

Eapmic CP-700

Eapmic CP-700 Hydraulic Hand Pump Instruction Manual

Model: CP-700

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Eapmic CP-700 Hydraulic Hand Pump. Please read this manual thoroughly before using the pump to ensure proper function and to prevent injury or damage.

The Eapmic CP-700 is a two-speed manual hydraulic pump designed to generate high pressure for various hydraulic applications, including powering hydraulic ram cylinders. It features a robust construction and a maximum output pressure of 10,000 psi (700 bar).

2. SAFETY INFORMATION

WARNING: Hydraulic systems operate under extremely high pressure. Failure to follow safety instructions can result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when operating or maintaining the pump.
- Ensure all connections are secure and free from leaks before applying pressure. A loose connection can fail under pressure.
- Never exceed the maximum rated pressure of 10,000 psi (700 bar) for this pump or the rated pressure of any connected hydraulic equipment.
- Do not attempt to repair or modify the pump unless you are a qualified technician. Unauthorized modifications can compromise safety and void the warranty.
- Keep hands and other body parts clear of moving parts and potential pinch points during operation.
- Ensure the pump is placed on a stable, level surface during operation to prevent tipping.
- Release pressure slowly and carefully after use.
- Do not use the pump if any part is damaged or leaking.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking:

- 1 × Eapmic CP-700 Hydraulic Hand Pump
- 1 × 4-foot long hydraulic hose with coupler

4. SPECIFICATIONS

Model	CP-700
Drive Mode	Manual
Maximum Output Pressure	700 bar (10,000 psi)
Oil Storage Capacity	350 CC
Hose Length	4 feet
Hose Thread	3/8" NPT
Gross Weight	10.5 kg (22.1 lbs)
Package Dimensions	27.4 x 7.75 x 7.25 inches
Color	Yellow
UPC	760385689930

5. SETUP

1. **Unpacking:** Carefully remove the hydraulic hand pump and its accessories from the packaging. Inspect all components for any signs of damage during transit.
2. **Placement:** Position the pump on a stable, flat, and level surface. Ensure there is adequate space around the pump for safe operation of the handle.
3. **Hose Connection:** Connect the provided 4-foot hydraulic hose to the pump's output port. Ensure the 3/8" NPT thread connection is tightened securely to prevent leaks under pressure. Use appropriate thread sealant if necessary.
4. **Connect to Hydraulic Tool:** Attach the other end of the hydraulic hose coupler to your hydraulic ram cylinder or other compatible hydraulic tool. Verify that this connection is also secure and leak-free.
5. **Check Oil Level:** While the pump is designed for minimal maintenance, it is good practice to periodically check the hydraulic oil level. Refer to the maintenance section for details.



Figure 1: Eapmic CP-700 Hydraulic Hand Pump with the hydraulic hose securely connected to the pump body and ready for attachment to a hydraulic tool.



Figure 2: Close-up view of the hydraulic hose quick coupler, showing the secure connection point for hydraulic tools.

6. OPERATING INSTRUCTIONS

The CP-700 pump features a two-speed operation for efficient hydraulic fluid displacement.

1. **Prepare the System:** Ensure the hydraulic tool is properly connected and positioned for the task. Confirm all safety precautions are in place.
2. **Close Release Valve:** Locate the pressure release valve (typically a knob or lever) on the pump body. Turn it clockwise to fully close it before beginning to pump.
3. **Pumping Operation:**
 - Grasp the pump handle firmly.
 - Begin to pump the handle up and down. Initially, the pump will operate in a high-flow, low-pressure (first speed) mode, quickly moving hydraulic fluid to extend the ram or actuate the tool.
 - As resistance increases and pressure builds, the pump will automatically shift to a low-flow, high-pressure (second speed) mode. This allows for fine control and the generation of maximum pressure with less effort.

- Continue pumping until the desired pressure is reached or the hydraulic tool has completed its stroke. Do not exceed the maximum rated pressure.
4. **Hold Pressure:** Once the desired pressure is achieved, stop pumping. The closed release valve will maintain the pressure in the system.
 5. **Release Pressure:** To release pressure and retract the hydraulic ram or tool, slowly turn the pressure release valve counter-clockwise. This will allow the hydraulic fluid to return to the pump's reservoir. Control the rate of release to ensure a smooth and safe retraction.
 6. **Disconnect:** After all pressure has been released and the system is at rest, you may safely disconnect the hydraulic hose from the tool.



Figure 3: Close-up view of the pump head, showing the pressure release knob (black knob) and hydraulic connections.



Figure 4: Detailed view of the pump body, highlighting the 'CP-700' model designation and operational markings.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your hydraulic hand pump.

- **Hydraulic Fluid:** Periodically check the hydraulic fluid level. If the level is low, replenish with a high-quality hydraulic oil recommended for manual pumps. Do not overfill.
- **Hose and Coupler Inspection:** Before each use, inspect the hydraulic hose for any cuts, abrasions, kinks, or bulges. Check the couplers for damage or wear. Replace any damaged components immediately.
- **Cleaning:** Keep the pump clean and free from dirt, dust, and debris. Wipe down the exterior with a clean cloth. Avoid using harsh chemicals that could damage seals or paint.
- **Storage:** When not in use, store the pump in a clean, dry environment, protected from extreme temperatures and direct sunlight. Ensure the pressure release valve is open to relieve any residual pressure.
- **Lubrication:** Lightly lubricate moving parts, such as the pump handle pivot points, with a suitable grease or oil as needed.

8. TROUBLESHOOTING

If you encounter issues with your Eapmic CP-700 Hydraulic Hand Pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Pump does not build pressure.	Release valve is open. Low hydraulic fluid level. Air in the system. Damaged seals or internal components.	Close the release valve. Check and refill hydraulic fluid. Bleed air from the system (consult a professional if unsure). Contact customer support for service.
Hydraulic fluid leaks from connections.	Loose connections. Damaged O-rings or seals. Incorrect thread sealant.	Tighten all connections securely. Inspect and replace damaged O-rings/seals. Apply appropriate thread sealant.
Pump handle feels spongy or inconsistent.	Air in the hydraulic system. Low hydraulic fluid level.	Bleed air from the system. Check and refill hydraulic fluid.
Pump makes unusual noises.	Low fluid level. Internal component wear. Air in the system.	Check and refill hydraulic fluid. Contact customer support for inspection. Bleed air from the system.

For issues not covered here or if problems persist, please contact Eapmic customer support or a qualified hydraulic service technician.

9. WARRANTY AND SUPPORT

For information regarding the warranty period, terms, and conditions for your Eapmic CP-700 Hydraulic Hand Pump, please refer to the warranty documentation included with your purchase or visit the official Eapmic website. Keep your proof of purchase for warranty claims.

For technical support, spare parts, or service inquiries, please contact Eapmic customer service through the contact information provided on their official website or product packaging.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question