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› SCITOO Front Shock Absorber Assembly Instruction Manual

SCITOO 119213-5336-1940362793

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Model: 119213-5336-1940362793

1. INTRODUCTION

This instruction manual provides detailed information for the installation, operation, and maintenance of the SCITOO Front Shock Absorber Assembly. This product is designed to fit specific Toyota Yaris models from 2006 to 2012. Please read this manual thoroughly before installation and use to ensure proper function and safety.

The SCITOO shock absorber assembly is engineered to enhance vehicle stability, ride comfort, and braking performance by effectively dampening spring and suspension movements. It is a complete unit, including the strut, coil spring, strut mount, boot, bumper kit, spring seat, and isolator.

2. VEHICLE COMPATIBILITY

This SCITOO Front Shock Absorber Assembly is compatible with the following vehicle models:

- **Make:** Toyota
- **Model:** Yaris
- **Years:** 2006, 2007, 2008, 2009, 2010, 2011, 2012

Reference OE Numbers: 272289, 272288

It is crucial to verify compatibility using the provided OE numbers and vehicle specifications before installation. Refer to the product images and specifications to confirm this is the correct part for your vehicle.

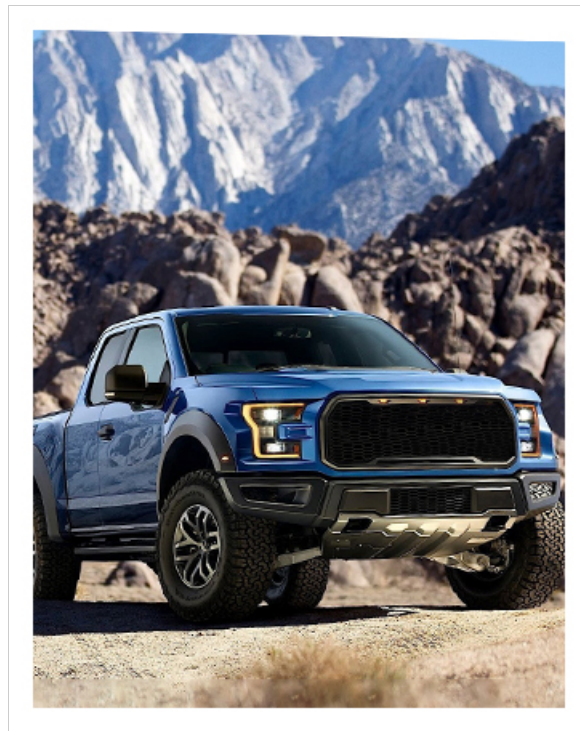


Figure 2.1: Compatibility information for Toyota Yaris models from 2006 to 2012, including reference OE numbers.

3. SAFETY INFORMATION

Always prioritize safety when working with vehicle components. Improper installation or handling can lead to serious injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery if working near electrical components.
- Follow all vehicle manufacturer's service manual procedures for suspension component removal and installation.
- If you are unsure about any step, consult a qualified automotive technician.
- The shock absorber assembly may be shipped in two separate packages. Ensure both parts are received before starting installation.

4. PRODUCT COMPONENTS

Each SCITOO Front Shock Absorber Assembly is a complete unit designed for direct replacement. It includes the following integrated components:

- **Strut:** The main dampening component.
- **Coil Spring:** Supports vehicle weight and absorbs road impacts.
- **Strut Mount:** Connects the strut to the vehicle chassis, often containing a bearing for steering.
- **Boot:** Protects the strut shaft from dirt and debris.
- **Bumper Kit:** Prevents harsh bottoming out of the suspension.
- **Spring Seat:** Provides a stable platform for the coil spring.
- **Isolator:** Reduces noise and vibration between the spring and other components.



Figure 4.1: A pair of SCITOO Front Shock Absorber Assemblies.



Figure 4.2: Breakdown of key components: Upper Strut Mount, Coil Spring, and Premium Strut.

5. INSTALLATION INSTRUCTIONS

The following steps outline the general procedure for installing the SCITOO Front Shock Absorber Assembly. This is a general guide; always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

1. **Prepare Tools and Materials:** Gather all necessary tools, including jacks, jack stands, lug wrench, socket set, wrenches, and a torque wrench.
2. **Park the Vehicle Safely:** Park the vehicle on a flat, level surface. Engage the parking brake and block the rear wheels.
3. **Loosen Lug Nuts:** Slightly loosen the lug nuts on the front wheels while the vehicle is still on the ground.
4. **Raise and Secure Vehicle:** Jack up the front of the vehicle and support it securely with jack stands. Ensure the vehicle is stable before proceeding.
5. **Remove Tires:** Fully remove the lug nuts and then remove the front tires.
6. **Locate Strut Connection Points:** Identify the upper strut mount bolts under the hood (or inside the cabin, depending on vehicle design) and the lower strut bolts connecting to the steering knuckle or control arm.
7. **Remove Old Shock Struts:**
 - Remove any brake lines, ABS sensor wires, or sway bar links attached to the strut assembly.
 - Support the steering knuckle/control arm to prevent it from dropping excessively.
 - Remove the lower strut mounting bolts.
 - Remove the upper strut mount nuts.
 - Carefully remove the old strut assembly from the vehicle.
8. **Install New Shock Struts:**
 - Position the new SCITOO strut assembly into the vehicle.
 - Align the upper strut mount studs with the holes and loosely install the nuts.
 - Align the lower strut mounting holes with the steering knuckle/control arm and install the bolts. Tighten to vehicle manufacturer's specifications.

