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› Strange S5006 Double Adjustable Shock Kit User Manual

Strange S5006

Strange S5006 Double Adjustable Shock Kit User Manual

Model: S5006 | Brand: Strange

INTRODUCTION

The Strange S5006 Double Adjustable Shock Kit is engineered for high-performance automotive applications, providing precise control over vehicle suspension. This kit features 5.52-inch stroke double adjustable aluminum shocks, offering nine distinct settings for both extension and compression. It includes 12-inch, 2.5-inch I.D. Hypercoil springs and thrust bearings, designed to facilitate easy ride height adjustments.

This manual provides essential information for the proper installation, operation, and maintenance of your S5006 shock kit to ensure optimal performance and longevity.



Image: Two Strange S5006 Double Adjustable Shocks. Each shock features a silver aluminum body, a blue Hypercoil spring, and black adjustment knobs at the base. The shocks are designed for precise suspension tuning.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The S5006 Double Adjustable Shock Kit typically includes:

- Two (2) Strange Double Adjustable Aluminum Shocks
- Two (2) 12-inch, 2.5-inch I.D. Hypercoil Springs
- Associated Thrust Bearings for ride height adjustment

- Mounting Hardware (as required for standard installation)

If any items are missing or damaged, please contact Strange Engineering customer support immediately.

TECHNICAL SPECIFICATIONS

Feature	Detail
Product Type	Auto Part
Model Number	S5006
Brand	Strange
Shock Stroke	5.52 inches
Adjustment Settings	Nine (9) Extension, Nine (9) Compression
Bearing Width Options	0.5 inch, 1 inch, 1.5 inches
Spring Type	Hypercoil Springs
Spring Dimensions	12 inches length, 2.5 inches I.D.
Material	Aluminum (Shocks)
Item Weight	4.11 pounds (per item)
Package Weight	8.6 pounds (kit)
Package Dimensions	8.0" L x 8.0" W x 8.0" H
Country of Origin	United States
UPC	679460105800

INSTALLATION GUIDE

Proper installation is crucial for the performance and safety of your S5006 shock kit. It is recommended that installation be performed by a qualified mechanic or individual with experience in automotive suspension systems. Always refer to your vehicle's service manual for specific torque specifications and procedures.

Safety Precautions:

- Ensure the vehicle is securely supported on jack stands or a lift.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Never work under a vehicle supported only by a jack.

Installation Steps:

1. **Prepare Vehicle:** Lift the vehicle and secure it on jack stands. Remove the wheels to access the suspension components.
2. **Remove Old Shocks:** Carefully unbolt and remove the existing shocks. Note the orientation of all components.
3. **Assemble New Shocks:** If not pre-assembled, install the Hypercoil springs and thrust bearings onto the Strange shocks. Ensure the springs are seated correctly.
4. **Install New Shocks:** Position the S5006 shocks into the mounting locations. Secure the upper and lower mounting bolts. Do not fully tighten bolts until the vehicle is at ride height.
5. **Adjust Ride Height:** Use the thrust bearings to adjust the spring perch and set the desired ride height. Ensure both sides are even.
6. **Final Torque:** Once the vehicle is at ride height (or under load, as per vehicle manufacturer's recommendation), fully tighten all mounting bolts to the specified torque values.
7. **Reinstall Wheels:** Reattach the wheels and lower the vehicle.
8. **Alignment:** It is highly recommended to have a professional wheel alignment performed after shock installation to ensure proper vehicle handling and tire wear.

OPERATION AND ADJUSTMENT

The S5006 shocks feature double adjustability, allowing independent tuning of both extension (rebound) and compression (bump) damping. This enables precise control over vehicle handling characteristics for various driving conditions or track setups.

Adjustment Mechanism:

- Each shock has two separate adjustment knobs, typically located at the bottom of the shock body.
- One knob controls *extension* damping (how quickly the shock extends after compression).
- The other knob controls *compression* damping (how quickly the shock compresses).
- There are nine (9) distinct settings for both extension and compression. Turning the knob typically clicks through these settings.

