California Air Tools 20020

California Air Tools 20020 2.0 HP Ultra Quiet and Oil-Free Air Compressor Instruction Manual

Model: 20020

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your California Air Tools 20020 Ultra Quiet and Oil-Free Air Compressor. Please read this manual thoroughly before operating the unit and retain it for future reference. The California Air Tools 20020 is a 2.0 HP, 20-gallon portable air compressor designed for various applications requiring quiet and reliable compressed air.





Figure 1: California Air Tools 20020 Ultra Quiet Air Compressor.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury or property damage.

- **Electrical Safety:** Ensure the compressor is connected to a properly grounded 110V / 60Hz outlet. Do not use extension cords unless absolutely necessary, and ensure they are rated for the compressor's amperage (14 Amps).
- **Pressure Safety:** Never exceed the maximum operating pressure of 125 PSI. Do not tamper with the pressure relief valve. Always wear appropriate eye protection when operating the compressor or using air tools.
- **Operating Environment:** Operate the compressor in a well-ventilated area. Keep children and bystanders away from the operating unit. Do not operate in damp or wet conditions.

- **Personal Protection:** Wear hearing protection during extended operation due to noise levels, even though this unit is ultra-quiet (70 dB). Wear safety glasses to protect against airborne debris.
- **Maintenance:** Disconnect power before performing any maintenance or adjustments. Release all air pressure from the tank before servicing.

3. Product Overview and Components

The California Air Tools 20020 features an oil-free dual piston pump system, a 20-gallon steel tank, and a 2.0 HP motor. Key components are designed for durability and ease of use.



Figure 2: Key components of the California Air Tools 20020 Air Compressor, including the 2.0 HP motor, oil-free dual piston pump, quick connectors, easy start valve, 20-gallon steel tank, thermal overload protector, and wheel kit.

Main Components:

- **2.0 HP Motor:** Operates at 1680 RPM for reduced noise and wear.
- **Oil-Free Dual Piston Pump:** Provides high performance and durability with over 3000 hours of life.
- **20 Gallon Steel Tank:** Stores compressed air for various applications.

- **Dual Pressure Gauges:** Monitor tank pressure and regulated output pressure.
- **Two Industrial 'Push to Connect' Quick Connectors:** For easy attachment of air tools.
- **Pressure Regulator:** Adjusts output air pressure.
- **Thermal Overload Protector:** Automatically shuts off the motor if it overheats.
- **Wheel Kit:** Facilitates portability.
- **Manual Drain Valve:** Located at the bottom of the tank for moisture removal.

4. Setup

4.1 Unpacking and Inspection

1. Carefully remove the compressor from its packaging.
2. Inspect the unit for any shipping damage. If damage is found, do not operate the compressor and contact customer support immediately.
3. Ensure all components listed in the packing list are present.

4.2 Attaching Wheels

The compressor comes with a wheel kit for easy mobility. Attach the wheels according to the diagrams provided in the separate assembly sheet (if applicable) or by securing them to the axle mounts at the base of the tank using the provided hardware.

4.3 Electrical Connection

- Ensure the power switch is in the 'OFF' position.
- Connect the compressor to a dedicated 110V / 60Hz, 15 Amp (minimum) grounded electrical outlet. The compressor draws 14 Amps.
- Avoid using undersized extension cords, as this can lead to voltage drop and motor damage. If an extension cord is necessary, use a heavy-duty, grounded cord suitable for outdoor use and rated for the compressor's amperage.

5. Operating Instructions

5.1 Initial Start-Up

1. Close the tank drain valve by turning it clockwise.
2. Turn the power switch to the 'ON' position. The motor will start, and the tank will begin to fill with air.
3. Allow the compressor to run until it reaches its maximum pressure (125 PSI) and the motor automatically shuts off. This indicates the pressure switch is functioning correctly.
4. Check for any air leaks by applying soapy water to connections. Tighten any leaking connections.

5.2 Adjusting Output Pressure

1. Attach your air tool to one of the 'Push to Connect' quick connectors.
2. Turn the pressure regulator knob (usually located between the two gauges) clockwise to increase pressure or counter-clockwise to decrease pressure.
3. Monitor the regulated pressure gauge to set the desired pressure for your air tool.

5.3 Connecting Air Tools

The compressor is equipped with two industrial 'Push to Connect' quick connectors. To connect an air tool, simply push the male fitting of the air hose into the female quick connector until it clicks into place. To disconnect, pull back the collar on the quick connector and remove the hose.

5.4 Shutting Down

1. Turn the power switch to the 'OFF' position.
2. Disconnect the power cord from the outlet.
3. Open the tank drain valve to release all air pressure from the tank. This is crucial for safety and to prevent moisture buildup.

6. Maintenance

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

6.1 Daily Maintenance

- **Drain Tank:** After each use, or at least daily, open the manual drain valve at the bottom of the tank to release accumulated moisture. This prevents rust and corrosion inside the tank.
- **Inspect for Leaks:** Check all air connections and hoses for leaks. Tighten or replace components as needed.

6.2 Periodic Maintenance

- **Clean Air Filter:** Periodically inspect and clean the air filter. A clogged filter can reduce compressor efficiency. Refer to the specific instructions for filter cleaning or replacement.
- **General Cleaning:** Keep the compressor clean and free of dust and debris. Wipe down the exterior with a damp cloth.
- **Oil-Free Pump:** This compressor features an oil-free pump, eliminating the need for oil changes or lubrication. This contributes to lower maintenance requirements and cleaner air output.

7. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Compressor does not start	No power, thermal overload tripped, faulty switch	Check power connection, reset thermal overload, contact support if switch is faulty.
Low air pressure / Slow tank fill	Air leaks, clogged air filter, worn pump components	Check for leaks, clean/replace air filter, contact support for pump issues.
Excessive noise or vibration	Loose components, unit not on level surface	Tighten all fasteners, ensure unit is on a stable, level surface.
Moisture in air line	Tank not drained regularly	Drain tank daily after use.

8. Specifications

Detailed technical specifications for the California Air Tools 20020 Air Compressor.



Figure 3: Visual representation of California Air Tools 20020 specifications and dimensions.

Feature	Specification
Brand	California Air Tools
Model Name	20020
Voltage	110 Volts
Power Source	Corded Electric
Motor Horsepower	2.0 HP
Tank Capacity	20 Gallons
Maximum Operating Pressure	125 PSI
Noise Level	70 dB

Feature	Specification
Air Flow Capacity	5.3 CFM @ 90 PSI
Product Dimensions (L x W x H)	20" x 20" x 45"
Item Weight	134.7 pounds
Special Feature	Oil-Free
Included Components	Manual Drain
Compatible Hose Diameter	0.5 Inches
Amp Draw	14 Amps

9. Warranty and Support

9.1 Warranty Information

The California Air Tools 20020 Air Compressor comes with a**1 Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the documentation included with your product or visit the California Air Tools website.

9.2 Customer Support

If you have any questions, require technical assistance, or need to report a problem with your compressor, please contact California Air Tools customer support. Contact information can typically be found on the manufacturer's website or on the product packaging.

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