

REXING®

3 IN 1 Jump Starter Tire Inflator Air Blower Users Manual

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1. Overview

Thank you for choosing **Rexing!**

We hope you love your new products as much as we do. If you need any assistance, or have any suggestions to help us improve, please contact us.



care@rexingusa.com



(877) 740-8004

Our support team will respond to you as soon as possible.
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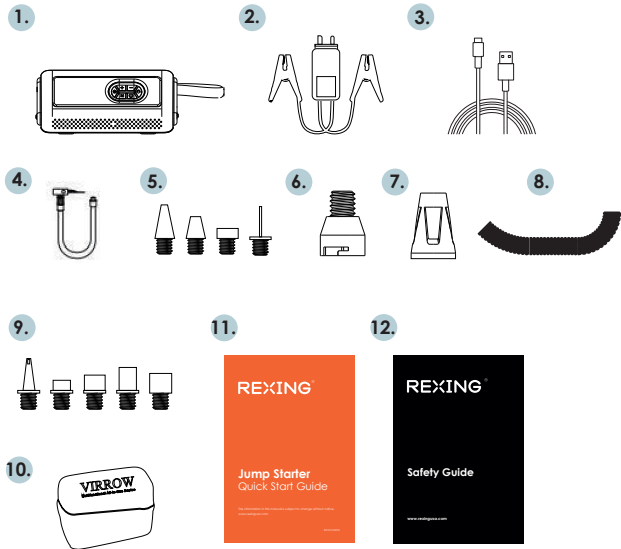
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Product Support



2. What's in the Box

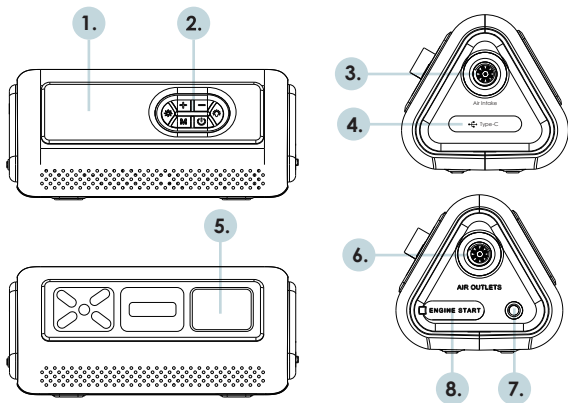


1. RJ31 3-in-1 Main Unit (Jump Starter / Tire Inflator / Air Blower)
2. Intelligent Battery Clamps (1 Set)
3. USB-C Charging Cable
4. Air Hose
5. Air Nozzles
6. Air Outlet Nozzle
7. Air Inlet Nozzle
8. Flexible Suction Hose
9. Dust Blower Nozzles
10. Carry Case
11. User Manual
12. Safety Guide

3. Product Specifications

Model	RJ31
Product Dimensions	8.66 X 4.17 X 3.94 in
Charging Time	4-5 hours
Type-C Input	5V=2A
USB Output	5V=2A
Battery Capacity	16,000mAh
Standby Power Consumption	< 50μA
Storage Temperature	-4°F to 140°F
Pressure Units	PSI
Max Pressure	150PSI
Light Intensity	150 lumens
Starting Current	400A
Peak Current	2000A
Undervoltage Protection(Discharge)	12.5V
Overvoltage Portection (Charging)	17V
USB Overcurrent Portection	3.5 ± 0.3A
PD Output Protection	5V-20V/3.5 ± 0.3A
Inflation Modes	Car, Motorcycle, Bicycle, Basketball
Functions	Air Pump, LED Light, Tire Pressure Tester, SOS Emergency Light, Jump Starter, Power Bank, Electric Air Duster, Vacuum Pump

4. Product Overview

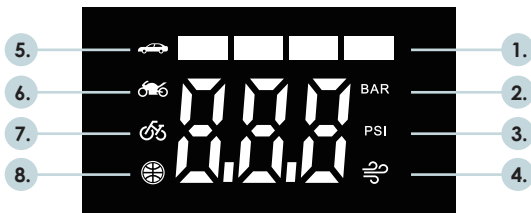


1. LCD Display
2. Control Buttons
3. Air Inlet
4. USB Output & Type-C Input Ports
5. LED Work Light
6. Air Outlet
7. Inflation Hose Connector
8. EC5 Jump Start Port

RJ31 is a powerful 3-in-1 tool designed for emergency and everyday use:

- **Jump Starter:** Connect the EC5 port to the smart battery clamps to safely jump-start your car in seconds, with up to 2000A peak current.
- **Tire Inflator:** Use the air hose and inflation port to inflate car tires, bicycle tires, or sports balls—up to 150 PSI.
- **Air Blower:** Attach the air outlet nozzle to blow away dust from keyboards, car vents, or hard-to-reach areas.

