

BOJACK BJ-37V-462P

BOJACK 37 Values 480 Pcs Electronics Component Kit User Manual

1. PRODUCT OVERVIEW

The BOJACK 37 Values 480 Pcs Electronics Component Kit (Model BJ-37V-462P) is designed to facilitate various electrical experiments and DIY assembly projects. This comprehensive kit provides a wide range of electronic components, including a breadboard, power supply module, jumper wires, resistors, capacitors, LEDs, and more, making it suitable for beginners and experienced enthusiasts alike. It is compatible with popular development platforms such as STM32, Raspberry Pi, and Arduino.

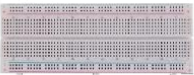
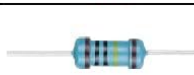
 Breadboard 1 PCS	 Solderless Jumper Wires 140 PCS	 M/F 16.5 cm Dupont Wires 20 PCS	 Jumper Wires 65 PCS	 10 Ω /Ohm Resistor 10 PCS	 2K Ω /Ohm Resistor 10 PCS
 Potentiometer 1 PCS	 Button 10 PCS	 40 Pin Male Header Connector 2 PCS	 M/M USB Cable 1 PCS	 100 Ω /Ohm Resistor 10 PCS	 5.1K Ω /Ohm Resistor 10 PCS
 IC 1 PCS	 IC 1 PCS	 Electrolytic Capacitor 10 μ F50V 10 PCS	 Electrolytic Capacitor 100 μ F50V 10 PCS	 220 Ω /Ohm Resistor 30 PCS	 10K Ω /Ohm Resistor 10 PCS
 Passive Buzzer 1 PCS	 Active Buzzer 1 PCS	 100 nF Ceramic Capacitor 10 PCS	 22 pF Ceramic Capacitor 10 PCS	 330 Ω /Ohm Resistor 10 PCS	 100K Ω /Ohm Resistor 10 PCS
 NPN Transistor 2N2222 10 PCS	 Photoresistor 2 PCS	 Rectifier Diode IN4007 10 PCS	 Thermistor 2 PCS	 1K Ω /Ohm Resistor 10 PCS	 1M Ω /Ohm Resistor 10 PCS
 5mm White LED 10 PCS	 5mm Red LED 10 PCS	 5mm Yellow LED 10 PCS	 5mm Green LED 10 PCS	 5mm Blue LED 10 PCS	 5mm RGB LED 2 PCS

Image 2.1: A visual representation of all components and their quantities included in the kit.

Component	Quantity
Breadboard (830 tie-points)	1 Pcs
Seamless Connection Wires	140 Pcs
M/F 16.5 cm Dupont Wires	20 Pcs
Connecting Wires	65 Pcs
Potentiometer	1 Pcs
Buttons	10 Pcs
40 Pin Male Header Connector	2 Pcs
M/M USB Cable	1 Pcs
IC (SN74HC595)	1 Pcs
IC (4N35)	1 Pcs
Electrolytic Capacitor (10UF 50V)	10 Pcs
Electrolytic Capacitor (100UF 50V)	10 Pcs
Passive Buzzer	1 Pcs
Active Buzzer	1 Pcs
Ceramic Capacitors (100nF)	10 Pcs

Component	Quantity
Ceramic Capacitors (22pF)	10 Pcs
NPN Transistors (2N2222)	10 Pcs
Photoresistors	2 Pcs
Rectifier Diode (1N4007)	10 Pcs
Thermistor	2 Pcs
Resistor (10Ω)	10 Pcs
Resistor (100Ω)	10 Pcs
Resistor (220Ω)	30 Pcs
Resistor (330Ω)	10 Pcs
Resistor (1KΩ)	10 Pcs
Resistor (2KΩ)	10 Pcs
Resistor (5KΩ)	10 Pcs
Resistor (10KΩ)	10 Pcs
Resistor (100KΩ)	10 Pcs
Resistor (1MΩ)	10 Pcs
White LEDs (5mm)	10 Pcs
Red LEDs (5mm)	10 Pcs
Yellow LEDs (5mm)	10 Pcs
Green LEDs (5mm)	10 Pcs
Blue LEDs (5mm)	10 Pcs
RGB LEDs (5mm)	2 Pcs

Each component is classified and packaged in a transparent box with clear labels, ensuring easy identification and organization.



