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Draper 01082

Draper 01082 Dual Purpose Air and Fluid Transfer Pump User Manual

Model: 01082

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Draper 01082 Dual Purpose Air and Fluid Transfer Pump. This versatile tool is designed for both inflating objects with air and transferring various fluids. Please read this manual thoroughly before operation and retain it for future reference.

SAFETY INFORMATION

WARNING: Always observe basic safety precautions when using this product to reduce the risk of personal injury or damage to the pump.

- Do not use the pump for transferring flammable liquids such as gasoline without proper ventilation and extreme caution. Static electricity can cause ignition.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection when handling fluids.
- Ensure all connections are secure before operating the pump to prevent leaks.
- Do not exceed the maximum pressure rating of 100 PSI when using as an air pump.
- Keep out of reach of children.
- Clean the pump thoroughly after each use, especially when transferring different types of fluids, to prevent contamination.
- Do not attempt to pump corrosive chemicals or highly viscous fluids that are not suitable for plastic components.

PACKAGE CONTENTS

Carefully unpack the contents and ensure all items are present and undamaged. If any parts are missing or damaged, contact your supplier immediately.

- Draper Dual Purpose Air and Fluid Transfer Pump body
- Clear flexible hoses (typically two)
- Black flexible hose with valve connector

- Inflation adapters (e.g., needle valve, tapered nozzle)



Image 1: Overview of the Draper 01082 pump and its included accessories, showing the blue pump body, clear transfer hoses, black inflation hose, and various adapters.

COMPONENT IDENTIFICATION

Familiarize yourself with the main components of the pump:

- **Pump Body:** The main blue cylinder housing the piston mechanism.
- **Plunger Handle:** The black handle at the top used to operate the pump.
- **Inlet/Outlet Ports:** Connections on the pump body for attaching hoses. These feature a leak-free quick-link design.
- **Clear Hoses:** Used for fluid transfer.
- **Black Hose with Valve:** Primarily used for air inflation, connects to various adapters.
- **Inflation Adapters:** Small attachments for different inflation needs (e.g., sports balls, bicycle tires).

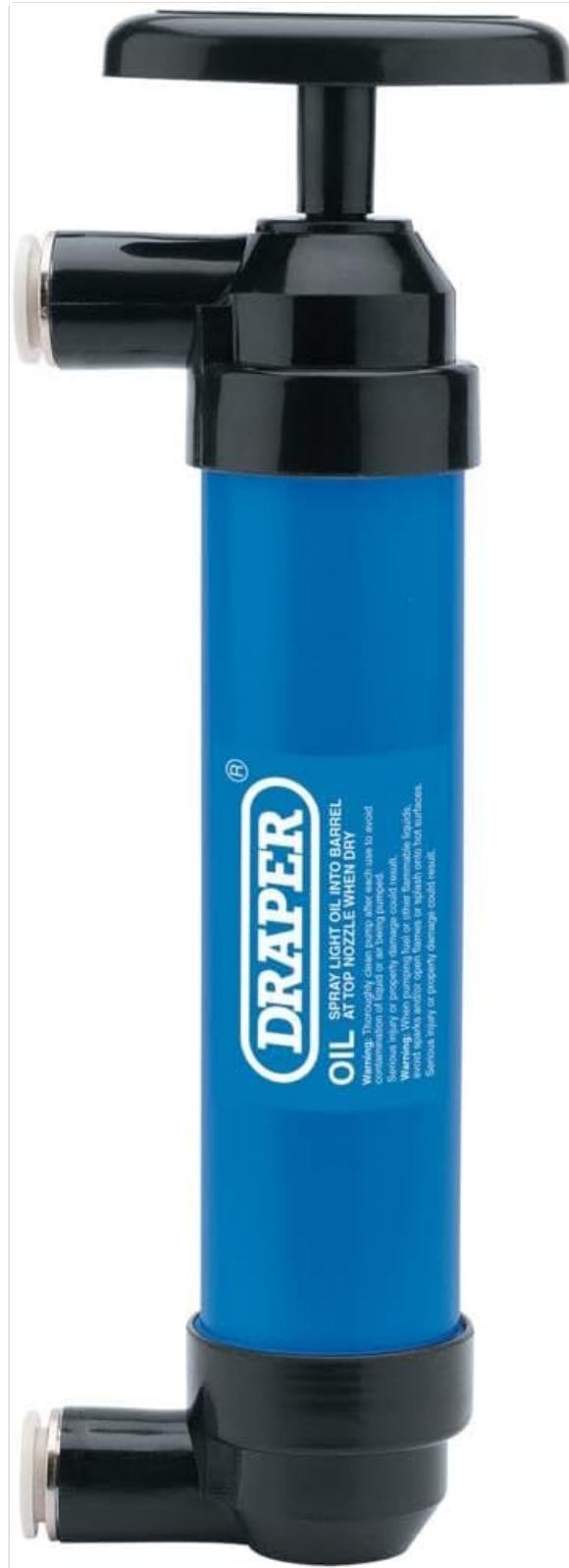


Image 2: Close-up view of the Draper 01082 pump body, highlighting the brand logo and the quick-link hose connection ports.

