

User's Manual



Note: Please read this manual carefully before using the product and properly keep. This machine will produce noise above 75dB while working, please pay attention to protection. The pump and air tube will produce high temperature when working continuously for a long time, please use after cooling. Children are not allowed to use this product.

Accessories



French valve Adapter X 1



Gas Pin X 1



Multifunction Valve X 1



Charging Line X 1



Storage Bag X 1

Product Introduction

Component description



1

Schrader Valve



2

High-pressure Tube



3

Air tube connector



4

Cooling hole



5

Light



6

“” Power



7

“-” Key



8

“+” Key



9

Display screen



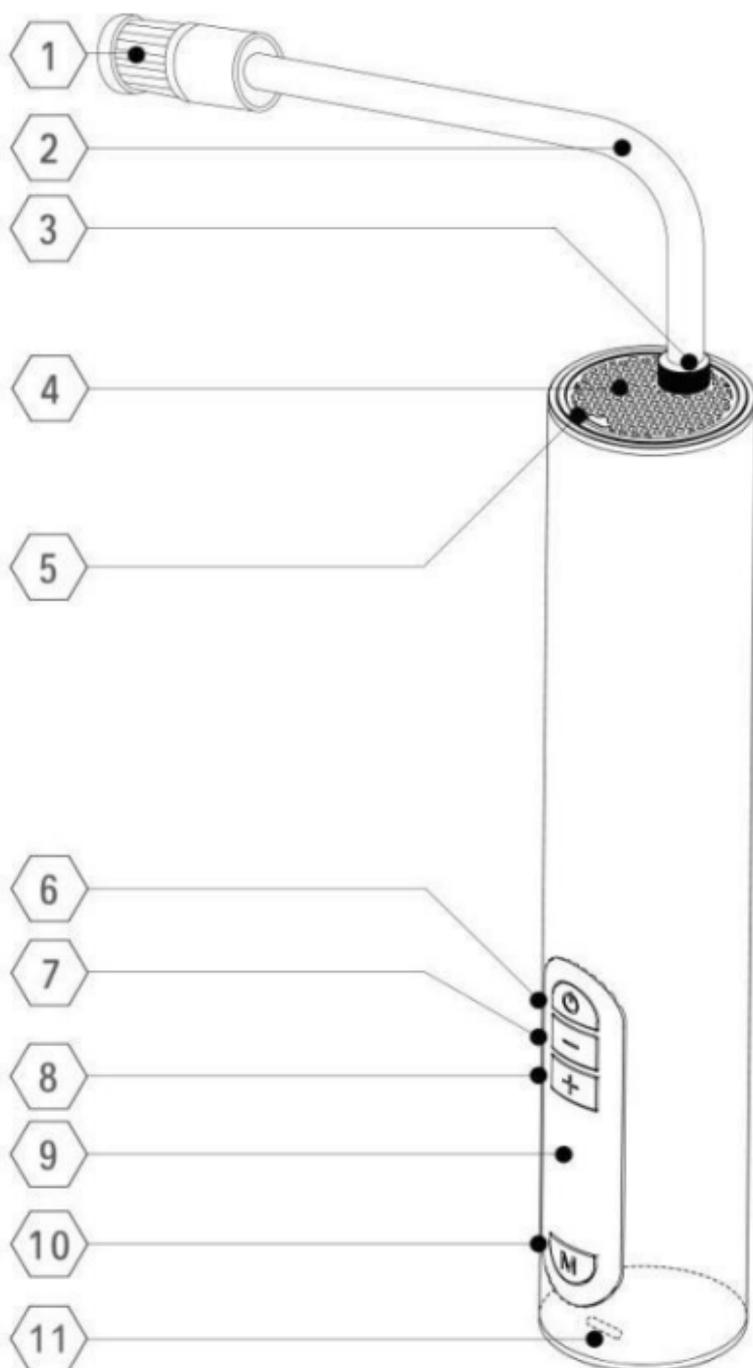
10

“M” Start/Stop Key



11

Charging Port



Note: The product, accessories and user interface in the manual are schematic diagrams for reference only. Due to the product upgrading, there may be some differences between the product and the schematic diagrams. Please subject to the real product.