Image 2.2: Individual components like capacitors and LEDs are provided in separate, labeled containers for convenience.

3. SETUP INSTRUCTIONS

This kit is designed for solderless assembly, primarily utilizing the included breadboard. Follow these steps to begin your electronic projects:

1. **Unpack and Organize:** Carefully unpack all components. The clear, labeled packaging helps in identifying each part.
2. **Breadboard Familiarization:** Understand the layout of the 830 tie-points breadboard. The rows and columns are internally connected to allow for easy circuit prototyping without soldering.
3. **Power Supply Module Connection:** Insert the power supply module into the breadboard. Connect the M/M USB cable to the power module and a suitable USB power source (e.g., computer USB port, USB wall adapter). Ensure the power module is correctly oriented to provide power to the breadboard's power rails.
4. **Component Placement:** Insert components like resistors, capacitors, LEDs, and ICs into the breadboard's holes. Ensure the leads are fully inserted for a secure connection.
5. **Wiring Connections:** Use the various jumper wires (seamless connection wires, Dupont wires) to connect components on the breadboard according to your circuit design. Pay attention to polarity for components like LEDs, diodes, and electrolytic capacitors.



Image 3.1: The kit contents, including the breadboard and various wires, ready for assembly.

4. OPERATING INSTRUCTIONS

Once your circuit is assembled on the breadboard, you can begin operating and testing your designs. This kit is ideal for learning basic electronics and prototyping:

- **Circuit Design:** Plan your circuit using schematics or online tutorials. Ensure all connections are correct before applying power.
- **Powering the Circuit:** Connect the USB cable to the power supply module on the breadboard. The power module typically has an indicator LED to show it is receiving power.
- **Testing and Debugging:** Observe the behavior of your circuit. If it does not function as expected, carefully check all connections, component polarities, and power supply.

- **Compatibility:** This kit is compatible with various microcontrollers and development boards such as STM32, Raspberry Pi, and Arduino. You can integrate these components into larger projects by connecting them to the respective GPIO pins of your development board.

5. MAINTENANCE

Proper maintenance ensures the longevity and functionality of your electronic components:

- **Storage:** Store all components in their original labeled containers or a similar organized storage solution. This prevents loss, damage, and makes components easier to find.
- **Handling:** Handle electronic components with care. Avoid bending leads excessively or applying undue force. Some components, like ICs, can be sensitive to static electricity.
- **Cleanliness:** Keep the breadboard and components free from dust and debris. Use a soft brush or compressed air if necessary.
- **Power Module Care:** Ensure the power module is disconnected from power when not in use. Avoid short circuits on the breadboard, which can damage the power module or connected components.



Image 5.1: The kit's robust and organized case helps in maintaining the components.

6. TROUBLESHOOTING

If you encounter issues with your circuits, consider the following troubleshooting steps:

- **No Power:** Verify the USB cable is securely connected to both the power source and the breadboard power module. Check if the power module's indicator LED is on.
- **Component Not Functioning:** Double-check the component's polarity (e.g., for LEDs, diodes, electrolytic capacitors). Ensure the component is correctly inserted into the breadboard and making good contact.
- **Incorrect Output:** Review your circuit diagram and compare it with your physical breadboard setup. A single misplaced wire or incorrect component value can lead to unexpected results.

- **Short Circuits:** Look for any wires or component leads that might be accidentally touching, creating a short circuit. This can prevent the circuit from working and potentially damage components.
- **Resistor Values:** Ensure you are using the correct resistor values for your circuit. Resistors are color-coded, and a multimeter can be used to verify their resistance.

7. SPECIFICATIONS

Specification	Detail
Model Name	BJ-37V-462P
Brand	BOJACK
Package Dimensions	7.87 x 5.63 x 1.85 inches
Item Weight	13.6 ounces
Manufacturer	BOJACK
Connectivity Technology	USB
Batteries Required	No
Compatibility	STM32, Raspberry Pi, Arduino

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your BOJACK Electronics Component Kit, please refer to the seller's policies on the platform where the product was purchased. You may also contact BOJACK customer service directly through their official channels for assistance.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question