

QA1 TK08

QA1 TK08 Monotube Tuning Kit Instruction Manual

Model: TK08 | Brand: QA1

1. INTRODUCTION

The QA1 TK08 Monotube Tuning Kit is designed to provide comprehensive valving options for QA1 26/27 Series Monotube Shocks. This kit allows for precise adjustment of shock characteristics, enabling users to fine-tune their suspension for optimal performance in various driving conditions or racing applications. It includes a selection of bits, check balls, disc valves, O-rings, pistons, and valves, offering a versatile solution for custom shock valving.

2. KIT COMPONENTS

The TK08 Monotube Tuning Kit comes organized in a durable, clear plastic case, ensuring all components are easily identifiable and accessible. The kit contains a variety of precision-engineered parts essential for shock valving adjustments.



Figure 2.1: The QA1 TK08 Monotube Tuning Kit with its lid open, displaying an assortment of shock valving components such as O-rings, disc valves, and pistons, neatly arranged in individual compartments within a clear plastic case.



Figure 2.2: The QA1 TK08 Monotube Tuning Kit with its lid securely closed, showcasing the compact and organized clear plastic storage case.

Included Parts:

- **Bits:** Various sizes for precise adjustments.
- **Check Balls:** Essential for controlling fluid flow within the shock.
- **Disc Valves:** A range of disc valves to alter compression and rebound characteristics.
- **O-Rings:** Replacement O-rings to ensure proper sealing and prevent leaks.
- **Pistons:** Different piston designs for varied damping curves.
- **Valves:** Assorted valves for fine-tuning shock performance.

Refer to the specific instructions provided with your QA1 26/27 Series Monotube Shocks for detailed identification and application of each component.

3. SETUP AND INSTALLATION

The QA1 TK08 Monotube Tuning Kit is intended for use by experienced individuals or professional technicians. Proper installation and valving require specialized tools and knowledge of shock absorber mechanics. Incorrect assembly or valving can lead to poor vehicle handling, component damage, or safety hazards.

General Installation Steps (Consult your shock manual for specifics):

1. **Preparation:** Ensure the vehicle is safely supported and the shocks are removed. Clean the work area and all shock components thoroughly.
2. **Disassembly:** Carefully disassemble the QA1 26/27 Series Monotube Shocks according to the manufacturer's instructions. This typically involves depressurizing the shock and removing the shaft assembly.
3. **Valving Selection:** Based on desired performance characteristics (e.g., firmer compression, softer rebound), select the appropriate disc valves, pistons, and other components from the TK08 kit. Refer to QA1's valving guides or consult a suspension specialist for recommendations.

4. **Assembly:** Install the selected valving components onto the shock shaft assembly. Ensure all O-rings are properly seated and lubricated with appropriate shock fluid.
5. **Reassembly:** Reassemble the shock absorber, ensuring all components are correctly aligned and torqued to specifications. Recharge the shock with nitrogen to the recommended pressure.
6. **Installation on Vehicle:** Reinstall the shocks onto the vehicle, ensuring all mounting hardware is secure.

It is highly recommended to consult the official QA1 shock absorber manual for detailed, model-specific disassembly, assembly, and valving procedures.

4. OPERATING AND TUNING

The TK08 kit provides the components necessary to modify the internal damping characteristics of your QA1 Monotube Shocks. "Operating" in this context refers to the process of selecting and installing the correct valving to achieve desired suspension performance.

Tuning Principles:

- **Compression Damping:** Controls the rate at which the shock compresses. Stiffer compression valving resists suspension compression more, often used for handling heavy loads or aggressive driving.
- **Rebound Damping:** Controls the rate at which the shock extends after compression. Stiffer rebound valving slows down the extension, preventing excessive body roll or wheel lift.
- **Valving Stacks:** The combination and order of disc valves create a "valving stack" that dictates the shock's damping curve. Experimentation and data logging are often required for optimal tuning.

Begin with a baseline valving setup recommended by QA1 or a suspension expert. Make small, incremental changes and test the vehicle's behavior after each adjustment. Keep detailed records of valving configurations and their effects on performance.

