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Jamara Jamara505547

Jamara Jamara505547 Alu Tiger 72T Main Gear Instruction Manual

Model: Jamara505547

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1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your Jamara Jamara505547 Alu Tiger 72T Main Gear. This component is designed for use in compatible remote-controlled (RC) models, ensuring reliable power transmission. Please read this manual thoroughly before installation to ensure safe and correct usage.



Image 1.1: The Jamara Alu Tiger 72T Main Gear. This image displays the main gear component, highlighting its tooth count and material construction.

2. SETUP AND INSTALLATION

2.1 Safety Precautions

- Always disconnect power from the RC model before beginning any installation or maintenance.
- Wear appropriate safety glasses to protect your eyes from small parts or debris.
- Keep small parts away from children.
- Refer to your RC model's specific manual for detailed disassembly and reassembly instructions.

2.2 Tools Required

- Small Phillips head screwdriver
- Hex wrenches (various sizes, as required by your RC model)
- Pliers (optional, for holding small parts)
- Thread-locking compound (medium strength, for metal-to-metal screws)

2.3 Installation Steps

1. **Disassembly:** Carefully disassemble the relevant section of your RC model to access the existing main gear. Consult your model's manual for specific steps.
2. **Remove Old Gear:** Once accessible, remove the worn or damaged main gear. Note the orientation and any shims or spacers used.
3. **Inspect Components:** Inspect the pinion gear, motor mount, and bearings for any wear or damage. Replace any compromised parts before installing the new main gear.
4. **Install New Gear:** Place the Jamara Jamara505547 Alu Tiger 72T Main Gear onto the shaft, ensuring proper alignment with any keyways or D-flats.
5. **Set Gear Mesh:** Adjust the motor position to achieve the correct gear mesh between the main gear and the motor's pinion gear. The mesh should be tight enough to prevent slippage but loose enough to allow a small amount of play (often described as a "paper test" where a thin strip of paper can pass through without tearing).
6. **Secure Components:** Tighten all screws securely. Apply a small amount of medium-strength thread-locking compound to metal-to-metal screws to prevent loosening from vibrations.
7. **Reassembly:** Reassemble your RC model, ensuring all connections are secure and no wires are pinched.
8. **Initial Test:** Before full operation, manually rotate the main gear to ensure smooth movement without binding.

3. OPERATING PRINCIPLES

The Jamara Jamara505547 Alu Tiger 72T Main Gear is a critical component in the drivetrain of your RC model. It receives power from the motor's pinion gear and transmits it to the rotor head or wheels, depending on the model type. The 72-tooth count is specific to certain gear ratios and model requirements. Proper gear mesh and lubrication are essential for efficient power transfer and to minimize wear. This aluminum main gear offers enhanced durability and reduced flex compared to plastic alternatives, contributing to consistent performance.

4. MAINTENANCE

- **Regular Inspection:** Periodically inspect the main gear for signs of wear, such as chipped teeth, cracks, or excessive play.
- **Cleaning:** Keep the gear free from dirt, dust, and debris. A soft brush or compressed air can be used for cleaning. Avoid using harsh chemicals that may damage the material.
- **Lubrication:** Apply a small amount of appropriate gear grease or lubricant to the gear teeth as recommended by your RC model's manufacturer. Avoid over-lubrication, which can attract dirt.
- **Gear Mesh Check:** Regularly verify that the gear mesh remains optimal. Vibrations and impacts can sometimes cause the motor mount to shift, altering the mesh.
- **Replacement:** Replace the main gear immediately if any significant damage or wear is observed to prevent further damage to other drivetrain components.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Excessive noise from drivetrain	Incorrect gear mesh (too tight or too loose), worn bearings, damaged gear teeth.	Adjust gear mesh, inspect and replace bearings, inspect and replace main gear if teeth are damaged.
Gear slipping or stripping	Gear mesh too loose, motor mount screws loose, excessive load, worn gear.	Adjust gear mesh, tighten motor mount screws, reduce load if possible, replace main gear.
Binding or stiffness in drivetrain	Gear mesh too tight, bent shaft, debris caught in gears, damaged bearings.	Adjust gear mesh, inspect and replace bent shafts, clean gears, inspect and replace bearings.
Premature wear on gear teeth	Improper gear mesh, lack of lubrication, excessive dirt/debris, misalignment.	Verify and adjust gear mesh, apply appropriate lubricant, clean regularly, check for proper alignment of components.

6. SPECIFICATIONS

- **Model Number:** Jamara505547
- **Product Type:** Main Gear
- **Material:** Aluminum
- **Tooth Count:** 72T
- **Product Dimensions:** 11.81 x 11.81 x 11.81 inches (approximate packaging dimensions)
- **Item Weight:** 2.11 ounces
- **Manufacturer:** Jamara
- **Recommended Age:** 3 years and up (for associated RC models)

7. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Jamara Jamara505547 Alu Tiger 72T Main Gear, please refer to the official Jamara website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

Manufacturer: Jamara

Website: www.jamara.com (Note: This is a placeholder URL, please refer to the actual manufacturer's

website for support.)