INJORA SCX24-120

INJORA Carbon Fiber Low Center of Gravity Chassis Kit

Model: SCX24-120

1. Introduction

This instruction manual provides guidance for the installation, operation, and maintenance of the INJORA Carbon Fiber Low Center of Gravity (LCG) Chassis Kit. This kit is designed to enhance the performance of compatible 1/24 scale RC crawlers by lowering the center of gravity and offering improved suspension tuning options.
The chassis is constructed from high-quality carbon fiber material, ensuring durability and a lightweight design. It is compatible with stock SCX24 components and offers numerous shock mounting points for advanced customization.

2. Product Overview

The INJORA Carbon Fiber LCG Chassis Kit is an upgrade part for specific Axial SCX24 models. Its primary function is to lower the vehicle's center of gravity, which contributes to stronger climbing ability and overall improved performance on challenging terrains.

- **Material:** High-quality carbon fiber for strength and light weight.
- **Design:** Features a 6° angle design to achieve a lower center of gravity.
- **Compatibility:** Designed for Axial SCX24 Deadbolt, JLU, C10, Bronco, and 4Runner. **Note:** This chassis does not fit the SCX24 Gladiator.
- **Adjustability:** Includes multiple shock mounting points for fine-tuning suspension.



Figure 2.1: Overall view of the INJORA Carbon Fiber LCG Chassis Kit.

3. Package Contents

Upon opening the package, verify that all components are present and undamaged:

- SCX24 Carbon Fiber Chassis Kit (includes main chassis rails, cross members, and hardware)



Figure 3.1: Included components of the chassis kit.

4. Setup and Installation

Installation of the LCG chassis requires careful disassembly and reassembly of your RC crawler. It is recommended to have basic RC assembly knowledge and appropriate tools (e.g., small hex drivers, tweezers).

1. **Disassembly:** Carefully remove the body, wheels, and all electronic components (motor, servo, ESC/receiver, battery) from your existing SCX24 chassis. Detach the axles, links, and shocks from the stock chassis rails. Keep all screws and small parts organized.
2. **Chassis Assembly:** Assemble the carbon fiber chassis rails with the provided cross members and hardware. Ensure all screws are tightened securely but do not overtighten to avoid damaging the carbon fiber.
3. **Component Mounting:**
    - **Axles and Links:** Attach your existing axles and suspension links to the new chassis.
    - **Shocks:** Mount the shocks to the desired mounting points on the chassis. The kit offers numerous options for tuning. Experiment with different positions to achieve optimal articulation and ride height. Consider using longer shocks (e.g., 43mm or more) if you experience limited rebound travel or desire a higher ride height with a stock body.
    - **Motor and Transmission:** Install the motor and transmission assembly. Verify clearance, especially for larger motors (e.g., 050 size).
    - **Electronics:** Mount the servo, ESC/receiver, and battery. The chassis typically provides designated areas for

these components. Some users may find that the battery tray requires minor adjustments or alternative mounting methods (e.g., Velcro) for a secure fit.

4. **Final Checks:** Before operating, ensure all connections are secure, wires are routed safely, and there is no binding in the suspension or drivetrain. Test the steering and throttle response.



Figure 4.1: Multiple shock mounting locations for suspension tuning.