5. MAINTENANCE AND STORAGE

Proper maintenance and storage of the TK08 kit components will ensure their longevity and readiness for future use.

Maintenance:

- **Cleaning:** After use, clean any components that came into contact with shock fluid using a suitable solvent or cleaner. Ensure they are completely dry before storage.
- **Inspection:** Periodically inspect O-rings and other soft components for signs of wear, cracking, or degradation. Replace as necessary.
- **Lubrication:** When installing O-rings, always lubricate them with clean shock fluid or a compatible lubricant to prevent damage during assembly.

Storage:

- **Organized Storage:** Always return unused components to their designated compartments within the provided storage case. This prevents loss and damage.
- **Environment:** Store the kit in a cool, dry place away from direct sunlight, extreme temperatures, and corrosive chemicals.
- **Security:** Ensure the case latches are securely fastened to prevent accidental opening and spilling of components.

6. TROUBLESHOOTING

This section addresses common issues that may arise during or after the valving process. Note that this kit provides components for tuning, and issues often stem from incorrect valving choices or improper shock assembly.

Problem	Possible Cause	Solution
Shock feels too stiff/harsh	Excessive compression damping; too stiff valving stack.	Reduce compression valving stiffness. Consult valving charts for softer options.
Shock feels too soft/bouncy	Insufficient compression or rebound damping; too soft valving stack.	Increase compression and/or rebound valving stiffness. Ensure proper nitrogen pressure.
Shock leaking fluid	Damaged or improperly seated O-rings; incorrect assembly.	Disassemble, inspect all seals and O-rings. Replace damaged ones and reassemble carefully, ensuring proper lubrication.
Inconsistent damping	Air in shock fluid; damaged internal components; incorrect fluid level.	Professional service recommended. Ensure proper bleeding during assembly and correct fluid volume.

For complex issues or if you are unsure about any procedure, it is strongly advised to contact QA1 technical support or a certified suspension specialist.

7. SPECIFICATIONS

The following are key specifications for the QA1 TK08 Monotube Tuning Kit:

- Manufacturer: QA1
- Brand: QA1
- Item Model Number: TK08
- Manufacturer Part Number: TK08
- OEM Part Number: TK08
- Item Weight: 1.57 pounds
- Product Dimensions (Approximate): 14 x 8.6 x 1.9 inches
- Compatibility: QA1 26/27 Series Monotube Shocks
- ASIN: B00GKH2AGY
- Date First Available: November 9, 2013

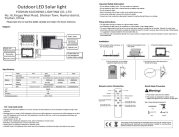





8. WARRANTY AND SUPPORT

For detailed warranty information regarding the QA1 TK08 Monotube Tuning Kit, please refer to the official QA1 website or the documentation included with your original product purchase. Warranty terms and conditions may vary. For technical support, product inquiries, or assistance with specific valving applications, please contact QA1 directly through their official customer service channels. Their expert team can provide guidance on product usage and troubleshooting.

QA1 Official Website: www.qa1.net



Related Documents - TK08

	<p>Foshan Kaicheng Outdoor LED Solar Light - Specifications & Safety Guide</p> <p>Comprehensive guide to Foshan Kaicheng's Outdoor LED Solar Lights, covering safety information, installation, specifications for 50W-300W models, remote control functions, and FCC compliance.</p>
	<p>QA1 Front Sway Bar Installation Instructions for Mopar A, B, and E-Body Vehicles</p> <p>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.</p>
	<p>QA1 Universal HD Pro Rear Drag 4-Link Installation Instructions</p> <p>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.</p>
	<p>QA1 Front Sway Bar Installation Instructions for GM Vehicles</p> <p>Comprehensive installation guide for QA1 front sway bars on GM A, F, G-Body, and S-Series vehicles. Includes tools required, step-by-step instructions, and warranty information.</p>
	<p>QA1 '07-'18 Silverado Rear Coil-over System Installation Guide (RDK52625, RDK52626, RDK52627)</p> <p>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.</p>
	<p>QA1 BAX120 Bump Steer Kit Installation Guide for 1999-2007 Silverado & Sierra</p> <p>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.</p>



[\[pdf\]](#) User Manual Instructions Guide

QA1 3000 5000 6000 Series Rebuild Instructions Karl Hacken 26 Tuning Guide static speedwaymotors |||

TK08 TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS

Revised 6/25/14 Tech Line: 952 985-5675 Fax 952 985-5679 21730 Hanover Ave.

