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› [AUTDER AD-380 180 PSI Portable Tire Inflator User Manual](#)

**AUTDER AD-380**

# **AUTDER AD-380 180 PSI Portable Tire Inflator User Manual**

Model: AD-380

## **1. PRODUCT OVERVIEW**

The AUTDER AD-380 is a versatile and portable tire inflator designed for various inflation needs, including vehicle tires (cars, SUVs, motorcycles, bicycles), inflatable toys, and sports balls. It features a powerful 21V/2000mAh rechargeable battery, automatic shut-off, and an integrated LED light for emergency situations.



Image 1.1: The AUTDER AD-380 Portable Tire Inflator and its included accessories, such as various nozzles and a carrying case.

## Key Features:

- **High Performance:** Inflates a standard car tire (195/55/R16) in approximately 2.5 minutes with an air flow of 50 L/min.
- **Dual Power Source:** Operates on its internal 21V/2000mAh rechargeable battery or via a 12V car power connection.
- **Automatic Shut-off:** Automatically stops inflation once the preset pressure is reached.
- **Digital Manometer:** Provides precise pressure readings and allows for accurate pressure setting (0.2 to 12.4 bar / 3 to 180 PSI).
- **Emergency LED Light:** Features three modes: illumination, double flash, and SOS for visibility in low-light conditions.
- **Durable Construction:** Designed with dust, humidity, and fire protection, a stainless metal valve, and a heat-resistant hose (-20 °C to 60 °C).
- **Portable Design:** Lightweight (1.2 kg) with an ergonomic, anti-slip grip and includes a waterproof carrying case.

## 2. SAFETY INSTRUCTIONS

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Please read and understand all safety instructions before operating the AUTDER AD-380 tire inflator. Failure to follow these instructions may result in injury or damage to the product.

- **Intended Use:** This device is designed for inflating tires of cars, SUVs, motorcycles, bicycles, and various inflatable items. Do not use it for industrial machinery or truck tires.
- **Charging:** Only use the charger provided with the product to recharge the battery. The 12V DC car cable is for operation only and cannot charge the battery.
- **Storage:** Do not store the device in humid environments to protect the battery.
- **Noise Level:** The operating noise level is below 80 dB, complying with EU standards. Prolonged exposure to high noise levels may require hearing protection.
- **Over-inflation:** Always set the correct pressure and monitor the inflation process to prevent over-inflation, which can cause tires or objects to burst.
- **Children:** Keep the device out of reach of children.
- **Temperature:** Avoid operating or storing the device in extreme temperatures outside the specified range (-20 °C to 60 °C).
- **Ventilation:** Ensure adequate ventilation during operation to prevent overheating. The device has an integrated fan for heat dissipation.

## 3. SETUP

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### 3.1 Charging the Battery

Before first use, fully charge the 21V/2000mAh lithium battery using the included AC adapter.

1. Connect the AC adapter to the charging port on the battery base.
2. Plug the AC adapter into a standard wall outlet.
3. The battery indicator lights will show the charging status. A full charge typically takes 2 hours.
4. Once fully charged, disconnect the adapter.

# Get Ready for Road Trips

Easily Inflate Your Tires, Anytime, Anywhere



LED For Emergency



3 Modes:  
Bright, Flash, and SOS

Image 3.1: The 21V battery base being charged via a USB cable, and the inflator's LED light illuminating a tire at night.

## 3.2 Attaching the Air Hose and Nozzles

The inflator comes with a flexible air hose and various adapters for different applications.

