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› DeWalt D55151 2 Hp 4 Gal Hand Carry Twin Tanks, 14 Amps Instruction Manual

DEWALT D55151

DeWalt D55151 Air Compressor User Manual

Model: D55151 | Brand: DEWALT

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DeWalt D55151 2 Hp 4 Gallon Hand Carry Twin Tank Air Compressor. Please read this manual thoroughly before operating the compressor to ensure proper use and to prevent injury or damage.

1.1 Safety Information

Always observe all safety warnings and instructions provided in this manual and on the product itself. Failure to do so can result in serious injury or property damage. This product may 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 eye and hearing protection.
- Ensure the compressor is placed on a stable, level surface.
- Do not operate the compressor in wet conditions or near flammable materials.
- Disconnect power before performing any maintenance or adjustments.
- Never direct compressed air at yourself or others.

2. PRODUCT OVERVIEW

The DeWalt D55151 is a versatile and portable air compressor designed for various applications, including roofing, finish work, trim, and general home/hobby use. It features a robust design with a 2 Hp electric motor and a 4-gallon twin-stack tank.



Figure 2.1: Overall view of the DeWalt D55151 Hand Carry Twin Tank Air Compressor.

2.1 Key Features

- **3.2 CFM Delivered at 100 PSI:** Enables speedy recovery for continuous work.
- **Oil-Lubricated Pump:** Improves durability and extends pump life.
- **4-Gallon Twin-Stack Tank Design:** Provides ample air capacity in a compact form factor.
- **Lightweight Design:** Enhances portability for easy transport.
- **Overload Protection:** Safeguards the motor from damage due to excessive load.
- **Dual Soft-Start Valves:** Aids in cold weather startup.
- **Cast-Iron Cylinder:** Further enhances pump life and reliability.

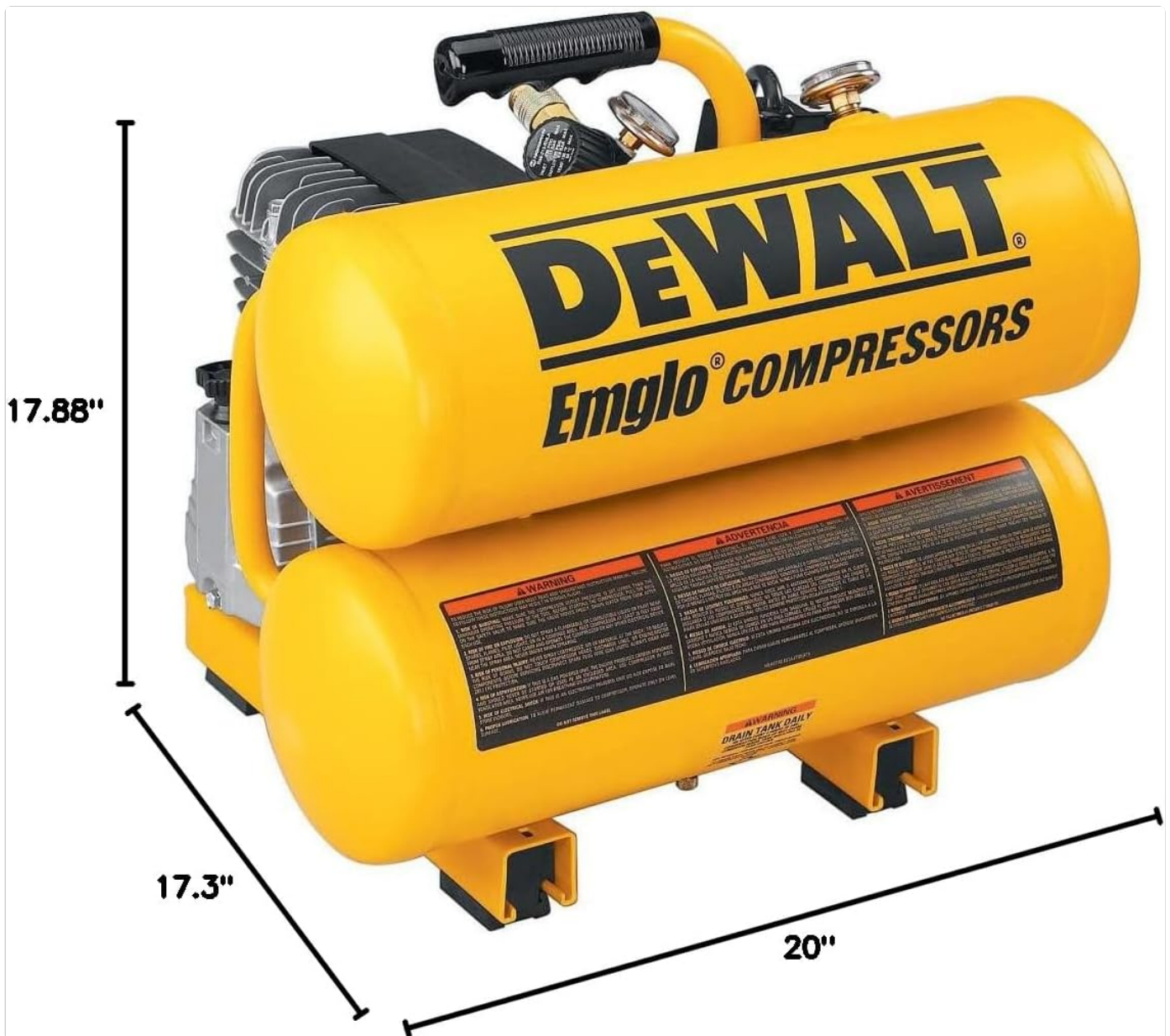


Figure 2.2: Dimensions of the DeWalt D55151 Air Compressor, showing its compact size for portability.

