DEWALT DXCM303

DEWALT 30 Gallon Vertical Air Compressor

Model: DXCM303

Instruction Manual

1. Introduction and Product Overview

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your DEWALT 30 Gallon Vertical Air Compressor, Model DXCM303. This robust 2 HP, single-stage, oil-lube belt drive compressor is designed for a wide range of home improvement and professional workshop applications, delivering up to 175 PSI. Its vertical design and portable features ensure convenience and versatility.

Key Features:

- **High Performance Output:** Delivers a robust 175 max PSI, suitable for various tasks.
- **Versatile Use:** Portable design with a durable belt drive system, ideal for garage or shop use.
- **Efficient Air Delivery:** Achieves 6.2 SCFM at 90 PSI for reliable performance and fast recovery times.
- **Durable Construction:** Built with a sturdy single-stage pump for longevity and consistent operation.
- **Compact and Portable:** 30-gallon tank with a vertical, space-saving design and easy maneuverability.





Figure 1.1: Overall view of the DEWALT 30 Gallon Vertical Air Compressor (Model DXCM303).

2. Important Safety Information

Always read and understand all safety warnings and instructions before operating this air compressor. Failure to follow these warnings may result in serious injury, electric shock, fire, and/or property damage.

General Safety Warnings:

- **Electrical Safety:** Ensure the power source matches the compressor's requirements (120 Volts). Do not operate in wet conditions. Use a grounded outlet.
- **Pressure Safety:** Never exceed the maximum operating pressure of 175 PSI. Do not modify the pressure switch or safety valve.
- **Personal Protective Equipment (PPE):** Always wear safety glasses or goggles when operating the compressor or air tools. Hearing protection is recommended due to the noise level (62 dB).
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating and accumulation of fumes.
- **Maintenance:** Disconnect power before performing any maintenance or adjustments.
- **Children and Bystanders:** Keep children and bystanders away from the operating compressor.

3. Setup and Assembly

Before first use, ensure all components are present and properly assembled.

Initial Assembly Steps:

1. **Unpacking:** Carefully remove the compressor from its packaging. Inspect for any shipping damage.
2. **Wheel Attachment:** Attach the 10-inch pneumatic wheels to the compressor base using the provided hardware. Ensure they are securely fastened for stability and portability.



Figure 3.1: Securely attach the pneumatic wheels for mobility.

3. **Oil Filling:** The compressor is shipped without oil in the pump. Fill the pump with the recommended compressor oil (typically non-detergent SAE 30 or as specified in a separate oil manual if provided) to the indicated level on the dipstick or sight glass. Do not overfill.

