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› Lincoln 4417 Pneumatic Grease Pump with Drum Dolly User Manual

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Lincoln 4417 Pneumatic Grease Pump with Drum Dolly User Manual

Model: 4417 | Brand: Lincoln

1. INTRODUCTION

The Lincoln 4417 Pneumatic Single Acting Grease Pump with Drum Dolly is an industrial-grade tool designed for efficient high-pressure grease delivery. This system is compatible with standard 120lb (approximately 55kg) grease drums and features a 40:1 pressure ratio. It is ideal for lubrication tasks in automotive workshops, fleet maintenance, manufacturing plants, and agricultural settings. The included drum dolly with swivel casters enhances mobility, allowing for easy transport across various job sites. The pump is equipped with a 7-foot high-pressure hose, a control valve, a universal swivel, and a coupler for precise grease application to bearings, gears, bushings, and other machinery components. A standard follower plate ensures consistent grease flow and helps prevent air pockets, contributing to reliable operation and long-term durability.

2. SAFETY INFORMATION

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- Always wear appropriate personal protective equipment, including safety glasses and gloves, when operating this equipment.
- Ensure the air supply is disconnected and pressure is relieved before performing any maintenance or adjustments.
- Do not exceed the maximum rated air pressure for the pump or any connected components.
- Use only the specified type and viscosity of grease for optimal performance and to prevent damage.
- Keep the work area clean and well-lit.
- Do not point the grease gun at yourself or others.
- Regularly inspect the hose, connections, and pump for signs of wear or damage. Replace worn parts immediately.

3. COMPONENTS OVERVIEW

The Lincoln 4417 system includes the following main components:

- **Pneumatic Pump Head:** The core unit that pressurizes and dispenses grease.

- **Drum Dolly:** A mobile base designed to hold a 120lb grease drum, equipped with 4 swivel casters for easy movement.
- **Follower Plate:** Sits on top of the grease in the drum, ensuring consistent feed to the pump and preventing air entrapment.
- **High-Pressure Hose:** A 7-foot hose rated for high pressure, connecting the pump to the grease gun.
- **Grease Control Valve/Gun:** Used to control the flow and apply grease precisely.
- **Universal Swivel and Coupler:** Provides flexibility and secure connection for the grease gun.
- **Air Regulator with Gauge:** Controls and monitors the incoming air pressure to the pump.



Figure 1: Fully assembled Lincoln 4417 Pneumatic Grease Pump with Drum Dolly.



Figure 2: The drum dolly with its four swivel casters for mobility.

