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## Redcat Racing Hexfly 25KG Servo

# Redcat Racing Hexfly 25KG Metal Gear Waterproof Servo Instruction Manual

Model: Hexfly 25KG Servo (B07SL6YY2P)

## 1. INTRODUCTION

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Thank you for choosing the Redcat Racing Hexfly 25KG Metal Gear Waterproof Servo. This high-performance servo is designed for demanding RC applications, offering 25 kilograms of torque, durable metal gears, and waterproof construction for reliable operation in various conditions. This manual provides essential information for the proper installation, operation, and maintenance of your servo to ensure optimal performance and longevity.



Image 1.1: Overview of two Redcat Racing Hexfly 25KG Metal Gear Waterproof Servos. These servos feature a red and black casing, metal gears, and are designed for high torque applications in RC vehicles.

## 2. PACKAGE CONTENTS

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Please verify that all items listed below are present in your package:

- 2 x Redcat Racing Hexfly 25KG Metal Gear Waterproof Servo
- 2 x Aluminum Servo Horn

## 3. SPECIFICATIONS

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Feature	Detail
Model Number	B07SL6YY2P

Feature	Detail
Torque	25 KG
Gear Type	Metal Gear
Waterproof	Yes
Product Dimensions	1.5 x 2.25 x 1.5 inches
Item Weight	5.3 ounces
Manufacturer	Redcat Racing

## 4. SETUP AND INSTALLATION

### 4.1 Physical Installation

1. **Mounting the Servo:** Secure the servo into the designated servo mount within your RC vehicle chassis using appropriate screws. Ensure the servo is firmly seated to prevent movement during operation.
2. **Attaching the Servo Horn:** Select the appropriate aluminum servo horn for your application. Align the servo horn with the servo output shaft and secure it using the provided screw. Ensure the horn is centered before tightening.
3. **Connecting Linkages:** Connect the steering or control linkages from the servo horn to the relevant components of your RC vehicle. Adjust linkages as necessary to achieve the desired range of motion and neutral position.



Image 4.1: Rear view of the Hexfly 25KG Servos, illustrating the wiring harness and mounting tabs. The wiring consists of three color-coded wires for signal, power, and ground.

### 4.2 Electrical Connection

Connect the servo's three-wire connector to the appropriate channel on your RC receiver. Standard servo wiring typically follows this color code:

- **Brown/Black:** Ground (GND)
- **Red:** Power (VCC)
- **Orange/Yellow/White:** Signal (SIG)

Ensure the polarity is correct to prevent damage to the servo or receiver. Refer to your RC receiver's manual for specific channel assignments and connection details.

## 5. OPERATING INSTRUCTIONS

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The Hexfly 25KG Servo operates by receiving pulse-width modulation (PWM) signals from your RC receiver, which in turn is controlled by your radio transmitter.

- **Power On Sequence:** Always turn on your radio transmitter first, then power on your RC vehicle (receiver/ESC). When powering off, disconnect the vehicle's power first, then turn off the transmitter. This sequence helps prevent unexpected servo movements.
- **Centering:** After installation and power-up, ensure the servo is centered. Use your transmitter's trim adjustments to fine-tune the neutral position if necessary.
- **Waterproof Feature:** The servo is designed to be waterproof, allowing for operation in wet conditions. However, it is important to ensure that other electronic components in your RC vehicle are also protected from water exposure. Avoid prolonged submersion or high-pressure water exposure.



Image 5.1: Top-down view of the Hexfly 25KG Servos, highlighting the output shaft where the servo horn attaches, and the robust mounting tabs.

## 6. MAINTENANCE

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Regular maintenance helps prolong the life and performance of your servo.

- **Cleaning:** After use, especially in dirty or wet conditions, gently clean the exterior of the servo with a soft, damp cloth. Remove any debris or mud that may accumulate around the output shaft or mounting areas.
- **Inspection:** Periodically inspect the servo for any signs of physical damage, such as cracks in the casing, frayed wires, or excessive play in the output shaft. Check that the mounting screws are tight.
- **Gear Check:** While the servo features metal gears for durability, extreme impacts can still cause damage. If you notice unusual noise or erratic movement, it may indicate damaged gears. Disassembly for gear inspection should only be performed by experienced users.
- **Wiring:** Ensure all wiring connections are secure and free from corrosion or damage.

## 7. TROUBLESHOOTING

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If you encounter issues with your Hexfly 25KG Servo, refer to the following common problems and solutions:

- **Servo Not Responding:**
  - Check all wiring connections between the servo, receiver, and power source. Ensure they are secure and correctly polarized.
  - Verify that the receiver is powered on and receiving signals from the transmitter.
  - Test the servo on a different receiver channel or with a different servo to isolate the problem.
- **Erratic or Jittery Movement:**
  - Ensure the servo is receiving sufficient power. A weak battery or inadequate power supply can cause erratic behavior.
  - Check for radio interference. Operate the RC vehicle in an open area away from strong electrical signals.
  - Inspect the servo gears for damage or debris.
- **Servo Making Noise but Not Moving:**
  - This often indicates a stripped gear. Disassemble the servo to inspect the gears.
  - Check for mechanical binding in the linkages connected to the servo horn. Ensure nothing is obstructing its movement.
- **Reduced Torque or Speed:**
  - Verify the power supply voltage is within the servo's operating range.
  - Ensure there is no excessive friction in the mechanical linkages.

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official Redcat Racing website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

[Visit Redcat Racing Official Website](#)

