

## Carson 500907730

# Carson 500907730 1:14 3-Axle Trailer Chassis Ver.III Instruction Manual

## INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the Carson 500907730 1:14 3-Axle Trailer Chassis Ver.III. This product is a high-quality, torsion-resistant steel frame chassis designed for 1:14 scale RC trucks, offering a robust foundation for custom trailer bodies.

Key features include:

- Torsion-resistant steel frame constructed from 3 and 1 mm laser-cut steel for maximum strength.
- New axle suspension system with an optional +8 mm lift-up capability for versatile applications.
- Solid underrun protection made of steel on both left and right sides.
- Ball bearing chrome rims with wide tires for smooth rolling.
- Steel spare wheel holder complete with a spare wheel.
- Aluminum bumper equipped with 7-chamber rear lights.
- Mudguard halves for all axles.

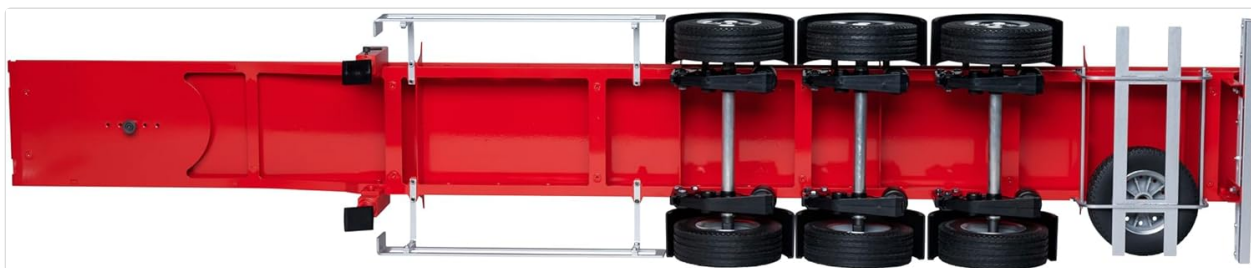


Figure 1: The Carson 1:14 3-Axle Trailer Chassis Ver.III connected to a compatible RC truck, showcasing its overall design and scale.

## SAFETY INFORMATION

**Warning:** This product is not suitable for children under 14 years of age. It contains small parts and requires assembly, which may pose a choking hazard or require advanced dexterity. Adult supervision is recommended during assembly and operation.

## WHAT'S IN THE BOX

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The package contains the Carson 500907730 1:14 3-Axle Trailer Chassis Ver.III. This includes the pre-fabricated steel frame, axles, wheels, underrun protection, bumper with lights, spare wheel holder, and mudguards, along with necessary fasteners and assembly instructions.

## SETUP AND ASSEMBLY

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The Carson 3-Axle Trailer Chassis is designed for assembly and customization. Before beginning, carefully unpack all components and verify against the parts list provided in the separate assembly diagrams. Ensure you have all necessary tools, such as small screwdrivers and pliers.

1. **Frame Assembly:** Begin by assembling the main torsion-resistant steel frame components. Ensure all laser-cut parts fit securely and are fastened according to the diagrams.
2. **Axle and Suspension Installation:** Attach the three axles to the chassis frame. Pay close attention to the new axle suspension system, ensuring correct orientation for the optional +8 mm lift-up feature if desired.
3. **Wheel Mounting:** Mount the ball bearing chrome rims with wide tires onto the axles. Ensure they rotate freely without obstruction.
4. **Underrun Protection and Bumper:** Install the solid steel underrun protection on both sides and attach the aluminum bumper with 7-chamber rear lights to the rear of the chassis.
5. **Spare Wheel and Mudguards:** Secure the spare wheel in its steel holder and attach the mudguard halves over each wheel set.
6. **Final Checks:** Before attaching a custom body or connecting to an RC truck, perform a thorough check of all fasteners to ensure they are tight and all moving parts operate smoothly.



Figure 2: Underside view of the chassis, highlighting the robust steel frame and axle suspension system.



Figure 3: Detail of the adjustable support legs, crucial for stable parking and coupling.

## OPERATING INSTRUCTIONS

Once the chassis is fully assembled and any custom bodywork is completed, it is ready for operation with a compatible 1:14 scale RC truck.

1. **Coupling:** Carefully back your RC truck up to the trailer chassis. Ensure the trailer's support legs are retracted or adjusted to the correct height for coupling. Securely attach the trailer to the truck's fifth wheel or coupling mechanism.
2. **Pre-Operation Check:** Before driving, manually check that all wheels on the trailer rotate freely and that the suspension system functions correctly. Verify that the trailer is securely attached to the truck.
3. **Driving:** Operate your RC truck and trailer with caution, especially when turning or reversing, as the added length and weight of the trailer will affect handling. Practice in an open area before operating in confined spaces.
4. **Uncoupling:** When uncoupling, ensure the trailer is on a level surface. Extend the support legs to stabilize the trailer before detaching it from the RC truck.



Figure 4: Rear view of the chassis, illustrating the aluminum bumper with 7-chamber rear lights and the spare wheel holder.

## MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your Carson 3-Axle Trailer Chassis.

- **Cleaning:** After each use, especially if operated outdoors, clean the chassis to remove dirt, dust, and debris. Use a soft brush or cloth. Avoid using harsh chemicals that could damage the paint or materials.
- **Inspection:** Periodically inspect all components for wear, damage, or loose fasteners. Pay particular attention to the axles, wheels, suspension components, and the coupling mechanism.
- **Lubrication:** Apply a small amount of appropriate lubricant to moving parts such as wheel bearings and suspension pivot points to ensure smooth operation and prevent corrosion.
- **Storage:** Store the trailer chassis in a clean, dry environment away from extreme temperatures and direct sunlight when not in use.



Figure 5: Detail of the three axles, wheels, and mudguards, emphasizing areas for regular inspection and cleaning.

TROUBLESHOOTING

This section addresses common issues you might encounter with your trailer chassis.

- **Trailer does not roll smoothly:** Check for debris caught in the wheel bearings or between the wheels and chassis. Inspect axles for any bending or damage. Ensure wheels are securely attached and not rubbing against mudguards or frame.
- **Uneven suspension:** Verify that all suspension components are correctly installed and not damaged. Check for any foreign objects obstructing the suspension travel.
- **Difficulty coupling/uncoupling:** Ensure the RC truck's coupling mechanism is functioning correctly. Adjust the trailer's support legs to the appropriate height for easy attachment or detachment.
- **Loose parts:** Regularly check all screws and fasteners. Tighten any that have become loose during operation.

SPECIFICATIONS

Specification	Detail
Product Dimensions	38.58 x 8.27 x 3.15 inches (98 x 21 x 8 cm)
Item Weight	12.23 pounds (5.55 kg)
Item Model Number	500907730
Manufacturer Recommended Age	14 years and up
Release Date	August 1, 2023

Manufacturer	CARSON
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## WARRANTY AND SUPPORT

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For information regarding product warranty, technical support, or spare parts, please refer to the official Carson website or contact Carson customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

**Contact Information:** Please visit the official Carson website for the most up-to-date contact details and support resources.