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DEWALT DCC2520B

DEWALT DCC2520B 20V MAX 2-1/2 Gallon Brushless Cordless Air Compressor Instruction Manual

Model: DCC2520B

1. Safety Information

Always observe basic safety precautions when using this product to reduce the risk of fire, electric shock, and personal injury. Read all instructions before operating this air compressor.

1.1 General Safety Rules

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- **Personal Safety:** Always wear eye protection. Use a face mask if operation is dusty. Wear hearing protection during extended use. Stay alert, watch what you are doing, and use common sense when operating a power tool.

1.2 Air Compressor Specific Warnings

- **Pressure Hazards:** Do not exceed the maximum operating pressure of any air tool or accessory. Always relieve air pressure from the tank before servicing or moving the compressor.
- **Noise Hazards:** This compressor operates at 80 dBA. Prolonged exposure to high noise levels can cause hearing damage. Always wear appropriate hearing protection.
- **Moving Parts:** Keep hands, feet, hair, and clothing away from moving parts to prevent injury.
- **Battery Safety:** Use only DEWALT 20V MAX* or 20V/60V MAX* FLEXVOLT batteries. Ensure the battery is properly seated before operation.

2. Product Overview

The DEWALT DCC2520B is a 20V MAX* 2-1/2 Gallon Brushless Cordless Air Compressor designed for portability and convenience. It features a brushless motor and an oil-free pump for extended lifespan and reduced

maintenance.



Figure 1: Front view of the DEWALT DCC2520B Cordless Air Compressor, showing the control panel and tank.

2.1 Key Features

- **Cordless Operation:** Utilizes 20V MAX* batteries for portable use.
- **Brushless Motor:** Provides increased efficiency and longer tool life.
- **Oil-Free Pump:** Requires minimal maintenance.
- **2-1/2 Gallon Tank:** Sufficient capacity for various applications.
- **OneTurn Regulator:** For fast and accurate pressure adjustments.

- **Heavy-Duty Roll Cage:** Protects critical components during transport and use.
- **Quiet Operation:** Operates at 80 dBA.

3. Setup

3.1 Unpacking

Carefully remove the air compressor from its packaging. Inspect the unit for any damage that may have occurred during shipping. Retain the packaging material for future storage or transport.

3.2 Battery Installation

This air compressor is sold as a tool-only unit and requires a DEWALT 20V MAX* or 20V/60V MAX* FLEXVOLT battery (sold separately) for operation.

1. Ensure the compressor's power switch is in the OFF position.
2. Align the battery pack with the battery port on the compressor.
3. Slide the battery pack into the port until it clicks securely into place.
4. To remove the battery, press the release button and pull the battery pack out.

3.3 Connecting Air Hose and Accessories

Connect your air hose to the universal quick coupler on the compressor. Ensure all connections are secure to prevent air leaks.

4. Operation

Follow these steps for safe and effective operation of your DEWALT DCC2520B air compressor.



Figure 2: Angled view of the compressor, highlighting the control panel with gauges and regulator.

4.1 Powering On/Off

1. Ensure a charged battery is installed.
2. Turn the power switch to the ON position. The compressor will begin to build pressure.
3. The compressor will automatically shut off once the maximum pressure is reached. It will restart automatically when the tank pressure drops below a preset level.
4. To turn off the compressor, switch the power switch to the OFF position.

4.2 Adjusting Pressure with OneTurn Regulator

The OneTurn Regulator simplifies pressure adjustment.

1. Locate the OneTurn Regulator knob on the control panel.
2. Rotate the knob clockwise to increase regulated air pressure and counter-clockwise to decrease it.
3. Monitor the regulated pressure gauge to set the desired output pressure for your pneumatic tool.

4.3 Using with Pneumatic Tools

Connect your pneumatic tool to the air hose. Ensure the tool's operating pressure requirements are met by adjusting the compressor's regulated pressure.

5. Maintenance

Regular maintenance ensures optimal performance and extends the life of your air compressor.

5.1 Draining the Air Tank

Condensation will accumulate in the air tank. This water can cause rust and reduce tank life. Drain the tank daily or after each use.

1. Turn off the compressor and remove the battery.
2. Open the drain valve located at the bottom of the tank.
3. Allow all moisture to drain completely.
4. Close the drain valve securely.

5.2 Cleaning

Keep the compressor clean. Wipe down the exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure air vents are clear of debris.

5.3 Storage

Store the compressor in a clean, dry location. Ensure the tank is drained and the battery is removed before storage.

6. Troubleshooting

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

Problem	Possible Cause	Solution
Compressor does not start	Battery not charged or improperly installed	Charge battery; ensure battery is fully seated.
Low air pressure output	Regulator set too low; air leaks	Adjust OneTurn Regulator; check hose and connections for leaks.
Excessive noise or vibration	Loose components; unit on uneven surface	Check for loose parts; place compressor on a stable, level surface.
Compressor runs continuously	Air leak in system; pressure switch malfunction	Check for air leaks; if problem persists, contact customer support.

7. Specifications

Feature	Specification
Model Name	DCC2520B
Brand	DEWALT
Voltage	20 Volts
Power Source	Battery Powered
Noise Level	80 dB
Special Feature	Cordless, Portable
Included Components	Cordless Air Compressor (Tool Only)
Capacity	2.5 Gallons
Air Flow Capacity	1.0 SCFM at 90 psi
Maximum Operating Pressure	140 PSI
Item Weight	25 pounds
Batteries Required?	Yes (Sold Separately)

8. Warranty and Support

8.1 Warranty Information

DEWALT products are engineered to the highest standards and are backed by a comprehensive warranty. Please refer to the warranty card included with your purchase or visit the official DEWALT website for detailed warranty terms and conditions.

8.2 Customer Support

For technical assistance, service, or replacement parts, please contact DEWALT customer support. Contact information can typically be found on the DEWALT website or in your product packaging.

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