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› [MECCANO](#) /

› [MECCANO 25-in-1 Motorized Supercar STEM Model Building Kit Instruction Manual](#)

MECCANO 6062054

MECCANO 25-in-1 Motorized Supercar STEM Model Building Kit Instruction Manual

Model: 6062054



INTRODUCTION

This manual provides detailed instructions for assembling, operating, and maintaining your MECCANO 25-in-1 Motorized Supercar STEM Model Building Kit. This kit allows for the construction of 25 different motorized models, including a supercar, designed to enhance understanding of science, technology, engineering, and mathematics (STEM) principles. It is suitable for individuals aged 10 and up.



Image: Packaging for the MECCANO 25-in-1 Motorized Supercar STEM Model Building Kit, showing the main supercar model and kit features.

WHAT'S INCLUDED

Your MECCANO 25-in-1 Motorized Supercar Kit includes the following components:

- 347 assorted parts for construction
- 1 x 6V Electrical Motor with LED light piping
- 2 x Real Tools (wrench and screwdriver)
- 1 x Instruction Sheet (for 3 specific models)

Note: 4 AAA batteries are required for the motor and LED functions and are not included in this kit.

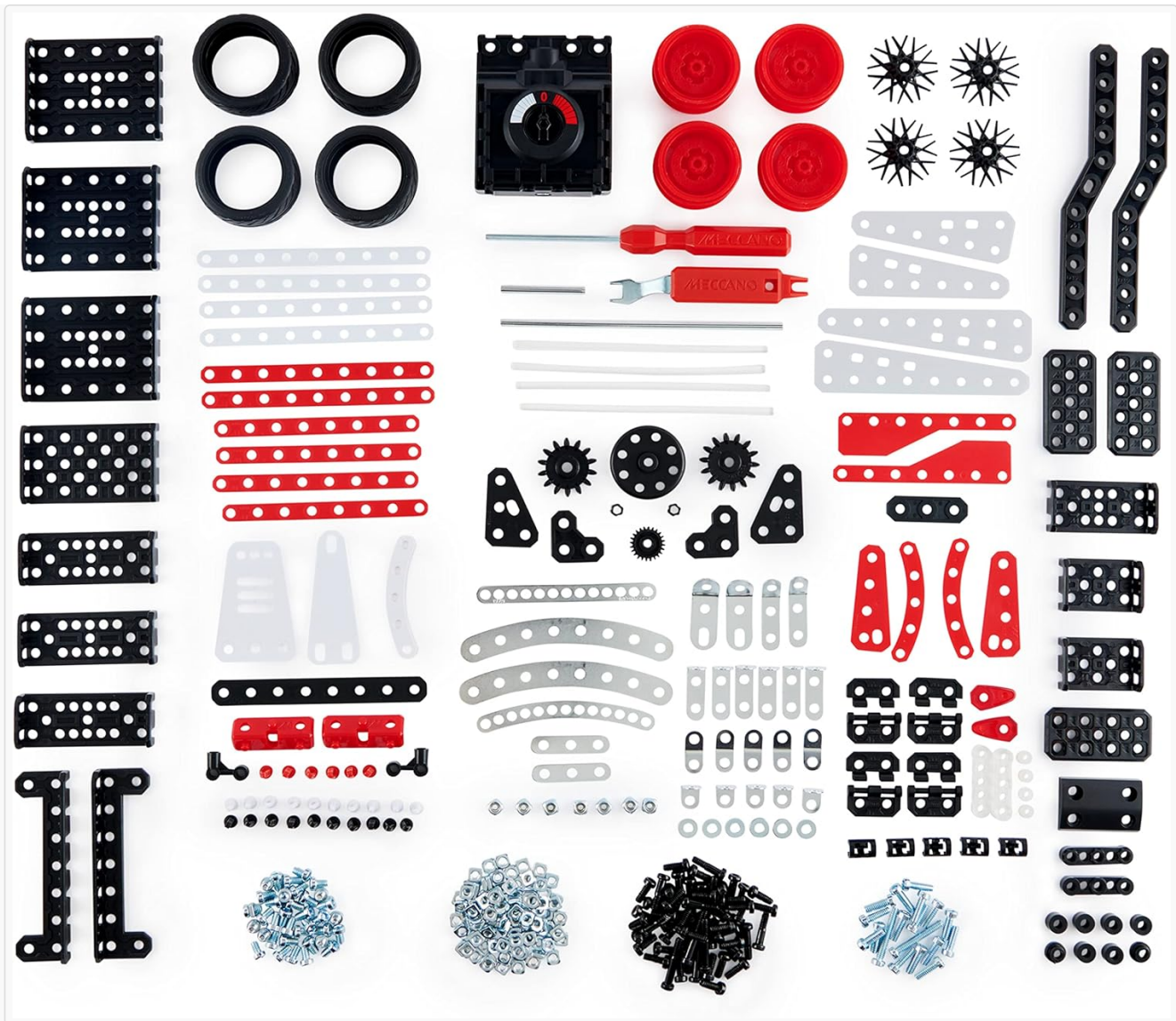


Image: An overhead view displaying all 347 individual parts, tools, and components included in the MECCANO building kit, neatly arranged.

SETUP AND ASSEMBLY

Follow the provided instruction sheet carefully for the assembly of the three primary models. For additional models, refer to the official MECCANO website for digital instructions.

1. **Unpack Components:** Carefully remove all parts from the packaging and organize them. It is recommended to sort smaller parts to facilitate assembly.
2. **Battery Installation:** Locate the battery compartment on the 6V electrical motor. Using a small screwdriver, open the compartment and insert 4 new AAA batteries, ensuring correct polarity. Close the compartment securely.
3. **Follow Instructions:** Use the included tools (wrench and screwdriver) to connect the metal parts with nuts and bolts as indicated in the instruction manual. Pay close attention to the orientation of each piece.
4. **Motor and LED Integration:** Integrate the 6V motor and LED light piping into your model as specified in the assembly steps. Ensure all electrical connections are secure.
5. **Testing:** Periodically test moving parts and electrical components during assembly to ensure proper function.



Image: A fully assembled MECCANO Supercar model, showcasing its intricate design and illuminated LED lights, set against a dark background.

OPERATING INSTRUCTIONS

Once your model is fully assembled and batteries are installed, you can operate its motorized functions.

- **Power On/Off:** Locate the switch on the 6V electrical motor to turn the power on or off.