Use Guide

1. Air tube installation

Install the high-pressure tube at  tighten the tube

2. Power on



Press and hold the on / off button to start, The air pump automatically shut down without any operation in 3 minutes in power on state.

3. Preset inflation pressure

Mode switch



Press "On/Off" button can be switched between the following five scenarios. Please select the correct air press unit before inflation.



No mode light on: The preset pressure can be adjusted freely. Press and hold "-" key can switch between psi/bar (the value and unit can be memorized)
Adjustable range:3-150psi



Bicycle mode light on: Default 45 psi
Adjustable range:30-65psi



Motorcycle mode light on: Default 2.4bar
Adjustable range:1.8-3.0bar



Automobile mode light on: Default 2.5bar
Adjustable range:1.8-3.5bar



Ball mode light on: Default 8 psi
Adjustable range:4-16psi

preset value adjustment



Select a profile, press “+” or “-” to adjust preset value.



When adjusting the preset pressure value, the digital flashing indicates the target pressure adjustment status, long digital light indicates real-time pressure.

4. Inflation

Start inflation



Press “M” start inflation. Digital displays real-time tire pressure during inflation. 75-80 dB noise will be generated during inflation, please pay attention to protect. The pump and air tube will generate high temperature when working continuously for a long time, please avoid prolonged touching with hands.

Stop inflation



The air pressure reaches the preset value, the pump will stop inflation automatically. Press any key to stop inflation during inflation.

5. Battery and charging



When the battery displays fully lit, it is fully charged. E flashing indicates battery low, It can be used after recharged. Don't use the product when charging

6. Screw off the valve

The temperature of tube is relatively high after inflation. Be careful burns when screwing off the valve. There will be slight air leakage when disassembly. Please remove it as quick as possible to reduce the air leakage.

7. Power off

Press and hold the “On/Off” button to shut down.

The air pump automatically shut down without any operation in 3 minutes in power on state.

8. Connection of various types of valve

French valve adapter

| Valve type | Connector |
|--|---|
|  |  |

French valve will be used for road cycling and specific mountain cycling

Inflation: Loosen the screw of French valve adapter to inflation.

Deflation: Loosen the screw of French valve and press the screw to deflate

Air Needle

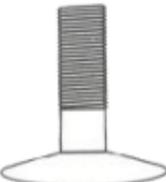
| Valve type | Connector |
|--|---|
|  |  |

Basketball, football and other balls need to use air needle to inflation.

Inflation: tighten the air needle and American valve and insert into the filling pore to inflation.

Deflation: Insert the air needle in to the filling pore to deflation

American valve

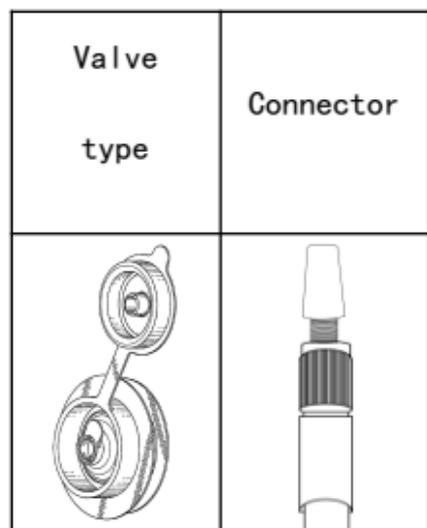
| Valve type | Connector |
|--|---|
|  |  |

Mountain cycling, electric bicycle, motorbike, automobile will be equipped American valve.

Inflation: American valve can be directly connected to inflate.

Deflation: Press the air needle inside the valve with a suitable tool to deflate.

