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› Strongway 20-Ton Air/Hydraulic Bottle Jack Instruction Manual

## Strongway 20-Ton Air/Hydraulic Bottle Jack

# Strongway 20-Ton Air/Hydraulic Bottle Jack Instruction Manual

Model: 20-Ton Air/Hydraulic Bottle Jack

## IMPORTANT SAFETY INFORMATION

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Read and understand all instructions and warnings before operating this air/hydraulic bottle jack. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

- **Never exceed the rated capacity of 20 tons.**
- Use only on a hard, level surface.
- Ensure the load is centered on the jack saddle.
- Always use jack stands to support the load immediately after lifting. Do not rely solely on the jack for support.
- Do not work under a lifted load unless it is properly supported by jack stands.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Keep hands and feet clear of the jack and the load during operation.
- Do not modify the jack or use it for purposes other than its intended use.
- Ensure the air supply pressure is within the recommended range of 100-120 PSI.
- Inspect the jack for damage or wear before each use. Do not use if damaged.

## PRODUCT OVERVIEW

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The Strongway 20-Ton Air/Hydraulic Bottle Jack is designed for lifting heavy loads with both air and manual hydraulic operation. It features a 20-ton maximum lift capacity, a 1/4-inch quick-connect for air supply, a built-in bypass device, and self-returning springs for efficient operation.



Figure 1: Strongway 20-Ton Air/Hydraulic Bottle Jack. This image shows the complete jack assembly, highlighting its robust construction and air/hydraulic components.

# AIR/HYDRAULIC BOTTLE JACK

20-TON  
CAPACITY



Figure 2: Close-up view of the Strongway 20-Ton Air/Hydraulic Bottle Jack, emphasizing its 20-ton lifting capacity.



**HIGH-GRADE  
STEEL  
CONSTRUCTION**

**DURABLE**

Figure 3: The jack with its ram extended, illustrating its high-grade steel construction for durability.

## SETUP

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1. **Unpacking:** Carefully remove the jack from its packaging. Inspect for any shipping damage.
2. **Purging Air:** Before first use, or if the jack has been stored for a long time, purge any air from the hydraulic system.
  - Turn the release valve counter-clockwise to open it.
  - Pump the handle several times to remove air.
  - Turn the release valve clockwise to close it.
3. **Air Line Connection (for air operation):** Connect a 1/4-inch air hose to the quick-connect fitting on the jack. Ensure your air compressor can supply 100-120 PSI.
4. **Positioning:** Place the jack on a hard, level surface directly under the lifting point of the load. Ensure the saddle is centered.

## OPERATING INSTRUCTIONS

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### Lifting the Load (Hydraulic Operation)

1. Ensure the release valve is fully closed by turning it clockwise.
2. Insert the handle into the handle socket.
3. Pump the handle up and down to raise the jack ram and lift the load.
4. Once the desired height is reached, immediately place appropriately rated jack stands under the load.



**10 1/4  
INCH TO  
20 INCH  
LIFT  
HEIGHT**

**VERSATILE  
USE**

*Figure 4: The jack positioned under a vehicle, demonstrating its lifting capability and versatile lift height range.*

### **Lifting the Load (Air Operation)**

1. Ensure the release valve is fully closed by turning it clockwise.
2. Connect the air hose to the quick-connect fitting.
3. Activate the air control valve on the jack to begin lifting.
4. Once the desired height is reached, immediately place appropriately rated jack stands under the load.
5. Turn off the air control valve.



Figure 5: The jack in operation using an air hose, lifting a heavy load. This illustrates the air-powered lifting mechanism.

## Lowering the Load

1. Ensure the area around the load is clear.
2. If using jack stands, lift the load slightly off the jack stands. Remove the jack stands.
3. Slowly turn the release valve counter-clockwise to lower the load. Do not open the valve too quickly, as this can cause the load to drop rapidly.
4. Once the load is fully lowered, remove the jack.

## MAINTENANCE

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- **Lubrication:** Periodically lubricate moving parts with light machine oil.
- **Hydraulic Fluid:** Check the hydraulic fluid level regularly. To check, lower the ram completely, remove the oil filler plug, and ensure the fluid is level with the bottom of the filler hole. Use only high-quality hydraulic jack oil. Do not use brake fluid or motor oil.
- **Cleaning:** Keep the jack clean and free of dirt, grease, and corrosive materials.
- **Storage:** Store the jack in a dry, protected area with the ram fully retracted.
- **Inspection:** Before each use, inspect the jack for any signs of damage, leaks, or loose parts. Do not use if any issues are found.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Jack will not lift load.	Release valve open; Low hydraulic fluid; Air in system; Overload.	Close release valve; Add hydraulic fluid; Purge air from system; Reduce load (do not exceed 20 tons).
Jack lifts slowly or erratically.	Low hydraulic fluid; Air in system; Worn seals.	Add hydraulic fluid; Purge air from system; Contact customer support for seal replacement.
Jack leaks fluid.	Loose fittings; Damaged seals.	Tighten fittings; Contact customer support for seal replacement.
Air operation not working.	Insufficient air pressure; Air line disconnected; Air control valve faulty.	Ensure 100-120 PSI air supply; Check air line connection; Contact customer support.

## SPECIFICATIONS

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- **Model:** 20-Ton Air/Hydraulic Bottle Jack
- **Brand:** Strongway
- **Load Capacity:** 20 tons
- **Minimum Lift Height:** 10.25 inches
- **Maximum Lift Height:** 20 inches
- **Material:** Alloy Steel
- **Item Weight:** 32.8 pounds
- **Air Pressure Range:** 100-120 PSI
- **Air Inlet:** 1/4 inch quick-connect
- **Features:** Built-in bypass device, Self-returning springs

## WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the documentation included with your purchase or contact Strongway customer service. Keep your purchase receipt for warranty claims.

For further assistance, visit the Strongway Store on Amazon.