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› [Cusco](#) /

› CUSCO Street ZERO A Coilover Kit for Suzuki Swift Sports (Model 619-62N-CB) - Instruction Manual

Cusco 619-62N-CB

CUSCO Street ZERO A Coilover Kit

Model: 619-62N-CB for Suzuki Swift Sports (ZC32S)

1. PRODUCT OVERVIEW

The CUSCO Street ZERO A Coilover Kit is a high-performance suspension system designed to enhance the driving dynamics and aesthetics of your Suzuki Swift Sports (ZC32S). This kit features full-length adjustable ride height and 40-step damping force adjustment, allowing for precise tuning to achieve optimal ride comfort and handling stability across various driving conditions.

Key features include a vehicle-specific design to ensure adequate bump stroke even at lowered settings, nickel-chrome plated adjustment threads for corrosion resistance, and high-polymer thrust sheets to prevent lock nut loosening and reduce noise. The system also incorporates a CPRV (Pressure Proper Valve) to maintain consistent damping force at low speeds, contributing to superior ride quality and handling.



ローダウンの乗り心地も静音性もトップレベル

「減衰力40段調整」と「全長調整式車高調整」でローダウン量にかかわらず最適な乗り心地と、きめ細やかな車高調整が可能なstreetシリーズのハイエンドモデル



Figure 1: CUSCO Street ZERO A branding and a vehicle equipped with CUSCO suspension.

2. KEY FEATURES AND COMPONENTS

- **Full-Length Ride Height Adjustment:** Allows for precise vehicle height adjustments without compromising suspension stroke.
- **40-Step Damping Force Adjustment:** Provides a wide range of damping settings, from soft to hard, to fine-tune ride comfort and handling characteristics. Adjustments can be made easily with a knurled dial, no tools required.
- **CPRV (Pressure Proper Valve):** Optimizes damping force at low piston speeds to prevent excessive drops, ensuring consistent ride quality and high handling stability across all speed ranges.
- **Nickel-Chrome Plated Adjustment Threads:** The threaded sections are treated with nickel-chrome plating to protect against rust, sand, and dust, ensuring smooth and reliable height adjustments over time.
- **High-Polymer Thrust Sheets:** Integrated to prevent lock nut loosening and reduce unwanted noise, contributing to overall product quality and quietness.
- **Vehicle-Specific Design:** Each kit is engineered specifically for the target vehicle model, ensuring optimal fitment and performance, including sufficient bump stroke even at lowered settings.
- **Reinforced Rubber Upper Mounts:** For sports and sedan models, reinforced rubber upper mounts are adopted to improve comfort and reduce noise. (Note: This specific model, 619-62N-CB, may utilize OEM upper mounts for the

front and rear, as indicated by 'upper mountless' in some specifications, meaning new upper mounts are not included in the kit and existing ones are reused or purchased separately.)



◎ 違いがハッキリわかる減衰力（乗り心地）40段階調整式

ワイドな減衰力調整幅と1~40段の均等な減衰変化でどんなシチュエーション・ステージでも簡単に好みの乗り心地に調整可能です。またローレット加工のダイヤルで減衰調整は工具不要です。



◎ 全長調整式車高調整

車高を下げてもサスペンションストロークが変わらない「全長調整式」。きめ細かい車高調整と、高い乗り心地を両立しました。



◎ アッパーマウント標準装備

専用アッパーマウントを標準装備。ミニバンには静音性の高い純正形状ゴム製アッパーマウントを標準装備することで、さらなる快適性を実現するとともに、純正ショックからのアッパーマウント付替えが不要となることで作業性も向上しました。



◎ CPRV（圧力適正化バルブ）採用

低速時に減衰力が必要以上に下がらないよう、変更幅を適正にするCPRV（圧力適正化バルブ）を採用。低速から高速までの全領域で、最高の乗り心地と高い操縦安定性が得られます。

Figure 2: Key features of the CUSCO Street ZERO A coilover, including damping adjustment and CPRV.

◎ 車種別専用設計でロードダウンしても十分なバンプストロークを確保

ラインナップする車種ごとに専用設計しているため、十分なバンプストロークを確保。また1人乗車からフル乗車まで徹底的にテストし、ミニバンならサードシートまで快適なセッティングを施しました。

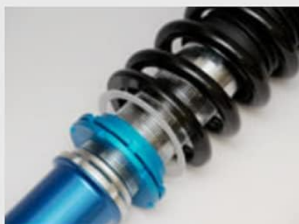
◎ 複筒式ショックの採用で、マイルドな乗り心地と十分なストローク

マイルドな乗り心地を提供する、複筒式構造の低圧ガスショックアブソーバーを採用。余裕のあるシェルケースとピストン径で十分なオイル容量を確保し、スムーズな減衰特性を発揮することで、なめらかな乗り心地と高い走行性能を両立しました。