- **Variable Speed Control:** The motor features variable speed control. Adjust the speed using the designated control mechanism on the motor unit, if applicable to your specific model build.
- **Working Lights:** The integrated LED light piping will illuminate when the motor is powered on, providing working head and taillights for your model.
- **Movement:** Depending on the model built, the motor will drive wheels or other mechanisms to create movement. Ensure the model is placed on a flat, clear surface for optimal operation.



Image: A detailed side profile of the assembled MECCANO Supercar, highlighting the wheels, chassis, and overall aerodynamic shape.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your MECCANO kit.

- **Cleaning:** Use a soft, dry cloth to wipe down parts. Avoid using harsh chemicals or abrasive materials.
- **Storage:** When not in use, store the kit and assembled models in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Remove batteries from the motor if the kit will not be used for an extended period to prevent leakage. Replace depleted batteries promptly.
- **Part Inspection:** Periodically check all nuts and bolts to ensure they are securely fastened. Tighten any loose connections using the provided tools.

TROUBLESHOOTING

If you encounter issues with your MECCANO kit, refer to the following common solutions:

Problem	Possible Cause	Solution
Motor not working / Lights not illuminating	Dead or incorrectly installed batteries; loose electrical connection.	Check battery polarity and replace with fresh AAA batteries. Ensure all wires and connections to the motor and LEDs are secure.
Model does not move smoothly	Loose parts; friction from misaligned components.	Inspect all connections and tighten any loose nuts or bolts. Verify that all parts are assembled according to the instructions and are not causing undue friction.
Missing or damaged parts	Manufacturing defect; accidental loss.	Contact Spin Master customer support for assistance with replacement parts.

SPECIFICATIONS

- **Product Dimensions:** 14.93 x 2.63 x 9.75 inches (37.92 x 6.68 x 24.76 cm)
- **Item Weight:** 2.03 pounds (0.92 kg)
- **Model Number:** 6062054

- **Manufacturer Recommended Age:** 10 years and up
- **Batteries Required:** 4 AAA batteries (not included)
- **Release Date:** July 1, 2021
- **Manufacturer:** Spin Master



Image: A collage showcasing various models that can be constructed using the MECCANO 25-in-1 kit, demonstrating its versatility.

WARRANTY AND SUPPORT

This product is covered by the Spin Master Care Commitment. For detailed warranty information, support, or to inquire about replacement parts, please visit the official Spin Master website or contact their customer service department.

For additional instructions for models beyond the initial three, please visit the official MECCANO website.