

INJORA INJS2065-360-115BK

INJORA Tow Truck Crane Kit & INJS2065-360 Winch Servo for TRX4M User Manual

Model: INJS2065-360-115BK

1. INTRODUCTION

Thank you for choosing the INJORA Tow Truck Crane Kit and INJS2065-360 Winch Servo. This product is designed to enhance your TRX4M remote control vehicle with functional towing and recovery capabilities. This manual provides detailed instructions for assembly, installation, operation, and maintenance to ensure optimal performance and longevity of your kit.

2. SAFETY INFORMATION

- Always operate RC vehicles in a safe environment, away from people, pets, and obstacles.
- Keep small parts out of reach of children to prevent choking hazards.
- Ensure all electrical connections are secure before operating to prevent short circuits or damage.
- Do not attempt to modify the components beyond their intended design, as this may void the warranty and cause malfunction.
- Disconnect power to the RC vehicle before performing any maintenance or adjustments.

3. PACKAGE CONTENTS

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

- INJS2065-360 Winch Servo
- Crane Kit (Aluminum components)
- Tow Hook
- Winch Rope
- Assembly Tools
- Instructions (this manual)
- Various screws, nuts, and small hardware for assembly

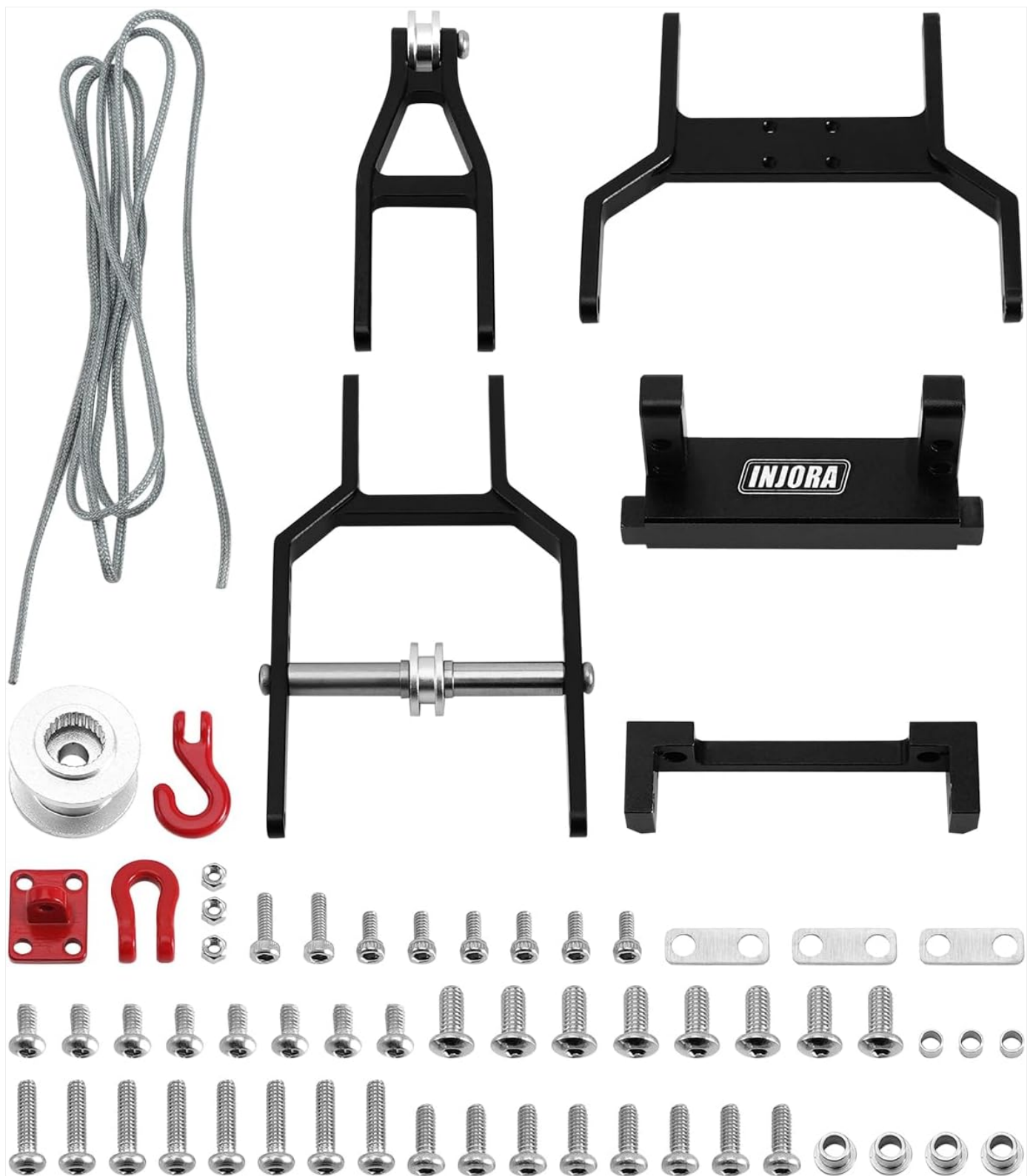


Figure 3.1: All components included in the INJORA Tow Truck Crane Kit, including aluminum frame parts, winch spool, tow hook, rope, and various assembly hardware.

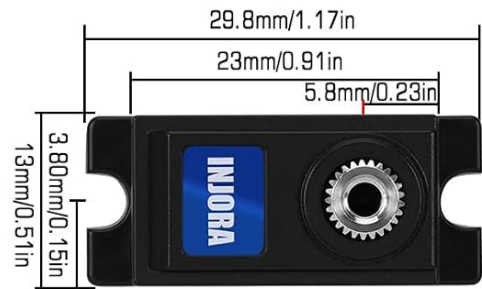
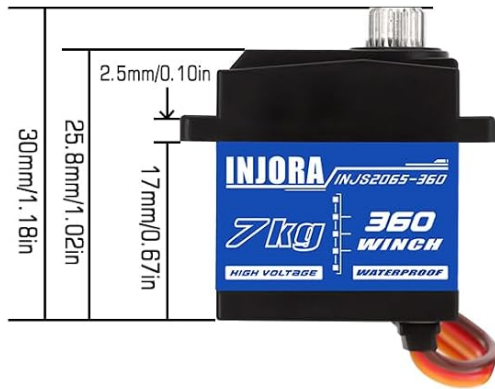
4. SPECIFICATIONS

4.1 Winch Servo Specifications (INJS2065-360)

Feature	Specification
Part Number	INJS2065-360

Feature	Specification
Output Spline	Φ5.9 25T
Dead band	2μs
Neutral Position	1500μs/330hz
Motor	Core Motor
Voltage Range	4.8V-8.4V
500-2500μs Angle	360 Continuous Rotation
