Smittybilt 2781

SmittyBilt AIR COMPRESSOR 5.65CFM - SB2781

User Manual



Image: SmittyBilt 5.65 CFM Universal Air Compressor, showcasing its compact and robust design.

1. Introduction

Thank you for choosing the SmittyBilt 2781 5.65 CFM Universal Air Compressor. This powerful and portable unit is designed for efficient inflation and deflation of tires, making it ideal for various terrains and applications. Its robust construction and user-friendly features ensure reliable performance.

Key Features:

- Auto-thermal cutoff switch: Protects the motor against damage from overheating.
- High Airflow: Delivers up to 72 liters per minute (5.65 CFM) for quick inflation.
- Integrated Pressure Gauge: Easy-to-read 150 PSI gauge for accurate pressure monitoring.
- Durable Construction: Features a 1/3 horsepower oil-less direct drive motor.
- Portable Design: Includes a quick-release 24-foot coil hose and a storage bag for convenience.

2. Safety Information

Read all safety warnings and instructions carefully before operating this product. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Always operate the compressor in a well-ventilated area.
- Do not touch hot surfaces. The compressor and hose can become very hot during operation.
- Ensure the vehicle engine is running when using the compressor to prevent draining the vehicle battery.
- Do not exceed the maximum pressure rating of the item being inflated.
- Keep children and bystanders away from the operating area.
- Disconnect power when not in use or before performing maintenance.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. Package Contents

Verify that all items are present in the package:

- SmittyBilt 5.65 CFM Universal Air Compressor
- Pressure Hoses (24-foot coil hose)
- Carry Bag

4. Setup

Follow these steps for initial setup:

1. Place the compressor on a stable, flat surface near the item to be inflated.
2. Connect the power clamps to your vehicle's battery terminals. Ensure the positive (+) clamp is connected to the positive terminal and the negative (-) clamp to the negative terminal.
3. Attach the quick-release air hose to the compressor's air outlet.
4. Start your vehicle's engine to ensure adequate power supply to the compressor.



Image: SmittyBilt Air Compressor with its yellow coiled air hose, ready for connection.

5. Operating Instructions

To inflate a tire or other inflatable item:

1. Screw the air chuck securely onto the valve stem of the tire.
2. Turn on the compressor using the power switch. The integrated 150 PSI gauge will display the current pressure.
3. Monitor the pressure gauge closely. Once the desired pressure is reached, turn off the compressor.
4. Unscrew the air chuck from the valve stem.

Important Notes:

- The maximum continuous cycle time (duty cycle) is 40 minutes at 40 psi at 75 degrees Fahrenheit. Allow the compressor to cool down after prolonged use to prevent overheating. The auto-thermal cutoff switch will activate if the motor gets too hot.
- The compressor and hose will become hot during operation. Handle with care.


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Image: A person connecting the air hose to a tire valve, demonstrating the inflation process.



Image: The SmittyBilt Air Compressor in operation on a sandy surface, highlighting its outdoor utility.

6. Maintenance

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

- **Cleaning:** Wipe down the compressor with a damp cloth after each use. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** After the compressor has cooled down completely, coil the hose neatly and place all components back into the provided carry bag. Store in a dry, cool place away from direct sunlight and extreme temperatures.



Image: SmittyBilt Air Compressor shown with its included carry bag, emphasizing portability and easy storage.

7. Troubleshooting

If you encounter issues with your compressor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Compressor does not turn on.	No power connection; Blown fuse; Thermal cutoff activated.	Check battery clamp connections; Check vehicle's fuse box; Allow compressor to cool down.
Slow inflation or low pressure.	Air leak in hose/connection; Low vehicle battery voltage.	Ensure all connections are tight; Ensure vehicle engine is running.
Compressor overheats and shuts off.	Exceeded duty cycle; Blocked ventilation.	Allow compressor to cool down; Ensure vents are clear.

8. Specifications

Attribute	Value
Brand	Smittybilt
Model Name	2781
Air Flow Capacity	5.65 Cubic Feet Per Minute (72 Liters/Minute)

Attribute	Value
Maximum Power	0.33 Horsepower
Voltage	100 Volts (DC operation via vehicle battery)
Noise Level	70 dB
Hose Length	24 Feet
Item Weight	20.9 pounds (9.5 Kilograms)
Product Dimensions	16"L x 12"W x 11"H
Material	Metal
Special Feature	Automatic Shut-Off

9. Warranty and Support

This product is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Smittybilt website.

For technical support, replacement parts, or any inquiries not covered in this manual, please contact Smittybilt customer service. Contact information can typically be found on the manufacturer's website or on the product packaging.

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