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## Clementoni 75070TR

# Clementoni Mechanics Lab NASA Mars Rover 75070TR Instruction Manual

Model: 75070TR | Brand: Clementoni

## INTRODUCTION

Welcome to the Clementoni Mechanics Lab NASA Mars Rover 75070TR. This kit allows you to construct and operate a detailed model of a NASA Mars transport rover. It features 230 interchangeable components, enabling the creation of 20 different models, including a motor-driven rover with counter-steering and a mini-exploration lunar rover. This manual provides essential instructions for assembly, operation, and maintenance.

## SAFETY INFORMATION

Please read all instructions before assembly and operation.

- Recommended for ages 8 and up. Adult supervision is advised for younger users.
- Keep small components away from young children to prevent choking hazards.
- Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
- Dispose of batteries responsibly according to local regulations.
- Ensure all connections are secure before operating the motor.

## PACKAGE CONTENTS

Verify that all components are present before beginning assembly.

- 230 interchangeable components
- Electric motor
- Instruction booklet
- *Note: 4 AA batteries are required and not included.*



Image showing the Clementoni Mechanics Lab NASA Mars Rover kit box, displaying the main rover model, a mini-rover, and highlighting the 230 components and electric motor. The box also indicates '8+' age recommendation and '20 Models'.

## SETUP AND ASSEMBLY

Follow the step-by-step instructions provided in the included booklet for initial model construction.

1. Unpack all components and organize them for easy access.
2. Refer to the instruction booklet for detailed assembly diagrams.
3. Install 4 AA batteries (not included) into the designated battery compartment of the electric motor. Ensure correct polarity.
4. Connect the motor to the assembled components as indicated in the manual.
5. For additional model variations and 3D instructions, download the free Clementoni app.



Image of the fully assembled Clementoni Mechanics Lab NASA Mars Rover and its accompanying mini-exploration lunar rover. The main rover features large wheels, a detailed cabin, and solar panel elements, demonstrating the completed construction.

## OPERATING INSTRUCTIONS

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Once assembled, the Mars Rover can be operated using its motor-driven system.

1. Ensure batteries are correctly installed and fully charged.
2. Locate the power switch on the electric motor and turn it to the 'ON' position.
3. Observe the motor's function and the movement of the rover.
4. The rover features counter-steering front and rear wheels, allowing for dynamic movement.
5. Experiment with different terrains suitable for indoor play.

## MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your Mars Rover.

- Keep the components clean and free from dust and debris. Use a dry cloth for cleaning.
- If the rover will not be used for an extended period, remove the batteries to prevent leakage.
- Store the kit in a cool, dry place away from direct sunlight.
- Regularly check for loose connections or damaged parts. Replace any damaged components if necessary.

## TROUBLESHOOTING

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- **Rover does not move:**
  - Check if batteries are installed correctly and are not depleted.
  - Ensure the power switch is in the 'ON' position.

- Verify all motor connections are secure.
- Confirm no components are obstructing the gears or wheels.
- **Motor sounds weak or slow:**
  - Replace batteries with new ones.
  - Check for any friction or resistance in the moving parts.
- **Parts do not fit together:**
  - Refer to the instruction booklet to ensure correct component identification and orientation.
  - Do not force parts together; re-examine the assembly steps.

## SPECIFICATIONS

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- **Model Number:** 75070TR
- **Brand:** Clementoni
- **Product Dimensions:** 7 x 45.1 x 31.1 cm (approx. 17.8" x 12.2" x 2.8")
- **Weight:** 1.2 kg
- **Number of Components:** 230
- **Power Source:** 4 AA batteries (not included)
- **Recommended Age:** 8+ years
- **Material:** Plastic
- **Educational Objective:** Creative Thinking
- **Language of Manual:** English

## WARRANTY AND SUPPORT

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For warranty information or technical support, please contact Clementoni customer service. Refer to the packaging or Clementoni's official website for contact details. Keep your purchase receipt as proof of purchase.