1. Screw the air hose securely onto the inflator's air outlet.
2. Select the appropriate nozzle or adapter for the item you wish to inflate. The included accessories are:
  - 1x Tire Quick Connector (Pre-attached to hose)
  - 1x Tapered nozzle (for inflatable toys, air mattresses)
  - 1x Presta Valve Adapter (for certain bicycle tires)

- 1x Inflator needle (for sports balls)
- 4x Car tire caps

3. Attach the selected nozzle to the end of the air hose.



Image 3.2: The AUTDER AD-380 inflator displayed with its range of included accessories, including a tire quick connector, tapered nozzle, Presta valve adapter, and inflator needle.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On and Setting Pressure

1. Press the power button to turn on the inflator. The digital display will illuminate.
2. Use the 'M' button to cycle through the preset modes: Car, Motorcycle, Bicycle, Ball, and Manual. Each mode has a default pressure setting.
3. To adjust the target pressure, use the '+' and '-' buttons. The display shows real-time pressure and the preset target pressure.
4. Connect the hose with the appropriate nozzle to the item you wish to inflate.



Image 4.1: An internal diagram of the AUTDER AD-380 highlighting its dual metal motors, heat dissipation design, circuit protection, auto shut-off feature, and the digital display showing real-time and preset pressure.

### 4.2 Starting and Stopping Inflation

1. Once the hose is connected and the desired pressure is set, press the inflation button (usually indicated by a play/start icon) to begin inflation.
2. The inflator will automatically stop when the target pressure is reached.
3. To manually stop inflation at any time, press the inflation button again.
4. Disconnect the hose from the item.

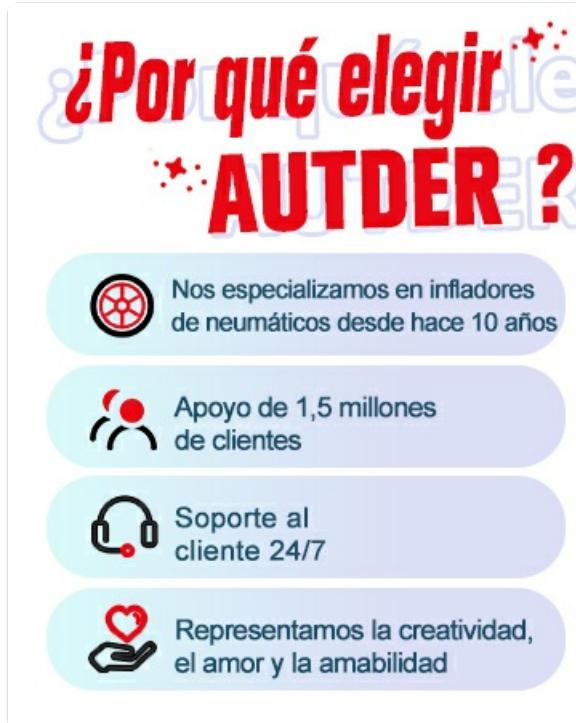


Image 4.2: A user inflating a car tire using the AUTDER AD-380 portable tire inflator.

### 4.3 Using the 12V Car Adapter

For continuous operation or when the battery is low, the inflator can be powered directly from your car's 12V cigarette lighter socket.

1. Ensure the inflator is turned off.
2. Connect the 12V DC car adapter cable to the designated port on the inflator.
3. Plug the other end into your car's 12V cigarette lighter socket.
4. Proceed with inflation as described in Section 4.1 and 4.2. Note: The 12V cable does not charge the internal battery.

# Portable Tire Inflator

Corded or Cordless



## Battery-Powered

Detachable &  
Rechargeable  
battery for on the go.

## Car Adapter

We provide a 12V DC car adapter that can be used as an extra power source.



Image 4.3: The AUTDER AD-380 demonstrating its flexibility with both battery-powered operation and the option to connect to a car's 12V DC power outlet.

## 4.4 LED Light Function

The integrated LED light can be activated independently for various purposes.

1. Press the light button (usually indicated by a light bulb icon) to turn on the illumination mode.
2. Press again to cycle through double flash and SOS modes.
3. Press a third time to turn off the light.

## 5. MAINTENANCE

## 5.1 Cleaning

- Ensure the device is turned off and disconnected from any power source before cleaning.
- Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the air intake and exhaust vents clear of dust and debris.

