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› 4M Tin Can Cable Car Instruction Manual - Model 5575

## 4M 5575

# 4M Tin Can Cable Car Instruction Manual

Model: 5575

Brand: 4M

## 1. INTRODUCTION

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The 4M Tin Can Cable Car kit allows you to transform a recycled soda can into a functioning cable car. This mechanical science project is designed to provide an engaging and educational experience, demonstrating basic engineering principles. It is recommended for ages 8 years and up.

## 2. SAFETY INFORMATION

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- **Adult Supervision:** Adult assistance may be required for assembly and operation, especially for younger users.
- **Small Parts:** This kit contains small parts which may pose a choking hazard for children under 3 years of age. Keep all components out of reach of small children.
- **Battery Safety:** Use only the specified battery type (2 AAA, 1.5V batteries). Do not mix old and new batteries, or different types of batteries. Insert batteries with correct polarity. Remove exhausted batteries promptly. Do not short-circuit battery terminals.
- **Screwdriver Use:** Exercise caution when using a screwdriver during assembly.

## 3. PACKAGE CONTENTS

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This kit includes all the necessary parts to construct one (1) cable car. Please verify all components are present before beginning assembly.



Figure 1: All parts included in the 4M Tin Can Cable Car kit.

- Cable car body components
- Motor and gear assembly
- Wheels and axles
- String for cable
- Screws and fasteners
- Detailed assembly instructions

#### 4. MATERIALS REQUIRED (NOT INCLUDED)

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- Two (2) AAA, 1.5V batteries
- One (1) small cross-head screwdriver
- One (1) clean, empty soda can (standard size)

#### 5. ASSEMBLY INSTRUCTIONS

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Follow the detailed instructions provided in the kit. The general steps involve:

1. Prepare the soda can by ensuring it is clean and dry.
2. Assemble the motor and gear mechanism according to the diagrams.
3. Attach the wheels and axles to the main body of the cable car.
4. Integrate the soda can into the cable car structure.
5. Install the batteries into the designated compartment.
6. Thread the cable string through the pulleys.

For a visual guide on assembly, please refer to the official product overview video:

Your browser does not support the video tag.

Video 1: Official Product Overview, demonstrating the assembly and function of the 4M Tin Can Cable Car. (Source: Amazon Product Imaging)

## 6. OPERATING INSTRUCTIONS

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1. **Set up the Cable:** Securely string the provided cable between two points. Ensure the cable is taut and clear of obstructions.
2. **Place the Cable Car:** Carefully place the assembled Tin Can Cable Car onto the taut cable, ensuring the wheels are properly seated on the string.
3. **Activate:** Turn on the cable car using the switch (if applicable, refer to kit instructions for exact location). The motor will engage, and the cable car will begin to travel along the string.
4. **Observe:** Watch as the cable car moves, demonstrating the principles of pulley systems and motor mechanics.

# KidzRobotix™

## TIN CAN CABLE CAR

Recycle a drink can to make a unique cable car. Install it in your bedroom and watch it run to and fro, up and down. It's a cool mechanical science project.

**STEAM**™  
POWERED KIDS  
Science. Technology. Engineering. Art. Maths



- TELEPHÉRIQUE CANETTE
- BLECHDOSEN-SEILBAHN
- TIN CAN CABLE CAR
- FUNIVIA CON BARATTOLI
- TELESFÉRICO DE HOJALATA
- フリキ缶ロープウェイ

FOR AGES OVER 8

**WARNING:**  
CHOKING HAZARD - Small parts.  
Not for children under 3 years.



**4M**

Figure 2: Children observing the 4M Tin Can Cable Car in action.

## 7. MAINTENANCE

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- **Cleaning:** Wipe the cable car components with a dry cloth. Do not use water or cleaning solutions directly on electronic parts.
- **Battery Replacement:** Replace AAA batteries when the motor performance diminishes. Always replace both batteries at the same time.
- **Storage:** Store the cable car and its components in a dry, cool place away from direct sunlight when not in use.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Cable car does not move.	Batteries are dead or incorrectly installed.	Check battery polarity and replace with fresh AAA batteries.
Cable car moves slowly.	Low battery power; cable is not taut enough; excessive friction.	Replace batteries. Ensure cable is tightly stretched. Check for any parts rubbing.
Cable car falls off the string.	Cable not properly installed in pulleys; cable is too loose.	Re-seat the cable in all pulleys. Tighten the cable.
Motor makes noise but cable car doesn't move.	Gears are jammed or not properly engaged.	Inspect the gear assembly for obstructions or misalignment.

## 9. SPECIFICATIONS

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- **Product Dimensions:** 8.5 x 1 x 10.75 inches
- **Item Weight:** 4.8 ounces
- **Model Number:** 5575
- **Recommended Age:** 8 - 15 years
- **Batteries Required:** 2 AAA batteries (not included)

## 10. WARRANTY AND SUPPORT

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For any questions, missing parts, or support regarding your 4M Tin Can Cable Car, please refer to the contact information provided in your product packaging or visit the official 4M website. Keep your purchase receipt for warranty purposes.