

POENVFPO POENVFPO1fmp5vkoru-12

POENVFPO 25T RC Servo Arm Instruction Manual

Model: POENVFPO1fmp5vkoru-12

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your POENVFPO 25T RC Servo Arm. This component is designed to enhance steering accuracy and provide protection for the servo gears in 1/10 scale remote control vehicles. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. PRODUCT FEATURES

- **Enhanced Steering Accuracy:** The design improves steering response and precision.
- **Servo Gear Preservation:** Acts as a servo saver, protecting internal servo gears from impact damage.
- **Aluminum Alloy Construction:** Manufactured from high-strength aluminum alloy for durability and reliability.
- **Versatile Compatibility:** Compatible with most 1/10 scale remote control cars.
- **Lightweight Design:** Minimizes added weight to the RC vehicle, maintaining stable driving performance.
- **Easy Installation:** Designed for straightforward replacement of existing or damaged parts.

3. PACKAGE CONTENTS

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

- 3 x Servo Arm Parts (main arm, 25T spline adapter, screw cap)
- 4 x Screws
- 2 x Washers
- 3 x Additional Accessories (may vary based on specific kit)



**Length: Approx. 33mm / 1.30in**  
**Width: Approx. 17mm / 0.67in**

Image 3.1: All components included in the package.

## 4. SPECIFICATIONS

| Attribute         | Value                   |
|-------------------|-------------------------|
| Material          | Aluminum Alloy          |
| Length (Main Arm) | Approx. 33mm / 1.30in   |
| Width (Main Arm)  | Approx. 17mm / 0.67in   |
| Spline Count      | 25T                     |
| Compatibility     | Most 1/10 Scale RC Cars |
| Item Weight       | Approx. 0.494 ounces    |



Image 4.1: Servo arm dimensions and components.

## 5. INSTALLATION GUIDE

Follow these steps to properly install the 25T RC Servo Arm on your 1/10 scale remote control vehicle:

1. **Prepare Your Vehicle:** Ensure your RC vehicle is powered off and the battery is disconnected. If replacing an existing servo arm, carefully remove the old component.
2. **Identify Components:** Familiarize yourself with the main servo arm, the 25T spline adapter, and the screw cap.
3. **Attach Spline Adapter:** Insert the 25T spline adapter into the circular opening of the main servo arm. Ensure it sits flush and securely.
4. **Mount to Servo:** Carefully slide the assembled servo arm onto the output shaft of your servo. Align the splines correctly. The arm should fit snugly.

5. **Secure with Screw Cap:** Place the screw cap over the center of the servo arm and insert one of the provided screws through it into the servo shaft. Tighten gently to secure the arm to the servo.
6. **Connect Linkages:** Attach your steering linkages to the desired mounting holes on the servo arm using the remaining screws and washers. Ensure linkages move freely without binding.
7. **Test Functionality:** Reconnect the battery and power on your RC vehicle. Test the steering to ensure smooth and accurate movement. Adjust linkages if necessary.



Suitable for most 1/10 RC cars

Can improve steering accuracy while providing servo gear preservation

Premium Aluminum Alloy Material  
High strength, lightweight, no additional burden on RC vehicles, ensuring stable driving

Easy to Install  
Equipped with washers and screws, it can directly replace old or damaged RC car parts



Image 5.1: Example of servo arm installed on an RC vehicle.

## 6. OPERATION

Once installed, the 25T RC Servo Arm functions as a critical link between your servo and the steering mechanism of your RC vehicle. It translates the rotational motion of the servo into linear motion for steering. The adjustable force design, combined with its robust aluminum construction, ensures precise control and protection for your servo during operation, especially under demanding conditions.

The multiple mounting holes on the arm allow for fine-tuning of steering throw and response, enabling customization to

suit different driving styles and terrain.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your servo arm:

- **Visual Inspection:** Periodically check the servo arm for any signs of wear, bending, or damage, especially after heavy use or impacts.
- **Tightness Check:** Ensure all screws securing the servo arm and linkages are tight. Loose connections can lead to poor steering response or component failure.
- **Cleanliness:** Keep the servo arm and surrounding area free from dirt, dust, and debris, which can impede movement or cause wear.
- **Lubrication:** While the servo arm itself does not require lubrication, ensure that the servo output shaft and steering linkages are properly lubricated according to your RC vehicle's manual.

## 8. TROUBLESHOOTING

If you encounter issues with your servo arm, consider the following:

- **Loose Steering:** Check if the servo arm is securely fastened to the servo shaft and if all linkage screws are tight. Inspect for any play in the connections.
- **Inaccurate Steering:** Ensure the servo arm is centered correctly on the servo output shaft. Recalibrate your RC vehicle's steering trim if necessary.
- **Binding/Sticking:** Verify that the servo arm and linkages are not obstructed by other components. Ensure no debris is caught in the moving parts.
- **Damaged Arm:** If the servo arm is bent or cracked, it must be replaced to maintain steering integrity and protect the servo.

## 9. WARRANTY AND SUPPORT

POENVFPO products are manufactured to high-quality standards. For any questions, technical assistance, or warranty claims, please refer to the retailer's return policy or contact POENVFPO customer support through the official channels provided at the point of purchase. Please retain your proof of purchase for warranty purposes.

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