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- › [INJORA](#) /
- › [INJORA Internal Spring Damper Shocks \(90mm, Black\) - Instruction Manual](#)

INJORA Internal Spring Damper Shocks 90mm

INJORA Internal Spring Damper Shocks (90mm, Black)

Instruction Manual

1. PRODUCT OVERVIEW

The INJORA Internal Spring Damper Shocks are designed for 1/10 scale RC crawlers, offering enhanced suspension performance. These shocks feature a CNC machined aluminum body for durability and an easy-load shock seal assembly for smooth operation. They are suitable for various RC models including Axial SCX10, TRX-4, MST, and Redcat.



Image 1.1: Four 90mm black internal spring damper shocks.



Image 1.2: INJORA internal spring damper shocks available in various lengths.

2. WHAT'S IN THE BOX

Your package should contain the following items:

- 4 x Internal Spring Damper Shocks (90mm, Black)
- Spare Springs (Soft, Medium, Hard)
- Screws for Shock Absorbers
- Washers for Shock Absorbers



Image 2.1: Contents of the package, including shocks and spare parts.

3. SPECIFICATIONS

Feature	Detail
Brand	INJORA
Item Weight	4.1 ounces (total for 4 shocks)
Shock Body Material	CNC Machined Aluminum
Rod End Material	Plastic
Shock Body Diameter	14mm

Feature	Detail
Shaft Diameter	3.5mm
Rod End Hole Diameter	3mm
Length (Eye to Eye)	90mm
Compatibility	1/10 RC Crawler (e.g., Axial SCX10 90046, TRX-4, MST)



Image 3.1: Detailed dimensions of INJORA shocks.

4. INSTALLATION GUIDE

4.1. Shock Assembly (if required)

The shocks come pre-assembled, but for maintenance or customization, you may need to disassemble and reassemble them. Ensure all seals are properly seated to prevent leakage.

1. Carefully unscrew the top cap of the shock body.
2. Remove the internal spring and piston assembly.
3. Inspect O-rings and seals for wear. Replace if necessary using the provided spares.
4. Apply a small amount of shock oil (not included) to the O-rings for smooth movement and sealing.
5. Reassemble the piston and spring, then screw the top cap back on securely.



Image 4.1: Exploded view of shock components.

4.2. Mounting on RC Vehicle

These shocks are designed for direct replacement or upgrade on compatible 1/10 RC crawlers.

1. Remove the existing shocks from your RC vehicle.
2. Attach the INJORA shocks to the designated mounting points on your chassis and axle using the provided screws and washers. Ensure the mounting hardware is secure but do not overtighten.
3. Verify that the shocks move freely through their full range of motion without binding.



Image 4.2: Shock installed on an RC crawler.

4.3. Spring Selection

The kit includes spare springs of varying stiffness (soft, medium, hard) to allow customization based on your vehicle's weight and desired suspension characteristics.

- **Soft Springs:** Ideal for lighter vehicles or for achieving maximum articulation and a softer ride.
- **Medium Springs:** A balanced option for general crawling, offering good stability and flex.
- **Hard Springs:** Recommended for heavier vehicles or for a firmer, more controlled suspension setup.

Experiment with different spring rates to find the optimal setup for your specific RC crawler and terrain.



Image 4.3: Spring options for tuning suspension.

5. OPERATION

Once installed, the INJORA Internal Spring Damper Shocks provide a smooth and effective damping effect, improving your RC crawler's stability and handling over various terrains. The internal spring design helps maintain a consistent ride height and prevents excessive body roll.

Regularly observe the shock performance during operation. If you notice any unusual behavior, such as excessive bouncing or stiffness, refer to the troubleshooting section.

6. MAINTENANCE

Proper maintenance will extend the lifespan and performance of your shocks.

- **Cleaning:** After each use, especially in dirty or wet conditions, clean the exterior of the shocks with a soft brush and mild cleaner. Ensure no dirt or debris is trapped around the shock shafts.
- **Inspection:** Periodically inspect the shock shafts for any bends, scratches, or damage. Check the rod ends for cracks or excessive wear.
- **Oil Level and Seals:** Over time, shock oil can degrade or leak. If performance diminishes or you notice oil residue, disassemble the shocks, inspect the O-rings and seals, and refill with appropriate RC shock oil

(e.g., 30wt-50wt, depending on desired damping). Replace worn seals.

- **Springs:** Check springs for deformation or breakage. Replace if necessary.
- **Mounting Hardware:** Ensure all screws and washers remain tight. Overtightening can strip threads or damage components.

7. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Shocks feel too stiff or do not compress fully	Too heavy shock oil; too stiff springs; internal binding; air trapped inside.	Use lighter shock oil; switch to softer springs; check for debris or misalignment; bleed air from shocks during assembly.
Shocks leak oil	Damaged or worn O-rings/seals; loose shock caps.	Disassemble and replace O-rings/seals; ensure shock caps are tightened securely.
Shocks feel too soft or bottom out easily	Too light shock oil; too soft springs; low oil level.	Use heavier shock oil; switch to stiffer springs; check and refill shock oil.
Shocks bind or do not move smoothly	Bent shock shaft; dirt/debris in shock body; misaligned mounting.	Inspect and replace bent shafts; clean internal components; ensure shocks are mounted vertically and without obstruction.

8. WARRANTY AND SUPPORT

INJORA products are manufactured to high standards. While specific warranty details are not provided in this manual, most products come with a standard return policy. For this product, a return policy of 30 days for refund or replacement is typically offered through the retailer.

For technical support, replacement parts, or warranty inquiries, please contact INJORA customer service directly or refer to the retailer where the product was purchased. You can often find contact information on the official INJORA website or through your purchase platform.

Online Support: Visit the [INJORA Store on Amazon](#) for more information and contact options.