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> [CUSCO Strut Bar Type OS for Suzuki Swift Sport ZC33S - Installation and Usage Manual](#)

CUSCO 60J 540 A

CUSCO Strut Bar Type OS for Suzuki Swift Sport ZC33S - Installation and Usage Manual

Model: 60J 540 A | Brand: CUSCO

1. PRODUCT OVERVIEW

The CUSCO Strut Bar Type OS is engineered to enhance the structural rigidity of your vehicle's chassis. Specifically, it connects the upper mounting points of the front suspension on both sides. This connection minimizes chassis flex and distortion, particularly during dynamic driving conditions such as cornering. By reinforcing the front suspension, the strut bar allows the suspension components to operate more accurately and efficiently. This results in improved steering response, sharper handling, and increased vehicle stability. Additionally, the reduction in chassis movement contributes to a more comfortable ride by suppressing unwanted vibrations and flex.

The product features a high-quality finish, which also serves as an aesthetic upgrade for the engine bay.

2. KEY FEATURES

- **Enhanced Front Suspension Rigidity:** Connects the left and right front suspension towers to reduce chassis flex.
- **Improved Handling and Steering Response:** Contributes to a more direct and precise steering feel.
- **Reduced Chassis Distortion:** Minimizes unwanted body movement during cornering and aggressive driving.
- **Increased Ride Comfort and Stability:** By controlling chassis flex, the vehicle feels more planted and stable.
- **Durable Construction:** Made with high-quality materials for long-lasting performance.
- **Aesthetic Engine Bay Upgrade:** Features a polished finish that enhances the visual appeal of the

engine compartment.

- **Vehicle Specific Design:** Tailored for direct fitment on the Suzuki Swift Sport (ZC33S).

3. SETUP AND INSTALLATION

Installation of the CUSCO Strut Bar Type OS requires careful attention to detail and proper tools. It is recommended that installation be performed by a qualified mechanic or an individual with experience in automotive modifications.

3.1 Pre-Installation Check

- Verify that the product model (60J 540 A) is compatible with your Suzuki Swift Sport (ZC33S).
- Ensure all necessary hardware (bolts, nuts, washers) is present.
- Gather required tools, which typically include wrenches, sockets, and a torque wrench.

3.2 Installation Steps (General Guidance)

1. Park the vehicle on a level surface and engage the parking brake. Allow the engine to cool down.
2. Open the hood to access the engine bay.
3. Locate the upper mounting points of the front suspension towers. These are typically visible on either side of the engine bay, near the firewall.
4. Carefully position the strut bar over the mounting points. It may be necessary to temporarily remove or reposition certain engine bay components (e.g., plastic covers, hoses) to gain clear access.
5. Align the holes on the strut bar's end plates with the existing bolt holes on the suspension towers.
6. Insert the provided bolts and hand-tighten them. Do not fully tighten at this stage.
7. Once all bolts are in place and hand-tightened, progressively tighten them using a wrench. Refer to your vehicle's service manual or the strut bar's specific instructions for recommended torque specifications. Ensure even tightening across all bolts.
8. Double-check that the strut bar does not interfere with any moving parts or other components in the engine bay.
9. Close the hood.

Note: Some installation points, particularly on the driver's side, may be challenging to access. Patience and appropriate tools (e.g., offset wrenches, universal joints) may be required. If you encounter difficulties, seek professional assistance.



Image 1: Overall view of the CUSCO Strut Bar Type OS installed in the engine bay of a Suzuki Swift Sport ZC33S. The blue bar connects the two front suspension towers.



Image 2: Close-up view of the CUSCO Strut Bar Type OS mounting bracket on the passenger side front suspension tower.

The blue bracket is securely bolted to the chassis.



Image 3: Close-up view of the CUSCO Strut Bar Type OS mounting bracket on the driver side front suspension tower. The blue bracket is securely bolted to the chassis, showing the connection point.

4. OPERATING INSTRUCTIONS AND PERFORMANCE BENEFITS

The CUSCO Strut Bar Type OS is a passive performance enhancement that operates continuously once installed. It does not require any active user input during driving.