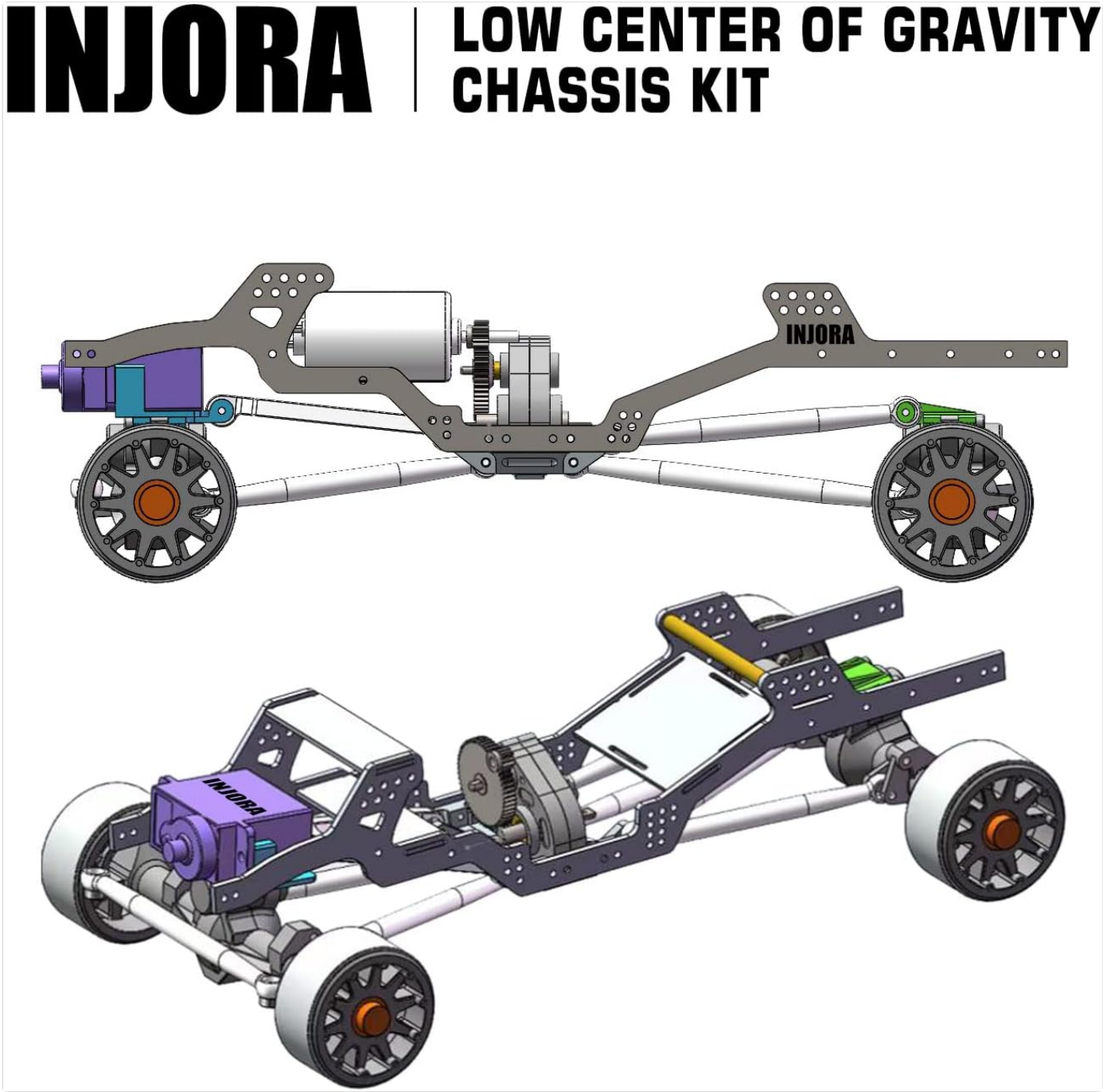


Figure 4.2: Illustrative diagram of a fully assembled chassis with components.

5. Operating Considerations

The INJORA LCG chassis is designed to improve the crawling performance of your RC vehicle. Due to the lower center of gravity, you may notice enhanced stability on inclines and improved ability to navigate obstacles. Adjustments to shock mounting points, spring rates, and tire choice can further optimize performance for specific terrains.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your carbon fiber chassis:

- **Cleaning:** After each use, especially in dirty or wet conditions, clean the chassis with a soft brush or compressed air to remove dirt and debris. Avoid harsh chemicals.
- **Inspection:** Periodically inspect the carbon fiber for any signs of damage, cracks, or delamination. Check all screws for tightness, as vibrations during operation can cause them to loosen.

- **Hardware:** Ensure all nuts and bolts are secure. If any screws feel loose or stripped, replace them promptly. Consider using a thread-locking compound on critical fasteners.

7. Troubleshooting

- **Difficulty with Battery Tray Fit:** If the battery tray does not fit perfectly, minor adjustments or alternative securing methods (e.g., strong double-sided tape or Velcro straps) may be necessary. Ensure the battery is securely mounted to prevent movement during operation.
- **Motor Clearance Issues:** Some larger motors (e.g., 050 size) may have tight clearance with chassis components. Verify proper fitment during installation and adjust component placement if possible.
- **Limited Suspension Travel/Incorrect Ride Height:** This can often be resolved by adjusting the shock mounting points on the chassis. Experiment with different holes to find the optimal setup. Using longer shocks may also be beneficial for achieving desired ride height and articulation.
- **Loose Screws:** Regularly check and tighten all screws. For persistent loosening, a small amount of non-permanent thread locker can be applied.

