QA1 DS702

QA1 DS702 Proma-Star Coil-Over Adjustable Shock Instruction Manual

Model: DS702

1. Product Overview

The QA1 Proma-Star Coil-Over Shock, model DS702, is designed to enhance vehicle suspension performance and ride quality. This adjustable shock absorber allows for precise tuning to suit various driving conditions and preferences, from street use to track applications. It features a durable aluminum construction and offers options for single or double adjustability.

Image 1.1: The QA1 DS702 Proma-Star Coil-Over Adjustable Shock. This image displays the full shock assembly, highlighting its threaded body for ride height adjustment and the lower adjustment knob.

This manual provides essential information for the proper installation, operation, and maintenance of your QA1 DS702 shock.

2. Key Features

- **Adjustable Valving:** Available in single or double adjustable configurations for precise control over rebound and compression damping.
- **Ride Height Adjustment:** Threaded body design allows for easy adjustment of vehicle ride height.
- **Durable Construction:** Made from lightweight aluminum with an anodized finish.
- **Versatile Mounting:** Multiple bushing or bearing configurations are available to fit various vehicle setups.
- **Quality Assurance:** Proudly made in the USA and dyno tested for performance and reliability.

3. What's in the Box

Your QA1 DS702 Proma-Star Coil-Over Shock package includes:

- One (1) QA1 DS702 Proma-Star Coil-Over Adjustable Shock
- Necessary hardware kit for installation

Note: A 2.5" spring of appropriate length and spring rate is required and sold separately. Spanner wrenches and thrust bearings for easier ride height adjustment are also available separately.

4. Setup and Installation

Proper installation is crucial for the performance and safety of your vehicle. It is recommended that installation be performed by a qualified professional.

4.1 Pre-Installation Checks

- **Spring Selection:** Ensure you have a 2.5" diameter coil-over spring with the correct length and spring rate for your vehicle's application.
- **Travel Assessment:** Verify that the shock will have adequate travel to prevent overextension or bottoming out. This is critical for both shock longevity and vehicle handling.
- **Mounting Compatibility:** Confirm that your vehicle's mounting points are compatible with the chosen bushing or bearing configuration. Poly bushings include ½" and 5/8" sleeves. Bearing mount shocks are suitable where misalignment is a factor.
- **Ride Height Planning:** If using a stock spring pocket, ensure it allows for your desired ride height while maintaining sufficient shock travel.

4.2 Installation Steps (General Guidelines)

1. Safely lift and support the vehicle according to manufacturer specifications.
2. Remove the existing shock absorber.
3. Assemble the coil-over shock with the selected spring. Ensure the spring is seated correctly.
4. Install the QA1 DS702 shock into the vehicle's mounting points, securing it with the provided hardware.
5. Adjust the ride height using the threaded body. Rotate the spring seat to raise or lower the vehicle. Spanner wrenches (sold separately) can assist with this process.
6. Lower the vehicle and perform a final inspection of all connections and clearances.
7. Perform a test drive to ensure proper function and make any necessary fine-tune adjustments.

Safety Warning: Always wear appropriate personal protective equipment. Consult your vehicle's service manual for specific torque specifications and procedures.

5. Operating and Adjustment

The QA1 DS702 shock offers adjustable valving to fine-tune your vehicle's ride and handling characteristics.

5.1 Ride Height Adjustment

The threaded body of the shock allows for precise ride height adjustment. To adjust, loosen the locking collar and rotate the spring seat up or down. Raising the spring seat will lower the vehicle, and lowering it will raise the vehicle. Always ensure the locking collar is tightened after adjustment.

5.2 Damping Adjustment

The DS702 shock is available in single-adjustable or double-adjustable configurations.

- **Single-Adjustable Shocks:** These shocks feature one adjustment knob that simultaneously controls both

compression and rebound damping. Turning the knob will either soften or stiffen the overall ride. This is suitable for general street use where a balance of comfort and performance is desired.

- **Double-Adjustable Shocks:** These shocks provide independent control over compression and rebound damping. This allows for more precise tuning, making them ideal for track use or for drivers who require fine calibration of their vehicle's handling. Refer to the specific instructions provided with your double-adjustable shock for detailed adjustment procedures.

Note: Always make small, incremental adjustments and test the vehicle's behavior to find the optimal setting for your driving style and conditions.

6. Maintenance

Regular maintenance helps ensure the longevity and consistent performance of your QA1 DS702 shocks.

- **Regular Inspection:** Periodically inspect the shocks for any signs of damage, leaks, or wear. Check mounting bolts for proper torque.
- **Cleaning:** Keep the shock bodies and adjustment mechanisms clean from dirt and debris. Use a mild cleaner and soft cloth.
- **Corrosion Prevention:** The anodized aluminum finish provides good corrosion resistance, but regular cleaning in harsh environments is recommended.

7. Troubleshooting

If you experience issues with your QA1 DS702 shocks, consider the following common troubleshooting steps:

- **Poor Ride Quality:**
  - Check damping settings: Adjust valving to a softer or stiffer setting as needed.
  - Verify spring rate: Ensure the installed spring rate is appropriate for your vehicle's weight and intended use.
  - Inspect for binding: Check if any suspension components are binding or interfering with shock movement.
- **Unusual Noises:**
  - Check mounting hardware: Ensure all bolts are properly tightened to specification.
  - Inspect for contact: Look for any components rubbing against the shock body or spring.
  - Verify spring seating: Ensure the coil spring is correctly seated in the spring seats.
- **Shock Leakage:**
  - A small amount of oil residue is normal. Significant oil leakage indicates a seal failure.
  - If a significant leak is observed, the shock may require service or replacement. Contact QA1 support.

