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Morpilot MS22C-003

Morpilot Tire Inflator Portable Air Compressor User Manual

Model: MS22C-003

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Morpilot Tire Inflator Portable Air Compressor. Please read this manual thoroughly before using the device and retain it for future reference.

The Morpilot Tire Inflator is designed for convenient and efficient inflation of various items, including car tires, bicycle tires, motorcycle tires, and sports balls. It features a dual power supply (built-in 9000mAh battery and 12V DC cord), an LCD dual display, and multiple smart inflation modes.

2. SAFETY INSTRUCTIONS

- Always ensure the device is fully charged or connected to a stable power source before use.
- Do not operate the inflator in wet conditions or expose it to rain.
- Keep children and pets away from the device during operation.
- Avoid over-inflating. Always refer to the recommended pressure for your specific item (e.g., vehicle tire placard, ball specifications).
- Do not leave the device unattended while inflating.
- Allow the device to cool down after prolonged use to prevent overheating. The durable aluminum alloy shell and side cooling holes are designed for heat dissipation, but continuous operation beyond recommended limits may cause issues.
- Store the device and its accessories in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Morpilot Tire Inflator Portable Air Compressor
- Air Inflation Tube (Hose)
- 10-feet 12V DC Power Cord
- USB-C Charging Cable
- Air Nozzles (2)
- Air Needle (for balls)
- Presta Valve Adapter

- Storage Case
- User Manual (this document)
- Safety Hammer (integrated feature)



Figure 3.1: Diagram showing the Morpilot Tire Inflator and its included accessories.

This image illustrates the main unit, the inflation hose, the 12V DC power cord, USB-C charging cable, various air nozzles, and the storage case, providing a visual guide to the complete package contents.

4. PRODUCT OVERVIEW

The Morpilot Tire Inflator is a compact and robust device designed for portability and ease of use. It features a high-definition LCD dual display for real-time and preset pressure values, intuitive controls, and integrated safety features.



Figure 4.1: Front view of the Morpilot Tire Inflator with its charging cables and various nozzles.

This image displays the main unit of the Morpilot tire inflator, showcasing its digital display, control buttons, and the attached inflation hose. Also visible are the USB-C charging cable, 12V DC car power cord, and different inflation nozzles, highlighting the device's comprehensive accessories.

Low Heat, Safe to Inflate Continuously



double rows of side cooling holes help to dissipate heat faster



built-in fan, and V0 class flame retardant material



high-quality aluminum alloy material

Figure 4.2: Close-up view highlighting the low heat operation and durable construction.

This image emphasizes the cooling features of the Morpilot tire inflator, including double rows of side cooling holes and a built-in fan for efficient heat dissipation. It also showcases the high-quality aluminum alloy material and V0 class flame retardant material, indicating robust and safe construction.

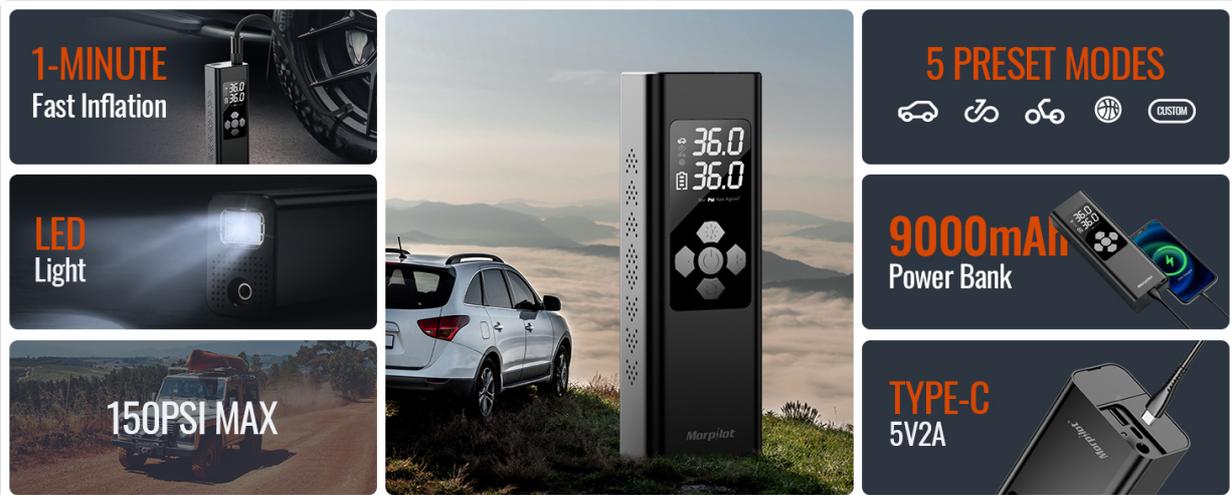


Figure 4.3: The inflator is equipped with a safety hammer.