4.1 Display and Button Functions



- 1. Battery Level Indicator
- 2. Pressure Unit – BAR

- 3. Pressure Unit – PSI
- 4. Fan Icon (Blower Mode Active)



5. Car Mode Icon



6. Motorcycle Mode Icon









7. Bicycle Mode Icon



8. Ball Mode Icon

4.2 Button Functions

Icon	Function	Description
	Power On/ Off, Confirm	<ol style="list-style-type: none">1. Long-press (2 seconds) to power on when the device is off.2. Long press (2 seconds) to power off when the device is on.3. Short press to confirm<ul style="list-style-type: none">• If inactive for more than 1 minute, the device will automatically power off.
	Mode Switch / Pressure Unit Selection	<ol style="list-style-type: none">1. Long press to switch pressure unit to PSI.2. Short press to cycle through preset modes: Bicycle, Motorcycle, Car, Ball.
	Increase Pressure Value	Short press to increase the target pressure step-by-step, or long press for rapid adjustment.
	Decrease Pressure Value	Short press to decrease the target pressure step-by-step, or long press for rapid adjustment.

Icon	Function	Description
	<p>LED Light On/Off, Mode Switch</p>	<ol style="list-style-type: none"> 1. Short press once to turn on the white LED light. 2. Short press twice to switch to red strobe mode. 3. Short press three times to activate warning mode (alternating red and white flashing). 4. Short press four times to turn off the light.
	<p>Fan On/Off, Speed Adjustment</p>	<ol style="list-style-type: none"> 1. Short press once to turn on the fan (speed 1). 2. Short press twice to switch to speed 2. 3. Short press three times to switch to speed 3. 4. Short press four times to turn off the fan.

5. Function Details

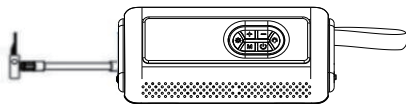
5.1 Air Pump

Function Description:

Used for inflating car tires, motorcycles, electric bikes, bicycles, and various types of sports balls.

How to use:

1. Connect the air hose to the main unit and tighten it securely.



- At this stage, the valve lever on the nozzle should be vertical to the ground, indicating it is in the open position.
2. Remove the valve cap from the tire and attach the quick-connect nozzle.



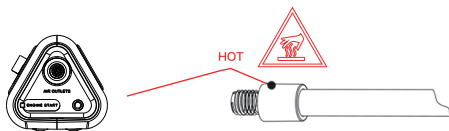
- After securing the nozzle onto the valve stem, press the valve lever down so it is parallel to the ground, indicating it is in the locked position.

Once the nozzle is securely attached and the device is powered on, the screen will display the real-time tire pressure.

3. For example, to inflate a car tire, press the M button to select Car Mode. The default pressure for car tires is 36 PSI. You can adjust the pressure using the "+" or "-" buttons. Once the desired pressure is set, press the Power button to start inflation.
4. When the preset pressure is reached, the pump will automatically stop. You can also stop inflation manually by pressing the Power button again.

Note:

- Do not touch the hose during inflation.
- After prolonged use, the hose and connector may become hot due to continuous operation. After detaching the hose, allow it to cool before touching to avoid burns.



Pressure Range:

BAR Mode: 1.80 - 17.0

PSI Mode: 1 - 150

Common Tire & Ball Pressure Reference Values

Category	Type	Pressure Range
Electric Bike/ Motorcycle	Electric Bike/ Motorcycle	26 - 43 PSI
Car	Car	26 - 101 PSI
Bicycle	Stroller	18 - 30 PSI
	10-16 inch Tires	30 - 45 PSI
	20 - 30 inch Tires	38 - 55 PSI
	Road Bike	90 - 120 PSI
	Balance Scooter	30 - 45 PSI
	Wheelchair	30 - 50 PSI
	Electric Scooter	40 - 60 PSI
Ball Types	Children's Toy Ball	3 - 6 PSI
	Basketball	7 - 9 PSI
	Soccer Ball	10 - 12 PSI
	Volleyball	4 - 6 PSI
	Rugby Ball	10 - 14 PSI

5.2 Tire Pressure Detection

Function Description: Connect the tire or ball valve to the device using the air nozzle. Once powered on, the screen will display the real-time pressure. The reading will disappear after approximately 3 seconds.

5.3 Lighting / SOS Emergency Light

Function Description: Press the light button once to turn on the white LED light. Press a second time to activate the red strobe light. Press a third time to switch to SOS mode (alternating red and white flashing). Press a fourth time to turn off the light.

5.4 Car Emergency Start

Function Description: Provides temporary power to start a vehicle when the car battery is low or dead.

