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> CUSCO Street ZERO A Coilover Kit for Subaru Legacy Touring Wagon (Model: 684-61N-CP)

Cusco 684-61N-CP

CUSCO Street ZERO A Coilover Kit Instruction Manual

Model: 684-61N-CP for Subaru Legacy Touring Wagon

1. PRODUCT OVERVIEW

The CUSCO Street ZERO A Coilover Kit is engineered to provide a superior balance of ride comfort and performance tuning. This premium model features full-length ride height adjustment and 40-step damping force adjustment, allowing precise customization for various driving conditions and personal preferences. It is designed for the Subaru Legacy Touring Wagon (Model: 684-61N-CP).



Image 1.1: Overview of the CUSCO Street ZERO A Coilover Kit.

2. KEY FEATURES

2.1. 40-Step Damping Force Adjustment

The coilover kit features a 40-step damping force adjustment mechanism, allowing for a wide range of settings to fine-tune ride comfort and handling response. The adjustment dial is knurled, enabling tool-free adjustments for convenience.

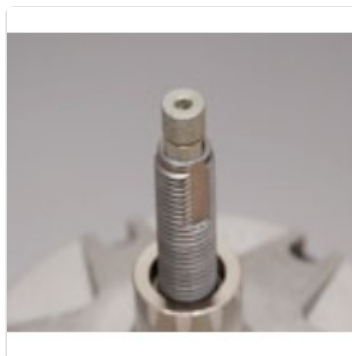


Image 2.1: Close-up of the damping adjustment dial, designed for easy, tool-free changes.



Image 2.2: Diagram illustrating the damping force characteristics and CPRV function.

2.2. Full-Length Ride Height Adjustment

This system allows for ride height adjustment without compromising the suspension's stroke. This ensures that even at lowered settings, the full range of suspension travel is maintained, preserving ride quality and handling.



Image 2.3: A full-length adjustable coilover, demonstrating the ability to change ride height without affecting suspension stroke.

2.3. Standard Upper Mounts

The kit includes reinforced rubber upper mounts as standard for sports and sedan applications. For front strut type vehicles, optional pillow ball upper mounts with camber adjustment are available to accommodate wider tuning requirements.



Image 2.4: Standard upper mount component.

2.4. CPRV (Pressure Regulating Valve)

The integrated CPRV (Pressure Regulating Valve) enhances ride quality by preventing excessive drops in damping force at low speeds. This technology ensures optimal damping force adjustment across the entire speed range, delivering superior ride comfort and high handling stability.



Image 2.5: Internal view of the CPRV (Pressure Regulating Valve).

2.5. Vehicle-Specific Design

Each CUSCO Street ZERO A coilover kit is specifically designed for its intended vehicle model. This ensures adequate bump stroke even with lowered settings. Extensive testing, from single-occupant to full-occupant loads, guarantees comfortable settings under all conditions.

2.6. Quality Construction

The adjustment screw sections are treated with nickel-chrome plating to provide robust protection against rust, sand, and dust. High-polymer thrust sheets are incorporated to prevent lock nut loosening and enhance quietness, reflecting a meticulous attention to product quality.

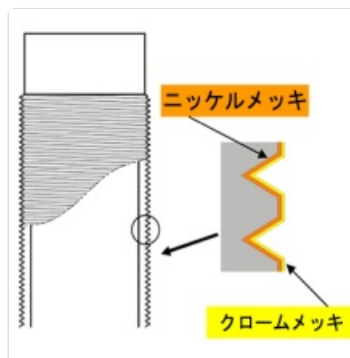


Image 2.6: Detail of nickel-chrome plated threads for corrosion resistance.

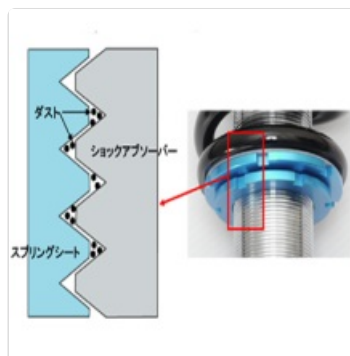


Image 2.7: Illustration of the thrust sheet and lock nut mechanism for stability and quietness.

3. SETUP AND INSTALLATION NOTES

Pre-Installation Verification: Before proceeding with installation, it is crucial to verify the compatibility of this coilover kit with your specific vehicle. Please confirm your vehicle's model type, engine type, drive system, year, and grade using your vehicle inspection certificate and caution plate. Always cross-reference this information with the manufacturer's official website to ensure there are no discrepancies in vehicle compatibility.

Installation should be performed by a qualified professional. Improper installation can lead to vehicle damage or safety

hazards.

4. OPERATING INSTRUCTIONS

4.1. Damping Force Adjustment

The damping force can be adjusted in 40 steps using the dial located on the top or bottom of the shock absorber, depending on the specific design. Turn the dial clockwise for harder damping and counter-clockwise for softer damping. No special tools are required for this adjustment.

4.2. Ride Height Adjustment

Ride height is adjusted by rotating the lower spring seat. Ensure the vehicle is safely supported on jack stands or a lift before making any adjustments. Loosen the lock nut, adjust the spring seat to the desired height, and then securely tighten the lock nut. Always ensure both sides of the vehicle are adjusted evenly.

5. MAINTENANCE

- Regularly inspect the coilovers for any signs of damage, leaks, or corrosion.
- Keep the adjustment threads clean to prevent accumulation of dirt and dust, which can hinder adjustment and cause wear. The nickel-chrome plating helps protect against rust, but regular cleaning is still recommended.
- Check the tightness of all mounting bolts and nuts periodically, especially after initial installation and after significant mileage.
- Ensure the high-polymer thrust sheets are in good condition to maintain quiet operation and prevent lock nut loosening.

6. TROUBLESHOOTING

- **Unusual Noises:** Check all mounting points for proper torque. Inspect for any loose components or contact between the coilover and other vehicle parts.
- **Uneven Ride Height:** Re-measure and adjust the ride height on both sides of the vehicle to ensure symmetry. Verify that the spring seats are correctly positioned and locked.
- **Poor Ride Quality:** Adjust the damping force settings. Experiment with different settings to find the optimal balance for your driving style and road conditions. If issues persist, inspect for damaged components or incorrect installation.

For persistent issues or complex problems, it is recommended to consult with a professional automotive technician or contact CUSCO customer support.

7. SPECIFICATIONS

Feature	Detail
Model Number	684-61N-CP
Compatible Vehicle	Subaru Legacy Touring Wagon (BP5/BPE AWD 2003/5~2009/5)
Front Drop Range	-50mm to -10mm
Rear Drop Range	-45mm to -15mm
Front Spring Rate	6k

Feature	Detail
Rear Spring Rate	6k
Damping Adjustment	40-step (Front & Rear)
Front Upper Mount	Camber adjustable pillow ball upper mount
Rear Upper Mount	Camber fixed pillow ball upper mount
Product Weight	30 kg
Package Dimensions	65 x 36 x 31 cm

8. WARRANTY AND SUPPORT

8.1. Warranty Information

This CUSCO product comes with a 1-year or 10,000km warranty, whichever comes first. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects under normal use conditions.

8.2. Manufacturing Standards

Our products are manufactured in Japan at ISO9001 certified facilities and meet ASEA standards, ensuring high quality and reliability.

8.3. Customer Support

For any questions, technical assistance, or warranty inquiries, please contact CUSCO customer support through their official website or your authorized dealer. Always refer to the official CUSCO website for the most up-to-date information and support resources.