Lakeville, MN 55044 www.QA1.net www.facebook.com/QA1Motorsports **TK08**

TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS Revised

6/25/14 CONTENTS UNDER...

lang:en score:55 filesize: 1.02 M page_count: 15 document date: 2014-06-30



[\[pdf\]](#) User Manual Installation Guide Instructions

QA1 3000 5000 6000 Series Rebuild Instructions Karl Hacken TK08 REV cdn11 bigcommerce s

pqjmdlht5a content Install Inst |||

TK08 TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS

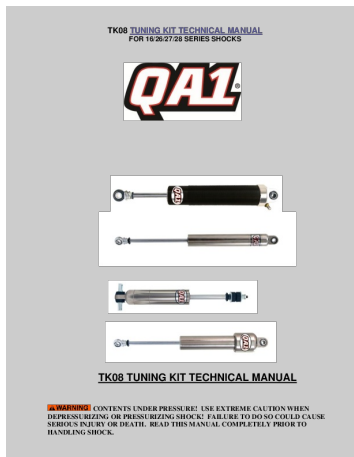
Revised 6/25/14 Tech Line: 952 985-5675 Fax 952 985-5679 21730 Hanover Ave.

Lakeville, MN 55044 www.QA1.net www.facebook.com/QA1Motorsports **TK08**

TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS Revised

6/25/14 CONTENTS UNDER...

lang:en score:47 filesize: 995.15 K page_count: 15 document date: 2020-08-21



[\[pdf\]](#) User Manual Instructions

QA1 Suspension Parts Installation Instructions performance suspension struts shocks coil springs leaf lift

kits lowering sway bars bushings air CARiD 27943 10m installation instructions images carid qa1 info |||

TK08 TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS **TK08**

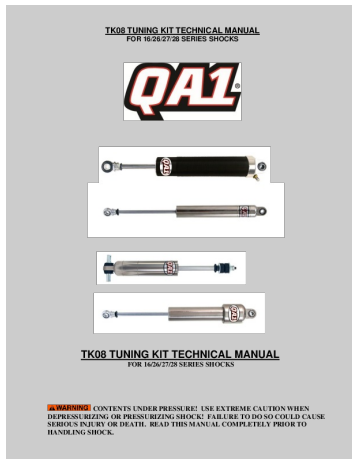
TUNING KIT TECHNICAL MANUAL CONTENTS UNDER PRESSURE USE

EXTREME CAUTION WHEN DEPRESSURIZING OR PRESSURIZING SHOCK

FAILURE TO DO SO COULD CAUSE SERIOUS INJURY OR DEATH. READ THIS

MANUAL COMPLETELY PRIOR TO HANDLING SHOCK. Parts i...

lang:en score:42 filesize: 1.09 M page_count: 14 document date: 2016-04-18



[\[pdf\]](#) User Manual

QA1 Performance Suspension Parts Manual 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 7855 108 manual images carid qa1 items |||

TK08 TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS
TK08 TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS
CONTENTS UNDER PRESSURE USE EXTREME CAUTION WHEN DEPRESSURIZING OR PRESSURIZING SHOCK FAILURE TO DO SO COULD CAUSE SERIOUS INJURY OR DEATH. READ THIS MANUAL COMPLETELY PRIOR...