Tuning Guidelines:

- **Starting Point:** Begin with a neutral setting (e.g., middle setting for both extension and compression) and adjust incrementally.
- **Extension (Rebound):**
 - *Softer (lower setting):* Allows the wheel to drop faster, useful for maintaining tire contact over bumps.
 - *Stiffer (higher setting):* Slows down wheel extension, can help control body roll and weight transfer.
- **Compression (Bump):**
 - *Softer (lower setting):* Allows the wheel to move up into the fender more easily, useful for absorbing bumps.
 - *Stiffer (higher setting):* Resists wheel movement into the fender, can improve responsiveness and

reduce dive/squat.

- **Testing:** Make small adjustments (one click at a time) and test the vehicle's behavior in a safe environment. Note the changes and how they affect handling.
- **Symmetry:** Ensure that adjustments are made symmetrically across the vehicle (e.g., both front shocks, both rear shocks) unless a specific asymmetrical setup is desired for racing.

Experimentation and careful observation are key to finding the optimal settings for your specific vehicle and driving style.

MAINTENANCE

Regular maintenance helps ensure the longevity and consistent performance of your Strange S5006 Double Adjustable Shock Kit.

Inspection Schedule:

- **Monthly or Every 1,000 Miles:**
 - Visually inspect shocks for any signs of leaks (oil residue), damage to the shock body, or bent shafts.
 - Check springs for cracks, corrosion, or signs of fatigue.
 - Inspect all mounting hardware for tightness and corrosion. Re-torque if necessary according to vehicle specifications.
- **Before and After Track Use (if applicable):**
 - Perform a thorough inspection as described above.
 - Clean any dirt or debris from the shock bodies and adjustment mechanisms.

Cleaning:

Clean the exterior of the shocks periodically with mild soap and water to remove dirt, salt, and road grime. Avoid using harsh chemicals or abrasive cleaners that could damage the finish or seals. Ensure adjustment knobs are free of debris to allow for smooth operation.

Storage:

If removing shocks for storage, clean them thoroughly and store them in a dry, clean environment away from extreme temperatures and corrosive materials.

TROUBLESHOOTING

This section addresses common issues you might encounter with your S5006 Double Adjustable Shock Kit. For problems not listed here, or if solutions do not resolve the issue, contact Strange Engineering customer support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Excessive Bouncing/Poor Ride Quality	Incorrect damping settings (too soft), worn components, improper spring rate.	Adjust extension and compression settings to a stiffer level. Inspect for leaks or damage. Ensure correct spring rate for vehicle weight.
Harsh Ride/Too Stiff	Incorrect damping settings (too stiff), improper spring rate.	Adjust extension and compression settings to a softer level. Verify spring rate is appropriate.
Oil Leaks from Shock Body	Damaged seal, internal component failure.	This indicates a need for repair or replacement. Contact Strange Engineering for service options.
Clunking/Rattling Noise	Loose mounting hardware, worn bushings, spring not seated correctly.	Check and re-torque all mounting bolts. Inspect bushings for wear. Ensure springs are properly seated on perches.
Uneven Ride Height	Improper ride height adjustment, damaged spring, uneven load.	Re-adjust ride height using thrust bearings. Inspect springs for damage. Ensure vehicle load is balanced.

WARRANTY AND CUSTOMER SUPPORT

For specific warranty information regarding your Strange S5006 Double Adjustable Shock Kit, please refer to the warranty documentation included with your purchase or visit the official Strange Engineering website. Warranty terms and conditions may vary.

If you require technical assistance, have questions about installation, or need to inquire about repairs or replacement parts, please contact Strange Engineering customer support directly:

- **Manufacturer:** Strange Engineering
- **Website:** www.strangeengineering.net (Example, actual URL may vary)
- **Contact Information:** Refer to the website or product packaging for current phone numbers and email addresses.

When contacting support, please have your product model number (S5006) and purchase information readily available.