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› DiyXenginey V8 Engine Model Kit Instruction Manual

## DiyXenginey V8 Engine Model Kit

# DiyXenginey V8 Engine Model Kit Instruction Manual

Model: V8 Engine Model Kit | Brand: DiyXenginey

## 1. INTRODUCTION

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This manual provides essential information for the assembly, operation, and maintenance of your DiyXenginey V8 Engine Model Kit. This kit is a high-precision 3D printed resin model designed to replicate the structure and principles of a real V8 engine. It is intended for enthusiasts aged 16 and up who enjoy complex mechanical assembly.

The assembled model features a full-bearing structure for stability and is compatible with various RC models, including AX90104 SCX10II, Capra, and VS4-10 Pro/Ultra.



Image 1.1: Fully assembled DiyXenginey V8 Engine Model Kit.

## 2. SAFETY INFORMATION

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- This kit contains small parts. Keep out of reach of children under 3 years of age to prevent choking hazards.
- Recommended age for assembly is 16 years and up.
- Exercise caution when handling small components and tools during assembly.
- Ensure proper ventilation if using adhesives (not included) during assembly.

## 3. PACKAGE CONTENTS

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Verify that all components listed below are present in your kit before beginning assembly. If any parts are missing or damaged, please contact customer support.

- V8 Engine Kit Set (various 3D printed resin components)
- QR Code Instructions (for detailed assembly guide)
- Battery Holder
- Support Bracket

# Simulation design based on real V8 internal combustion engine structure principle



## V8 engine kit for DIY building fun.

Image 3.1: Disassembled components of the V8 Engine Model Kit.

### 4. ASSEMBLY INSTRUCTIONS

The DiyXenginey V8 Engine Model Kit is a detailed assembly project. For comprehensive, step-by-step instructions, please scan the provided QR Code. This code will direct you to the official digital assembly guide, which includes detailed diagrams and specific part identification.

#### 4.1 General Assembly Tips

- **Organize Components:** Before starting, lay out all parts and identify them according to the digital instructions. Many parts may appear similar, so careful identification is crucial.
- **Follow Sequence:** Adhere strictly to the assembly sequence provided in the QR code instructions. Deviating from the sequence may lead to difficulties or incorrect assembly.
- **Handle with Care:** The model is crafted from high-precision 3D printed resin. Handle components gently to avoid breakage.
- **Test Fit:** Before applying any adhesive (if required by the digital instructions), test fit components to ensure they align correctly.
- **Bearing Installation:** The drive components feature a full-bearing structure. Ensure all bearings are seated correctly for smooth operation.

#### 4.2 Power Supply Connection

The model includes a power supply drive board plug interface. During assembly, ensure this interface is

correctly connected as per the digital instructions. This connection is vital for the engine's dynamic operation.

## Fully simulated oil pan structure, and power supply drive board plug interface



Image 4.1: Rear view of the engine model, highlighting the oil pan structure and power supply interface.

## 5. OPERATION

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Once fully assembled and the power supply connected, the V8 engine model is designed to run, demonstrating the mechanics of a V8 engine. Refer to the digital instructions for specific details on activating and operating the model.

- **Power Source:** Connect the battery holder to the designated power supply interface. Ensure batteries are correctly inserted.
- **Activation:** Follow the specific activation steps outlined in the QR code instructions to initiate engine operation.
- **Compatibility:** This engine model is designed for integration with RC models such as AX90104 SCX10II, Capra, and VS4-10 Pro/Ultra. Consult your RC model's manual for integration details.

## 6. MAINTENANCE

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To ensure the longevity and proper function of your V8 Engine Model Kit, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe down the model. Avoid harsh chemicals or abrasive materials that could damage the resin finish.
- **Storage:** Store the model in a cool, dry place away from direct sunlight and extreme temperatures to prevent material degradation.
- **Handling:** Always handle the model by its base or sturdy components to avoid stressing delicate parts.
- **Bearing Care:** Periodically check the bearings for smooth operation. If necessary, a small amount of appropriate lubricant can be applied as per model kit best practices.

## 7. TROUBLESHOOTING

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If you encounter issues during assembly or operation, consider the following common troubleshooting steps:

- **Missing or Damaged Parts:** Double-check the package contents against the list in Section 3. If parts are genuinely missing or damaged, contact DiyXenginey customer support.
- **Assembly Difficulties:** Refer back to the QR Code instructions. Ensure each step is followed precisely. Verify that you are using the correct components for each step, as some resin parts may have subtle differences.
- **Engine Not Running:**
  - Check battery installation and ensure batteries have sufficient charge.
  - Verify all power supply connections are secure and correctly oriented.
  - Inspect for any obstructions in moving parts or incorrectly seated bearings.
- **Loose Connections:** Ensure all assembled components are securely fastened.

## 8. SPECIFICATIONS

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Feature	Detail
Product Dimensions	6.4 x 6 x 5.5 cm (assembled model)
Item Weight	150g (product weight) / 6.9 ounces (shipping weight)
Material	Plastic + Electronic Components (3D Printed Resin)
Model Number	74R135017C
Recommended Age	16 years and up
Compatibility	AX90104 SCX10II, Capra, VS4-10 Pro/Ultra RC models



Image 8.1: Dimensions of the assembled V8 Engine Model Kit.



## Resin V8 model smaller than your hand

Image 8.2: The V8 engine model demonstrating its compact size.

### 9. CUSTOMER SUPPORT

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For further assistance, technical support, or inquiries regarding missing/damaged parts, please contact DiyXenginey customer service through the platform where the product was purchased. Refer to your purchase documentation for specific contact details.

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