Multifunctional valve



The multifunctional valve will be used for inflatable cushion, inflatable boat and balloon for inflation.

Inflation: Tighten the multifunctional valve and American valve and insert into the filling pore to inflate.

Deflation: insert the multifunctional valve into the filling pore to deflate.

9. Pressure examination

Connecting with air tube, digital displays real-time pressure in power on state.

10. Inflation pressure check

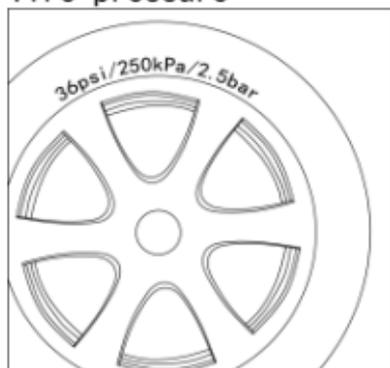
To ensure safety, please check the required inflation pressure of the inflated items by reading the manual before inflation.

Ball



The inflation pressure of football, basketball and volleyball will be marked around the valve.

Tire pressure



The tolerable range of tire pressure of automobile, bicycle and motorcycle are marked on the sidewall of the tires.

The guide pressure of the tire is marked near the inner wall of the driver's side door. The inflation pressure is related to the load weight. For more detailed air pressure suggestions, please refer to the vehicle manual.

Special reminder

The inflation pressure of balloon, toy ball, swimming circle and other products is lower than the range of inflation pump, so it can't stop inflation automatically by preset pressure. Please use with caution.

Safety and protection

■ **stuck/high current protection:** When there is a foreign body inside sticking the motor gear or the motor current is too high, the screen will display E21. The pump will resume normal after clearing the foreign body and reset or reset directly.

■ **Battery over discharge protection:** When the battery is over discharged during inflation, the machine will start the over discharge protection, and the screen will display E22, restart or restart after charging will return to normal

■ **High temperature protection:** When the internal temperature of the body is too high, the high temperature protection mechanism will be activated, the screen displays E23. After the temperature drops to the safe temperature, restart and return to normal.

■ **Inflation duration protection:** After working at 25 °C for about 18 minutes, the inflation will stop automatically and the screen displays E25. restart and return to normal.

■ **Charing temperature protection:** In the process of charging, when the lamp is on, it will enter into the charging temperature protection. When the temperature of standby is maintained at 0 °C ~ 45 °C, it can be charged normally. During the charging process, the lamp will go out automatically.

Recommended inflation pressure for common products

| Product category | Product type | Recommended pressure range |
|------------------|---------------------------------------|----------------------------|
| Ball | Basketball | 7–9psi |
| | Football | 8–16psi |
| | Volleyball | 4–5psi |
| | American football | 12–14psi |
| Bicycle | 12, 14, 16-inch bicycle tire | 30–50psi |
| | 20, 22, 24-inch bicycle tire | 40–50psi |
| | 26, 27.5, 29-inch mountain cycle tire | 45–65psi |
| | 700c clincher tire road bike | 100–130psi |
| | 700c tube tire road bike | 120–145psi |
| Motor bike | Motor bike, electric bike | 1.8–3.0bar |
| Vehicle | Small car tire | 2.2–2.8bar |

Note: The recommended inflation pressure range is for reference only.

Please refer to the instruction manual of the inflated product.