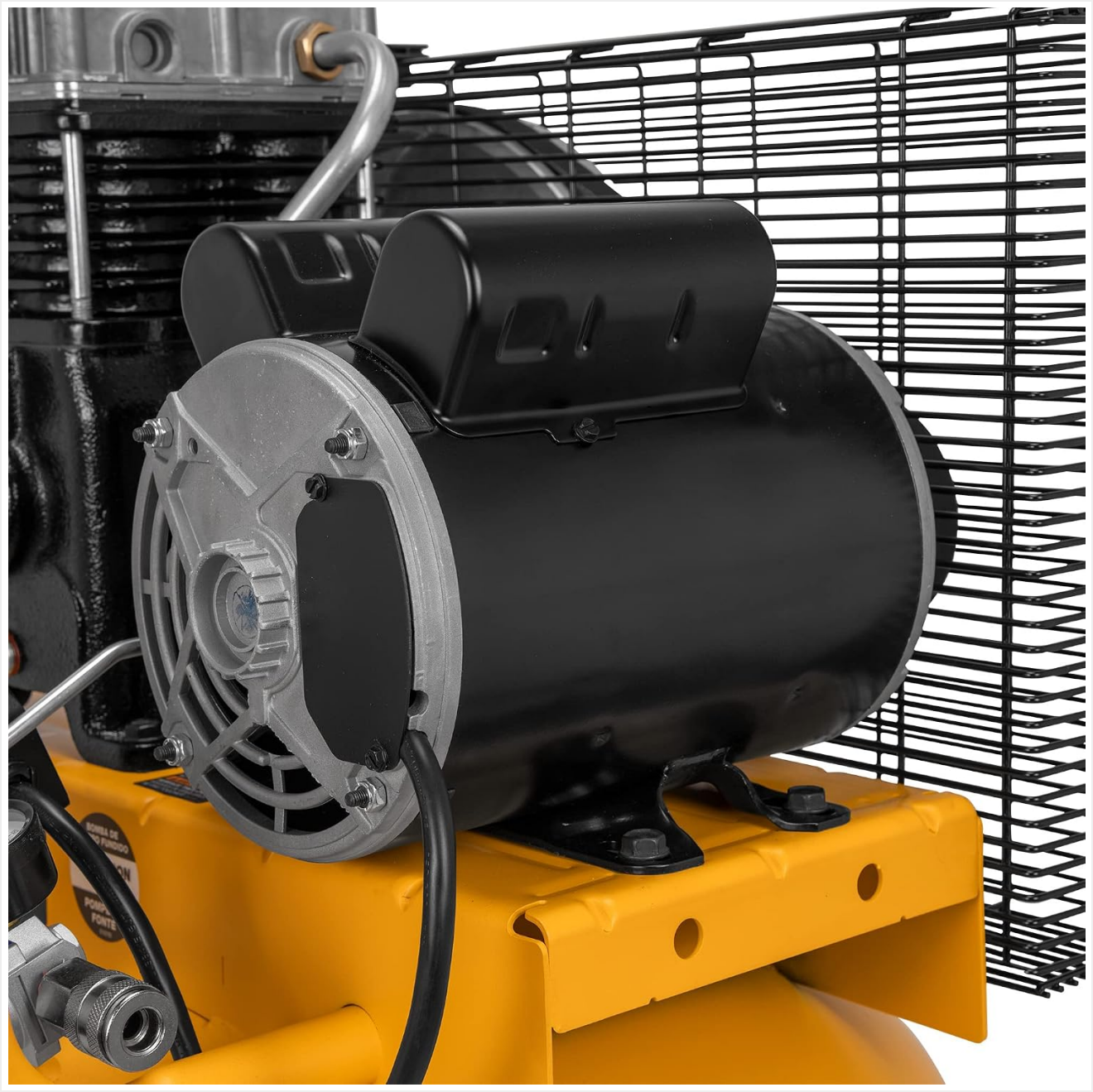


Figure 3.2: Locate the oil fill cap and sight glass on the pump.

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

4. Operating Instructions

Follow these steps for safe and effective operation of your air compressor.

Starting the Compressor:

1. **Break-in Period:** For the first 30 minutes of operation, run the compressor with the tank drain valve fully open. This allows the pump components to seat properly without building pressure.
2. **Power On:** Ensure the power switch is in the "OFF" position before plugging in. Once plugged in, switch to "ON". The compressor will begin to build pressure.
3. **Pressure Adjustment:** Use the pressure regulator knob to set the desired output pressure for your air tool. The tank pressure gauge shows the pressure inside the tank, while the regulated pressure gauge shows the output pressure.