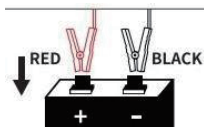
Instructions for Use:

Step 1: Press and hold the power button to turn on the device. Check the battery level to ensure it's sufficiently charged (recommended: above 85%).

Step 2: Attach the jumper cables to the car battery.

Connect the red clamp to the battery's positive (+) terminal.

Connect the black clamp to the battery's negative (-) terminal. (Refer to the diagram below for correct positioning.)

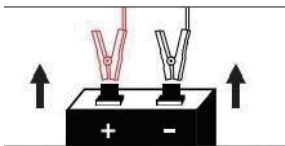


Step 3: Plug the jumper cable into the EC5 port on the device to enable jump start mode.

Step 4: Return to the vehicle and start the engine.

- Do not attempt to start the engine for more than 3 seconds at a time. (Excessive cranking may damage the battery.)

Step 5: Once the engine starts, unplug the jumper cable from the device, then remove the clamps from the car battery as shown below.



⚠ Important Note:

- If the engine does not start, do not try repeatedly. Disconnect the device and wait at least 1 minute before trying again to avoid overheating and damage.
- Maximum jump starts per full charge: 20 times (varies depending on vehicle model and battery condition).

Compatible with:

- Gasoline engines up to 6.0 liters
- Diesel engines up to 3.0 liters

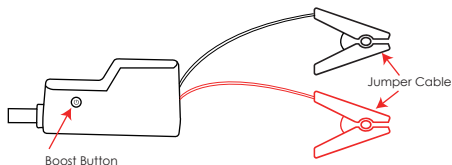
Wait at least 1 minute between each start attempt. If the battery surface temperature exceeds 60°C, stop the operation.

Indicator Clamp Instructions:

When the jumper cable is connected to the device, the indicator light will alternate between red and green, showing standby mode. After attaching the clamps to the battery terminals: If the light turns solid green, the device is ready to start the engine. If the light remains solid red, the device cannot start the engine.

- ⚠ Standard clamps do not have indicator lights.**
If using them, be extremely careful to match positive (+) and negative (-) terminals. Reversing the clamps can be dangerous.

Jumper Cable Abnormal Status Explanation
(Only when the jumper cable is in standby mode)



- a. If the red and black clamps are reversed, the red light will stay on and the buzzer will sound continuously. The device will return to standby mode automatically once the polarity error is resolved.
- b. If the jumper cable becomes overheated, the red light will stay on and the buzzer will sound continuously. The device will return to standby mode after it cools down.
- c. If there is a short circuit in the jumper cable, the red and green indicator lights will flash alternately. The device will enter standby mode automatically after the issue is cleared.
- d. If the device has low battery, low-voltage protection will be triggered and power output will stop. Press the BOOST button briefly to override protection and enable emergency power output

5.5 Power Bank

Function Description: Allows convenient charging of electronic devices such as smartphones, tablets, and headphones via the USB-A output port — ideal when no power outlet is available.

How To use:

After powering on the device, connect your charging cable to the USB-A port. The "OUT" indicator will flash, and the device will begin charging. Supports QC18W fast charging.

5.6 Electric Air Duster

Function Description: The Electric Air Duster generates powerful airflow for efficient removal of dust, debris, and for fire control (e.g. campfires). Suitable for both indoor and outdoor cleaning, as well as inflation support.

How to Use: Attach the air outlet nozzle securely to the device. Power on the unit and press the Fan Button to activate the airflow.

Specifications:

Modes	Speed	Airflow
Level 1	60,000 RPM	15 m/s
Level 2	90,000 RPM	24 m/s
Level 3	130,000 RPM	34 m/s

Usage Scenarios:

- **Indoor Cleaning:** Removes dust from computers, keyboards, desks, air conditioners, narrow gaps, and workstations.
- **Outdoor Activities:** Supports campfire control and inflates air mattresses, inflatable sofas, pools, and swimming rings.
- **Car Use:** Cleans vehicle interiors, fallen leaves, snow, and water droplets from car exteriors.

5.7 Vacuum Pump

Function Description:

The electric vacuum pump utilizes negative pressure to quickly extract air from vacuum-sealed or inflatable items.

How to Use:

- Connect the hose to the intake port using a compatible intake nozzle.
- Select the appropriate nozzle from the provided five options and screw it securely onto the hose.
- Connect the intake nozzle to the item to be vacuumed.1. Connect the hose to the intake port using a compatible intake nozzle.

Usage Scenarios:

Ideal for deflating vacuum storage bags, inflatable mattresses, inflatable toys, tents, paddle boards, and more.

