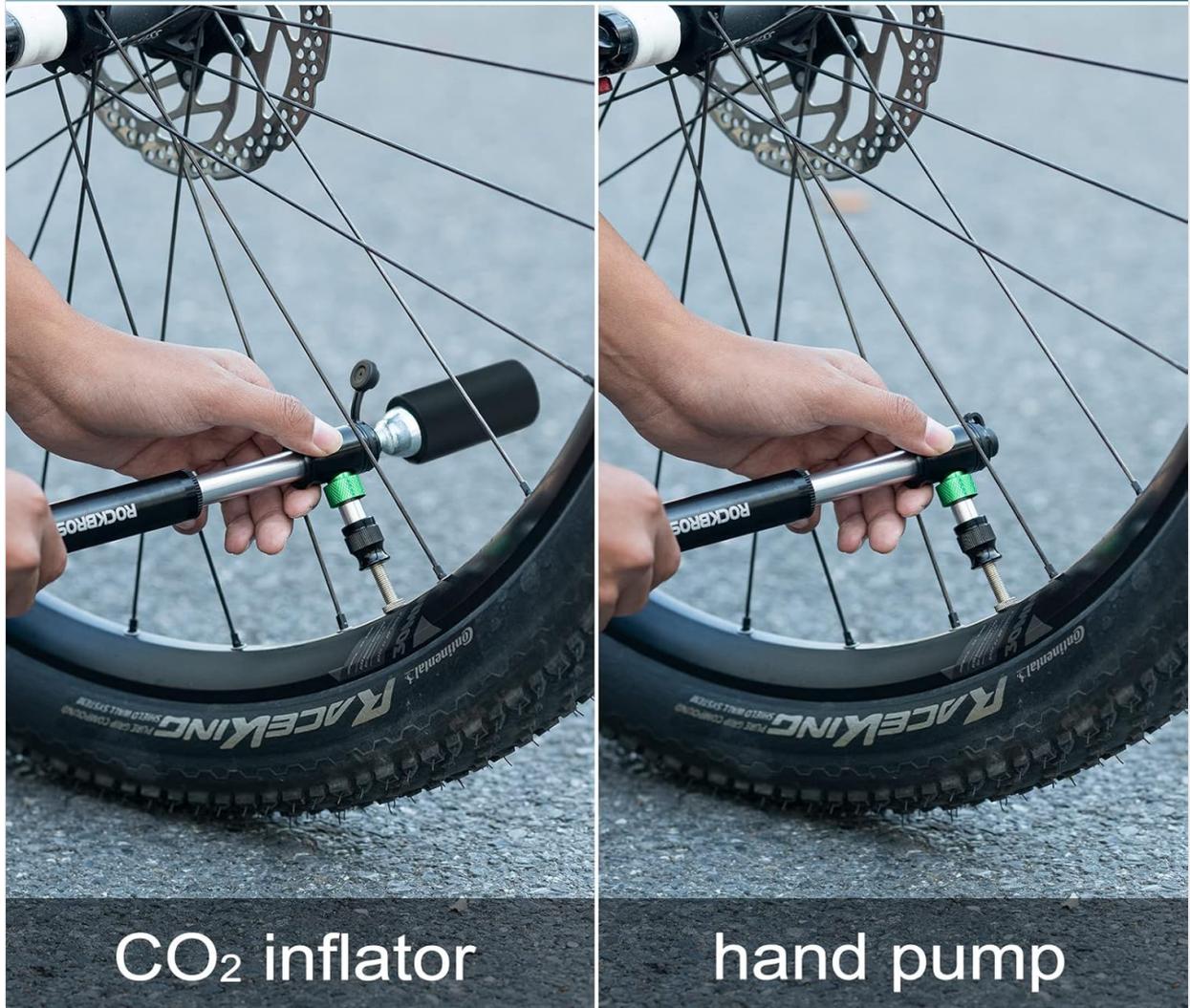


Image: The ROCKBROS Mini Bike Pump demonstrating its dual functionality as both a CO₂ inflator and a hand pump.

SETUP AND ASSEMBLY

Mounting to Bicycle Frame (Optional)

The pump includes a mounting bracket for convenient attachment to your bicycle frame. This bracket typically mounts under the water bottle cage.

1. Identify the water bottle cage mounting points on your bike frame.
2. Align the pump's mounting bracket with these points.
3. Secure the bracket using the provided screws (if included) or existing water bottle cage screws.
4. Place the pump into the bracket and secure it with the rubber strap.

Portable Bike Pump Easy to Carry



Image: The ROCKBROS Mini Bike Pump securely mounted on a bicycle frame, illustrating its portability.

OPERATING INSTRUCTIONS

Valve Compatibility (Presta and Schrader)

The pump head is designed to work with both Presta and Schrader valves. No internal parts need to be swapped.