For persistent issues, contact QA1 technical support for assistance.

8. Specifications

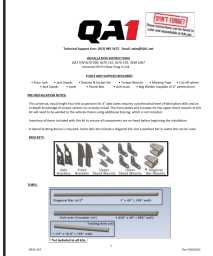
Brand	QA1
Model Number	DS702

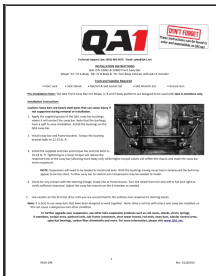
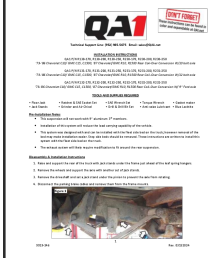
Style	Adjustable (Single or Double)
Material	Aluminum
Exterior Finish	Anodized
Auto Part Position	Center
Vehicle Service Type	Truck (and other custom applications)
Item Weight	4.6 pounds
Product Dimensions	18.1 x 3.9 x 2.3 inches
OEM Part Number	DS702
UPC	806990059895

9. Warranty and Support

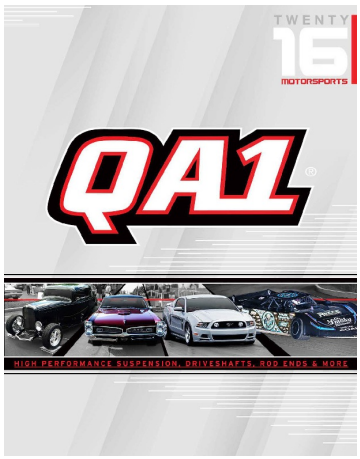
The QA1 DS702 Proma-Star Coil-Over Adjustable Shock is backed by a**Limited Lifetime Warranty**. To ensure coverage, it is important to register your shocks at QA1.net before installation.
For technical assistance, warranty claims, or further information, please contact QA1 customer support directly.
Please refer to the official QA1 website for the most current warranty terms and contact information.

Related Documents - DS702

	QA1 '07-'18 Silverado Rear Coil-over System Installation Guide (RDK52625, RDK52626, RDK52627) Detailed installation instructions for the QA1 '07-'18 Silverado Rear Coil-over System (4-6 inch drop). Includes tools required, disassembly, assembly steps, hardware list, shock valving adjustments, and warranty information.
	QA1 7838-1068 Diagonal Link Installation Instructions Comprehensive installation guide for the QA1 7838-1068 Diagonal Link, suitable for QA1 Universal 4-Link systems and other 4-link suspensions. Includes a detailed parts list, required tools, step-by-step assembly instructions, and warranty information.
	QA1 Universal HD Pro Rear Drag 4-Link Installation Instructions Comprehensive installation guide for the QA1 Universal HD Pro Rear Drag 4-Link suspension kit (P/N Rx70-000, Rx70-110, Rx70-150, 7838-1067). Includes required tools, pre-installation notes, parts list, hardware details, vehicle preparation steps, and assembly instructions.

	QA1 Front Sway Bar Installation Instructions for Mopar A, B, and E-Body Vehicles Detailed installation guide for QA1's 52861 & 52860 Front Sway Bars on Mopar '67-'72 A-Body, '66-'72 B-Body, and '70-'74 E-Body vehicles equipped with a QA1 K-member. Includes tools required, step-by-step instructions, torque specifications, and important safety notes.
	QA1 BAX120 Bump Steer Kit Installation Guide for 1999-2007 Silverado & Sierra Comprehensive installation instructions for the QA1 BAX120 Bump Steer Kit, designed for 1999-2006 Chevrolet Silverado 1500, GMC Sierra 1500, and 2007 Classic models. Includes parts list, required tools, disassembly, installation steps, and warranty information.
	QA1 Rear Coil-Over Conversion Kit Installation for 73-87 Chevrolet/GMC C10/R10 Trucks Detailed installation instructions for QA1's rear coil-over suspension conversion kits, designed for 1973-1987 Chevrolet and GMC C10/R10 trucks. Covers 10/12 bolt and 9-inch Ford axles, including torque arm, panhard bar, and shock mounting.

Documents - QA1 – DS702



[pdf] Catalog

QA1 Suspension Parts Catalog performance suspension struts shocks coil springs leaf lift kits lowering sway bars bushings air CARiD GD601 f GS601 Chevelle Malibu 64 67 Double Single Drag R Series Non Adj Steel TD507 TS507 TR507 TN507 EC1956P TD801 l TS801 qa1 2016 motorsports catalog images carid info |||

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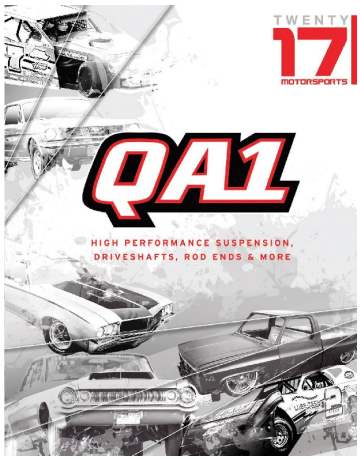

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QA1 Performance Suspension Parts Catalog performance suspension shocks struts coilovers lift kits lowering handling leveling alignment conversion air coil springs leaf helper torsion bars sway bushings braces traction panhard torque arms 4 link frames ball joints steering dampers bump stops skid plates car truck suv CARiD Available in 2 25 and 3 Diameters s driveshafts that utilize 1310 1330 1350 or 3R Series U are for vehicles with up to 750 HP qa1 catalog images carid info

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