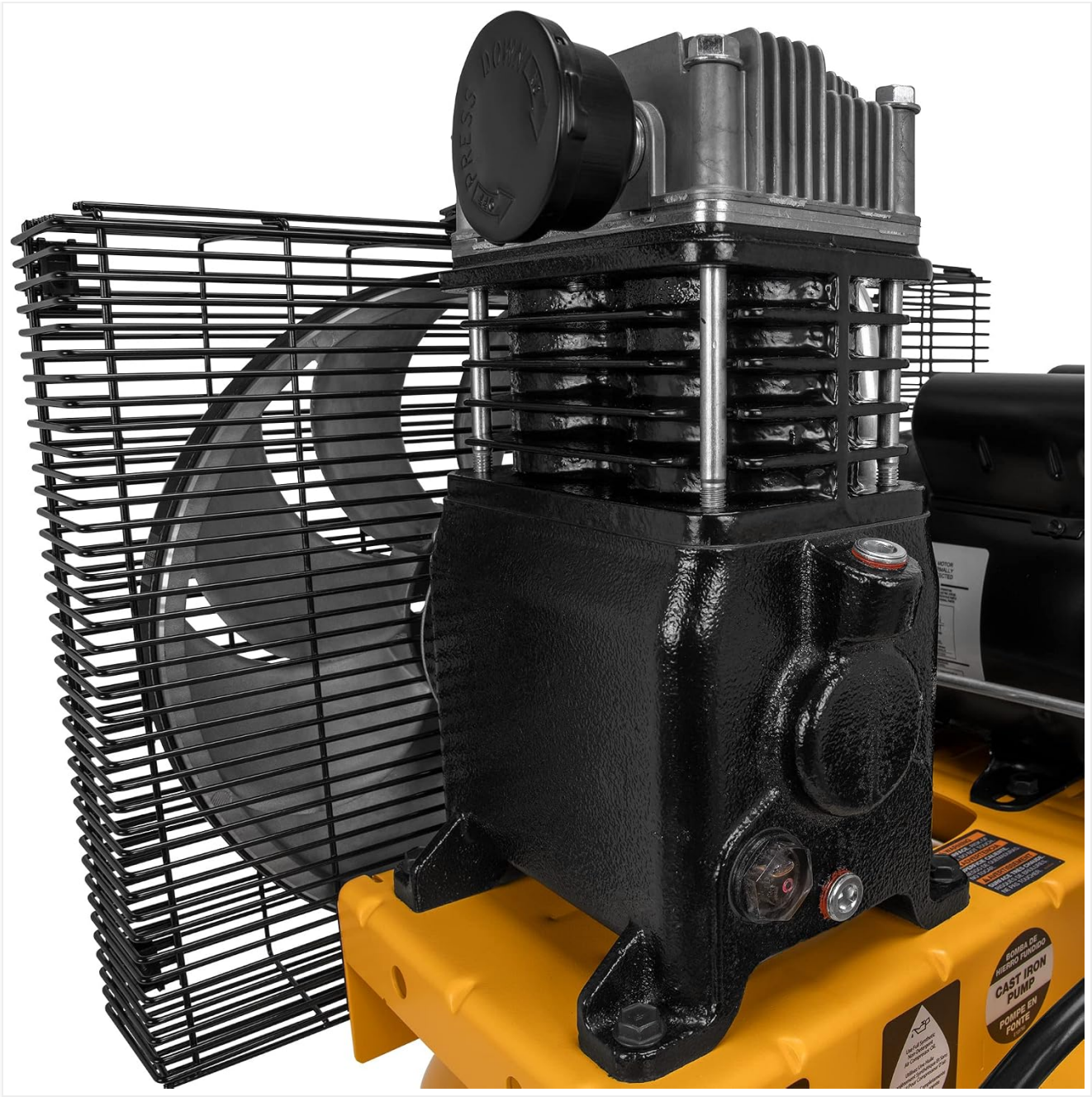


Figure 4.1: Control panel showing tank pressure gauge, regulated pressure gauge, and regulator knob.

4. **Connecting Air Tools:** Attach your air hose to the quick-connect coupler. Ensure the connection is secure.

