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> Klutch 20-Gallon Air Compressor (2 HP, 120V, 175 PSI) Instruction Manual

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Model: 20-Gallon Air Compressor

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Klutch 20-Gallon Air Compressor. Please read and understand all instructions before using the compressor to ensure proper function and user safety. Keep this manual for future reference.





Figure 1.1: Klutch 20-Gallon Air Compressor, showing the tank, motor, control panel, and wheels.

2. SAFETY INFORMATION

Always observe basic safety precautions when using electrical products to reduce the risk of fire, electric shock, and personal injury. This section outlines critical safety guidelines specific to air compressors.

- **Electrical Safety:** Ensure the compressor is connected to a properly grounded outlet. Do not operate in wet conditions. Avoid using extension cords unless absolutely necessary and ensure they are rated for the compressor's power requirements.
- **Pressure Safety:** Never exceed the maximum operating pressure of any air tool or accessory. Always wear appropriate eye protection. Do not direct compressed air at people or animals.
- **Moving Parts:** Keep hands, hair, and clothing away from moving parts during operation.
- **Noise Protection:** Air compressors can be loud. Wear hearing protection during extended operation.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent heat buildup and ensure proper air intake.

- **Thermal Overload Protection:** The unit is equipped with thermal overload protection. If the motor stops due to overheating, allow it to cool down before restarting.
- **Maintenance:** Disconnect power before performing any maintenance or adjustments. Regularly drain moisture from the tank to prevent corrosion and ensure safe operation.

3. PRODUCT OVERVIEW

The Klutch 20-Gallon Air Compressor is designed for various tasks requiring compressed air, such as nailing, stapling, painting, and blow gun applications. It features a 2.0 HP motor, an oil-free pump for reduced maintenance, and a 20-gallon tank with a maximum pressure of 175 PSI.



Figure 3.1: Control panel featuring dual gauges for monitoring tank and regulated pressure, a large regulator for pressure adjustment, and two quick couplers for tool connection.

LOW MAINTENANCE

OIL-FREE PUMP



Figure 3.2: The oil-free pump design reduces maintenance requirements, eliminating the need for oil changes.



Figure 3.3: Large rubber wheels and an ergonomic handle facilitate easy movement and portability of the compressor.

4. SETUP

Follow these steps to prepare your air compressor for initial use:

1. **Unpacking:** Carefully remove the compressor from its packaging. Inspect for any shipping damage. Report any damage to the retailer immediately.
2. **Placement:** Position the compressor on a firm, level surface in a clean, well-ventilated area. Ensure there is adequate space around the unit for air circulation. Rubber foot stabilizers are provided to reduce vibration during operation.
3. **Power Connection:** Connect the compressor to a 120-volt, grounded electrical outlet. Ensure the circuit can handle the compressor's power requirements.
4. **Initial Break-in (if applicable):** Refer to the operating instructions label on the compressor for specific break-in procedures, if any. Typically, this involves running the compressor with the drain valve open for a short period to ensure proper lubrication and seating of components.

5. OPERATING INSTRUCTIONS

The following steps detail the general operation of your Klutch air compressor. Always refer to the specific operating instructions label on the unit for precise guidance.

1. **Preparation:** Close the drain valve located at the bottom of the tank.
2. **Power On:** Plug the power cord into a grounded 120V outlet. Turn the power switch to the "ON" position. The compressor will begin to build pressure.
3. **Pressure Adjustment:** Once the compressor reaches its maximum pressure and shuts off, turn the regulator knob clockwise to increase pressure or counter-clockwise to decrease pressure for your air tool. Monitor the regulated pressure gauge.
4. **Tool Connection:** Connect your air tool to one of the quick couplers.
5. **Operation:** Use your air tool as required. The compressor will cycle on and off automatically to maintain the set pressure.
6. **Shut Down:** When finished, turn the power switch to "OFF". Disconnect the air tool.
7. **Depressurize and Drain:** Pull the safety valve ring to release air pressure from the tank. Once the tank is depressurized, open the drain valve to release any accumulated moisture.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your air compressor. Always disconnect the power before performing any maintenance.

- **Daily/After Each Use:**
 - Drain moisture from the air tank.
- **Monthly:**
 - Check for air leaks.
 - Inspect bolts and fasteners; tighten as needed.
 - Clean the air filter.
- **General:**
 - The compressor features an oil-free pump, eliminating the need for oil changes.
 - Keep the compressor clean and free of debris.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your air compressor. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Compressor does not start or stops unexpectedly.	◦ No power to the unit. ◦ Thermal overload activated. ◦ Low voltage.	◦ Check power cord and outlet. ◦ Allow motor to cool down (approx. 10-15 minutes). ◦ Ensure proper voltage supply.

Problem	Possible Cause	Solution
Compressor runs continuously or cycles too frequently.	◦ Air leak in the system. ◦ Pressure switch malfunction.	◦ Check all connections, hoses, and fittings for leaks. Tighten or replace as needed. ◦ Contact customer support for pressure switch inspection.
Low air pressure or insufficient air delivery.	◦ Regulator set too low. ◦ Air leaks. ◦ Clogged air filter.	◦ Adjust the regulator to the desired pressure. ◦ Check for and repair air leaks. ◦ Clean or replace the air filter.
Excessive noise or vibration.	◦ Loose components. ◦ Uneven surface.	◦ Inspect and tighten all bolts and fasteners. ◦ Place the compressor on a stable, level surface.

8. SPECIFICATIONS

Feature	Detail
Brand	Klutch
Model	20-Gallon Air Compressor
Tank Capacity	20 Gallons
Motor Horsepower	2.0 HP
Maximum PSI	175 PSI
Voltage	120 Volts
SCFM @ 90 PSI	4.2 SCFM
SCFM @ 40 PSI	5.2 SCFM
Pump Type	Oil-Free
Noise Level	80 dB
Recommended Uses	Nailing, Spraying
Power Source	Corded Electric

9. WARRANTY AND SUPPORT

For warranty information, technical assistance, or to order replacement parts, please contact Klutch customer support. Refer to your purchase documentation for specific warranty terms and conditions.

Customer Support: For assistance, please refer to the contact information provided by Northern Tool + Equipment, the seller of this product, or visit the official Klutch website.

You can often find support details on the product's listing page or by searching for "Klutch customer support" online.

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

Answered questions about this manual

The right air outlet on my Klutch 20-Gallon Air Compressor blew out my air hose and the connector is damaged, causing it to leak air constantly. How can I shut down or close the right outlet for now?

On the Klutch 20-Gallon Air Compressor, the two quick-connect couplers are typically integrated into the manifold behind the regulator. There is no built-in shut-off valve for an individual outlet; if the internal check valve...

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