◎ e-con2対応

運転席からボタンひとつで減衰力を調整できる「e-con2」に対応。シーンにあわせていつでも最適な減衰力に調整できます（適合車種のみ）。



◎ 細部へのこだわり

調整ネジ部には「ニッケルクロームメッキ処理」を採用し、サビや砂・ダストからしっかりガード。また、ロックナットの緩み防止や静音性向上のために高分子ポリマー製スラストシートを挟み込むなど、品質に徹底的にこだわっています。

◎ 安心の国内生産。工場はISO9001認証取得、さらにASEA基準も満たす認定品

◎ 1年、または10,000kmの安心保証つき

※ユーザー登録が必要です

Figure 3: Further details on product design, e-con2 compatibility, and material quality.

3. SETUP AND INSTALLATION

Installation of the CUSCO Street ZERO A Coilover Kit should be performed by a qualified professional or an experienced mechanic. Incorrect installation can lead to vehicle damage, poor performance, or safety hazards.

3.1 Pre-Installation Checks

- Verify that the coilover kit model (619-62N-CB) is compatible with your Suzuki Swift Sports (ZC32S, 2011/12~).
- Inspect all components for any shipping damage or missing parts.
- Gather all necessary tools, including jacks, jack stands, wrenches, sockets, torque wrenches, and spring compressors (if required for upper mount transfer).

3.2 General Installation Steps (Summary)

1. Safely lift the vehicle and secure it on jack stands.
2. Remove the wheels.
3. Disconnect brake lines, ABS sensors, and sway bar links from the OEM suspension.
4. Remove the OEM shock absorbers and springs.
5. If applicable, transfer OEM upper mounts to the new CUSCO coilovers.
6. Install the CUSCO coilovers, ensuring all bolts are torqued to manufacturer specifications.
7. Reconnect all disconnected components.
8. Reinstall wheels and lower the vehicle.

9. Perform an initial ride height adjustment.
10. After installation, a professional wheel alignment is highly recommended.

4. OPERATING AND ADJUSTMENT

The CUSCO Street ZERO A coilovers offer precise adjustments for ride height and damping force to tailor your vehicle's performance to your preferences.

4.1 Ride Height Adjustment

The front coilovers feature full-length adjustment, while the rear utilizes a threaded spacer adjustment. To adjust ride height:

- Loosen the lock nuts on the coilover body.
- Rotate the lower bracket (front) or threaded spacer (rear) to raise or lower the vehicle.
- Ensure equal adjustments on both sides of the vehicle to maintain balance.
- Tighten the lock nuts securely after adjustment.
- Recommended lowering amount for this model: Front -50~-25mm, Rear -45~-30mm.

4.2 Damping Force Adjustment

Both front and rear coilovers feature 40-step damping force adjustment. This allows you to fine-tune the stiffness of the suspension.

- Locate the damping adjustment dial at the top of the shock absorber shaft (or bottom, depending on design).
- Rotate the dial to select your desired damping setting. Typically, '1' is the softest and '40' is the hardest.
- No special tools are required for this adjustment, thanks to the knurled dial.
- Experiment with different settings to find the optimal balance between comfort and performance for your driving style and road conditions.

★好みの乗り心地を選べる減衰力調整

40 減衰力40段調整 40-step damping force adjustable **streetA** **streetA** **streetA** **streetA**

乗り心地の違いがハッキリわかる減衰力（乗り心地）40段調整システム。
ワイドな減衰力調整幅と1~40段の均等な減衰変化を可能にする新開発高性能ニードルバルブを採用しています。
純正と同等の減衰力にも調整可能です。

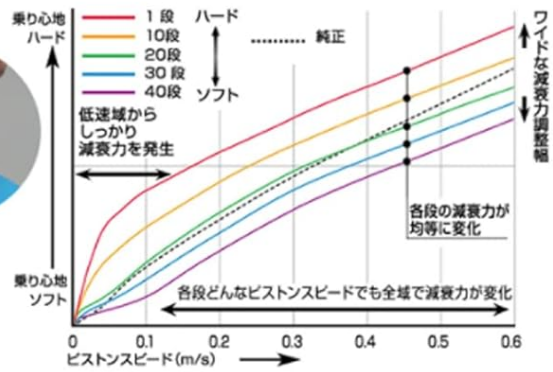
40-step damper adjustable shock absorber system enables a wide range of suspension setting suitable for virtually any given road condition.