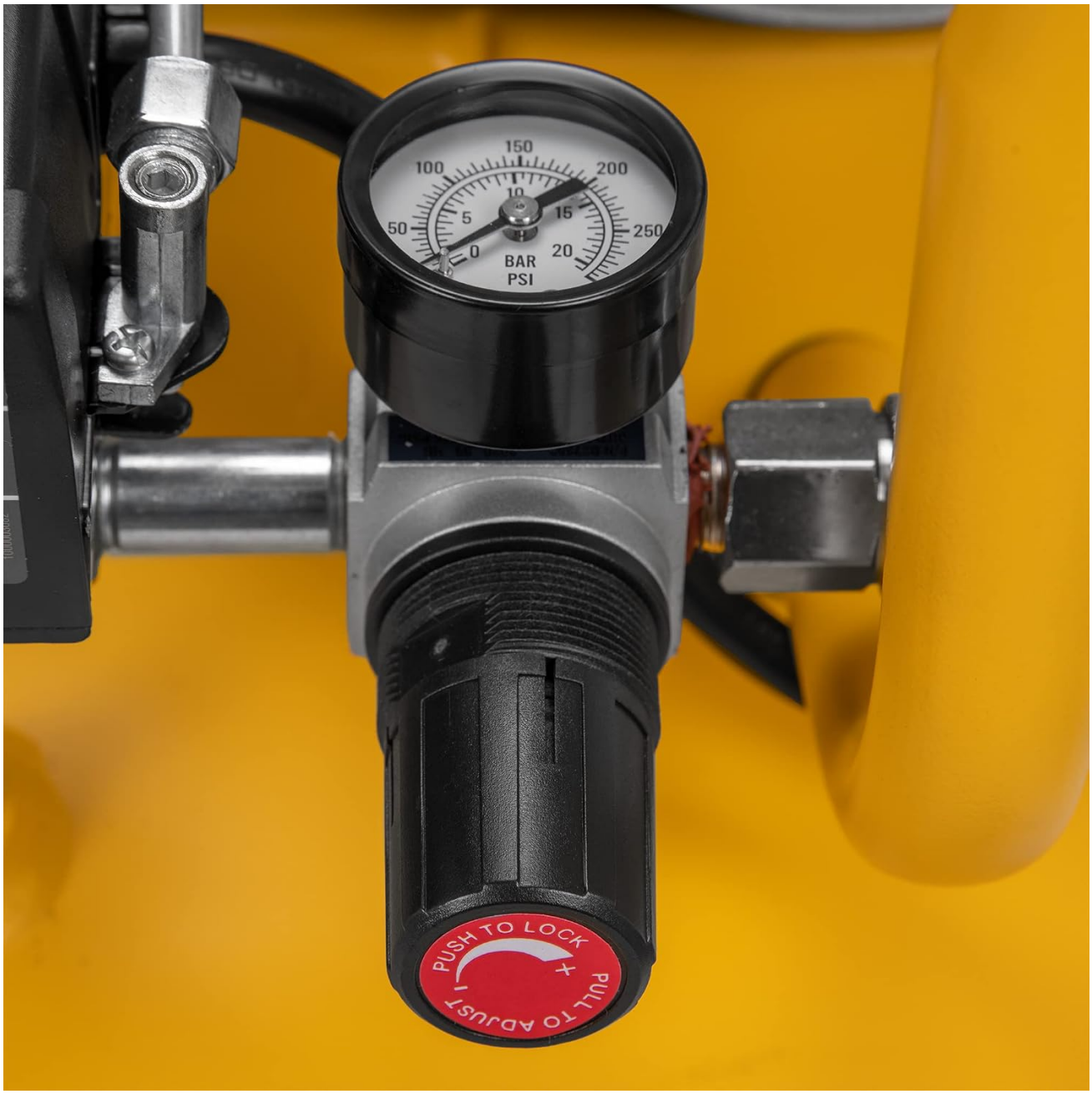


Figure 4.2: Quick-connect air outlet for attaching air hoses.

Official Product Video:

Watch this official video for a visual overview of the DEWALT DXCM303 30 Gallon Portable Air Compressor's features and benefits.

[redacted]

Video 4.1: DEWALT DXCM303 30 Gallon Portable Air Compressor Overview. This video highlights key features such as sound level, run time, air pressure, and portability.

5. Maintenance

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

Maintenance Schedule:

- **Daily/Before Each Use:**

- Check oil level: Ensure oil is at the proper level. Add oil if necessary.
- Drain condensation from air tank: Open the drain valve at the bottom of the tank to release accumulated moisture. This prevents rust and extends tank life.



Figure 5.1: Tank drain valve for removing condensation.

- **Weekly/Every 10 Hours of Use:**
  - Inspect air filter: Clean or replace if dirty. A clogged filter reduces efficiency.
- **Monthly/Every 50 Hours of Use:**
  - Check for air leaks: Listen for hissing sounds or use soapy water to detect leaks around fittings and connections.
  - Inspect belt: Check for wear, cracks, or proper tension.
- **Annually/Every 200 Hours of Use:**
  - Change pump oil: Replace with fresh, recommended compressor oil.

6. Troubleshooting

This section addresses 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 unit. Thermal overload switch tripped. Low voltage.	Check power cord and outlet. Allow motor to cool, then reset switch. Ensure proper voltage supply.
Compressor runs continuously or cycles too frequently.	Air leak in tank or fittings. Check valve malfunction. Excessive air usage.	Locate and repair leaks (use soapy water). Contact service for check valve replacement. Reduce air tool usage or use a larger compressor.
Oil leak from pump or connections.	Loose fittings or bolts. Damaged gasket or seal.	Tighten all accessible bolts and fittings. If leak persists, contact qualified service personnel for inspection and repair.
Reduced air pressure or flow.	Clogged air filter. Air leaks. Worn pump components.	Clean or replace air filter. Check for and repair air leaks. Contact service for pump inspection.

7. Technical Specifications

Specification	Value
Brand	DEWALT
Model Name	DEWALT 30 Gallon 2HP 175PSI Vertical Portable Single Stage Electric Air Compressor (DXCM303)
Model Number	DXCM303
Capacity	30 Gallons
Maximum Operating Pressure	175 PSI (Max)
Air Flow Capacity	6.2 SCFM at 90 PSI
Motor Horsepower	2 HP
Voltage	120 Volts
Power Source	Corded Electric
Noise Level	62 dB
Item Weight	153 Pounds
Product Dimensions (L x W x H)	26"L x 25"W x 49"H
Special Feature	Portable
UPC	846212083697

8. Warranty and Support

Your DEWALT 30 Gallon Vertical Air Compressor (Model DXCM303) comes with a**2 Year Limited Manufacturer Warranty**. Please retain your proof of purchase for warranty claims.
For technical assistance, parts, or warranty service, please visit the official DEWALT website or contact DEWALT customer support. You can also visit the DEWALT Store on Amazon for more information and resources.

© 2024 DEWALT. All rights reserved. Information in this manual is subject to change without notice.

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