5. Troubleshooting

Fault Description	Possible Causes	Recommended Solutions
Cannot power on	Product collision triggered automatic shutdown	Charge the device to restore power.
	Insufficient battery power	Charge the device.
	Power button was only short-pressed	Press and hold the power button for about 2 seconds.
	Device is currently charging	Unplug the charging cable. (The device cannot power on while charging.)
Cannot Charge	Charging cable not fully inserted into the port	Ensure the cable is fully inserted and secure. Check for looseness.
	Adapter not fully inserted into wall socket	Ensure the power adapter is securely plugged into the socket.
Cannot jump-start (for emergency jump-start models)	Low battery level	Charge for 3–5 hours.
	Battery clips not properly connected or not detecting battery	Ensure the clamps are securely attached to the battery terminals. Clean contact points and verify indicator light is functioning.

Fault Description	Possible Causes	Recommended Solutions
Cannot jump-start (for emergency jump-start models)	Car electrical appliances or doors not closed	Turn off all accessories and ensure car doors are closed before jump-starting.
	Faulty Battery	Do not attempt to jump-start without a working battery or if the negative terminal is disconnected.
	Incorrect Operation	Contact VIRROW customer support for assistance.
Cannot inflate after powering on (for pump models)	Low battery	Charge the device.
	Incorrect tire pressure mode selected	Set the mode correctly according to the object type.
	Air hose clip is loose	Reattach and secure the air hose and clip properly

6. Precautions

- a. Check the device's battery level before use. For optimal performance, ensure the battery is at least 75% charged. Use the included charging cable for best results.
- b. Only operate the device when the ambient temperature is between 0°C and 45°C (32°F–113°F). Stop use immediately if the surface temperature exceeds 55°C (131°F).
- c. Read the user manual carefully before use to avoid improper operation that may lead to product damage or safety hazards.
- d. Ensure the EC5 plug (ignition clamp) is fully inserted into the power port. Incomplete insertion may impair performance and cause melting due to heat buildup.
- e. Do not perform frequent, consecutive jump starts. Wait at least 30 seconds between attempts. After connecting the ignition clamps, start the vehicle promptly.
- f. If the car fails to start:
 - Confirm the clamps are secure and terminals are clean.
 - Do not attempt more than 3 starts to avoid damaging the device.
- g. Do not store the product in high-temperature, high-humidity, or strong magnetic environments. Avoid placing it near open flames or hazardous areas. Non-professionals should not disassemble the device.
- h. Do not connect electrical loads that exceed the device's rated output. Overload will trigger circuit protection, resulting in no output.
- i. Avoid dropping, striking, throwing, stepping on, or applying excessive force to the product.
- j. This product is not a toy. Keep it away from children. Recommended for users aged 16 and above. Keep children at a safe distance during inflation.

- k. If the device is not used for an extended time, recharge it every 3 months to maintain battery health.
- l. Use in a clean and dry environment. The device is not waterproof and should never be rinsed with water.
- m. During inflation, high-pressure air can become hot. Do not insert the air tube into the mouth, ears, eyes, or near skin.
- n. For optimal performance, allow the device to rest for 5 minutes after every 10 minutes of inflation. If unusual heat or noise occurs, power off immediately and let it cool for at least 15 minutes.
- o. Keep hair and loose clothing away from the air intake to avoid entanglement.
- p. Do not block the air intake, especially with skin, as this may cause overheating or burns.
- q. When using a third-party adapter, ensure it is CCC-certified or meets equivalent safety standards.

7. Storage and Handling

- a. Store the device in a dry, cool environment. Avoid high heat or humidity.
- b. This product contains a lithium battery. Do not use if it has been exposed to water.
- c. If not used for a long period, charge and discharge the device every 3 months to extend battery life.
- d. Do not disassemble, crush, strike, or expose the device to fire.

Warranty & Support

Warranty

The Rexing RJ31 3-in-1 Jump Starter | Tire Inflator | Air Blower comes with a full 12-month warranty. If you register your product on our official site

(<https://www.rexingusa.com/support/registration>), you can extend the warranty to 18 months.

Support

If you have any questions regarding your product, please do not hesitate to contact us at care@rexingusa.com, or call us at (877) 740-8004. Queries are typically answered within 12-24 hours.

Your opinion matters

Rexing is firmly committed to always improving our products, services, and user experience. If you have any thoughts on how we can do even better, we welcome your constructive feedback and suggestions.

Connect with us today at care@rexingusa.com

Thank you for choosing Rexing!

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

WARNING: Do not use this product to jump-start vehicles that exceed the recommended engine size. Improper use may result in damage, fire, or injury. Always read the user manual before use.

CAUTION: This product contains a lithium-ion battery. Do not disassemble, puncture, crush, or expose to fire or water.

This product is not a toy. Keep out of reach of children.

The manufacturer assumes no responsibility for damage caused by improper use or failure to follow instructions in the manual.

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