

Manuals+

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

manuals.plus /

- › [Revell](#) /
- › [Revell Visible V8 Engine Model Kit 85-8883 Instruction Manual](#)

Revell RVM8883

Revell Visible V8 Engine Model Kit 85-8883 Instruction Manual

Model: RVM8883

1. INTRODUCTION

This instruction manual provides detailed guidance for assembling and operating your Revell Visible V8 Engine Model Kit (Model RVM8883). This 1:4 scale plastic model kit, consisting of 314 pieces, is designed for enthusiasts aged 13 and up, offering an educational and engaging experience in understanding the mechanics of a V8 engine. The transparent design allows for observation of internal moving parts, including pistons, valves, and crankshaft, when operated by the hand crank.



Figure 1: Fully assembled Revell Visible V8 Engine Model Kit.

2. SAFETY INFORMATION

- **Small Parts:** This kit contains small parts that may pose a choking hazard. Keep out of reach of young children.
- **Sharp Edges:** Exercise caution when removing parts from the sprues, as some edges may be sharp. Use appropriate tools for trimming.
- **Adhesives:** Assembly requires model cement (not included). Use adhesives in a well-ventilated area and follow the manufacturer's safety instructions.
- **Tools:** Recommended tools include hobby knife, small files, sandpaper, and tweezers. Handle all tools with care.

3. PACKAGE CONTENTS

Upon opening the box, verify that all components are present. The kit includes:

- Plastic Model Visible V-8 Engine Kit components (314 pieces)
- Illustrated Assembly Instructions

- Display Stand components



Figure 2: Unpacked components of the model kit, including various plastic sprues.

Your browser does not support the video tag.

Video 1: An overview of the contents found inside the Revell Visible V8 Engine Model Kit box.

4. ASSEMBLY INSTRUCTIONS

Follow the included illustrated assembly instructions carefully. Patience and attention to detail are crucial for a successful build. It is recommended to:

1. **Read Instructions:** Thoroughly read through the entire instruction manual before beginning assembly.
2. **Prepare Parts:** Carefully remove each part from its sprue using a hobby knife or clippers. Trim any excess plastic (flash) and file down ejection pin marks for a clean fit.
3. **Dry Fit:** Before applying adhesive, dry fit parts together to ensure proper alignment and fit. This helps prevent errors and ensures smooth operation of moving components.
4. **Adhesive Application:** Use model cement sparingly. For clear plastic parts, consider using a clear parts cement to avoid clouding. Allow sufficient drying time for glued parts, especially those under stress or part of moving mechanisms.
5. **Lubrication:** Lubricate moving parts with a plastic-safe lubricant during assembly to ensure smooth operation. Refer to the Maintenance section for specific recommendations.
6. **Hand Crank and Display Stand:** Assemble the hand crank and display stand as per the instructions. The hand crank is essential for demonstrating the engine's internal movements.



Figure 3: Detail of the belt and pulley system, crucial for connecting the hand crank to the engine's internal mechanisms.

5. OPERATING INSTRUCTIONS

Once fully assembled, the Visible V8 Engine Model Kit can be operated using the integrated hand crank. This allows you to observe the synchronized movement of the pistons, crankshaft, camshaft, and valves.

1. **Placement:** Place the assembled model securely on its display stand on a stable, flat surface.
2. **Engage Hand Crank:** Ensure the hand crank is properly inserted and engaged with the crankshaft mechanism.

3. **Rotate:** Gently turn the hand crank in the direction indicated on the model (typically clockwise when viewed from the front). Observe the pistons moving up and down within the cylinders, the crankshaft rotating, and the valves opening and closing in sequence.

