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Tein GSB48-91SS2

Tein Street Advance Z Coilovers

INSTALLATION AND ADJUSTMENT MANUAL FOR ACURA TSX (2004-2008)

Model: GSB48-91SS2

1. Introduction

This manual provides detailed instructions for the proper installation, adjustment, and maintenance of your Tein Street Advance Z Coilovers, Model GSB48-91SS2, designed for the Acura TSX (2004-2008). Adhering to these guidelines will ensure optimal performance and longevity of your suspension system. Please read this manual thoroughly before beginning any work.

2. Important Safety Information

WARNING: Improper installation or adjustment of suspension components can lead to serious injury or death. If you are not confident in your mechanical abilities, seek assistance from a qualified professional.

- Always use appropriate safety equipment, including eye protection and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before working underneath it. Never rely solely on a jack.
- Do not modify any components of the coilover system.
- Verify all fasteners are tightened to the manufacturer's specified torque values.
- After installation, perform a wheel alignment to prevent premature tire wear and ensure safe vehicle handling.

3. Product Overview

The Tein Street Advance Z Coilovers are designed to provide enhanced handling and adjustable ride height for your Acura TSX. Key features include:



This image displays the complete set of Tein Street Advance Z Coilovers, including two fully assembled coilover units (springs on dampers), two separate green springs, two silver adjustment wrenches, and several silver washers, all laid out on a dark background.

- **Steel Construction:** Durable and robust design for long-lasting performance.
- **Twin Tube Internal Construction:** Provides a comfortable ride with reliable damping characteristics.
- **16-way Damping Adjustment:** Allows for precise tuning of ride comfort and handling response.
- **Ride Height Adjustable:** Customize your vehicle's stance via the spring seat.
- **Factory Sealed:** Ensures product integrity and quality upon delivery.

4. Installation Guide

4.1 Pre-Installation Checklist

- Confirm all components are present and undamaged.
- Ensure the vehicle is the correct make, model, and year (Acura TSX 2004-2008).
- Review the vehicle's service manual for specific torque specifications and removal procedures for OEM suspension.

4.2 Required Tools

- Vehicle lift or jack and jack stands
- Socket and wrench set (metric)
- Torque wrench
- Spring compressor (if required for OEM strut removal)
- Penetrating oil
- Anti-seize lubricant
- Adjustment wrenches (included with coilovers)

4.3 Installation Steps (General)

1. **Prepare Vehicle:** Lift the vehicle and secure it on jack stands. Remove wheels.
2. **Remove OEM Suspension:** Disconnect brake lines, ABS sensors, and sway bar links from the existing strut assembly. Unbolt the top hat from the chassis and the lower mount from the knuckle. Carefully remove the OEM strut.
3. **Install Tein Coilovers:** Install the new Tein coilover assembly. Ensure proper orientation. Secure the top hat to the chassis and the lower mount to the knuckle. Reconnect all disconnected components.
4. **Initial Adjustments:** Set initial ride height and damping settings as desired (refer to Section 5).
5. **Torque Fasteners:** Tighten all bolts and nuts to the vehicle manufacturer's specified torque values.
6. **Reinstall Wheels:** Mount wheels and lower the vehicle.
7. **Final Checks:** Bounce the vehicle to settle the suspension. Check for any clearance issues.
8. **Wheel Alignment:** It is crucial to have a professional wheel alignment performed immediately after installation.

5. Adjustment Procedures

5.1 Ride Height Adjustment

The ride height can be adjusted by rotating the lower spring seat. Use the provided adjustment wrenches.

- Loosen the lock collar above the spring seat.
- Rotate the spring seat to raise or lower the vehicle. Clockwise rotation typically lowers the vehicle, while counter-clockwise rotation raises it.
- Ensure both sides of the vehicle are adjusted evenly to maintain balance.
- After setting the desired height, tighten the lock collar securely against the spring seat.
- Always re-check ride height after driving a short distance to allow the suspension to settle.

5.2 Damping Force Adjustment

The Tein Street Advance Z Coilovers feature 16-way damping force adjustment, allowing you to fine-tune the ride characteristics.

- The damping adjustment knob is located at the top of the coilover shaft.
- Turn the knob clockwise for a firmer ride (increased damping force).
- Turn the knob counter-clockwise for a softer ride (decreased damping force).
- Start with the recommended factory settings (refer to Tein's official documentation if available) and adjust incrementally.

- Ensure all four coilovers are adjusted to the same setting or a balanced setting for optimal handling.

6. Maintenance

Regular maintenance helps preserve the performance and lifespan of your coilovers.

- **Regular Inspection:** Periodically inspect coilovers for signs of leaks, damage, or loose components.
- **Cleaning:** Keep the coilover bodies and threads clean, especially after driving in harsh conditions (e.g., snow, salt, dirt). Use mild soap and water.
- **Thread Lubrication:** Apply anti-seize lubricant to the adjustment threads annually to prevent seizing and ensure smooth height adjustments.
- **Torque Check:** Re-check the torque of all mounting bolts and nuts periodically, especially after the first few hundred miles of driving.

7. Troubleshooting

This section addresses common issues you might encounter.

Issue	Possible Cause	Solution
Uneven Ride Height	Incorrect height adjustment; suspension not settled.	Re-measure and adjust ride height evenly. Drive the vehicle to settle suspension, then re-check.
Excessive Bouncing/Harsh Ride	Damping force set too soft/firm; incorrect spring preload.	Adjust damping force (Section 5.2). Ensure spring preload is set correctly (refer to Tein's general guidelines).
Clunking/Rattling Noise	Loose mounting bolts; damaged components; foreign object.	Inspect all mounting points and tighten to specifications. Check for any contact with other vehicle components. Inspect for damage.
Oil Leak from Damper	Seal failure; damage to damper body.	Contact customer support for warranty or replacement options.

8. Specifications

Feature	Detail
Manufacturer	Tein
Product Model	GSB48-91SS2
Application	Acura TSX (2004-2008)
Construction	Steel
Internal Design	Twin Tube
Damping Adjustment	16-way
Ride Height Adjustment	Via Spring Seat
Item Weight	51.3 pounds
Product Dimensions	51.3 x 35.6 x 12.1 inches
Safety Rating	DOT Certified

9. Warranty Information

For specific warranty details regarding your Tein Street Advance Z Coilovers, please refer to the warranty card included with your product or visit the official Tein website. Warranty coverage typically addresses manufacturing defects and material flaws under normal use conditions.

10. Customer Support

If you have any questions regarding the installation, adjustment, or maintenance of your Tein Street Advance Z Coilovers, please contact your authorized Tein dealer or the Tein customer support department. Contact information can typically be found on the official Tein website or in your product packaging.

11. Legal Disclaimer

This product is an aftermarket product. It is not OEM and is neither manufactured nor sold by the vehicle manufacturer listed. We are not affiliated with the vehicle manufacturer.