Operating Speed (6.0V)	116 rpm
Operating Speed (8.4V)	163 rpm
Stall Torque (6.0V)	6.0 kg.cm
Stall Torque (8.4V)	7.0 kg.cm
Dimensions	23*13*25.8mm
Weight	20g
Connector Wire Length	JR 300mm
Bearing	1BB

Specifications



Dead band:	2 μ s	Neutral Position:	1500 μ s/330hz
Motor:	Core motor	Voltage range:	4.8V-8.4V
500 μ s-2500 μ s:	360 Continuous Rotation		
Operating Speed(6.0V):	116 rpm	Operating Speed(8.4V):	163 rpm
Stall Torque(6.0V):	6kg.cm	Stall Torque(8.4V):	7kg.cm
Bearing:	1BB	Connector Wire Length:	JR 300 mm
Weight:	20g	Dimensions:	23X13X25.8mm
Packing Weight:	28g	Package size:	36X23X38mm

Figure 4.1: A diagram illustrating the precise dimensions and technical specifications of the INJS2065-360 Winch Servo, including operating speed, stall torque, and voltage range.

4.2 Crane Kit Specifications

Feature	Specification
Part Number	4M-115
Material	Aluminum
Color	Black (also available in Silver)
Weight	32g
Winch Spool	25T
Rope Length	Approx. 63cm

5. SETUP AND INSTALLATION

Follow these steps to assemble and install your INJORA Tow Truck Crane Kit and Winch Servo:

1. **Prepare Your Vehicle:** Ensure your TRX4M chassis is clean and free of debris. This crane kit is designed for TRX4M stock chassis, INJORA Carbon Fiber Universal Chassis (4M-89), and Aluminum Universal Chassis (4M-111). It is compatible with INJORA IR40 and IR60 bodies. For other body shells, confirm sufficient installation space.
2. **Assemble the Crane Structure:** Using the provided assembly tools and hardware, connect the aluminum crane components according to the included diagrams. Ensure all screws are tightened securely but do not overtighten.
3. **Install the Winch Servo:** Mount the INJS2065-360 Winch Servo into the designated position within the crane structure. The servo features durable stainless steel gears for reliable operation.

