Makita DMP181ZX

Makita DMP181ZX 18V LXT Lithium-Ion Cordless High-Pressure Inflator Instruction Manual

Model: DMP181ZX | Brand: Makita

1. Introduction

The Makita DMP181ZX 18V LXT Cordless High-Pressure Inflator is designed for quick and efficient inflation of various items such as car tires, bike tires, and sports balls. This tool is powered by Makita's 18V LXT Lithium-Ion batteries (sold separately) and features a powerful motor capable of delivering up to 160 PSI. Key functionalities include an auto-stop feature to prevent overfill, three speed settings (high, medium, low), an air-release button, a high-visibility pressure gauge display with backlight, and an integrated L.E.D. light for illuminating the work area. Its compact design and 25-1/2 inch hose length enhance portability and reach.



Figure 1.1: The Makita DMP181ZX 18V LXT Cordless High-Pressure Inflator, showing its compact design and integrated hose.

2. Safety Information

Always read and understand all safety warnings and instructions before operating the inflator. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

2.1 General Safety Precautions

- Keep 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 Battery Safety

This tool is designed to be used with genuine Makita 18V LXT Lithium-Ion batteries. Using non-genuine or "knock-off" batteries can be hazardous.



Figure 2.1: Important safety notice regarding the use of genuine Makita Lithium-Ion batteries to prevent hazards.

WARNING: This product can 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.

3. Product Overview

3.1 Components

- High-visibility pressure gauge display with backlight
- Air-release button
- L.E.D. light
- 25-1/2 inch hose with screw-on connector
- Battery interface (battery sold separately)
- Included adapters: Presta valve adapter, Sports ball needle, Tapered adapter



Figure 3.1: Detailed view of the high-visibility digital pressure gauge display with backlight, showing PSI, BAR, and KPA units.



Figure 3.2: The integrated L.E.D. light, useful for illuminating the work area in low-light conditions.

4. Setup

4.1 Battery Installation

The Makita DMP181ZX is a "tool only" product and requires an 18V LXT Lithium-Ion battery (sold separately) for operation.

1. Ensure the inflator is turned off.
2. Align the battery with the battery housing on the tool.
3. Slide the battery into the housing until it clicks securely into place.
4. To remove, press the release button on the battery and slide it out.

4.2 Attaching Accessories

The inflator comes with various adapters for different inflation needs.

- **Presta Valve Adapter:** For bicycle tires with Presta valves.
- **Sports Ball Needle:** For inflating sports balls (e.g., basketballs, soccer balls).
- **Tapered Adapter:** For inflatable toys, air mattresses, etc.

To attach an adapter, simply screw it onto the end of the inflator's hose connector.



Figure 4.1: The Makita inflator shown with its various included adapters: Presta valve adapter, sports ball needle, and tapered adapter.

5. Operating Instructions

5.1 Inflation Process

1. **Connect the Hose:** Screw the inflator hose connector securely onto the valve stem of the item to be inflated. Use the appropriate adapter if necessary.
2. **Power On:** Press the power button to turn on the inflator. The digital display will illuminate.
3. **Set Desired Pressure:** Use the '+' and '-' buttons on the display to set the target air pressure (PSI, BAR, or KPA). The display shows the current pressure and the target pressure.
4. **Select Speed Setting:** The inflator features three speed settings (High, Medium, Low). Select the appropriate speed for your application.
5. **Start Inflation:** Press the trigger to begin inflation. The inflator will automatically stop once the preset pressure is reached.
6. **Monitor Pressure:** The digital display provides real-time pressure readings during inflation.
7. **Air Release:** If overfilled, use the air-release button to reduce pressure to the desired level.
8. **Power Off:** Press the power button again to turn off the inflator when finished.



Figure 5.1: A user adjusting the pressure setting on the inflator's digital display, which shows both current and target pressure.



Figure 5.2: The Makita inflator in use, demonstrating its capability to inflate vehicle tires efficiently.

6. Maintenance

6.1 Cleaning

Regularly clean the exterior of the inflator with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the air vents are clear of debris to prevent overheating.

6.2 Storage

Store the inflator in a dry, cool place, away from direct sunlight and moisture. Remove the battery when storing for extended periods.

7. Troubleshooting

Problem	Possible Cause	Solution
Inflator does not turn on.	Battery not inserted correctly or discharged.	Ensure battery is fully seated. Charge battery if necessary.
Inflator runs but no air comes out.	Hose or nozzle blocked; hose not securely attached.	Check for obstructions in hose/nozzle. Ensure hose is tightly screwed onto valve.
Auto-stop function not working.	Incorrect pressure setting; internal malfunction.	Verify preset pressure. If issue persists, contact Makita service.
Inaccurate pressure readings.	Sensor calibration issue; extreme temperature.	Allow tool to acclimate to moderate temperature. Compare with a known accurate gauge.

8. Specifications

Feature	Detail
Brand	Makita
Model Name	Makita DMP181ZX 18V LXT® Lithium-Ion Cordless High-Pressure Inflator, Tool Only
Voltage	18 Volts
Power Source	Battery Powered (Battery not included)
Maximum Operating Pressure	160 PSI
Hose Length	25.5 Inches
Item Weight	5.24 pounds (2.38 Kilograms)
Product Dimensions	12"L x 12"W x 12"H (Approximate)
Included Components	Presta valve adapter, Sports ball needle, Tapered adapter
Special Feature	High visibility pressure gauge display with backlight, L.E.D. light
Recommended Uses	Tire Inflation

8.1 LXT Advantage

The Makita 18V LXT system offers several advantages for cordless tools:

- Up to 3x Faster Charging with LXT® Rapid Optimum Charger.
- Up to 50% More Run Time with LXT® Lithium-Ion Batteries.
- Up to 50% Longer Motor Life with Purpose-Built Brushless Motors.
- Efficient Power Management with Star Protection Computer Controls™ to protect against overloading, over-discharging, and overheating.



Figure 8.1: Overview of the Makita LXT Advantage, highlighting benefits like faster charging, extended run time, and efficient power management.

9. Warranty and Support

9.1 Warranty Information

The Makita DMP181ZX 18V LXT Cordless High-Pressure Inflator comes with a**3-year limited warranty**. Please refer to the official Makita warranty documentation for full terms and conditions.

9.2 Customer Support

For technical assistance, service, or warranty claims, please contact Makita customer support. You can also visit the official Makita website for more information and to locate authorized service centers.
A digital version of the user guide (PDF) is available for download:Makita DMP181ZX User Guide (PDF).

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