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## HIMOTO EXB-16

# Himoto EXB-16 4WD 1/6 Off-Road Buggy Chassis Instruction Manual

Model: EXB-16

## INTRODUCTION

This manual provides essential instructions for the assembly, setup, operation, and maintenance of your Himoto EXB-16 4WD 1/6 Off-Road Buggy Chassis. This product is a mechanical kit and requires the separate purchase and installation of electronic components (motor, ESC, servo, receiver, battery) to become a functional remote-controlled vehicle. Please read this manual thoroughly before proceeding with any steps.

### Important Safety Information:

- Always operate the vehicle in a safe and open area, away from people, pets, and obstacles.
- Ensure all components are securely fastened before operation.
- Keep hands and loose clothing away from moving parts.
- This product is not a toy and is intended for users with experience in RC vehicle assembly and operation.

## PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- Himoto EXB-16 4WD 1/6 Off-Road Buggy Chassis (unassembled or partially assembled)
- Wheels and Tires (4x)
- Shock Absorbers (4x)
- Drive Shafts and Differentials
- Steering Linkages
- Hardware (screws, nuts, washers, pins)
- Pinion Gear and Motor Mount (if included)
- Instruction Manual (this document)



Image 1: Overview of the Himoto EXB-16 4WD 1/6 Off-Road Buggy Chassis. This image displays the main chassis, suspension, wheels, and body mounts.

## SETUP AND ASSEMBLY

This section outlines the general steps for assembling the Himoto EXB-16 chassis and installing necessary electronic components. Refer to detailed diagrams for specific part identification.

1. **Chassis Assembly:** Securely attach the front and rear suspension arms, shock towers, and bulkheads to the main chassis plate using the provided screws. Ensure all pivot points move freely without excessive play.
2. **Differential and Drive Train Installation:** Install the front and rear differentials into their respective bulkheads. Connect the center drive shaft between the front and rear gearboxes. Ensure smooth rotation of all gears.
3. **Shock Absorber Installation:** Fill the shock absorbers with appropriate shock oil (not included) and install them onto the shock towers and suspension arms. Adjust spring preload as desired.
4. **Steering System:** Assemble the steering linkages and connect them to the front knuckles. Install the steering servo (not included) onto the chassis and connect it to the steering bellcrank.
5. **Motor and ESC Installation:** Mount your chosen brushless or brushed motor (not included) to the motor mount. Install the pinion gear (provided or purchased separately) onto the motor shaft and adjust the gear mesh with the spur gear. Secure the Electronic Speed Controller (ESC, not included) to the chassis.
6. **Receiver and Battery Tray:** Install the RC receiver (not included) in a waterproof receiver box if available. Secure the battery tray and strap for your chosen battery pack (not included).
7. **Wheel and Tire Mounting:** Attach the wheels and tires to the wheel hexes. Ensure wheel nuts are tightened securely but not overtightened.
8. **Body Mounting:** Secure the body posts and attach the body shell (not included) using body clips.



Image 2: Side view of the Himoto EXB-16 chassis, highlighting the suspension and drive train components.

## OPERATING GUIDELINES

Once fully assembled with electronics, follow these general guidelines for operating your Himoto EXB-16 buggy.

- **Pre-Run Check:** Before each use, inspect all screws, nuts, and linkages for tightness. Check tire condition and ensure the battery is fully charged.
- **Initial Power-Up:** Turn on the transmitter first, then the vehicle's ESC. Reverse this order when powering down.
- **Driving Environment:** Operate the buggy in open, clear areas. Avoid water, deep mud, or extremely dusty conditions unless the electronics are specifically rated for such environments.
- **Control:** Practice smooth throttle and steering inputs. Avoid sudden, aggressive maneuvers that can damage components.
- **Battery Management:** Do not over-discharge your battery. Stop operation when you notice a significant drop in performance.



Image 3: Top-down view of the Himoto EXB-16 chassis, showing the layout for electronic components and the central drive shaft.

## MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your Himoto EXB-16 buggy.

1. **Post-Run Cleaning:** After each use, especially in dirty conditions, clean the chassis with a soft brush or compressed air. Remove any debris from moving parts.
2. **Inspection:** Regularly inspect for worn or damaged parts, including tires, suspension components, gears, and drive shafts. Replace damaged parts promptly.
3. **Lubrication:** Apply appropriate grease or oil to moving metal-on-metal parts, such as universal joints and differential gears, as needed. Avoid over-lubrication.
4. **Shock Absorbers:** Check shock oil levels and replace if necessary. Inspect O-rings for leaks.
5. **Fasteners:** Periodically check and tighten all screws and nuts. Use thread-locking compound on metal-to-metal screws where appropriate (e.g., motor mount screws).



Image 4: Rear view of the Himoto EXB-16 chassis, showing the rear wing mount and suspension.

## TROUBLESHOOTING

This section addresses common issues you might encounter with the mechanical aspects of your Himoto EXB-16 buggy.

Problem	Possible Cause	Solution
Excessive play in suspension	Worn pivot balls, loose screws, bent suspension pins	Inspect and replace worn parts. Tighten screws.
Grinding noise from drivetrain	Improper gear mesh, damaged gears, debris in gearbox	Adjust gear mesh. Inspect and replace damaged gears. Clean gearbox.
Vehicle pulls to one side	Uneven shock settings, bent steering linkage, damaged wheel bearing	Adjust shock preload. Inspect and replace bent parts. Check wheel bearings.
Wheels wobble	Loose wheel nuts, bent wheel axle, damaged wheel hex	Tighten wheel nuts. Inspect and replace bent or damaged parts.

## SPECIFICATIONS

Key specifications for the Himoto EXB-16 4WD 1/6 Off-Road Buggy Chassis:

- **Model:** EXB-16

- **Scale:** 1/6
- **Drive System:** 4WD (Four-Wheel Drive)
- **Chassis Material:** Aluminum, Nylon
- **Type:** Off-Road Buggy Chassis (Mechanical Kit)
- **Required for Operation (Not Included):** Motor, ESC, Steering Servo, RC Receiver, Transmitter, Battery, Charger, Body Shell.



*Image 5: Close-up of the pinion gear and various screws included with the Himoto EXB-16 chassis. These are essential for motor installation and general assembly.*

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Himoto website or contact your authorized Himoto dealer. Keep your proof of purchase for any warranty claims.

### Contact Information:

- **Manufacturer:** HIMOTO
- **Website:** [www.himotoracing.it](http://www.himotoracing.it)
- **Dealer:** Refer to your point of purchase.