

**MECCANO 6047096**

# MECCANO Erector Geared Machines S.T.E.A.M. Building Kit Instruction Manual

Model: 6047096

## 1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your MECCANO Erector Geared Machines S.T.E.A.M. Building Kit. This kit is designed to introduce principles of science, technology, engineering, arts, and mathematics through hands-on construction. It allows for the creation of multiple functional models using real tools, metal, and plastic parts.

## 2. SAFETY INFORMATION

- **Age Recommendation:** This kit is recommended for ages 10 and up. Adult supervision is advised for younger users.
- **Small Parts:** The kit contains small parts which may pose a choking hazard. Keep away from small children.
- **Tools:** Use the included tools carefully. Avoid applying excessive force.
- **Batteries:** Requires 4 AA batteries (not included). Ensure correct polarity when inserting batteries. Do not mix old and new batteries, or different types of batteries. Remove batteries if the toy is not used for an extended period.
- **Moving Parts:** Keep fingers and hair away from moving gears and motor components during operation.

## 3. PARTS LIST

Your MECCANO Erector Geared Machines kit includes the following components:

- 191 assorted parts (metal strips, plastic connectors, gears, nuts, bolts)
- 1 Maker Tool
- 6 Blueprints for various models
- 1 Instruction Manual (this document)



## 4.2. The Maker Tool

The innovative Maker Tool is a multi-functional device designed to enhance your building experience. It features a multi-spaced hole-punch, edge guide, screw gauge, and scorer, allowing you to integrate custom parts made from materials like cardboard or foam into your creations.



Figure 4.1: The essential tools for assembly: the multi-functional Maker Tool, a wrench, and a screwdriver.



Figure 4.2: The Maker Tool being used to punch holes in a piece of cardboard, illustrating its custom part creation capability.

### 4.3. Blueprints and Creative Building

The kit includes 6 detailed blueprints to guide you in building specific models. Additionally, the open-ended nature of the Erector system encourages creative building beyond the provided instructions. You can disassemble models and reuse parts to create entirely new designs.



Figure 4.3: A collection of blueprints illustrating various potential models, from vehicles to robotic creatures, that can be constructed.



**Figure 4.4:** A young builder meticulously connecting components, demonstrating the hands-on nature of the assembly process.

**Video 4.1:** An official product video from Spin Master, Inc. showcasing the Erector by Meccano kit and various models in action, highlighting the dynamic possibilities of the building system.

## 5. SETUP

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Before operating any motorized models, ensure that 4 AA batteries are correctly installed in the designated battery compartment. Refer to the specific model's instructions for battery placement and motor connection.

## 6. OPERATING YOUR MODELS

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Many models built with this kit feature motorized components, allowing for dynamic movement and interaction. Once assembled and batteries are installed, activate the motor as indicated in the specific model's blueprint. Observe the gears and linkages working together to bring your creation to life.

## 7. MAINTENANCE

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- **Storage:** Store all parts, tools, and instructions in a dry, safe place to prevent loss or damage. The original packaging can serve as a convenient storage solution.

- **Cleaning:** Wipe parts with a dry or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check for any loose connections or damaged parts. Replace or repair as necessary.

## 8. TROUBLESHOOTING

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- **Model Not Moving:**
  - Check if batteries are correctly installed and charged.
  - Ensure all motor connections are secure.
  - Verify that gears are properly aligned and not jammed.
  - Confirm that no parts are obstructing the movement of the motor or gears.
- **Parts Missing:** Carefully check all packaging materials. If parts are genuinely missing, contact customer support.
- **Difficulty Assembling:** Review the specific step in the blueprint. Ensure you are using the correct parts and tools. Sometimes, a fresh perspective or a short break can help.

## 9. SPECIFICATIONS

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Feature	Detail
Product Dimensions	6.9 x 9.9 x 2.5 inches
Item Weight	1.03 pounds
Model Number	6047096
Recommended Age	10 - 12 years
Manufacturer	Spin Master
Power Source	4 AA batteries (not included)

## 10. WARRANTY INFORMATION

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Specific warranty details are not provided in the product information. Please refer to the product packaging or contact the manufacturer directly for warranty inquiries.

## 11. CUSTOMER SUPPORT

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For further assistance, missing parts, or technical support, please refer to the contact information provided on the product packaging or visit the official MECCANO website.