

DEWALT D55154

DEWALT D55154 Air Compressor Instruction Manual

Model: D55154

INTRODUCTION

The DEWALT D55154 is a 1.1 HP Continuous 4 Gallon Electric Wheeled Dolly-Style Air Compressor with Panel. This robust and portable air compressor is engineered for professional use, offering reliable performance for various pneumatic tools. Its design prioritizes ease of transport and durability, making it suitable for diverse job site conditions.

SAFETY INFORMATION

Always read and understand all instructions before operating this air compressor. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- **Electrical Safety:** Ensure the compressor is connected to a 120 Volt power source with proper grounding. Do not operate in wet conditions.
- **Pressure Safety:** The maximum operating pressure is 125 PSI. Do not exceed the rated pressure of any air tool or accessory.
- **Personal Protective Equipment:** Always wear appropriate eye protection when operating or maintaining the compressor or connected air tools.
- **Moving the Compressor:** Despite its wheeled design, the unit weighs approximately 44 pounds. Use proper lifting techniques or utilize the telescoping handle and pneumatic tires for easy movement.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SETUP

1. **Unpacking and Inspection:** Carefully remove the compressor from its packaging. Inspect for any damage that may have occurred during shipping. Ensure all components, including the compressor oil, are present.
2. **Wheel Assembly:** The compressor features fully pneumatic tires for easy mobility. Ensure the wheels are securely attached and properly inflated before use.
3. **Oil Fill:** The oil-lubricated pump requires proper oil levels for optimal performance and durability. Locate the oil fill cap and fill with the provided compressor oil to the indicated level. The oil pump is rotated 90 degrees for quick oil changes.

4. **Power Connection:** Connect the compressor to a standard 120 Volt electrical outlet. Ensure the circuit can handle the compressor's power requirements.



Figure 1: The DEWALT D55154 Air Compressor, showcasing its yellow tanks, black control panel, and wheels.

OPERATING INSTRUCTIONS

1. **Power On:** Turn on the compressor. Allow the tank to fill to its maximum pressure (125 PSI). The tank pressure gauge will indicate the current pressure.
2. **Connecting Air Tools:** The compressor is equipped with two universal quick couplers. Push the hose firmly into the coupler to connect. To release, push the collar back.
3. **Adjusting Regulated Pressure:** Use the regulator knob on the control panel to adjust the output pressure to suit your air tool's requirements. The regulated pressure gauge displays the adjusted output pressure.

4. **Continuous Operation:** The 1.1 HP induction motor provides continuous power, delivering 4.0 SCFM at 90 PSI, ensuring rapid recovery for sustained tool use.
5. **Transporting the Compressor:** Utilize the unique wheeled dolly-style design and telescoping handle for easy movement across job sites. The top-load panel with positioning holes allows for loading up to 100 pounds of additional tools or materials for transport.



Figure 2: Close-up view of the control panel, showing the tank pressure gauge, regulator, regulated pressure gauge, and universal quick couplers.



Figure 3: A person loading a toolbox onto the top panel of the DEWALT D55154 air compressor, demonstrating its transport capability.



Figure 4: An individual operating the DEWALT D55154 air compressor with a nail gun for a finishing project indoors.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DEWALT air compressor.

- **Oil Changes:** Periodically check and change the compressor oil as per the manufacturer's recommendations. The oil pump's 90-degree rotation facilitates quick and easy oil changes.
- **Draining the Tank:** The compressor features a convenient ball drain valve. Regularly drain condensation from the tank to prevent rust and maintain air quality. This is a simple task that extends the life of the tool.
- **Tire Maintenance:** The fully pneumatic tires may require occasional inflation or sealant application to prevent flats, especially in demanding environments.

TROUBLESHOOTING

This section addresses common issues you might encounter with your air compressor.

- **Compressor Hums but Doesn't Start/Trips Overload:** This can indicate low voltage, a faulty motor, or a

seized pump. Ensure the power supply is adequate. If the issue persists, consult a qualified technician.

- **Low Air Pressure/Slow Recovery:** Check for air leaks in hoses or connections. Ensure the regulator is set to the desired pressure. Verify the air filter is clean.
- **Excessive Noise or Vibration:** This could be due to loose components, worn parts, or an issue with the motor or pump. Discontinue use and inspect the unit.

For issues not listed here or if troubleshooting steps do not resolve the problem, contact DEWALT customer support.

SPECIFICATIONS

Feature	Specification
Brand	DEWALT
Model Name	D55154
Voltage	120 Volts
Power Source	Electric-powered
Motor Horsepower	1.1 Horsepower
Capacity	4 Gallons
Maximum Operating Pressure	125 PSI
Air Flow Capacity (CFM @ 90 PSI)	4.0 Cubic Feet Per Minute
Noise Level	65 dB
Item Weight	44 Pounds
Product Dimensions (L x W x H)	24"L x 19.75"W x 22.6"H
Included Components	1 Heavy Duty 4 Gallon Dolly-Style Stacked Tank, compressor oil



Figure 5: Dimensional view of the DEWALT D55154 air compressor, showing its length, width, and height.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official DEWALT website or contact DEWALT customer service directly. Keep your purchase receipt for warranty claims.

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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.

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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