lang:en score:33 filesize: 1.08 M page_count: 14 document date: 2019-02-27

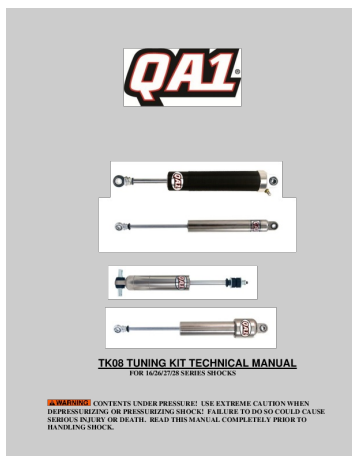


[\[pdf\]](#) User Manual

QA1 Performance Suspension Parts Manual 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 7855 178 manual images carid qa1 items |||

TK08 TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS
CONTENTS UNDER PRESSURE USE EXTREME CAUTION WHEN DEPRESSURIZING OR PRESSURIZING SHOCK FAILURE TO DO SO COULD CAUSE SERIOUS INJURY OR DEATH. READ THIS MANUAL COMPLETELY PRIOR TO HANDLING SHOCK. TK08 TUNING KIT TECHNICAL MANUAL FOR 16/...

lang:en score:33 filesize: 764.66 K page_count: 14 document date: 2019-02-27



[\[pdf\]](#) User Manual

QA1 Performance Suspension Parts Manual 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 7855 115 manual images carid qa1 items |||

TK08 TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS
CONTENTS UNDER PRESSURE USE EXTREME CAUTION WHEN DEPRESSURIZING OR PRESSURIZING SHOCK FAILURE TO DO SO COULD CAUSE SERIOUS INJURY OR DEATH. READ THIS MANUAL COMPLETELY PRIOR TO HANDLING SHOCK. TK08 TUNING KIT TECHNICAL MANUAL FOR 16/...

lang:en score:33 filesize: 764.66 K page_count: 14 document date: 2019-02-27



[\[pdf\]](#) User Manual

QA1 Performance Suspension Parts Manual 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 7855 105 manual images carid qa1 items |||

TK08 TUNING KIT TECHNICAL MANUAL FOR 16/26/27/28 SERIES SHOCKS
 CONTENTS UNDER PRESSURE USE EXTREME CAUTION WHEN DEPRESSURIZING OR PRESSURIZING SHOCK FAILURE TO DO SO COULD CAUSE SERIOUS INJURY OR DEATH. READ THIS MANUAL COMPLETELY PRIOR TO HANDLING SHOCK. **TK08 TUNING KIT TECHNICAL MANUAL FOR 16/...**

lang:en **score:33** filesize: 764.66 K page_count: 14 document date: 2019-02-27

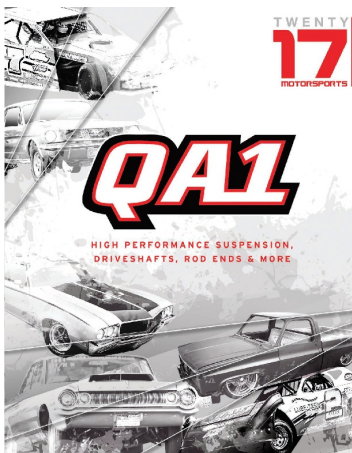


[\[pdf\]](#) Catalog

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 I TS801 qa1 2016 motorsports catalog images carid info |||

TABLE OF CONTENTS QA1 History..... kit
 contains: Assortment of Deflective Discs O-Rings Easy-to-Follow Instructions Seals
 PART #TK08 MONOTUBE FILL TOOLS HYPERSCREW FILL TOOL 26, 27, 28
 Series PART #7791-140 SCHRADER VALVE FILL ...

lang:en **score:14** filesize: 49.14 M page_count: 162 document date: 2016-04-18



[\[pdf\]](#) Catalog

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

TABLE OF CONTENTS Company Info QA1 History..... 2
 L ... ntains: Assortment of Deflective Discs O-Rings TK01 Easy-to-Follow Instructions
 Seals PART #TK08 ADVANCED TUNING EXPANSION KIT Complements other
 Monotube and Large Body Twin Tube Tuning Kit...

lang:en **score:13** filesize: 62.94 M page_count: 165 document date: 2017-07-26