Stainless Steel Gears



Figure 5.1: An exploded view of the INJS2065-360 Winch Servo, showcasing its durable stainless steel gears for reliable performance.

4. **Attach Winch Rope and Tow Hook:** Securely attach the winch rope to the winch spool and thread it through the crane mechanism. Attach the red tow hook to the end of the rope.
5. **Mount the Assembled Unit:** Install the complete crane and winch assembly onto your TRX4M chassis. Use the appropriate mounting points and hardware.
6. **Electrical Connection:** Connect the INJS2065-360 Winch Servo to your receiver. **Important Note:** This kit is not

compatible with the stock TRX4M transmitter and receiver. Your receiver must have a free channel, and your transmitter must have a knob-style control to operate the winch servo independently. We recommend using the INJORA T6 transmitter (Connect to CH5 or CH6) or a similar multi-channel system.



Figure 5.2: The INJORA Tow Truck Crane Kit and Winch Servo fully installed on an RC TRX4M model, demonstrating its functional appearance.

6. OPERATING INSTRUCTIONS

Once installed and connected, operate the winch servo using your compatible transmitter:

- **Transmitter Control:** Use the designated knob or switch on your multi-channel transmitter (e.g., INJORA T6) to control the winch servo. Turning the knob in one direction will extend the winch rope, and turning it in the opposite direction will retract it.
- **Winch Operation:** Extend the winch rope and attach the tow hook to the object you wish to tow or recover. Slowly retract the winch rope to pull the object. The INJS2065-360 servo provides powerful 7KG torque for recovery jobs.
- **Overload Protection:** The winch servo features smart current cutoff to help prevent damage under heavy load. If the winch

stops, reduce the load or check for obstructions.

- **Waterproof Design:** The INJS2065-360 Winch Servo has an IP66 waterproof design, allowing operation in wet and muddy conditions. Ensure all other electronic components of your RC vehicle are also protected if operating in such environments.



Figure 6.1: The INJORA INJS2065-360 Winch Servo demonstrating its IP66 waterproof design, suitable for wet and muddy conditions.

7. MAINTENANCE

Regular maintenance ensures the longevity and performance of your crane kit and winch servo:

- **Cleaning:** After use, especially in dirty or wet conditions, clean the crane kit and winch servo with a soft brush or cloth to remove dirt and debris. Avoid using harsh chemicals.
- **Inspection:** Periodically inspect all screws and connections for tightness. Check the winch rope for any signs of fraying or damage. Replace if necessary.
- **Lubrication:** The winch servo's internal gears are pre-lubricated. Avoid applying additional lubricants unless specifically recommended by INJORA.
- **Storage:** Store the kit in a dry, cool place away from direct sunlight when not in use.

8. TROUBLESHOOTING

If you encounter issues with your INJORA Tow Truck Crane Kit and Winch Servo, refer to the following:

Problem	Possible Cause	Solution
Winch/Crane not operating	• Incorrect transmitter/receiver setup • Loose electrical connection • No power to receiver • Servo damaged	• Ensure your transmitter has a knob-style control and your receiver has a free channel (not compatible with stock TRX4M TX/RX). • Check all servo connections to the receiver. • Verify the RC vehicle's battery is charged and connected. • If all else fails, contact support.
Winch rope skipping spool	• Improper rope tension or winding • Obstruction	• Adjust the winch rope to ensure it is properly spooled and tensioned. • Check for any debris or obstructions around the spool.
Winch stops under load	• Overload protection activated • Excessive load	• Reduce the load on the winch. • Ensure the object being pulled is not stuck or too heavy for the servo's 7kg torque rating.

9. WARRANTY AND SUPPORT

INJORA products are manufactured to high-quality standards. For any questions, technical assistance, or warranty claims, please contact INJORA customer support through the retailer where you purchased the product or visit the official INJORA website for contact information. Please retain your proof of purchase for warranty purposes.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question