SETUP AND ASSEMBLY

A. For Air Pumping (Inflation)

1. Connect the black hose with the valve connector to one of the pump's quick-link ports. Ensure it clicks securely into place.
2. Attach the appropriate inflation adapter (e.g., needle for sports balls, tapered nozzle for inflatables) to the valve connector on the black hose.

3. Connect the other end of the black hose (with adapter) to the item you wish to inflate.

B. For Fluid Transfer (Syphoning/Extraction)

1. Connect one clear flexible hose to the inlet port of the pump (the port where fluid will enter). Ensure it clicks securely.
2. Connect the second clear flexible hose to the outlet port of the pump (the port where fluid will exit). Ensure it clicks securely.
3. For fluid extraction, place the inlet hose into the fluid source (e.g., oil pan, reservoir).
4. For fluid transfer (syphoning), place the inlet hose into the higher fluid source and the outlet hose into the lower receiving container.

OPERATING INSTRUCTIONS

A. Air Pumping Operation

1. Ensure the pump is set up for air pumping as described in Section 5A.
2. Hold the pump body firmly with one hand.
3. Grasp the plunger handle and move it up and down in a steady, controlled motion.
4. Continue pumping until the desired pressure is reached in the object. Do not over-inflate.
5. Once inflated, disconnect the adapter from the item and then detach the hose from the pump by pushing the grey shoulder gripping the pipe towards the main pipe body and pulling the hose.

B. Fluid Transfer Operation

1. Ensure the pump is set up for fluid transfer as described in Section 5B.
2. Place the inlet hose into the fluid source and the outlet hose into the receiving container. Ensure the receiving container is positioned lower than the fluid source for effective syphoning.
3. Hold the pump body firmly.
4. Operate the plunger handle with steady, full strokes to create suction and initiate fluid flow.
5. Once fluid flow begins, continue pumping until the desired amount of fluid has been transferred or the source is empty.
6. After transfer, remove the hoses from the fluid source and receiving container. Detach hoses from the pump by pushing the grey shoulder gripping the pipe towards the main pipe body and pulling the hose.
7. *Note:* For oil extraction, ensure the engine is warm for easier flow, but not hot enough to cause burns.

MAINTENANCE

- **Cleaning:** After each use, especially with fluids, flush the pump and hoses with clean water (or an appropriate cleaning solution for the fluid transferred) to prevent residue buildup and contamination. Pump clean water through the system until it runs clear.
- **Drying:** Allow all components to air dry completely before storage to prevent mold or corrosion.
- **Storage:** Store the pump and accessories in a clean, dry place, away from direct sunlight and extreme temperatures. Keep hoses uncoiled or loosely coiled to prevent kinking.
- **Inspection:** Periodically inspect hoses for cracks, kinks, or damage. Check pump seals for wear. Replace damaged components as necessary.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not creating suction/pressure.	Loose hose connections, clogged hose/filter, worn seals, air leak.	Ensure all quick-link connections are fully engaged. Check hoses for blockages. Inspect pump seals for damage and replace if necessary.
Fluid flow is slow or inconsistent.	Hose kinked, fluid too viscous, insufficient height difference (for syphoning), partial blockage.	Straighten hoses. Ensure fluid is suitable for pumping. Increase height difference between source and destination. Check for partial blockages.
Leaks at hose connections.	Hose not fully inserted, damaged quick-link mechanism, damaged hose end.	Push hose firmly until it clicks. Inspect quick-link for damage. Replace hose if end is damaged.

SPECIFICATIONS

Model Number	01082
Brand	Draper
Material	Plastic
Color	Blue
Power Source	Hand Powered
Operation Mode	Manual
Maximum Pressure (Air)	100 PSI
Hose Length	1300 mm (approx. 51 inches)
Item Weight	0.47 kg (1.04 lbs)
Product Dimensions (L x W x H)	9.72" x 2.28" x 10.63"

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Draper Tools directly through their official website. Keep your proof of purchase for any warranty claims.