- **For Presta Valves:** Unscrew the valve core on your tire's Presta valve before attaching the pump.
- **For Schrader Valves:** The pump can be attached directly to the Schrader valve.

Presta and Schrader Valve Convert Design



Schrader Valve



Presta Valve

Image: Detailed view of the pump head, demonstrating its adaptability for both Schrader and Presta valve types.

Using as a Hand Pump

1. Ensure the tire valve is ready (unscrew Presta valve core if applicable).
2. Remove the dust plug from the pump head.
3. Firmly press the pump head onto the tire valve. For Presta, ensure it's fully seated. For Schrader, push down until it locks.
4. Flip the lever (if present) to lock the pump head onto the valve, creating a tight seal.
5. Extend the pump handle and begin pumping. The non-slip threads on the handle provide a secure grip.
6. Pump until the desired tire pressure is reached (up to 110 PSI).
7. Unlock the lever and carefully remove the pump head from the valve.
8. Replace the dust plug and screw down the Presta valve core if applicable.

Using as a CO2 Inflator

CO2 cartridges are not included with this pump. Use threaded CO2 cartridges (12g, 16g, 20g compatible).

1. Ensure the tire valve is ready (unscrew Presta valve core if applicable).
2. Place the soft sponge insulated sleeve over the CO2 cartridge to protect your hands from cold during discharge.

3. Remove the dust plug from the pump head.
4. Firmly press the pump head onto the tire valve.
5. Screw the CO2 cartridge into the designated port on the pump head until it pierces the cartridge.
6. Once pierced, slowly unscrew the cartridge slightly (about a semicircle turn) to release CO2 into the tire. Adjust the turn to control the flow.
7. Inflate the tire to the desired pressure.
8. Once inflated, fully unscrew the CO2 cartridge and remove the pump head from the valve.
9. Replace the dust plug and screw down the Presta valve core if applicable.



Image: Components of the pump, including the sponge insulated sleeve for CO2 cartridges, the dust plug, and the non-slip handle design.

Your browser does not support the video tag.

Video: Demonstrates how to use the ROCKBROS Mini Bike Pump as a CO2 inflator and hand pump, including valve compatibility and cartridge handling.

MAINTENANCE

- **Cleaning:** Wipe the pump exterior with a damp cloth to remove dirt and debris. Avoid using harsh chemicals.
- **Lubrication:** Periodically apply a small amount of silicone-based lubricant to the pump's piston shaft to

ensure smooth operation.

- **Storage:** Store the pump in a dry place, away from direct sunlight and extreme temperatures. Ensure the dust plug is in place to prevent debris from entering the pump head.
- **Inspect Seals:** Regularly check the rubber seals and O-rings for wear or damage. Replace if necessary to maintain an airtight seal.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not inflating tire.	Loose connection to valve. Worn or damaged pump seals. Presta valve core not unscrewed.	Ensure pump head is firmly seated and lever is locked. Inspect and replace seals if necessary. Unscrew the Presta valve core before attaching the pump.
CO2 cartridge not piercing or gas leaking.	Cartridge not screwed in deep enough. Incorrect cartridge type (unthreaded). Damaged seal in inflator head.	Screw cartridge in firmly until pierced. Use only threaded CO2 cartridges. Inspect and replace inflator head seal if damaged.
Pump handle is stiff or difficult to operate.	Lack of lubrication. Dirt or debris in the pump mechanism.	Apply silicone-based lubricant to the piston shaft. Clean the pump thoroughly.

SPECIFICATIONS

- **Brand:** ROCKBROS
- **Model:** Mini Bike Pump 110PSI
- **Material:** Aluminum Alloy
- **Maximum Pressure:** 110 PSI (Pound per Square Inch)
- **Valve Compatibility:** Presta and Schrader
- **Operation Mode:** Manual Hand Pump, CO2 Inflator
- **Dimensions (L x W x H):** Approximately 5.6" x 0.82" x 0.82"
- **Weight:** Approximately 0.16 lbs (2.57 oz)
- **CO2 Cartridge Compatibility:** Threaded 12g, 16g, 20g (cartridges not included)
- **Color:** Black

Compact and Lightweight

2.57 OZ weight



5.78c inches



0.82inches

5.6 inches



8.46 inches

Image: The compact size of the ROCKBROS Mini Bike Pump displayed alongside a smartphone for scale, highlighting its lightweight design and dimensions.

SAFETY INFORMATION

- Always wear appropriate eye protection when using CO2 cartridges.
- CO2 cartridges contain gas under high pressure. Handle with care and do not expose to heat or direct sunlight.
- Keep CO2 cartridges and the pump out of reach of children.
- Do not overinflate tires. Refer to your tire's sidewall for recommended pressure ranges.
- The CO2 cartridge will become extremely cold during discharge. Use the insulated sleeve to protect your hands.
- Ensure the pump head is securely attached to the valve before inflating to prevent accidental detachment and injury.