ローレット加工減衰力40段調整ダイヤル

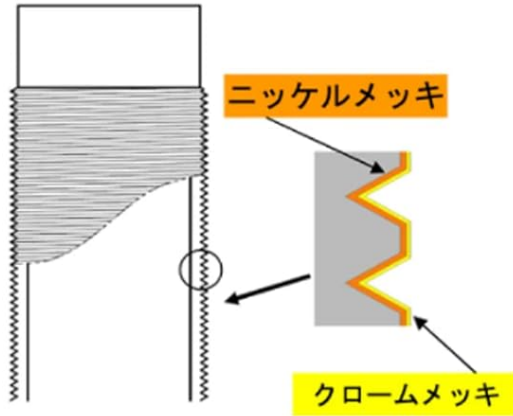


グラフでもわかる乗り心地の良さ!!

- ☆減衰力（乗り心地）を純正よりもソフトに調整することが可能。
- ☆減衰力の調整幅が広いため、状況に合わせて好みの乗り心地に調整できる。
- ☆各段ハッキリ均等に減衰力が変わるため調整がしやすい。

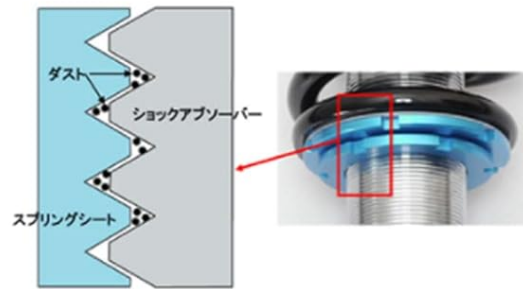


ショックアブソーバーネジ部
ニッケルクロームメッキ処理



ショックアブソーバーの車高調ネジ部には、ニッケルクロームメッキを採用しています。これはニッケルメッキの上にクロームメッキを掛ける表面処理で、樹脂系、塗装系の表面処理にくらべ高いモース硬度（引っかかり強さ）が得られ、耐食性と車高調整時の砂・ダストに対応する硬さも両立しています。

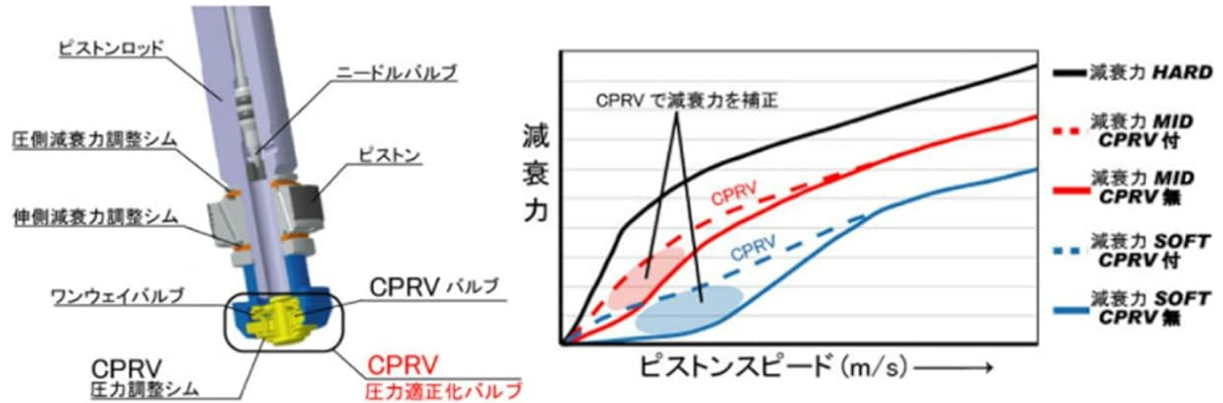
ショックアブソーバーネジ部 台形ネジ



ショックアブソーバーの車高調のネジ山の形状は台形ネジになっています。これは車高調整時に洗浄で取りきれないダストが残った際にも、ネジ山をなるべく傷めない配慮です。

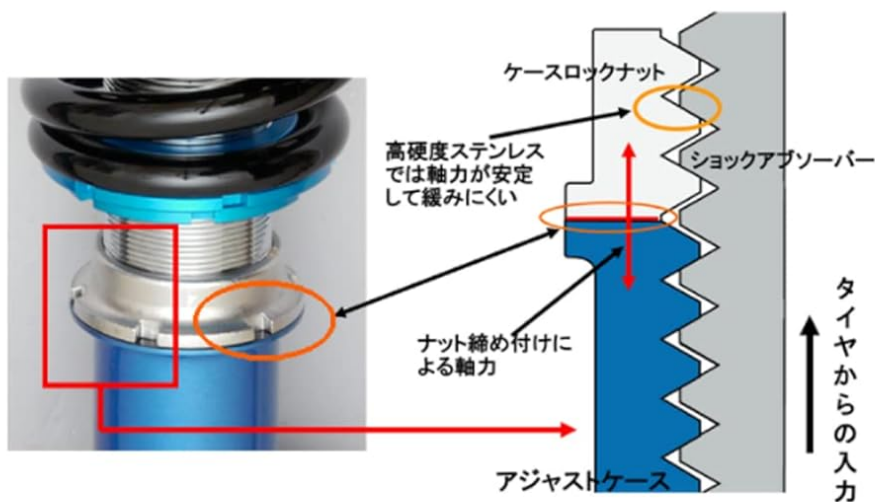
Figure 4: Damping force adjustment mechanism and graph illustrating the range of adjustment.