Note

1. This product is not a toy. Children are not allowed to use. It is recommended that the user should be over 16 years old. Keep children at a safe distance from the pump during inflation.
2. The product has built-in non detachable lithium battery. It is forbidden to throw into the fire or discard at will. There is a risk of fire, spontaneous combustion, explosion if lithium battery overheats, hits or waters. Please avoid exposure to the sun in high temperature environment such as in the car.
3. The storage temperature of the product should not be lower than $-10\text{ }^{\circ}\text{C}$ or higher than $45\text{ }^{\circ}\text{C}$. Supercooling or overheating will shorten the product life and damage the built-in battery.
4. The battery may be damaged if the product is idle for a long time. It is recommended to charge the battery at least once every three months.
5. The product has built-in DC motor, which may produce electric spark when working. Please do not use it in flammable and explosive environment.
6. In case of abnormal noise or high temperature, please shut down immediately.
7. Before setting the inflation pressure value, please make sure that the correct unit of measurement is selected, otherwise it may lead to tire burst and other accidents. Unit conversion: $1\text{bar}=14.5\text{psi}$, $1\text{bar}=1000\text{kPa}$.
8. Don't leave during inflation and observe the inflation process to prevent the inflation pressure from being too high when the preset air pressure is not settled.
9. Please use in a dry and clean environment, the invasion of sand and dust may cause product damage. The product is not waterproof, do not wash with water.

Trouble Shooting

| Failure mode | Exclusion method |
|---|---|
| Inflation slow | <ol style="list-style-type: none"><li data-bbox="391 329 783 360">1. Is the electricity enough<li data-bbox="391 414 853 445">2. Check whether the tube leakage<li data-bbox="391 500 953 609">3. Check whether the joints at both ends of the tube are tightened<li data-bbox="391 664 961 773">4. Check whether there is air leakage in the inflated items |
| Turn on but cannot be inflated | <ol style="list-style-type: none"><li data-bbox="391 835 767 866">1. Is the electricity enough<li data-bbox="391 920 961 1030">2. Check whether the current tire pressure is higher than the preset value<li data-bbox="391 1084 961 1448">3. When the internal temperature of the body is higher than 80 °C, the protection will be opened automatically (E23 is displayed). The equipment return to normal operating temperature. |
| The preset pressure cannot be adjusted up or down | Check if in the incorrect profile. Select the range of 3-150psi without any icon on to adjust the preset value |

| | |
|--|--|
| <p>Normal inflation but the pressure is zero</p> | <p>Low pressure inflatable products such as balloons are not within the measurable range of the equipment</p> |
| <p>Unable to charge</p> | <p>When the body temperature is lower than 0 °C or higher than 45 °C, the charging pump enters the state of charging temperature protection to keep the body temperature at 0 ~ 45 °C</p> |
| <p>Air leakage when connecting the tube</p> | <p>Tighten the tube</p> |
| <p>The power display and standby state are inconsistent in the inflation state</p> | <p>The voltage of power lithium battery decreases obviously during discharge, As a result, the power display in the inflation state is inconsistent with the standby state which is not a fault.</p> |

Basic Parameters

| | |
|---------------------|--|
| Product name | ENGWE intelligent pump |
| Product mode | YLBP |
| Product size | 243mm×45mm (bare size without tube) |
| Pressure range | 0.2~10.3bar/3-150psi |
| Working temperature | Charge: 0°C~40°C, discharge: 20°C~45°C |
| storage temperature | -10°C~45°C |
| Tube size | Tube length:260mm, valve include without thread |
| Working noise | Less than 80dB at a distance of 1m |
| Input parameter | 5V  500mA |
| Charging interface | Micro-USB |

ENGWE intelligent pump performance failure

| Name | Performance failure |
|------------------------|---|
| ENGWE Intelligent pump | <ol style="list-style-type: none">1. unable to power on2. unable to inflate3. unable to test tire pressure4. Incomplete or no display on digital screen5. air leakage6. the lamp doesn' t work7. unable to charge |

Non warranty regulations

- 1. Unauthorized maintenance, misuse, collision, negligence, abuse, liquid injection, accident, alteration, incorrect use of accessories that are not part of this product tearing and altering labels;**
 - 2. The validity for repair, replacement and compensation of faulty products has been expired;**
 - 3. Damage caused by force majeure;**
 - 4. Not conform to the performance failure listed in the product performance failure table;**
 - 5. The performance failure listed in the product performance failure table of this product and its accessories is caused by human factors.**
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