This image highlights a key safety feature of the Morpilot tire inflator: its integrated safety hammer. This multi-functional design provides an emergency tool in addition to its primary inflation capabilities.



Figure 4.4: The 8-in-1 functionality of the air compressor.

This diagram visually represents the 8-in-1 functionality of the Morpilot air compressor, illustrating how it combines a tire pump, power bank, bike pump, flashlight, SOS light, ball pump, safety hammer, and storage case into one versatile device.

5. SETUP

5.1 Charging the Device

The Morpilot Tire Inflator can be powered by its built-in 9000mAh battery or directly from your vehicle's 12V DC cigarette lighter socket. It also functions as a power bank to charge other devices.

1. **Using USB-C Charging Cable:** Connect the provided USB-C cable to the inflator's USB-C port and a compatible USB power adapter (not included).
2. **Using 12V DC Car Power Cord:** Connect the 12V DC power cord to the inflator's DC input port and plug the other end into your vehicle's cigarette lighter socket. This method allows for continuous inflation even if the internal battery is low.

Dual Power Supply Way

Cordless

9000mAh
Battery



Corded

12V DC
Cigarette Lighter



Figure 5.1: Illustration of the dual power supply options: cordless (battery) and corded (12V DC).

This image demonstrates the versatility of the Morpilot tire inflator's power supply, showing both its cordless operation using the internal 9000mAh battery and its ability to be powered by a 12V DC cigarette lighter cord for continuous use.



Figure 5.2: The dual power supply in action, showing both battery and 12V DC cord.

This image visually confirms the dual power supply capability of the Morpilot air compressor, depicting both the 12V DC power cord connected to a vehicle and the high-capacity 9000mAh battery, emphasizing its flexibility for inflation anytime and anywhere.

5.2 Storing Accessories

The inflator features a clever storage design at the bottom of the pump body, allowing you to keep all accessories organized and prevent loss.



Figure 5.3: The secret storage design at the bottom of the pump.

This image highlights the convenient storage design of the Morpilot tire inflator, showing how various accessories like nozzles and needles can be neatly stored within a compartment at the bottom of the main unit, ensuring they are always accessible and not easily lost.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

To power on the device, press and hold the power button. The LCD screen will light up, displaying the current battery level and default pressure unit (PSI).

6.2 Understanding the LCD Display and Modes

The high-definition large LCD dual display shows both the real-time pressure and the preset target pressure. You can switch between 4 pressure unit options: PSI, KPA, BAR, and KG/CM².

The device offers 4 preset modes and a custom mode:

- **Car Mode:** Default Value: 36psi (Adjustable range: 26-50psi)
- **Bicycle Mode:** Default Value: 45psi (Adjustable range: 30-65psi)
- **Motorcycle Mode:** Default Value: 32psi (Adjustable range: 26-45psi)

- **Ball Mode:** Default Value: 9psi (Adjustable range: 4-16psi)
- **Custom Mode:** Allows you to set the pressure value from 3-150psi according to your specific inflation object.

Press the mode selection button (usually indicated by a vehicle/bike/ball icon) to cycle through the preset modes. Use the '+' and '-' buttons to adjust the target pressure in the selected mode or custom mode.



Figure 6.1: The LCD dual display and various smart inflation modes.

This image illustrates the Morpilot tire inflator's LCD dual display, showing both real-time and preset pressure values. It also highlights the four preset modes (car, bicycle, motorcycle, ball) and the custom mode, along with the four available pressure unit options (PSI, KPA, BAR, KG/CM²), demonstrating its user-friendly interface.



Figure 6.2: Detailed view of preset modes and their adjustable ranges.