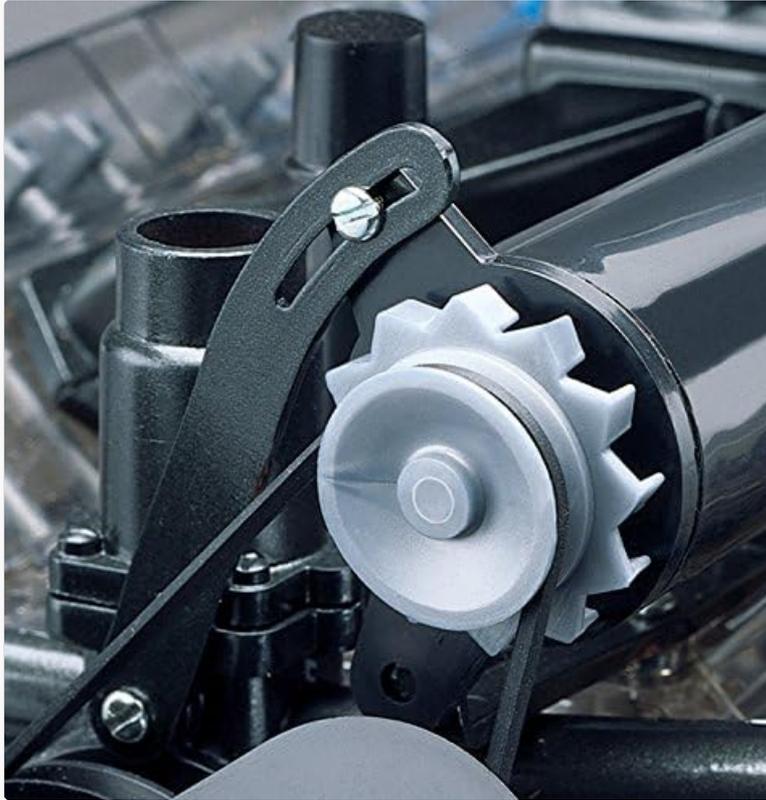


Figure 4: Demonstrating the hand crank operation to activate the engine's moving parts.

6. MAINTENANCE

To ensure the longevity and smooth operation of your Visible V8 Engine Model Kit, follow these maintenance guidelines:

- **Lubrication:** Periodically apply a plastic-safe lubricant to all moving parts, especially the crankshaft, camshaft, and piston rods. **Do NOT use vegetable oils (e.g., soybean oil, canola oil)** as these can degrade the plastic over time. Specialized model lubricants (e.g., Labelle plastic-safe oil) are recommended.
- **Cleaning:** Dust the model regularly with a soft, dry cloth or a soft brush. For stubborn dirt, use a slightly damp cloth with mild soap, then wipe dry immediately. Avoid harsh chemicals or abrasive cleaners.
- **Storage:** Store the model in a cool, dry place away from direct sunlight and extreme temperatures to prevent plastic warping or discoloration.

7. TROUBLESHOOTING

If you encounter issues with your model, consider the following:

- **Parts Not Moving Smoothly / Binding:**
 - Check for excess plastic (flash) on moving parts that may be causing friction. Carefully trim and sand as needed.
 - Ensure all parts are correctly aligned and fully seated according to the instructions.
 - Apply a plastic-safe lubricant to the affected moving components.
- **Loose or Ill-fitting Fasteners:**

- Some kits may include metric fasteners that do not fit optimally. If experiencing issues, consider replacing them with standard 2-56 hardware for better fit and durability.
 - Ensure screws are not overtightened, which can strip plastic threads or cause binding.
- **Camshaft Drive Gears Snapping:**
 - This can occur due to excessive force or lack of lubrication. Ensure gears are well-lubricated with plastic-safe oil.
 - Operate the hand crank gently to avoid putting undue stress on the gears.

8. SPECIFICATIONS

Feature	Detail
Brand	Revell
Model Name	Visible V8 Engine Model Kit 1:4 Scale
Model Number	RVM8883
Scale	1:4
Number of Pieces	314
Skill Level	5
Age Range	13 years old and up
Material	Plastic
Color	Multi
Item Dimensions (L x W x H)	14.88 x 20.63 x 10.25 inches
Item Weight	0.289 ounces (8.2 Grams)
Included Components	Assembly Instructions, Plastic Model Visible V-8 Engine Kit

9. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your Revell Visible V8 Engine Model Kit, please refer to the documentation included in your product packaging or visit the official Revell website. Keep your purchase receipt as proof of purchase.