4.1 Driving Experience

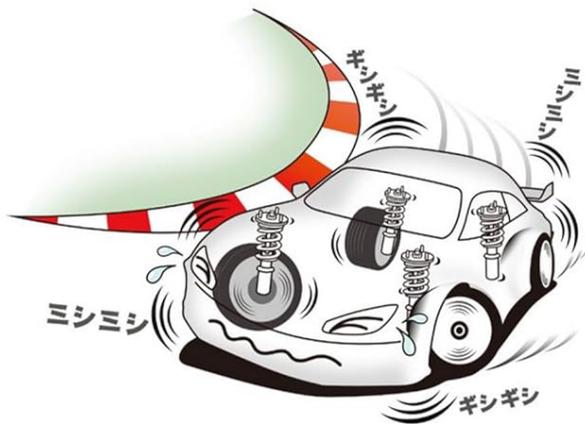
Upon installation, drivers typically notice an immediate improvement in the vehicle's dynamic behavior. The primary effects include:

- **Enhanced Steering Precision:** The reduction in chassis flex translates to a more direct and responsive feel from the steering wheel.
- **Improved Cornering Stability:** During turns, the strut bar helps maintain the optimal geometry of the front suspension, reducing body roll and allowing the tires to maintain better contact with the road.
- **Increased Straight-Line Stability:** The added rigidity can contribute to a more stable feel when driving in a straight line, especially at higher speeds or over uneven surfaces.
- **Predictable Handling:** The vehicle's reactions to driver inputs and road conditions become more consistent and predictable.

These benefits are particularly noticeable during spirited driving, track use, or on winding roads, where the

chassis is subjected to greater stresses.

走行中クルマのボディはゆがんでいる クルマを意のままに操るためには高い「ボディ剛性」が不可欠



クルマは走行中、外からかかる力（路面からの入力）によってボディがしなったり、ねじれたり、目に見えないレベルでゆがみが生じています。剛性が高いボディはゆがみが小さく、剛性が低いボディはゆがみが大きくなります。では、ボディがゆがむとどうなるか？ ボディをある程度しならせることは、路面からの衝撃をボディが吸収してくれるので、快適性の向上につながることもあります。しかし、ボディがゆがむと路面へ伝えたい力が吸収されてしまうことになり、コーナリング性能やトラクション性能の低下にもつながるのです。

ハイグリップタイヤや高性能なサスキットを装着しても、ボディが歪んだり、捻じれては本来の性能を発揮することができません。さらにハンドリングや直進安定性に悪影響を及ぼす要因となります。ドライバーの思い通りの走りを実現するためには、路面からの入力で変形しない高いボディ剛性が絶対的に必要だとクスコは考えています。

鍛えられたボディは走りが違う！

そこでスポット増しやロールバーを装着した競技車のような剛性感を、ボルトオンの手軽さで手に入れられることをコンセプトとしているのがクスコのボディ剛性パーツです。装着によりボディのねじれやゆがみ、さらにはサスペンションのアライメント変化を抑え、そのクルマが持つ本来のサスペンション性能を引き出すことで、ドライバーの操作に忠実でシャープなハンドリングを実現します。スポーツ走行はもちろん、高速道路や街乗りでも車種を問わずその効果を発揮します。



Image 4: Diagram showing how a vehicle's body can flex during cornering (top) and how a strut bar helps to reduce this distortion (bottom), leading to improved stability.

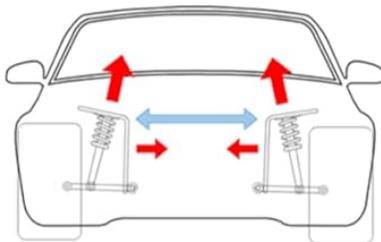
簡単・確実・効果抜群！剛性アップの基本

ストラットバー STRUT TOWER BRACE

ストラットバーはお手軽かつ効果の大きいボディ剛性パーツです。サスペンション上部を固定しているストラットタワーまわりは、路面からの入力を受けやすい部分で、特に操舵を行うフロントはハンドリングへの影響も大きくなります。コストを優先する自動車メーカーがストラットバーを純正採用することもあるのもハンドリング性能を上げるためなのです。それだけ大きな効果が得られるパーツであるストラットバーは、左右のストラットタワーの変形をガッチリ抑える"突っ張り棒"。もう一つのフレームとしてボディのゆがみを抑え、ステアリングレスポンスを格段に向上させ、シャープなハンドリングを生み出します。さらにボンネットを開けた時に真っ先に目に飛び込んでくる、エンジンルームのドレスアップパーツとしてもインパクト抜群です！



