

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

- › [Suplanet](#) /
- › [Suplanet Mini V8 Engine Model Kit K96203 User Manual](#)

Suplanet K96203

Suplanet Mini V8 Engine Model Kit K96203 User Manual

Detailed instructions for assembly, operation, and care.

1. INTRODUCTION

Thank you for choosing the Suplanet Mini V8 Engine Model Kit K96203. This kit provides an engaging and educational experience, allowing you to construct a functional miniature V8 engine model with app-controlled features and LED lighting. Designed for enthusiasts and learners aged 8 and up, this model offers insights into mechanical principles and engineering.



Image 1.1: The Suplanet Mini V8 Engine Model Kit K96203, showcasing its intricate design, LED lighting, and smartphone app control interface.

2. SAFETY INFORMATION

WARNING: Choking Hazard - Small Parts. Not for children under 3 years of age.

- Keep all small parts away from young children to prevent choking.
- Adult supervision is recommended during assembly and operation, especially for younger users.
- Do not attempt to modify the power unit or LED components.
- Ensure the USB charging cable is used with a compatible power source.

3. PACKAGE CONTENTS

Before beginning assembly, please verify that all components are present in your kit. The package includes 660 building blocks and the following essential items:

- Building Blocks (660 Pcs)
- Power Box (Rechargeable Power Unit)

- LED Light Strip
- USB Charging Cable
- Instruction Manual



Image 3.1: Overview of the kit contents and the assembled model's dimensions (17 x 18.5 x 14 cm).

4. ASSEMBLY INSTRUCTIONS

Follow the included step-by-step instruction manual carefully. Assembly involves connecting the 660 building blocks to form the V8 engine model. Pay close attention to the placement of gears, pistons, and the power transmission system.

4.1 Key Assembly Points

1. **Power Transmission System:** Ensure all gears and belts are correctly aligned for smooth operation.
2. **Piston Movement:** Verify that the piston components are installed to allow precise and orderly movement.
3. **LED Light Strip:** Integrate the LED strip as indicated in the manual to illuminate the engine's interior.
4. **Exhaust System:** Assemble the exhaust components, noting their detailed craftsmanship.

SUPLANET®

**660
PCS**



Image 4.1: Detailed views of the engine's internal mechanisms, including the LED strip, exhaust system, electroplated parts, and functional valves.

A Hands-on Family STEM Challenge

Construct a miniature 8-cylinder engine, analyze piston-crankshaft dynamics, and decode the principles of mechanical power transmission.



Image 4.2: The assembly process offers a hands-on STEM challenge, promoting understanding of mechanical power transmission.

5. OPERATING INSTRUCTIONS

5.1 Powering On

1. Ensure the Power Box is fully charged using the provided USB charging cable.
2. Connect the Power Box to the designated port on the engine model.
3. Flip the switch on the Power Box to the 'ON' position. The engine will automatically begin to rotate, and the LED lights will illuminate.



Image 5.1: The engine in its operating state, demonstrating illuminated pistons and dynamic movement.

5.2 App Control and Speed Settings

The engine model features Bluetooth connectivity for app-controlled operation, allowing for speed adjustments and dynamic sound synchronization.

1. **Download the App:** Scan the QR code in the physical instruction manual or search for the 'Suplanet Engine Control' app on your smartphone's app store.
2. **Connect via Bluetooth:** Open the app and ensure your phone's Bluetooth is enabled. The app will automatically detect and pair with the engine model (K96203).
3. **Adjust Speed:** Use the app interface to select one of three precision-tuned speed settings (1st, 2nd, 3rd Gear) for piston movement.
4. **Dynamic Sound:** The app provides immersive, real-time engine sounds that adapt to the selected speed, enhancing the operational experience.



Image 5.2: The app control interface, illustrating speed selection and sound synchronization features.

6. MAINTENANCE

6.1 Cleaning

To clean the engine model, gently wipe it with a dry, soft cloth. Avoid using water or cleaning solutions, as these may damage the electronic components or the building blocks.

6.2 Storage

Store the model in a cool, dry place away from direct sunlight and extreme temperatures. Disconnect the Power Box when not in use for extended periods.

6.3 Battery Care

The Power Box contains a rechargeable battery. For optimal battery life, avoid fully discharging the battery frequently. Recharge it periodically even if not in active use.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine does not start or LEDs do not light up.	Power Box is not charged or not connected properly.	Ensure Power Box is fully charged and securely connected. Check if the Power Box switch is ON.
App cannot connect to the engine.	Bluetooth is off on the phone, or engine is out of range.	Enable Bluetooth on your smartphone. Ensure the engine is powered on and within close proximity to your device. Restart the app and engine if necessary.
Engine movement is jerky or inconsistent.	Gears or moving parts are misaligned or obstructed.	Carefully inspect the assembly for any misaligned blocks or obstructions. Refer to the assembly manual to re-check critical connections.
Missing parts during assembly.	Packaging error or parts misplaced.	Double-check all packaging materials. If parts are genuinely missing, contact Suplanet customer support for assistance.

8. SPECIFICATIONS

Product Dimensions: 6.69 x 7.28 x 5.51 inches (17 x 18.5 x 14 cm)

Item Weight: 1.46 pounds

Model Number: K96203

Number of Pieces: 660

Recommended Age: 8 - 14 years (Adults also enjoy)

Power Source: Rechargeable Power Box (1 x 9V battery equivalent, included)

Connectivity: Bluetooth (for app control)

Manufacturer: Suplanet

9. WARRANTY INFORMATION

Suplanet products are manufactured to high-quality standards. This product is covered by a limited warranty against manufacturing defects. Please retain your proof of purchase. For specific warranty terms and conditions, refer to the product packaging or contact customer support.

10. CUSTOMER SUPPORT

If you have any questions, require assistance with assembly, or encounter issues not covered in this manual, please contact Suplanet customer support. You can typically find contact information on the product packaging or by visiting the official Suplanet website.

Online Resources: For additional tips, FAQs, and product updates, visit the [Suplanet Store on Amazon](#).