## 5.2 Battery Care

- To prolong battery life, avoid completely draining the battery before recharging.
- If storing the device for an extended period, charge the battery to approximately 50-70% and recharge every 3-6 months.
- Store the device and battery in a cool, dry place, away from direct sunlight and extreme temperatures.

## 5.3 Hose and Nozzle Inspection

- Regularly inspect the air hose for cracks, kinks, or damage. Replace if necessary.
- Ensure all nozzles and adapters are clean and free from obstructions.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inflator does not turn on.	Battery is depleted or not properly installed.	Charge the battery. Ensure the battery is securely attached to the inflator.
Inflator runs but no air comes out.	Hose or nozzle is blocked. Hose is not securely attached.	Check for obstructions in the hose and nozzle. Ensure the hose is tightly screwed onto the inflator.
Inflation is slow or stops prematurely.	Low battery. Target pressure reached. Leak in connection.	Recharge the battery. Check the preset pressure. Ensure all connections are tight.
Inaccurate pressure reading.	Sensor issue or extreme temperature.	Ensure the device is operating within its specified temperature range. If the issue persists, contact customer support.
Device overheats.	Prolonged use. Blocked vents.	Allow the device to cool down. Ensure air vents are clear. The integrated fan helps prevent overheating.

## 7. SPECIFICATIONS

Feature	Specification
Model Number	AD-380
Manufacturer	AUTDER
Dimensions (L x W x H)	16.3 x 7.8 x 26.8 cm

Feature	Specification
Weight	1.36 kg
Battery	21V Lithium metal, 2000mAh
Power	180 Watts
Maximum Pressure	180 PSI (12.4 bar)
Air Flow Capacity	50 Liters per minute
Noise Level	79 dB
Hose Length	60 cm
Operating Temperature	-20 °C to 60 °C
Special Features	Cordless, Digital Manometer, Automatic Shut-off, Integrated Fan, LED Light
Included Components	4 inflator accessories (ball pin, 2 air nozzles, Presta valve adapter), 4 car tire caps, waterproof carrying case

## 8. WARRANTY AND SUPPORT

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### 8.1 Warranty Information

The AUTDER AD-380 Portable Tire Inflator comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Spare parts are available for up to **5 years** from the date of purchase.

### 8.2 Customer Support

AUTDER is committed to customer satisfaction. If you have any questions, concerns, or require assistance with your product, please contact our support team.

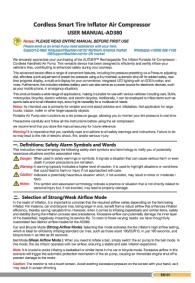
- **WhatsApp Support:** [+1\(858\)328-1126](tel:+18583281126)
- **Email Support:** [EURsupport@autder.net](mailto:EURsupport@autder.net)



Image 8.1: AUTDER customer service representatives ready to assist with product inquiries and support.

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## Related Documents - AD-380

 <a href="#">AUTDER Cordless Smart Tire Inflator Air Compressor AD380 User Manual</a>	<p>Comprehensive user manual for the AUTDER AD380 Cordless Smart Tire Inflator Air Compressor. Learn about features, safety precautions, inflation instructions, specifications, troubleshooting, and warranty.</p>
 <a href="#">AUTDER Wireless Portable Air Compressor FC-368 User Manual</a>	<p>This manual provides instructions and safety precautions for the AUTDER Wireless Portable Air Compressor, model FC-368. Learn how to charge the battery, connect and use the device, and understand its technical specifications.</p>
 <a href="#">AUTDER AD-808 12V/24V Digital Battery Tester &amp; Charging System Analyzer User Manual</a>	<p>Comprehensive user manual for the AUTDER AD-808, a 12V/24V digital battery tester and charging system analyzer. Learn how to test battery voltage, charging system, and interpret LED indicators.</p>



### [TECO 380 + SPH Professional Automatic Tire Changer | DEC](#)

Detailed overview of the DEC TECO 380 + SPH automatic tire changer. Features include robust construction, quick-change turret, double-acting bead breaker, and suitability for Run-Flat tires. Specifications and available versions for automotive workshops.