- Reattach any brake lines, ABS sensor wires, or sway bar links that were removed.
 - Fully tighten the upper strut mount nuts to vehicle manufacturer's specifications.
9. **Reinstall Tires:** Place the tires back on the vehicle and hand-tighten the lug nuts.
 10. **Lower Vehicle:** Carefully lower the vehicle until the tires are just touching the ground, then fully tighten the lug nuts in a star pattern to the manufacturer's specified torque.
 11. **Final Check:** Lower the vehicle completely. Check all connections for tightness. Test drive the vehicle slowly to ensure proper function and no abnormal noises. An alignment is highly recommended after replacing suspension components.

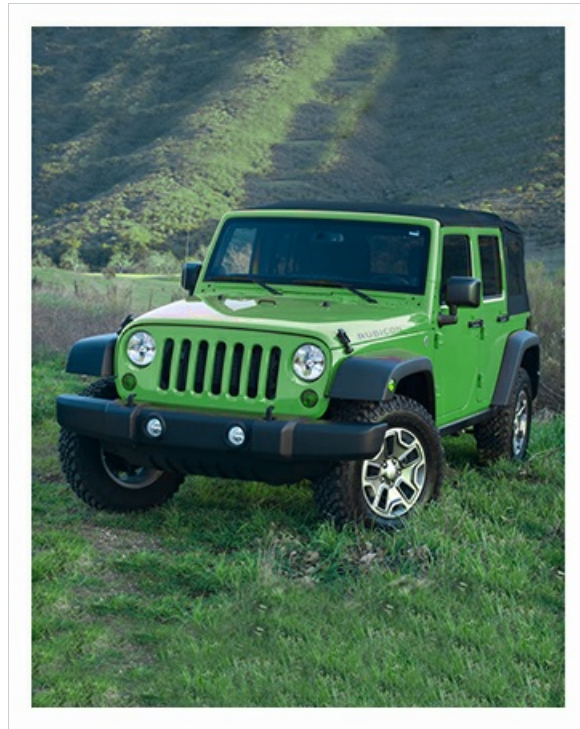


Figure 5.1: Illustration of the installation process, highlighting the ease of installation.

6. OPERATING CHARACTERISTICS

Once installed, the SCITOO Front Shock Absorber Assembly will contribute to the vehicle's overall ride quality and handling. Key operating characteristics include:

- **Improved Ride Comfort:** Designed to absorb road imperfections, providing a smoother and more comfortable driving experience.
- **Enhanced Stability:** Helps maintain consistent tire contact with the road, improving vehicle control and reducing body roll during turns and braking.
- **Optimized Braking Performance:** Contributes to shorter stopping distances and more stable braking by preventing excessive nose-dive.
- **Reduced Noise:** Engineered to minimize abnormal noises often associated with worn suspension components.



Figure 6.1: Benefits of SCITOO Struts: Noise elimination, enhanced comfort, no oil leakage, and increased stability.

7. MAINTENANCE

The SCITOO Front Shock Absorber Assemblies are designed for long-term durability and typically require minimal maintenance. However, regular vehicle inspections are recommended to ensure optimal performance and longevity of all suspension components.

- **Regular Inspections:** During routine vehicle maintenance (e.g., oil changes, tire rotations), visually inspect the shock absorber assemblies for any signs of damage, such as:
 - Oil leaks from the strut body.
 - Damaged or torn dust boots.
 - Corrosion on the spring or strut body.
 - Loose or damaged mounting hardware.
- **Wheel Alignment:** It is highly recommended to perform a wheel alignment after replacing any suspension components to ensure proper steering and tire wear.
- **Cleaning:** Keep the suspension area free from excessive dirt and debris, which can contribute to premature wear.

8. TROUBLESHOOTING

If you experience issues after installing the SCITOO Front Shock Absorber Assembly, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Abnormal Noise (clunking, squeaking)	Loose mounting bolts, incorrect installation, damaged component (rare for new parts).	Re-check all mounting bolts for proper torque. Ensure all components are correctly seated. Inspect for any contact with other vehicle parts.

Symptom	Possible Cause	Solution
Poor Ride Quality (too stiff/soft, bouncy)	Incorrect part for vehicle, air in system (if applicable), other worn suspension components.	Verify part compatibility. Ensure proper installation. Inspect other suspension components (e.g., control arm bushings, ball joints) for wear.
Uneven Ride Height	Incorrect part, spring not seated correctly, other worn suspension components.	Verify part compatibility. Ensure the coil spring is properly seated in its upper and lower seats. Inspect other suspension components.

If troubleshooting steps do not resolve the issue, contact SCITOO customer support or a qualified automotive technician.

9. PRODUCT SPECIFICATIONS

Attribute	Value
Brand	SCITOO
Auto Part Position	Front
Style	Complete Struts Spring Assembly
Vehicle Service Type	Car
Material	Metal
OEM Part Number	272289, 272288
Automotive Fit Type	Vehicle Specific Fit
UPC	198519013915
Model Number	119213-5336-1940362793
Item Weight	33.7 pounds
Product Dimensions	26.1 x 15.35 x 8.27 inches



Figure 9.1: Product dimensions and key specifications.

10. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the SCITOO official website or contact their customer service directly. Ensure you have your purchase details and product model number (119213-5336-1940362793) available when contacting support.

SCITOO aims to provide high-quality auto parts and customer satisfaction. For further assistance, visit the [SCITOO Store on Amazon](#).

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This manual is for informational purposes only. Always consult a professional for complex installations.

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