3. SETUP

Before first use, proper setup is crucial for the longevity and performance of your compressor.

3.1 Initial Inspection

Upon unboxing, inspect the compressor for any signs of shipping damage. Ensure all components are present and securely attached. If any damage is found, do not operate the unit and contact customer support.

3.2 Oil Filling

The compressor requires oil for lubrication. It comes with an initial fill of DeWalt synthetic air compressor oil. Verify the oil level before first use and ensure it is within the MIN and MAX indicators on the dipstick or sight glass. The oil capacity is approximately 6 oz.



Figure 3.1: Close-up view of the oil capacity indicator on the compressor, showing MIN and MAX levels. Ensure oil is within this range.

3.3 Electrical Connection

The D55151 operates on a 120-volt AC, 14-amp, 60 Hz power supply. Plug the compressor directly into a grounded 120V outlet.

Avoid using extension cords, especially those that are improperly rated or too long, as this can lead to insufficient power delivery and prevent the compressor from starting or operating correctly.

3.4 Break-in Procedure

For optimal performance and longevity, perform a break-in procedure before initial use. Refer to the specific instructions in your compressor's manual for the exact duration and steps, typically involving running the compressor without load for a specified period.

4. OPERATION

Operating your DeWalt D55151 compressor is straightforward once setup is complete.

4.1 Starting the Compressor

1. Ensure the power switch is in the OFF position.
2. Connect the compressor to a suitable 120V power outlet.
3. Turn the power switch to the ON position. The compressor will begin to build pressure.
4. Allow the compressor to reach its maximum pressure and shut off automatically before connecting any air tools.

4.2 Adjusting Pressure

The compressor includes a 3/8-inch regulator to adjust the output air pressure. Turn the regulator knob clockwise to increase pressure and counter-clockwise to decrease pressure. Monitor the pressure gauge to set the desired PSI for your application.

4.3 Applications

The D55151 is suitable for a variety of tasks, including:

- Air Brushing
- Drilling (with appropriate pneumatic tools)
- Nailing (for roofing, finish, and trim applications)
- Spraying

4.4 Noise Level

The compressor operates at a noise level of approximately 68 dB. Always use hearing protection when operating the unit.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your air compressor.

5.1 Drain Tank Daily

Moisture accumulates in the air tanks during operation. To prevent corrosion and maintain tank integrity, it is critical to drain the tanks daily after each use. Locate the drain plugs at the bottom of the tanks and open them to release condensed water. Ensure all air pressure is released before draining.

5.2 Oil Level Checks and Changes

Regularly check the oil level using the dipstick or sight glass. Maintain the oil level between the MIN and MAX marks. Refer to the product manual for recommended oil change intervals and the type of oil to use (DeWalt synthetic compressor oil).

5.3 General Cleaning

Keep the compressor clean and free of dust and debris. Periodically clean the air intake filter to ensure proper airflow and prevent motor overheating.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your DeWalt D55151 air compressor.

6.1 Compressor Not Starting or Not Pressurizing

- **Power Supply:** Ensure the compressor is plugged directly into a dedicated 120V outlet. Avoid using long or undersized extension cords, as they can cause voltage drop and prevent the motor from starting or building pressure.
- **Motor Overload:** If the motor stops unexpectedly, it might be due to overload protection. Allow the motor to cool down. Locate the motor reset button (often near the power switch or motor housing) and press it to reset.



Figure 6.1: Location of the motor reset button on the DeWalt D55151. Press this button after the motor has cooled if it stops due to overload.

6.2 Air Leaks

Check all connections, hoses, and fittings for leaks. Tighten any loose connections. If a component is damaged, replace it with genuine DeWalt parts.

6.3 Excessive Noise or Vibration

Ensure the compressor is on a stable, level surface. Check for loose components or worn parts. If the noise persists, consult a qualified service technician.

7. SPECIFICATIONS

Detailed technical specifications for the DeWalt D55151 Air Compressor.

Specification	Value
Brand	DEWALT
Model Name	D55151
Voltage	120 Volts
Power Source	Corded Electric
Maximum Power	2 Horsepower
Motor Horsepower	1.1 Horsepower
Tank Size	4 Gallons
Air Flow Capacity (at 100 PSI)	3.2 Cubic Feet Per Minute (CFM)
Maximum Operating Pressure	100 PSI
Pump Speed	3,400 rpm
Noise Level	68 dB
Item Weight	58 Pounds
Product Dimensions (L x W x H)	20" x 17.3" x 17.88"
Material	Blend (Metal/Plastic)
Recommended Uses	Air Brushing, Drilling, Nailing, Spraying

8. WARRANTY AND SUPPORT

Your DeWalt D55151 high-performance industrial tool comes with a comprehensive warranty package.

8.1 Warranty Information

- **30-Day, No-Risk Satisfaction Guarantee:** If you are not completely satisfied with the performance of your DeWalt tool, you may return it within 30 days from the date of purchase for a full refund.
- **One-Year Free Service Contract:** DeWalt will maintain the tool and replace worn parts caused by normal use, free of charge, any time during the first year after purchase.

- **One-Year Warranty:** DeWalt will repair, without charge, any defects due to faulty materials or workmanship for one year from the date of purchase. This warranty does not cover part failure due to normal wear or tool abuse.

8.2 Customer Support

For warranty claims, technical assistance, or to locate an authorized service center, please refer to the contact information provided on the official DEWALT website or your product packaging. Always provide your model number (D55151) and serial number when contacting support.