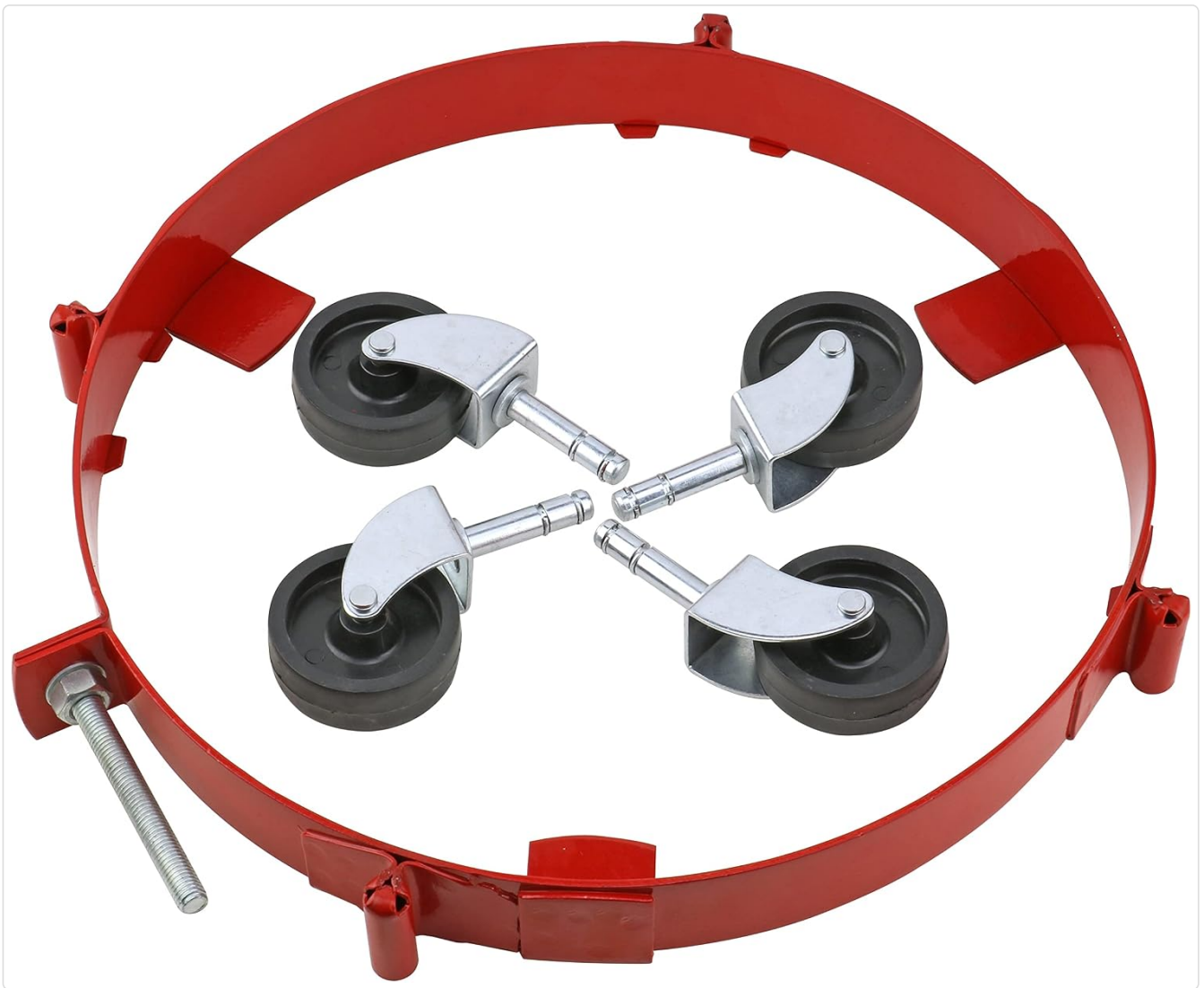


Figure 3: The standard follower plate, designed to ensure consistent grease flow.

4. SETUP

4.1 Assembling the Drum Dolly

1. Attach the four swivel casters to the base of the drum dolly using the provided hardware (bolts, lock washers, and nuts). Ensure all connections are tightened securely.
2. Place a standard 120lb grease drum into the assembled drum dolly.



Figure 4: Casters securely attached to the drum dolly base.

4.2 Installing the Pump Head and Follower Plate

1. Place the follower plate directly onto the surface of the grease inside the drum.
2. Carefully lower the pneumatic pump head assembly into the drum, ensuring the pump shaft passes through the center of the follower plate. The follower plate will help create a seal and push the grease upwards into the pump.
3. Secure the pump head to the drum using the locking clamps or mechanisms provided on the drum dolly.

4.3 Connecting the High-Pressure Hose and Grease Gun

1. Connect one end of the 7-foot high-pressure hose to the outlet port on the pneumatic pump head. Tighten securely.
2. Attach the grease control valve (grease gun) to the other end of the high-pressure hose using the universal swivel and coupler. Ensure all connections are tight to prevent leaks.



Figure 5: Proper connection of the grease gun to the high-pressure hose.

5. OPERATION

5.1 Connecting to Air Supply

1. Connect your shop's compressed air supply to the air inlet port on the pneumatic pump head, typically through the air regulator.
2. Adjust the air regulator to the desired operating pressure. Refer to the pump's specifications for recommended pressure ranges.



Figure 6: The pump head showing the air regulator and pressure gauge.

5.2 Purging Air from the System

Before initial use or after changing a grease drum, it is essential to purge any air from the system to ensure consistent grease flow.

1. Point the nozzle of the grease gun into a waste container or rag.
2. Slowly activate the grease gun trigger until a steady stream of grease, free of air bubbles, is dispensed. This may take several activations.

Video 1: Demonstration of purging air from a grease pump system and refilling a grease gun.

5.3 Applying Grease

1. Position the grease gun coupler onto the grease fitting (zerk) of the component to be lubricated.
2. Press the trigger on the grease gun to dispense grease. Apply grease until resistance is felt or until the component is adequately lubricated according to manufacturer recommendations.
3. Release the trigger and remove the coupler from the grease fitting.

Video 2: Overview of a grease pump for a 5-gallon bucket, demonstrating its components and basic function.

6. MAINTENANCE

- **Regular Cleaning:** Keep the pump, hose, and grease gun clean to prevent contamination of the grease and equipment.
- **Hose Inspection:** Periodically check the high-pressure hose for cracks, bulges, or other signs of wear. Replace if damaged.
- **Coupler and Swivel:** Ensure the universal swivel and coupler are functioning smoothly and not leaking. Replace seals or the entire unit if necessary.
- **Air Regulator:** Check the air regulator and gauge for proper function. Ensure it maintains consistent pressure.
- **Grease Drum:** Always keep the grease drum covered when not in use to prevent contamination.
- **Storage:** Store the grease pump in a clean, dry environment when not in use. Hang the grease gun and hose on the integrated hook to prevent damage.

7. TROUBLESHOOTING (FREQUENTLY ASKED QUESTIONS)

- **Q: Can I use this pump with a longer delivery hose?**
A: The model 4417 pump is not recommended for use with hoses longer than the 7 ft. hose included. Using a longer hose may reduce performance and increase strain on the pump.
- **Q: How can I remove dirt or moisture from the compressor air supply?**
A: An air line filter/regulator, such as the Lincoln Industrial model 602136 (ASIN B00C3J68ZW), is recommended for use with Lincoln pumps to remove harmful dirt and moisture from the compressor air supply. This helps prolong the life of the pump.
- **Q: Is this product serviceable?**
A: Yes, this product is serviceable, and repair parts are available. Refer to the product manual for detailed parts diagrams and ordering information.
- **Q: Does this kit include a drum?**
A: No, this kit does not include a 120lb drum. The drum must be purchased separately.

8. SPECIFICATIONS

Feature	Specification
Brand	Lincoln
Model	4417
Item Weight	1.6 ounces (Note: This likely refers to a component, not the full system)
Product Dimensions	35.75 x 4.5 x 20.75 inches
Lift Type	Pneumatic
Pressure Ratio	40:1 (Inferred from product description)
Hose Length	7 feet (High Pressure)
Compatible Drum Size	120lb Drums

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please contact Lincoln customer service or visit the official Lincoln website. Keep your purchase receipt for warranty claims.

Online Resources: For additional information and support, you may visit the [Lincoln Store on Amazon](#).