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Revell 00460

Revell 00460 Visible V-8 Engine Model Kit Instruction Manual

Brand: Revell | Model: 00460

PRODUCT OVERVIEW

The Revell 00460 Visible V-8 Engine Model Kit is a 1/4 scale unpainted plastic assembly kit designed to demonstrate the internal workings of a V-8 engine. This model features a movable piston crankshaft and a handle that operates the valves, providing an interactive learning experience.

This kit contains 321 pieces and is intended for assembly by enthusiasts. Please note that adhesives, tools, and paints are sold separately and are required for complete assembly and finishing.

SETUP AND ASSEMBLY

Careful assembly is crucial for the proper function of your Visible V-8 Engine Model. Follow the detailed instructions provided in the kit packaging. Ensure all components are correctly aligned and secured.

Required Materials (Sold Separately):

- Plastic model cement or adhesive suitable for plastic kits.
- Hobby knife or sprue cutters for removing parts from the sprues.
- Small files or sandpaper for cleaning up part edges.
- Model paints (acrylic recommended) and brushes for detailing, if desired.
- Small screwdriver for securing components.

Assembly Steps:

1. Carefully remove all 321 plastic pieces from their sprues using appropriate tools.
2. Clean any excess plastic or flash from the parts.
3. Follow the step-by-step diagrams in the included manual to assemble the engine block, crankshaft, pistons, and connecting rods.
4. Assemble the cylinder heads, valve train, and camshaft components.
5. Integrate the ignition system components, including spark plug wires and distributor.

6. Attach the fan, belts, and other external accessories.
7. Secure the entire assembly onto the display stand.
8. Allow sufficient drying time for all adhesives before proceeding to operation.



Figure 1: Fully assembled Revell Visible V-8 Engine Model Kit.



Figure 2: Side view of the model, highlighting the transparent engine block and red spark plug wires.

OPERATING THE MODEL

Once assembled, the Revell Visible V-8 Engine Model can be operated manually to observe its internal mechanisms.

Manual Operation:

- Locate the hand crank or handle on the side of the engine model.
- Gently turn the handle to observe the crankshaft rotating, pistons moving up and down within the cylinders, and valves opening and closing.
- The transparent housing allows for clear visualization of these moving parts, demonstrating the four-stroke cycle of an internal combustion engine.

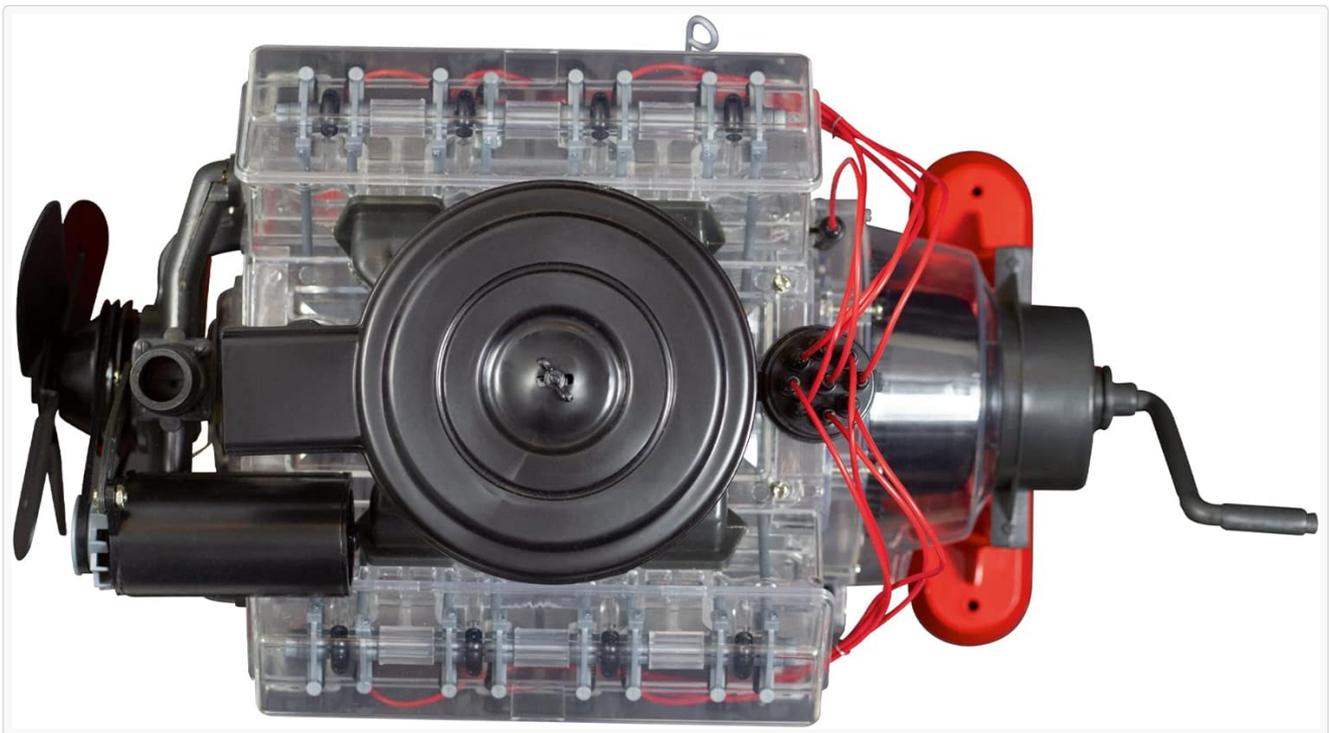


Figure 3: Top view of the model, showing the air filter and distributor assembly.

MAINTENANCE

This model kit requires minimal maintenance to ensure its longevity and visual appeal.

Cleaning:

- Regularly dust the model with a soft, dry cloth or a soft-bristled brush to prevent dust buildup, especially on the transparent parts.
- Avoid using harsh chemicals or abrasive cleaners, as these can damage the plastic components or painted surfaces.
- For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by immediate drying.

Storage:

- Store the model in a cool, dry place away from direct sunlight to prevent discoloration or warping of plastic parts.
- Keep the model away from extreme temperatures or humidity.

TROUBLESHOOTING

If you encounter any issues with your model, refer to the following common troubleshooting tips:

Movement Issues:

- **Parts not moving smoothly:** Check for any misaligned or improperly seated components. Ensure no excess adhesive is restricting movement.
- **Resistance when turning the crank:** Verify that all gears and belts are correctly installed and not binding. Re-check the assembly steps for the crankshaft and piston mechanisms.

Assembly Challenges:

- **Parts not fitting:** Ensure you are using the correct parts as indicated in the manual. Some parts may require gentle filing or trimming for a perfect fit.
- **Missing parts:** Double-check the kit contents against the parts list in the manual. If parts are genuinely missing, contact Revell customer support.

SPECIFICATIONS

Feature	Detail
Brand	Revell
Model Name	Visible V-8 Engine Model
Item Model Number	00460
Scale	1/4
Number of Pieces	321
Material	Plastic
Color	Unpainted
Theme	Vehicle
Item Dimensions (L x W x H)	10.79 x 6.26 x 19.41 inches
Item Weight	14.1 ounces (0.4 Kilograms)
Age Range (Description)	Kid (suitable for hobbyists of various ages)

WARRANTY AND SUPPORT

Specific warranty information for the Revell 00460 Visible V-8 Engine Model Kit is typically provided within the product packaging or on the manufacturer's official website. Please refer to these sources for the most accurate and up-to-date warranty details.

For technical support, missing parts, or further assistance, please contact Revell customer service directly. Contact information can usually be found on the product box or on the official Revell website.