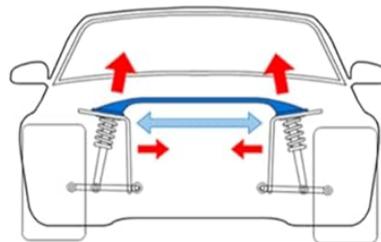
ストラットバー未装着



※イラストはあくまでもイメージです。

コーナリングでクルマに横Gがかかると、タイヤからサスペンションを通じた力がストラットタワーを押し上げ、ボディが微妙に歪みます。ボディが歪むことで前後左右のアライメントが微妙に変化するため、ハンドリングや乗り心地が「ピシッ」としません。

ストラットバー装着後



※イラストはあくまでもイメージです。

ストラットタワーバーは左右のストラットタワーを結びつけ、ボディの歪みを抑えます。開口部が広いいため歪みやすいエンジンルーム、ラゲッジスペースの剛性を高め、ボディ全体の歪みを抑制する効果があります。

Image 5: Technical diagram illustrating the effect of a strut bar on suspension geometry. The top diagram shows potential misalignment without a strut bar, while the bottom diagram shows improved alignment and reduced distortion with a strut bar installed.

5. MAINTENANCE

The CUSCO Strut Bar Type OS is designed for durability and requires minimal maintenance. Regular inspections are recommended to ensure optimal performance and safety.

- **Periodic Bolt Check:** Every 3,000 to 5,000 miles (or every 3 to 6 months), inspect all mounting bolts for tightness. Vibrations from driving can cause fasteners to loosen over time. Re-tighten any loose bolts to the manufacturer's specified torque.
- **Visual Inspection:** Regularly check the strut bar for any signs of physical damage, such as bends, cracks, or severe corrosion. If any damage is observed, the bar should be inspected by a professional and replaced if necessary.
- **Cleaning:** To maintain the aesthetic finish, clean the strut bar with a mild automotive cleaner and a soft cloth as needed. Avoid abrasive cleaners or harsh chemicals that could damage the finish.

6. TROUBLESHOOTING

If you experience any issues after installing the CUSCO Strut Bar Type OS, consider the following troubleshooting steps:

- **Unusual Noises (Rattling, Squeaking):**
 - Re-check all mounting bolts to ensure they are securely tightened. Loose bolts are a common cause of rattling.
 - Inspect for any contact between the strut bar and other engine bay components (hoses, wires, plastic covers). Adjust the position slightly if possible, or secure interfering components away from the bar.
- **Worsened Handling or Unpredictable Steering:**
 - Verify that the strut bar is installed correctly and all bolts are tightened to specification.
 - Confirm that the correct model (60J 540 A) is installed for your specific vehicle (Suzuki Swift Sport ZC33S). Incorrect fitment can lead to adverse effects.
 - If the issue persists, remove the strut bar and test drive the vehicle to determine if the problem is directly related to the bar's installation.
- **Difficulty During Installation:**
 - If you encounter significant difficulty aligning bolts or accessing mounting points, do not force components. This could damage the vehicle or the product.
 - Consider seeking professional installation from a reputable automotive service center.

7. SPECIFICATIONS

Brand	CUSCO
Model Name	60J 540 A

Product Model Number	60J 540 A
Product Weight	2.7 Kilograms
Package Dimensions	118 x 18 x 16 cm
Vehicle Compatibility	Suzuki Swift Sport (ZC33S)
ASIN	B07CJ3HJKC
First Available Date	March 20, 2018

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The CUSCO Strut Bar Type OS is covered by the manufacturer's warranty. The specific terms and duration of the warranty are subject to CUSCO's official policy. Please retain your proof of purchase for any warranty claims.

For detailed warranty information, including coverage, limitations, and claim procedures, please refer to the official CUSCO website or contact CUSCO customer service directly.

8.2 Customer Support

For technical assistance, installation inquiries, or any other product-related questions, please utilize the following resources:

- **Official CUSCO Website:** Visit www.cusco.co.jp for product catalogs, technical documents, and contact information.
- **Authorized Dealers:** Contact your local authorized CUSCO dealer for expert advice and professional installation services.

Note: The manufacturer's website for strut bars is http://www.cusco.co.jp/catalog/body/strut_bar.html.