This image provides a clear breakdown of the Morpilot tire inflator's preset modes, including Car, Bicycle, Motorcycle, and Ball modes, each with its default pressure value and adjustable range. It also shows the Custom Mode, which allows for a wider pressure range (3-150psi), catering to diverse inflation needs.

6.3 Connecting and Inflating

The inflation hose features a rotating connector for easy attachment to various valve types.

1. Remove the valve cap from the item to be inflated.
2. Screw the inflation hose onto the valve stem. Ensure a secure connection to prevent air leakage.
3. Power on the inflator and select the appropriate mode or set your desired custom pressure.
4. Press the start button to begin inflation. The device will automatically shut off once the preset pressure is reached.
5. For exercise balls or inflatable toys, the auto-off function may not activate. Monitor the inflation manually and turn off the device when full.

2X Faster Inflation

Auto Off when desired pressure is reached



25 → 36PSI



0 → 36PSI



Figure 6.3: The tire inflator in action, demonstrating 2X faster inflation.

This image demonstrates the versatility of the Morpilot tire inflator's power supply, showing both its cordless operation using the internal 9000mAh battery and its ability to be powered by a 12V DC cigarette lighter cord for continuous use.



Figure 6.4: Easy and safe usage steps for the tire inflator.

This visual guide provides a step-by-step demonstration of how to easily and safely use the Morpilot tire inflator. It shows the process from connecting the device to the tire valve, powering it on, selecting a preset mode, and finally pressing the power button to start inflation, emphasizing the user-friendly operation.

6.4 LED Flashlight & Power Bank Functionality

The device includes an integrated LED flashlight and can serve as a power bank for your electronic devices.

- **LED Flashlight:** Press the dedicated light button to activate the LED flashlight for illumination in low-light conditions.
- **SOS Red Flashlight:** Press the light button again to switch to the SOS red flashing light for emergency signaling.
- **Power Bank:** Use the USB-A output port to charge your smartphone or other USB-powered devices.



Figure 6.5: The inflator's LED flashlight and 9000mAh power bank capabilities.

This image highlights the additional functionalities of the Morpilot tire inflator, showcasing its LED flashlight for car breakdowns or night use, and its capability to act as a 9000mAh power bank for charging mobile devices. It also illustrates the SOS red flashlight feature for emergencies.

7. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the inflator and its accessories in the provided carrying case to protect them from dust and damage. Ensure the device is fully charged before long-term storage to maintain battery health.
- **Hose Care:** Inspect the inflation hose regularly for any signs of wear or damage. Replace if necessary to ensure optimal performance and prevent air leaks.

Storage Design

Secret Design at the bottom of the pump



Figure 7.1: The inflator and accessories stored neatly in the carrying case.

This image shows the Morpilot tire inflator and its accessories neatly organized within its dedicated carrying case. This illustrates the practical storage design, making it easy to transport and keep all components together.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery or no power.	Charge the device using the USB-C cable or connect to a 12V DC power source.
Inflation is slow or not working.	Hose not securely connected; incorrect mode selected; item already at target pressure.	Ensure the hose is tightly screwed onto the valve. Verify the selected mode and target pressure. Check the current pressure of the item.
Device overheats during use.	Prolonged continuous operation.	Allow the device to cool down for several minutes before resuming operation. For all portable air compressors, it is advised to run for 5 minutes at a time and then let cool.
Inaccurate pressure reading.	Loose connection; sensor issue.	Ensure the hose is securely connected. If the issue persists, contact customer support.

9. SPECIFICATIONS

Feature	Detail
Brand	Morpilot
Model Name	MS22C-003
Power Source	Battery Power (9000mAh) or Corded Electric (12V DC)
Maximum Operating Pressure	150 PSI
Air Flow Capacity	38 LPM
Noise Level	80 dB
Item Weight	1.42 Pounds
Product Dimensions (LxWxH)	2.69"L x 1.79"W x 8.19"H
Material	Aluminum
Color	Coffee
Hose Length	30 Centimeters

10. WARRANTY AND SUPPORT

Your Morpilot Tire Inflator Portable Air Compressor comes with a **12 Months Warranty** from the date of purchase.

For any product inquiries, technical support, or warranty claims, please contact Morpilot customer service. Refer to the contact information provided on the product packaging or the official Morpilot website.

We are committed to providing high-quality products and excellent customer support. If you encounter any issues, please do not hesitate to reach out.