

fyfracing Aluminum Servo Saver

fyfracing Aluminum Servo Saver for 1:10 Brushless Thunder Truck Instruction Manual

Model: Aluminum Servo Saver

1. INTRODUCTION

Thank you for choosing the fyfracing Aluminum Servo Saver. This component is designed to protect your RC vehicle's steering servo from damage during impacts or heavy loads, particularly when operating a 1:10 Brushless Thunder Truck. Made from high-quality aluminum, it offers enhanced durability and precision compared to standard plastic servo savers. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of your product.

2. WHAT'S IN THE BOX

- 1x fyfracing Aluminum Servo Saver
- Necessary mounting hardware (screws, washers, etc.)

Note: Contents may vary slightly. Please check the packaging for a complete list of included items.

3. SPECIFICATIONS

Product Dimensions	4 x 2 x 0.5 inches
Item Weight	0.634 ounces
Manufacturer	fyfracing
Material	High-quality Aluminum
Compatibility	1:10 Brushless Thunder Truck

4. INSTALLATION GUIDE

Proper installation of the Aluminum Servo Saver is critical for its performance and the protection of your steering servo. Follow these steps carefully:

1. **Prepare Your Vehicle:** Ensure your RC vehicle is powered off and the battery is disconnected. Place the vehicle on a stable, clean surface.
2. **Access the Servo Area:** Depending on your 1:10 Brushless Thunder Truck model, you may need to remove the body shell, upper deck, or other components to gain access to the steering servo and existing servo saver assembly. Refer to your RC truck's original manual for specific disassembly instructions.
3. **Remove the Old Servo Saver:** Carefully detach the steering linkage from the existing servo saver. Then, remove the screws or clips securing the old servo saver to the servo horn or chassis. Keep any small parts organized.
4. **Install the New Aluminum Servo Saver:**
 - Attach the fyfracing Aluminum Servo Saver to your steering servo horn. Ensure it is seated correctly and aligned.
 - Secure the servo saver using the provided mounting hardware. Do not overtighten screws, as this can strip threads or damage components.
 - Reconnect the steering linkage to the new servo saver.
5. **Adjust Servo Saver Tension (if applicable):** Some aluminum servo savers feature adjustable tension. If yours does, you can fine-tune the spring tension to provide optimal protection without compromising steering response. A tighter setting offers more protection but can reduce steering feel, while a looser setting offers more feel but less protection. Start with a medium setting and adjust as needed during testing.
6. **Reassemble and Test:** Reassemble any components removed during the installation process. Reconnect the battery and perform a functional test of the steering. Ensure full range of motion and proper centering.



***Image 1:** The fyfracing Aluminum Servo Saver. This image shows the robust construction of the servo saver, highlighting its aluminum components designed for durability and improved performance in RC vehicles.*

5. OPERATING PRINCIPLES

The Aluminum Servo Saver acts as a mechanical fuse for your steering servo. When the steering system experiences an impact or excessive force (e.g., hitting an obstacle, hard landing), the servo saver's internal spring mechanism allows the steering linkage to momentarily slip or flex, absorbing the shock before it reaches and damages the delicate gears inside the servo. This prevents stripped gears and extends the lifespan of your servo.

While operating your RC truck, you should observe smooth and responsive steering. If you notice any looseness or inconsistent steering, it might indicate that the servo saver tension needs adjustment or that other steering components require inspection.

6. MAINTENANCE

Regular maintenance ensures the optimal performance and longevity of your Aluminum Servo Saver:

- **Inspection:** Periodically inspect the servo saver for any signs of wear, cracks, or deformation, especially after heavy impacts. Check for loose screws.

- **Cleaning:** Keep the servo saver free from dirt, dust, and debris. A soft brush or compressed air can be used for cleaning. Avoid using harsh chemicals.
- **Lubrication:** If the servo saver has moving parts that are exposed, a small amount of dry lubricant (e.g., silicone spray) can be applied to ensure smooth operation, but avoid over-lubricating, which can attract dirt.
- **Tension Adjustment:** If your servo saver is adjustable, re-check and adjust the tension as needed to maintain optimal protection and steering response.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Loose or inconsistent steering	Servo saver tension too low; worn servo saver components; loose mounting screws.	Increase servo saver tension (if adjustable); inspect for wear and replace if necessary; tighten mounting screws.
Servo damage (stripped gears)	Servo saver not functioning correctly; tension too high (preventing slip); severe impact beyond servo saver's capacity.	Inspect servo saver for damage or binding; adjust tension to allow proper slip; consider a stronger servo if impacts are consistently too severe.
Difficulty centering steering	Improper servo saver installation; bent steering linkage; servo trim issues.	Re-check servo saver installation and alignment; inspect and replace bent linkage; adjust servo trim on your transmitter.

8. PRODUCT VIDEOS

Video 1: Hosim X07W 1/10 Brushless RC Cars in Action

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This video showcases the Hosim X07W 1/10 Brushless RC Car, for which the fyfracing Aluminum Servo Saver is compatible, demonstrating its performance and durability in various terrains.

Video 2: Hosim X07W 1/10 Brushless RC Cars for Adults Fast

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This video further illustrates the high-speed capabilities and robust design of the Hosim X07W 1/10 Brushless RC Car, providing context for the demanding conditions the fyfracing Aluminum Servo Saver is designed to withstand.

9. WARRANTY AND SUPPORT

fyfracing products are manufactured to high standards. For specific warranty information, please refer to the warranty card included with your purchase or visit the official fyfracing website.

If you encounter any issues or have questions regarding the installation or operation of your Aluminum Servo Saver, please contact fyfracing customer support through their official channels. Provide your product model and purchase details for efficient assistance.

