

# Small Crawlers with Wire Remote Control: Enhanced Assembly Manual

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## Introduction

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This manual provides clear, step-by-step instructions for assembling your **Small Crawlers with Wire Remote Control** kit. This project will guide you through building a miniature remote-controlled vehicle, offering an engaging introduction to basic mechanics and electronics. Please review all instructions carefully before beginning assembly.

## Components Overview

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While a detailed list of individual components with specific names (e.g., “I” part, “E” screw, “F” shaft) is provided within the assembly steps, the kit generally includes:

- **Motor:** The primary power source for the crawler’s movement.
- **Wheels:** Yellow wheels designed for traction and movement.
- **Axles and Sleeves:** Components for connecting and securing the wheels.
- **Green Boards/Plates:** Structural elements of the crawler’s chassis.
- **Screws:** Various types (e.g., Long screw “B”, “E” screw, short screw, “A” screw) for fastening parts.
- **Remote Control Box:** For controlling the crawler’s movement.
- **Miscellaneous Parts:** Including the “I” part, “H” part, and “J” part, which are specific structural or functional components.

## Assembly Instructions

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Follow these steps sequentially to build your small crawler robot.

## Step 1: Identify All Components

Begin by laying out and identifying all the components included in your kit. Refer to the visual guide in the original instructions to familiarize yourself with each part, especially the motor, wheels, various plates, axles, screws, and the remote control box.

## Step 2: Install the “I” Part onto the Motor

Take the component referred to as the “I” **part** and install it onto the motor. Use the **Long screw “B”** to secure this connection firmly.

## Step 3: Attach the Yellow Wheel to the Motor

Using the “E” **screw**, attach a **Yellow wheel** to the motor. Ensure that the hole on the Yellow wheel faces **outward** (towards the outside of the assembly) for correct orientation.

## Step 4: Assemble the Axle Sleeve and “I” Board

Install an **Orange axle sleeve** onto the shaft. Then, carefully install this assembly onto the “I” **board**, utilizing the **outermost hole** for placement. This step ensures the axle is properly positioned.

## Step 5: Note the “F” Axis Position on the Wheel

Observe the “F” **axis** on the wheel. It is important to note that the holes on the two wheels are **symmetrical**. This symmetry is crucial for the balanced movement of the crawler.

## Step 6: Mount the Green Board onto the Yellow Wheel with the “F” Shaft

Install a **green board** onto the Yellow wheel. This connection is made using the “F” **shaft**. Ensure that the axle passes through the **long slit** on the green board. Pay attention to the alignment and content of Step 5 for proper positioning.

## Step 7: Secure the “H” Part to the Green Board

Attach the “H” part onto the green board. Use the “A” screw to secure it, making sure to use the **top two holes** for this connection.

## Step 8: Install the “J” Part onto the “H” Plate

Install the “J” part onto the “H” plate using a **short screw**. This step further connects the structural elements of the crawler.

## Step 9: Attach the Decorative Eyes to the Motor

Finally, glue the decorative eyes onto the motor. This adds a finishing touch to your small crawler robot. The final assembly should show the robot with the remote control box connected, ready for operation.

## Notes and Tips

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- **Visual Reference:** Always refer to the provided images in the original manual for visual guidance on component identification and assembly steps.
- **Symmetry:** Pay close attention to symmetrical parts, such as the wheels, to ensure balanced and correct assembly.
- **Screw Usage:** Use the specified screws for each step (e.g., Long screw “B”, “E” screw, short screw, “A” screw) to ensure proper fit and stability.
- **Remote Control Connection:** Ensure the remote control box is properly connected to the motor for the crawler to function.