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HKS 80155-AH003

HKS Hipermax III Sport Coilover Suspension Kit

Model: 80155-AH003

Introduction

The HKS Hipermax III Sport Coilover Suspension Kit (Model: 80155-AH003) is engineered to provide enhanced vehicle handling and ride performance. Featuring a hiper linear piston design, this kit offers precise control and responsiveness. The front spring rate is 13 kgf/mm and the rear spring rate is 11 kgf/mm, optimized for a balanced and sporty driving experience. This manual provides essential information for the proper installation, operation, and maintenance of your new suspension system.

Safety Information

Always prioritize safety when working on your vehicle. Improper installation or use of this product can lead to serious injury or damage. Read all instructions thoroughly before beginning installation. If you are not confident in your mechanical abilities, seek professional assistance.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before working underneath it. Never rely solely on a jack.
- Disconnect the vehicle's battery before performing any electrical work.
- Do not modify the suspension components. Use only genuine HKS parts.
- Keep children and pets away from the work area.

Package Contents

Please verify that all components are present and undamaged before proceeding with installation. Contact your dealer immediately if any items are missing or damaged.

- Front Coilover Assemblies (2)
- Rear Coilover Assemblies (2)
- Spanner Wrenches for Height Adjustment (2)
- Damping Adjustment Tool (1)
- Zip Ties / Cable Ties (Set)
- Instruction Manual (This document)



Figure 1: Complete HKS Hipermax III Sport Coilover Suspension Kit components. This image displays the two main coilover units, along with the included adjustment tools and cable ties.

Setup and Installation

Installation of the HKS Hipermax III Sport Coilover Suspension Kit requires specialized tools and mechanical knowledge. It is highly recommended that installation be performed by a qualified professional.

Pre-Installation Steps:

1. Park the vehicle on a level surface and engage the parking brake.
2. Loosen the lug nuts on the wheels.
3. Safely lift the vehicle using a hydraulic jack and support it with jack stands at appropriate lift points.
4. Remove the wheels.

Front Coilover Installation:

1. Locate and remove the OEM front shock absorber and spring assembly. This typically involves disconnecting brake lines, ABS sensors, and sway bar links, then unbolting the top hat from the chassis and the lower mount from the knuckle.
2. Carefully insert the new HKS front coilover assembly into position. Ensure proper alignment of the top hat studs with the chassis mounting holes.
3. Secure the top hat with the provided nuts, tightening to factory specifications.
4. Attach the lower mount of the coilover to the vehicle's knuckle, reattaching any disconnected lines or links.
5. Repeat for the other front side.

Rear Coilover Installation:

1. Locate and remove the OEM rear shock absorber and spring assembly. This may involve removing interior trim to access top mounts.
2. Install the new HKS rear coilover assembly, ensuring correct orientation and secure mounting.

3. Secure all mounting points, tightening to factory specifications.
4. Repeat for the other rear side.

Post-Installation Steps:

1. Reinstall the wheels and lower the vehicle.
2. Adjust the ride height using the provided spanner wrenches. Ensure the vehicle is on a level surface for accurate measurement. Adjust in small increments and re-measure.
3. Adjust damping settings as desired (refer to Operating Instructions).
4. Perform a full wheel alignment immediately after installation to prevent premature tire wear and ensure safe handling.
5. Test drive the vehicle in a safe area to confirm proper operation and feel.

Operating Instructions

The HKS Hipermax III coilovers allow for adjustable ride height and damping force, enabling fine-tuning of your vehicle's suspension characteristics.

Ride Height Adjustment:

- Use the supplied spanner wrenches to loosen the lower locking collar and then rotate the main body or spring seat to adjust the ride height.
- Lowering the spring seat will lower the vehicle; raising it will raise the vehicle.
- Always ensure both sides of an axle are adjusted equally to maintain balance.
- After adjustment, tighten the locking collar securely to prevent movement.

Damping Force Adjustment:

- The damping force is adjusted via a click-type knob located at the top of the coilover shaft (for front) or bottom (for rear, depending on application).
- Use the provided damping adjustment tool to turn the knob.
- Turning clockwise typically increases damping (firmer ride), while turning counter-clockwise decreases damping (softer ride).
- Refer to the specific click settings recommended by HKS for your vehicle application, usually found in a supplementary guide or on the HKS website.
- Adjust all four coilovers to the same damping setting for balanced performance, or fine-tune for specific driving conditions (e.g., track vs. street).

Maintenance

Regular maintenance will ensure the longevity and optimal performance of your HKS Hipermax III coilovers.

- **Regular Inspection:** Periodically inspect the coilovers for any signs of leaks, damage, or loose components. Check rubber boots for tears and ensure all bolts are securely tightened.
- **Cleaning:** Keep the coilover bodies clean, especially the threaded sections, to prevent dirt and debris from interfering with height adjustment. Use mild soap and water, then rinse thoroughly.
- **Lubrication:** Apply a thin layer of silicone grease or similar lubricant to the threaded sections of the coilover bodies annually, or more frequently in harsh environments, to facilitate smooth height adjustments.
- **Alignment Check:** Have your vehicle's wheel alignment checked annually, or after any significant suspension adjustments, to ensure proper geometry and tire wear.

Troubleshooting

This section addresses common issues you might encounter with your coilover suspension kit.

Problem	Possible Cause	Solution
Uneven Ride Height	Incorrect height adjustment; spring perch moved.	Re-measure and adjust ride height on both sides of the axle. Ensure locking collars are tight.
Excessive Noise (Clunking/Squeaking)	Loose mounting bolts; worn bushings; foreign object.	Inspect all mounting points for tightness. Check bushings for wear. Remove any debris.
Poor Handling/Unstable Ride	Incorrect damping settings; improper alignment; damaged component.	Adjust damping settings. Get a professional wheel alignment. Inspect for damaged components.
Oil Leak from Shock Body	Damaged seal; internal component failure.	This indicates a serious issue. Contact HKS support or a qualified technician for repair or replacement.

Specifications

Feature	Detail
Model Number	80155-AH003
Product Type	Sport Coilover Suspension Kit
Front Spring Rate	13 kgf/mm
Rear Spring Rate	11 kgf/mm
Piston Type	Hiper Linear Piston
Damping Adjustment	Multi-step adjustable
Ride Height Adjustment	Full-length adjustable

Warranty and Support

HKS products are manufactured to high standards of quality and performance. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official HKS website. Warranty coverage typically applies to manufacturing defects and does not cover damage due to improper installation, misuse, or normal wear and tear.

For technical support, parts inquiries, or warranty claims, please contact HKS customer service through their official website or authorized distributors. When contacting support, please have your product model number (80155-AH003) and purchase information readily available.

Official HKS Website: www.hks-power.co.jp/en/

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