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› INJORA Aluminum N30 Nano Servo with Servo Saver for 1/30 Axial SCX30 User Manual

## INJORA INJS-N30

# INJORA Aluminum N30 Nano Servo with Servo Saver User Manual

## INTRODUCTION

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Thank you for choosing the INJORA Aluminum N30 Nano Servo with Servo Saver. This high-performance servo is engineered to provide superior steering control and durability for your 1/30 Axial SCX30 RC vehicle. This manual will guide you through the installation, operation, and maintenance to ensure optimal performance and longevity of your product.

## Key Features

- **CNC-machined aluminum servo case:** Provides enhanced strength and durability.
- **Metal gear set:** Designed to withstand higher steering loads and improve reliability.
- **Higher torque output:** Delivers stronger steering performance compared to stock servos.
- **Spring-loaded servo saver:** Helps absorb impacts, protecting the servo gears from damage.
- **Direct fit:** Specifically designed for 1/30 Axial SCX30 upgrades.

## PACKAGE CONTENTS

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

- INJORA N30 Nano Servo
- Aluminum Servo Horn
- Servo Saver Spring
- Mounting Screws



Image: INJORA N30 Nano Servo and its components, including the servo body, aluminum servo horn, mounting screw, and servo saver spring.

## SETUP AND INSTALLATION

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Follow these steps to properly install your INJORA N30 Nano Servo into your 1/30 Axial SCX30 RC vehicle.

### Tools Required

- Small Phillips head screwdriver
- Small hex wrenches (if applicable for existing servo removal)

### Installation Steps

1. **Prepare the Vehicle:** Disconnect the battery from your RC vehicle. Carefully remove the body shell to access the chassis and existing servo.
2. **Remove Existing Servo:** Disconnect the old servo's wire from the receiver/ESC. Unscrew and remove the old servo and its horn from the chassis.
3. **Mount the INJORA N30 Nano Servo:** Position the new INJORA N30 Nano Servo in the designated servo mount on your SCX30 chassis. Secure it using the provided mounting screws. Ensure it is firmly seated but do not overtighten.
4. **Attach Servo Horn and Servo Saver:** Install the servo saver spring onto the servo output shaft, then place

the aluminum servo horn over the spring and onto the servo spline. Secure the servo horn with the small screw provided.

5. **Connect Wiring:** Plug the INJORA N30 Nano Servo's connector into the appropriate servo channel on your receiver or ESC. Refer to your RC vehicle's manual for correct channel assignment (typically Channel 1 for steering).
6. **Test and Adjust:** Reconnect the battery. Turn on your transmitter and then your vehicle. Test the steering function. If the steering is reversed or off-center, adjust the trim settings on your transmitter or reverse the servo direction if your transmitter supports it. Ensure full left and right steering throw without binding.



Image: The INJORA N30 Nano Servo correctly installed within the chassis of a 1/30 Axial SCX30 RC vehicle, connected to the steering linkage.

## OPERATION

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Once installed, the INJORA N30 Nano Servo operates like any standard RC steering servo. It translates signals from your RC transmitter into precise mechanical movement to control the steering of your 1/30 Axial SCX30. The higher torque and metal gears provide improved responsiveness and durability during operation, especially in challenging terrain.

## Tips for Optimal Performance

- Ensure your transmitter's steering trim is centered for straight tracking.
- Avoid prolonged periods of holding the steering at full lock against resistance, as this can strain the servo.
- The integrated servo saver will help protect the gears during impacts, but extreme forces can still cause damage.

## MAINTENANCE

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Regular maintenance will help extend the life and performance of your INJORA N30 Nano Servo.

- **Keep Clean:** Periodically clean the exterior of the servo to remove dirt, dust, and debris. Use a soft brush or compressed air.
- **Inspect Wiring:** Check the servo wire and connector for any signs of damage, fraying, or loose connections.
- **Check Gears:** If you notice any unusual noises or play in the steering, it may indicate wear in the gears. While the metal gears are durable, extreme impacts can cause damage.
- **Lubrication:** The internal gears are pre-lubricated. Avoid disassembling the servo unless you are experienced with servo repair.





Image: Top view of the INJORA N30 Nano Servo, revealing the robust metal gear train designed for durability.

## TROUBLESHOOTING

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If you encounter issues with your INJORA N30 Nano Servo, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Servo does not move or respond.	Loose or incorrect wiring connection. No power to receiver/ESC. Damaged servo.	Check all wiring connections. Ensure battery is charged and connected. Test with another servo if possible.
Erratic or twitchy movement.	Radio interference. Low battery voltage. Damaged servo wire.	Check for sources of interference. Ensure battery is fully charged. Inspect servo wire for damage.
Weak or slow steering.	Low battery voltage. Mechanical binding in steering linkage. Servo overload.	Charge battery. Check steering linkage for obstructions or excessive friction. Ensure servo is not undersized for application (not applicable here as it's an upgrade).
Servo makes grinding noise.	Damaged or worn gears. Debris inside servo.	Disassemble carefully to inspect gears for damage or foreign objects. Replace gears if necessary.

## SPECIFICATIONS

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Detailed specifications for the INJORA N30 Nano Servo:

Feature	Detail
Brand	INJORA
Model Number	INJS-N30
Material Type	Aluminum
Color	Black
Size (L x W x H)	15.2 x 12.85 x 21.45 mm
Operation Mode	Manual (controlled via RC transmitter)
Power Source	Battery (type not specified, typically from RC vehicle's power system)
Assembly Required	No (servo comes pre-assembled)

## SAFETY INFORMATION

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Please observe the following safety guidelines when handling and operating RC components:

- Always disconnect the battery from your RC vehicle when not in use or during maintenance.
- Keep small parts away from children to prevent choking hazards.
- Ensure all electrical connections are secure to prevent short circuits or damage.
- Do not attempt to modify the servo in ways not described in this manual, as it may void the warranty and cause malfunction.
- Operate RC vehicles responsibly and in appropriate environments.

## WARRANTY AND SUPPORT

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