CPRV (圧力適正化バルブ)



減衰力調整部 (バイパス部) に流れる流量の調整を行い、低速減衰力が必要以上に下がらないように変化幅を適正にすることで、乗り心地と操縦安定性の向上、および不快な音を抑えることができます。

車高調整部 ステンレス製ケースロックナット



車高調整部にはネジ山がたわまない・ゆがまない、回転軸に対して軸力が安定する高い強度の「ステンレス製ケースロックナット」を採用しています。さらにアジャストケースとケースロックナットの接触面を大きく取った「未広がり」形状で緩みを防止します。

Figure 5: Detailed view of the CPRV system and the robust stainless steel lock nut.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your CUSCO Street ZERO A Coilover Kit.

- **Regular Cleaning:** Periodically clean the coilover bodies, especially the threaded sections, to remove dirt, salt, and debris. This helps prevent corrosion and ensures smooth height adjustments.
- **Inspection:** Regularly inspect the coilovers for any signs of damage, leaks, or loose components. Check the condition of rubber boots and bushings.
- **Torque Check:** After initial installation and periodically thereafter (e.g., every 5,000 km or 3 months), re-check the torque of all mounting bolts and lock nuts to ensure they are securely fastened.
- **Rust Prevention:** While the adjustment threads are nickel-chrome plated for protection, applying a thin layer of anti-corrosion grease to exposed threads can provide additional protection, especially in harsh environments.

6. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, consult a professional mechanic.

6.1 Abnormal Noises (Clunking, Squeaking)

- **Loose Bolts:** Check all mounting bolts and lock nuts for proper torque.
- **Component Contact:** Inspect for any parts of the suspension or vehicle body making contact during compression or rebound.
- **Worn Bushings:** Check the condition of all bushings.

6.2 Uneven Ride Height

- **Incorrect Adjustment:** Re-measure and adjust the ride height on all four corners, ensuring consistency.
- **Spring Sag:** While rare for new components, inspect springs for any signs of fatigue or damage.

6.3 Poor Ride Quality / Handling

- **Damping Settings:** Adjust damping force. If the ride is too harsh, try softer settings. If it feels too bouncy or uncontrolled, try harder settings.
- **Tire Pressure:** Ensure tire pressures are set correctly.
- **Wheel Alignment:** An incorrect wheel alignment can significantly impact handling. Have a professional alignment performed.

7. SPECIFICATIONS

Specification	Detail
Brand	Cusco
Model Name	Street ZERO A
Product Model Number	619-62N-CB
Compatible Vehicle	Suzuki Swift Sports (ZC32S)
Compatible Years	2011/12~
Front Lowering Amount	-50mm to -25mm
Rear Lowering Amount	-45mm to -30mm
Front Adjustment Type	Full-length adjustable
Rear Adjustment Type	Threaded spacer adjustable
Front Damping Adjustment	40-step adjustable
Rear Damping Adjustment	40-step adjustable
Front Spring Rate	6 kgf/mm
Rear Spring Rate	4 kgf/mm

Upper Mounts	Front: Upper mountless (reuses OEM), Rear: Upper mountless (reuses OEM)
Product Weight	30 Kilograms
Package Dimensions	65 x 36 x 24.55 cm

8. WARRANTY

The CUSCO Street ZERO A Coilover Kit comes with a reliable warranty of **1 year or 10,000 km**, whichever comes first. This warranty covers manufacturing defects and ensures peace of mind regarding the product's quality and durability. Please retain your proof of purchase for warranty claims. User registration may be required to activate the warranty.

9. SUPPORT AND CONTACT

For technical assistance, installation inquiries, or warranty claims, please contact CUSCO customer support or visit the official CUSCO website. Always refer to your specific product model number (619-62N-CB) when seeking support. Before purchasing, it is crucial to confirm vehicle compatibility on the manufacturer's homepage using your vehicle's model, engine type, drive system, year, and grade information from your vehicle inspection certificate or caution plate.

Official CUSCO Website: www.cusco.co.jp