8. Specifications

Feature	Specification
Product Dimensions	7.09 x 0.79 x 2.36 inches (180mm x 20mm x 60mm)
Item Weight	1.13 ounces (32 grams)
Item Model Number	SCX24-120
Manufacturer	INJORA
Recommended Age	14 years and up

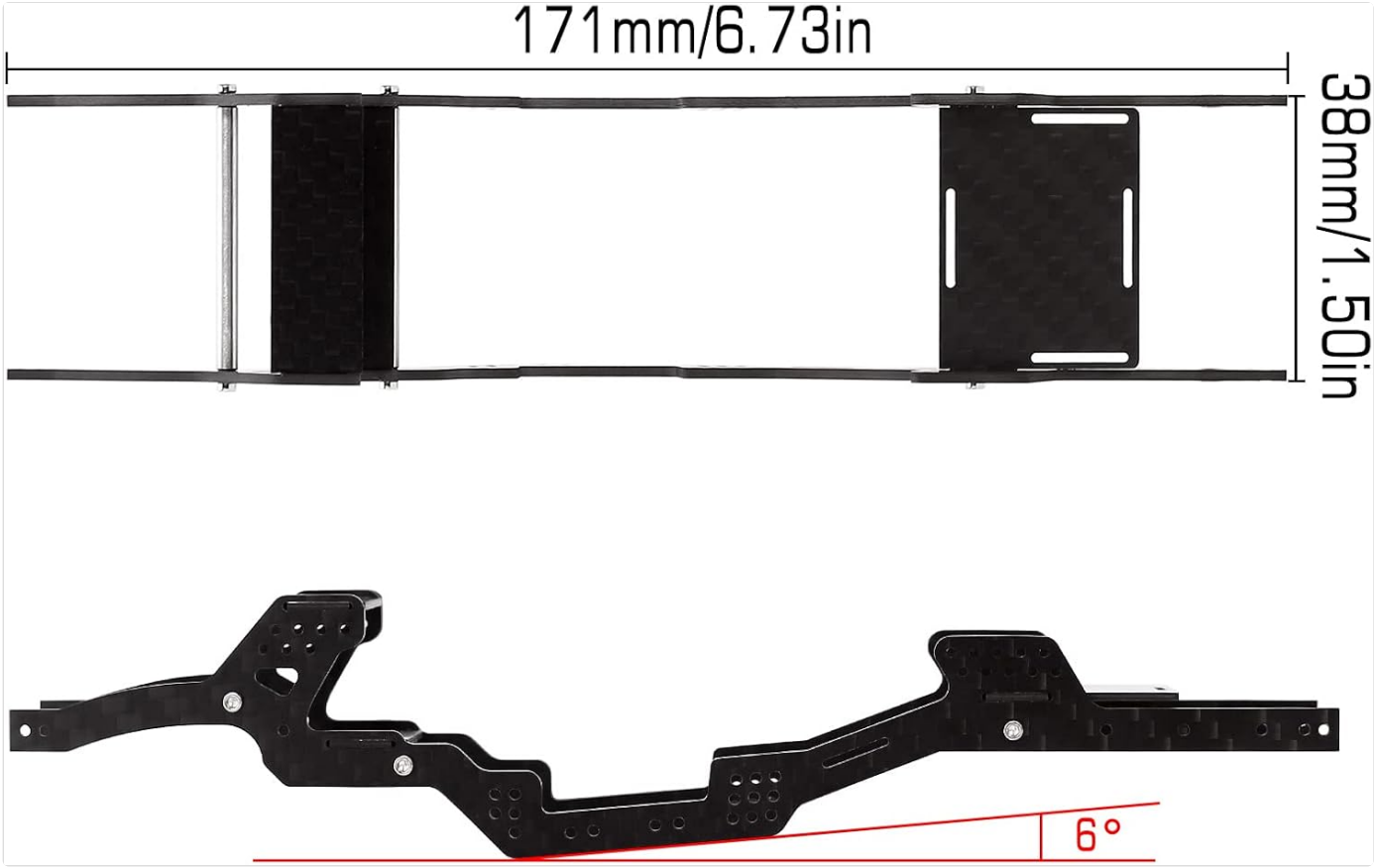


Figure 8.1: Chassis dimensions and 6° angle.

9. Warranty and Support

Specific warranty information for the INJORA Carbon Fiber LCG Chassis Kit is not provided in this manual. For details regarding warranty coverage, returns, or technical support, please refer to the INJORA official website or contact the seller directly through your purchase platform.

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